# Appendix H

Plants

| **American Hart's-tongue Fern** | **Status** | **Threatened (1989)** | 54 FR 29726 |
|---|---|---|---|

| **Scientific Name** | *Asplenium scolopendrium var. americanum* | **Critical Habitat** | N/A |
|---|---|---|---|

**Habitat**[1]

| Shoreline (beach/land) | Ports, Canals, Industrial Areas | Rivers and Streams | Bays and Estuaries | Ponds and Lakes | Wetlands | Upland Areas |
|---|---|---|---|---|---|---|
| No | No | No | No | No | No | Yes |

**States Relevant**

| IL | IN | MI | MN | OH | WI |
|---|---|---|---|---|---|
| | | X | | | |

**High-Risk Response Actions and Activities**

May affect, not likely to adversely affect due to insignificant or discountable effects

Upland Areas

Waste Handling

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

Upland Areas

- Booming
- Creation/Use of New Access Points
- Creation/Use of Staging Areas (on land)
- Access of personnel by foot traffic
- Temporary Storage (on land)
- Decontamination

May affect, likely to adversely affect – discuss possible BMP's to minimize impact

Upland Areas

- Sandblasting
- Mechanical (non-chemical) sand cleaning (surface, <1 inch)
- Mechanical (non-chemical) sand cleaning and excavation (>1 inch)
- Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation

Special considerations needed, high level of concern

All Habitats of Occurrence

Natural attenuation: allow habitat to recover naturally while monitoring
Locating, sampling, and monitoring: air, land, water (includes SCAT)

**BMPs**

1. A wildlife monitoring plan.
2. Buffer zones with the concurrence of USFWS.
3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.
4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

USFWS Lead Office Contact:

| **Decurrent False Aster** | **Status** | **Threatened (1988)** | 55 FR 45858 |
|---|---|---|---|

| **Scientific Name** | *Boltonia decurrens* | **Critical Habitat** | N/A |
|---|---|---|---|

**Habitat**[1]

| Shoreline (beach/land) | Ports, Canals, Industrial Areas | Rivers and Streams | Bays and Estuaries | Ponds and Lakes | Wetlands | Upland Areas |
|---|---|---|---|---|---|---|
| No | No | Yes | No | No | Yes | Yes |

**States Relevant**

| IL | IN | MI | MN | OH | WI |
|---|---|---|---|---|---|
| X | | | | | |

**High-Risk Response Actions and Activities**

May affect, not likely to adversely affect due to insignificant or discountable effects

| Rivers and Streams | Wetlands |
|---|---|
| • Waste Handling<br>• Detection of non-floating or submerged oil | • Waste Handling<br>• Detection of non-floating or submerged oil |

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

| Rivers and Streams | Wetlands | Upland Areas |
|---|---|---|
| • Booming<br>• Dikes or Berms<br>• Construction barriers, pits, and trenches<br>• Culvert Blocking<br>• Vacuuming<br>• Sorbents<br>• Flooding<br>• Flushing<br>• Steam Cleaning<br>• Sandblasting<br>• Mechanical (non-chemical) sand cleaning (surface, <1 inch)<br>• Mechanical (non-chemical) sand cleaning and excavation (>1 inch)<br>• Manual removal / Cleaning of oil sediment, debris, or vegetation<br>• Use of Vehicles<br>• Use of machinery/supporting equipment<br>• Creation/Use of New Access Points<br>• Creation/Use of Staging Area (on land)<br>• Locating, Sampling, and monitoring: Air, Land, water (includes SCAT)<br>• Access of personnel by foot traffic<br>• Temporary Storage (on land)<br>• Decontamination | • Dikes or Berms<br>• Construction barriers, pits, and trenches<br>• Culvert Blocking<br>• Vacuuming<br>• Sorbents<br>• Flooding<br>• Flushing<br>• Steam Cleaning<br>• Sandblasting<br>• Mechanical (non-chemical) sand cleaning (surface, <1 inch)<br>• Mechanical (non-chemical) sand cleaning and excavation (>1 inch)<br>• Manual removal / Cleaning of oil sediment, debris, or vegetation<br>• Use of Vehicles<br>• Use of machinery/supporting equipment<br>• Creation/Use of New Access Points<br>• Creation/Use of Staging Area (on land)<br>• Locating, Sampling, and monitoring: Air, Land, water (includes SCAT)<br>• Access of personnel by foot traffic<br>• Temporary Storage (on land)<br>• Decontamination | • Temporary Storage (on land) |

Special considerations needed, high level of concern

All Habitats of Occurrence

Natural attenuation: allow habitat to recover naturally while monitoring

**BMPs**

1. A wildlife monitoring plan.
2. Buffer zones with the concurrence of USFWS.
3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.
4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

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USFWS Lead Office Contact:

| **Dwarf Lake Iris** | **Status** | **Threatened (1988)** | 53 FR 37972 |
|---|---|---|---|

| **Scientific Name** | *Iris lacustris* | **Critical Habitat** | N/A |
|---|---|---|---|

**Habitat**[1]

| Shoreline (beach/land) | Ports, Canals, Industrial Areas | Rivers and Streams | Bays and Estuaries | Ponds and Lakes | Wetlands | Upland Areas |
|---|---|---|---|---|---|---|
| Yes | No | No | No | No | Yes | Yes |

**States Relevant**

| IL | IN | MI | MN | OH | WI |
|---|---|---|---|---|---|
| | | X | | | X |

**High-Risk Response Actions and Activities**

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

All Habitats of Occurrence

- Booming
- Vacuuming
- Sorbents
- Flooding
- Flushing
- Steam Cleaning
- Mechanical (non-chemical) sand cleaning (surface, <1 inch)
- Mechanical (non-chemical) sand cleaning and excavation (>1 inch)
- Manual removal / Cleaning of oil sediment, debris, or vegetation
- Use of Vehicles
- Use of machinery/supporting equipment
- Creation/Use of New Access Points
- Creation/Use of Staging Area (on land)
- Access of personnel by foot traffic
- Waste Handling
- Temporary Storage (on water)
- Temporary Storage (on land)
- Decontamination

May affect, likely to adversely affect – discuss possible BMP's with Services

All Habitats of Occurrence

Dikes or Berms

Special considerations needed, high level of concern

All Habitats of Occurrence

Natural attenuation: allow habitat to recover naturally while monitoring
Locating, sampling, and monitoring: air, land, water (includes SCAT)

**BMPs**

1. A wildlife monitoring plan.
2. Buffer zones with the concurrence of USFWS.
3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.
4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

USFWS Lead Office Contact:

| **Eastern Prairie Fringed Orchid** | **Status** | **Threatened (1988)** | 53 FR 37972 |
|---|---|---|---|

| **Scientific Name** | *Platanthera leucophaea* | **Critical Habitat** | N/A |
|---|---|---|---|

**Habitat**[1]

| Shoreline (beach/land) | Ports, Canals, Industrial Areas | Rivers and Streams | Bays and Estuaries | Ponds and Lakes | Wetlands | Upland Areas |
|---|---|---|---|---|---|---|
| No | No | Yes | No | No | Yes | No |

**States Relevant**

| IL | IN | MI | MN | OH | WI |
|---|---|---|---|---|---|
| X | X | X | | X | X |

**High-Risk Response Actions and Activities**

May affect, not likely to adversely affect due to insignificant or discountable effects

| Rivers and Stream | Wetlands |
|---|---|
| Detection of non-floating or submerged oil | |

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

| Rivers and Streams | Wetlands | Upland Areas |
|---|---|---|
| • Booming<br>• Construction barriers, pits, and trenches<br>• Culvert Blocking | | • Temporary Storage (on land) |

May affect, likely to adversely affect – discuss possible BMP's with Services

| Rivers and Stream | Wetlands |
|---|---|
| Dikes or Berms | |

**BMPs**

1. A wildlife monitoring plan.
2. Buffer zones with the concurrence of USFWS.
3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.
4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

USFWS Lead Office Contact:

| **Fassett's Locoweed** | **Status** | **Threatened (1988)** | 53 FR 37970 |
|---|---|---|---|

| **Scientific Name** | *Oxytropis campestris var. chartacea* | **Critical Habitat** | N/A |
|---|---|---|---|

**Habitat**[1]

| Shoreline (beach/land) | Ports, Canals, Industrial Areas | Rivers and Streams | Bays and Estuaries | Ponds and Lakes | Wetlands | Upland Areas |
|---|---|---|---|---|---|---|
| Yes | No | No | No | Yes | No | Yes |

**States Relevant**

| IL | IN | MI | MN | OH | WI |
|---|---|---|---|---|---|
| | | | | | X |

**High-Risk Response Actions and Activities**

May affect, not likely to adversely affect due to insignificant or discountable effects

All Habitats of Occurrence

- Flooding
- Deterrence and Hazing
- Capture and care of contaminated species or recovery of contaminated carcasses

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

All Habitats of Occurrence

- Booming
- Dikes or Berms
- Construction barriers, pits, and trenches
- Culvert Blocking
- Vacuuming
- Sorbents
- Flushing
- Steam Cleaning
- Sandblasting
- Mechanical (non-chemical) sand cleaning (surface, <1 inch)
- Mechanical (non-chemical) sand cleaning and excavation (>1 inch)
- Manual removal / Cleaning of oil sediment, debris, or vegetation
- Use of Vehicles
- Use of machinery/supporting equipment
- Creation/Use of New Access Points
- Creation/Use of Staging Area (on land)
- Access of personnel by foot traffic
- Waste Handling
- Temporary Storage (on land)
- Decontamination

Special considerations needed, high level of concern

All Habitats of Occurrence

Natural attenuation: allow habitat to recover naturally while monitoring
Locating, sampling, and monitoring: air, land, water (includes SCAT)

**BMPs**

1. A wildlife monitoring plan.
2. Buffer zones with the concurrence of USFWS.
3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.
4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

USFWS Lead Office Contact:

| **Houghton's Goldenrod** | **Status** | **Threatened (1988)** | 53 FR 27134 |
|---|---|---|---|

| **Scientific Name** | *Solidago houghtonii* | **Critical Habitat** | N/A |
|---|---|---|---|

**Habitat**[1]

| Shoreline (beach/land) | Ports, Canals, Industrial Areas | Rivers and Streams | Bays and Estuaries | Ponds and Lakes | Wetlands | Upland Areas |
|---|---|---|---|---|---|---|
| Yes | No | Yes | No | Yes | Yes | No |

**States Relevant**

| IL | IN | MI | MN | OH | WI |
|---|---|---|---|---|---|
| | | X | | | |

**High-Risk Response Actions and Activities**

May affect, not likely to adversely affect due to insignificant or discountable effects

| Rivers and Streams | All Other Habitats of Occurrence |
|---|---|
| • Detection of non-floating or submerged oil | • Detection of non-floating or submerged oil<br>• Deterrence or Hazing<br>• Capture and care of contaminated species or recovery of contaminated carcasses<br>• Temporary Storage (on water) |

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

| Rivers and Stream | All Other Habitats of Occurrence |
|---|---|
| • Booming<br>• Construction barriers, pits, and trenches<br>• Culvert Blocking | • Booming<br>• Dikes or Berms<br>• Construction barriers, pits, and trenches<br>• Culvert Blocking<br>• Skimming<br>• Vacuuming<br>• Sorbents<br>• Flooding<br>• Flushing<br>• Steam Cleaning<br>• Sandblasting<br>• Mechanical (non-chemical) sand cleaning (surface, <1 inch)<br>• Mechanical (non-chemical) sand cleaning and excavation (>1 inch)<br>• Manual removal / Cleaning of oil sediment, debris, or vegetation<br>• Recovery of non-floating or submerged oil<br>• Containment of non-floating or submerged oil<br>• Use of Vehicles<br>• Use of machinery/supporting equipment<br>• Creation/Use of New Access Points<br>• Creation/Use of Staging Area (on land)<br>• Access of personnel by foot traffic<br>• Waste Handling<br>• Temporary Storage (on land)<br>• Decontamination |

Special considerations needed, high level of concern

| Rivers and Stream | All Other Habitats of Occurrence |
|---|---|
| N/A | Natural attenuation: allow habitat to recover naturally while monitoring<br>Locating, sampling, and monitoring: air, land, water (includes SCAT) |

**BMPs**

1. A wildlife monitoring plan.
2. Buffer zones with the concurrence of USFWS.
3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.
4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure construction/deconstruction/removal plans are in place and are scheduled/implemented to eliminate or minimize impacts to threatened and endangered species and their habitats.

USFWS Lead Office Contact:

| **Lakeside Daisy** | **Status** | **Threatened (1988)** | 53 FR 23742 |
|---|---|---|---|

| **Scientific Name** | *Hymenoxys herbacea* | **Critical Habitat** | N/A |
|---|---|---|---|

**Habitat**[1]

| Shoreline (beach/land) | Ports, Canals, Industrial Areas | Rivers and Streams | Bays and Estuaries | Ponds and Lakes | Wetlands | Upland Areas |
|---|---|---|---|---|---|---|
| No | No | No | No | No | No | Yes |

**States Relevant**

| IL | IN | MI | MN | OH | WI |
|---|---|---|---|---|---|
| X | | X | | X | |

**High-Risk Response Actions and Activities**

May affect, not likely to adversely affect due to insignificant or discountable effects

Uplands

Waste Handling

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

Uplands

- Booming
- Manual removal / Cleaning of oil sediment, debris, or vegetation
- Creation/Use of New Access Points
- Creation/Use of Staging Area (on land)
- Access of personnel by foot traffic
- Temporary Storage (on land)
- Decontamination

Special considerations needed, high level of concern

Uplands

Natural attenuation: allow habitat to recover naturally while monitoring
Locating, sampling, and monitoring: air, land, water (includes SCAT)

**BMPs**

1. A wildlife monitoring plan.
2. Buffer zones with the concurrence of USFWS.
3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.
4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

USFWS Lead Office Contact:

| **Leafy Prairie-clover** | **Status** | **Endangered (1991)** | 56 FR 19953 |
|---|---|---|---|

| **Scientific Name** | *Dalea foliosa* | **Critical Habitat** | N/A |
|---|---|---|---|

**Habitat**[1]

| Shoreline (beach/land) | Ports, Canals, Industrial Areas | Rivers and Streams | Bays and Estuaries | Ponds and Lakes | Wetlands | Upland Areas |
|---|---|---|---|---|---|---|
| No | No | No | No | No | No | Yes |

**States Relevant**

| IL | IN | MI | MN | OH | WI |
|---|---|---|---|---|---|
| X | | | | | |

**High-Risk Response Actions and Activities**

May affect, not likely to adversely affect due to insignificant or discountable effects

Uplands

Waste Handling

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

Uplands

- Booming
- Manual removal / Cleaning of oil sediment, debris, or vegetation
- Creation/Use of New Access Points
- Creation/Use of Staging Area (on land)
- Access of personnel by foot traffic
- Temporary Storage (on land)
- Decontamination

Special considerations needed, high level of concern

Uplands

Natural attenuation: allow habitat to recover naturally while monitoring
Locating, sampling, and monitoring: air, land, water (includes SCAT)

**BMPs**

1. A wildlife monitoring plan.
2. Buffer zones with the concurrence of USFWS.
3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.
4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

USFWS Lead Office Contact:

| **Leedy's Roseroot** | **Status** | **Threatened (2010)** | 75 FR 55686 |
|---|---|---|---|

| **Scientific Name** | *Rhodiola integrifolia ssp. leedyi* | **Critical Habitat** | N/A |
|---|---|---|---|

**Habitat**[1]

| Shoreline (beach/land) | Ports, Canals, Industrial Areas | Rivers and Streams | Bays and Estuaries | Ponds and Lakes | Wetlands | Upland Areas |
|---|---|---|---|---|---|---|
| No | No | No | No | No | No | Yes |

**States Relevant**

| IL | IN | MI | MN | OH | WI |
|---|---|---|---|---|---|
| | | | X | | |

**High-Risk Response Actions and Activities**

May affect, not likely to adversely affect due to insignificant or discountable effects

Upland Areas

Waste Handling

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

Upland Areas

- 
- Booming
- Creation/Use of New Access Points
- Creation/Use of Staging Areas (on land)
- Access of personnel by foot traffic
- Temporary Storage (on land)
- Decontamination

May affect, likely to adversely affect – discuss possible BMPs to minimize impact

Upland Areas

- Sandblasting
- Mechanical (non-chemical) sand cleaning (surface, <1 inch)
- Mechanical (non-chemical) sand cleaning and excavation (>1 inch)
- Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation

Special considerations needed, high level of concern

All Habitats of Occurrence

Natural attenuation: allow habitat to recover naturally while monitoring
Locating, sampling, and monitoring: air, land, water (includes SCAT)

**BMPs**

1. A wildlife monitoring plan.
2. Buffer zones with the concurrence of USFWS.
3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.
4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

USFWS Lead Office Contact:

| **Mead's Milkweed** | **Status** | **Threatened (1988)** | 53 FR 33992 |
|---|---|---|---|

| **Scientific Name** | *Asclepias meadii* | **Critical Habitat** | N/A |
|---|---|---|---|

**Habitat**[1]

| Shoreline (beach/land) | Ports, Canals, Industrial Areas | Rivers and Streams | Bays and Estuaries | Ponds and Lakes | Wetlands | Upland Areas |
|---|---|---|---|---|---|---|
| No | No | No | No | No | No | Yes |

**States Relevant**

| IL | IN | MI | MN | OH | WI |
|---|---|---|---|---|---|
| X | X | | | | X |

**High-Risk Response Actions and Activities**

May affect, not likely to adversely affect due to insignificant or discountable effects

Upland Areas

- Deterrence or Hazing
- Capture and care of contaminated species or recovery of contaminated carcasses
- Waste Handling

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

Upland Areas

- Booming
- Dikes or Berms
- Construction barriers, pits, and trenches
- Mechanical (non-chemical) sand cleaning (surface, <1 inch)
- Mechanical (non-chemical) sand cleaning and excavation (>1 inch)
- Manual removal / Cleaning of oil sediment, debris, or vegetation
- Use of Vehicles
- Use of machinery/supporting equipment
- Creation/Use of New Access Points
- Creation/Use of Staging Area (on land)
- Access of personnel by foot traffic
- Temporary Storage (on land)
- Decontamination

Special considerations needed, high level of concern

All Habitats of Occurrence

Natural attenuation: allow habitat to recover naturally while monitoring
Locating, sampling, and monitoring: air, land, water (includes SCAT)

**BMPs**

1. A wildlife monitoring plan.
2. Buffer zones with the concurrence of USFWS.
3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.
4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

USFWS Lead Office Contact:

| **Michigan Monkey-Flower** | **Status** | **Endangered (2010)** | 75 FR 55686 |
|---|---|---|---|

| **Scientific Name** | *Mimulus michiganensis* | **Critical Habitat** | N/A |
|---|---|---|---|

**Habitat**[1]

| Shoreline (beach/land) | Ports, Canals, Industrial Areas | Rivers and Streams | Bays and Estuaries | Ponds and Lakes | Wetlands | Upland Areas |
|---|---|---|---|---|---|---|
| No | No | Yes | No | No | Yes | No |

**States Relevant**

| IL | IN | MI | MN | OH | WI |
|---|---|---|---|---|---|
| | | X | | | |

**High-Risk Response Actions and Activities**

May affect, not likely to adversely affect due to insignificant or discountable effects

All Habitats of Occurrence

- Detection of non-floating or submerged oil
- Deterrence or Hazing
- Capture and care of contaminated species or recovery of contaminated carcasses
- Temporary Storage (on water)

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

All Habitats of Occurrence

- Booming
- Dikes or Berms
- Construction barriers, pits, and trenches
- Culvert Blocking
- Skimming
- Vacuuming
- Sorbents
- Flooding
- Flushing
- Steam Cleaning
- Sandblasting
- Mechanical (non-chemical) sand cleaning (surface, <1 inch)
- Mechanical (non-chemical) sand cleaning and excavation (>1 inch)
- Manual removal / Cleaning of oil sediment, debris, or vegetation
- Recovery of non-floating or submerged oil
- Containment of non-floating or submerged oil
- Use of Vehicles
- Use of machinery/supporting equipment
- Creation/Use of New Access Points
- Creation/Use of Staging Area (on land)
- Access of personnel by foot traffic
- Waste Handling
- Temporary Storage (on land)
- Decontamination

Special considerations needed, high level of concern

All Habitats of Occurrence

Natural attenuation: allow habitat to recover naturally while monitoring
Locating, sampling, and monitoring: air, land, water (includes SCAT)

**BMPs**

1. A wildlife monitoring plan
2. Buffer zones with the concurrence of USFWS.
3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.
4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

USFWS Lead Office Contact:

| **Minnesota Dwarf Trout Lily** | **Status** | **Endangered (1986)** | 51 FR 10521 |
|---|---|---|---|

| **Scientific Name** | *Erythronium propullans* | **Critical Habitat** | N/A |
|---|---|---|---|

**Habitat**[1]

| Shoreline (beach/land) | Ports, Canals, Industrial Areas | Rivers and Streams | Bays and Estuaries | Ponds and Lakes | Wetlands | Upland Areas |
|---|---|---|---|---|---|---|
| No | No | Yes | No | No | No | Yes |

**States Relevant**

| IL | IN | MI | MN | OH | WI |
|---|---|---|---|---|---|
| | | | X | | |

**High-Risk Response Actions and Activities**

May affect, not likely to adversely affect due to insignificant or discountable effects

| Rivers and Streams | Upland Areas |
|---|---|
| • Skimming<br>• Detection of non-floating or submerged oil<br>• Deterrence or Hazing<br>• Capture and care of contaminated species or recovery of contaminated carcasses<br>• Waste Handling | • Skimming<br>• Deterrence or Hazing<br>• Capture and care of contaminated species or recovery of contaminated carcasses<br>• Waste Handling |

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

| Rivers and Streams | Upland Areas |
|---|---|
| • Booming<br>• Dikes or Berms<br>• Construction barriers, pits, and trenches<br>• Culvert Blocking<br>• Vacuuming<br>• Sorbents<br>• Flooding<br>• Flushing<br>• Steam Cleaning<br>• Sandblasting<br>• Mechanical (non-chemical) sand cleaning (surface, <1 inch)<br>• Mechanical (non-chemical) sand cleaning and excavation (>1 inch)<br>• Manual removal / Cleaning of oil sediment, debris, or vegetation<br>• Use of Vehicles<br>• Use of machinery/supporting equipment<br>• Creation/Use of New Access Points<br>• Creation/Use of Staging Area (on land)<br>• Temporary Storage (on land)<br>• Decontamination | • Booming<br>• Mechanical (non-chemical) sand cleaning (surface, <1 inch)<br>• Mechanical (non-chemical) sand cleaning and excavation (>1 inch)<br>• Manual removal / Cleaning of oil sediment, debris, or vegetation<br>• Use of Vehicles<br>• Use of machinery/supporting equipment<br>• Creation/Use of New Access Points<br>• Creation/Use of Staging Area (on land)<br>• Temporary Storage (on land)<br>• Decontamination |

Special considerations needed, high level of concern

All Habitats of Occurrence

Natural attenuation: allow habitat to recover naturally while monitoring
Locating, sampling, and monitoring: air, land, water (includes SCAT)

**BMPs**

1. A wildlife monitoring plan.
2. Buffer zones with the concurrence of USFWS.
3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.
4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

USFWS Lead Office Contact:

| **Northern Wild Monkshood** | **Status** | **Threatened (1978)** | 43 FR 17910 |
|---|---|---|---|

| **Scientific Name** | *Aconitum noveboracense* | **Critical Habitat** | N/A |
|---|---|---|---|

**Habitat**[1]

| Shoreline (beach/land) | Ports, Canals, Industrial Areas | Rivers and Streams | Bays and Estuaries | Ponds and Lakes | Wetlands | Upland Areas |
|---|---|---|---|---|---|---|
| No | No | Yes | No | No | No | Yes |

**States Relevant**

| IL | IN | MI | MN | OH | WI |
|---|---|---|---|---|---|
| | | | | X | X |

**High-Risk Response Actions and Activities**

May affect, not likely to adversely affect due to insignificant or discountable effects

| Rivers and Streams | Upland Areas |
|---|---|
| • Skimming<br>• Detection of non-floating or submerged oil<br>• Deterrence or Hazing<br>• Capture and care of contaminated species or recovery of contaminated carcasses<br>• Waste Handling | • Waste Handling |

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

| Rivers and Streams | Upland Areas |
|---|---|
| • Booming<br>• Dikes or Berms<br>• Construction barriers, pits, and trenches<br>• Culvert Blocking<br>• Vacuuming<br>• Sorbents<br>• Flooding<br>• Flushing<br>• Steam Cleaning<br>• Sandblasting<br>• Mechanical (non-chemical) sand cleaning (surface, <1 inch)<br>• Mechanical (non-chemical) sand cleaning and excavation (>1 inch)<br>• Manual removal / Cleaning of oil sediment, debris, or vegetation<br>• Use of Vehicles<br>• Use of machinery/supporting equipment<br>• Creation/Use of New Access Points<br>• Creation/Use of Staging Area (on land)<br>• Temporary Storage (on land)<br>• Decontamination | • Booming<br>• Creation/Use of New Access Points<br>• Creation/Use of Staging Areas (on land)<br>• Access of personnel by foot traffic<br>• Temporary Storage (on land)<br>• Decontamination |

May affect, likely to adversely affect – discuss possible BMP's to minimize impact

Upland Areas

- Sandblasting
- Mechanical (non-chemical) sand cleaning (surface, <1 inch)
- Mechanical (non-chemical) sand cleaning and excavation (>1 inch)
- Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation

Special considerations needed, high level of concern

All Habitats of Occurrence

| |
|---|
| Natural attenuation: allow habitat to recover naturally while monitoring<br>Locating, sampling, and monitoring: air, land, water (includes SCAT) |
| **BMPs** |
| 1. A wildlife monitoring plan.<br>2. Buffer zones with the concurrence of USFWS.<br>3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.<br>4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats. |
| USFWS Lead Office Contact: |

| **Pitcher's Thistle** | **Status** | **Threatened (1988)** | 53 FR 27137 |
|---|---|---|---|

| **Scientific Name** | *Cirsium pitcheri* | **Critical Habitat** | N/A |
|---|---|---|---|

**Habitat**[1]

| Shoreline (beach/land) | Ports, Canals, Industrial Areas | Rivers and Streams | Bays and Estuaries | Ponds and Lakes | Wetlands | Upland Areas |
|---|---|---|---|---|---|---|
| Yes | No | No | No | No | No | Yes |

**States Relevant**

| IL | IN | MI | MN | OH | WI |
|---|---|---|---|---|---|
| X | X | X | | | X |

**High-Risk Response Actions and Activities**

May affect, not likely to adversely affect due to insignificant or discountable effects

| Shorelines | Upland Areas |
|---|---|
| • Deterrence or Hazing<br>• Capture and care of contaminated species or recovery of contaminated carcasses<br>• Waste Handling | • Deterrence or Hazing<br>• Capture and care of contaminated species or recovery of contaminated carcasses<br>• Waste Handling |

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

| Shorelines | Upland Areas |
|---|---|
| • Booming<br>• Vacuuming<br>• Sorbents<br>• Flooding<br>• Flushing<br>• Steam Cleaning<br>• Sandblasting<br>• Mechanical (non-chemical) sand cleaning (surface, <1 inch)<br>• Mechanical (non-chemical) sand cleaning and excavation (>1 inch)<br>• Manual removal / Cleaning of oil sediment, debris, or vegetation<br>• Use of Vehicles<br>• Use of machinery/supporting equipment<br>• Creation/Use of New Access Points<br>• Creation/Use of Staging Area (on land)<br>• Access of personnel by foot traffic<br>• Temporary Storage (on land)<br>• Decontamination | • Booming<br>• Skimming<br>• Manual removal / Cleaning of oil sediment, debris, or vegetation<br>• Use of Vehicles<br>• Use of machinery/supporting equipment<br>• Creation/Use of New Access Points<br>• Creation/Use of Staging Area (on land)<br>• Access of personnel by foot traffic<br>• Temporary Storage (on land)<br>• Decontamination |

May affect, likely to adversely affect – discuss possible BMPs with Services

Shorelines

Dikes or Berms

Special considerations needed, high level of concern

All Habitats of Occurrence

Natural attenuation: allow habitat to recover naturally while monitoring
Locating, sampling, and monitoring: air, land, water (includes SCAT)

**BMPs**

1. A wildlife monitoring plan.
2. Buffer zones with the concurrence of USFWS.
3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.
4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure construction/deconstruction/removal plans are in place and are scheduled/implemented to eliminate or minimize impacts to threatened and endangered species and their habitats.

USFWS Lead Office Contact:

| **Prairie Bush-Clover** | **Status** | **Threatened (1987)** | 52 FR 781 |
|---|---|---|---|

| **Scientific Name** | *Lespedeza leptostachya* | **Critical Habitat** | N/A |
|---|---|---|---|

**Habitat**[1]

| Shoreline (beach/land) | Ports, Canals, Industrial Areas | Rivers and Streams | Bays and Estuaries | Ponds and Lakes | Wetlands | Upland Areas |
|---|---|---|---|---|---|---|
| No | No | No | No | No | No | Yes |

**States Relevant**

| IL | IN | MI | MN | OH | WI |
|---|---|---|---|---|---|
| X | | | X | | X |

**High-Risk Response Actions and Activities**

May affect, not likely to adversely affect due to insignificant or discountable effects

Upland Areas

- Deterrence or Hazing
- Capture and care of contaminated species or recovery of contaminated carcasses
- Waste Handling

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

Upland Areas

- Booming
- Dikes or Berms
- Construction barriers, pits, and trenches
- Mechanical (non-chemical) sand cleaning (surface, <1 inch)
- Mechanical (non-chemical) sand cleaning and excavation (>1 inch)
- Manual removal / Cleaning of oil sediment, debris, or vegetation
- Use of Vehicles
- Use of machinery/supporting equipment
- Creation/Use of New Access Points
- Creation/Use of Staging Area (on land)
- Access of personnel by foot traffic
- Temporary Storage (on land)
- Decontamination

Special considerations needed, high level of concern

All Habitats of Occurrence

Natural attenuation: allow habitat to recover naturally while monitoring
Locating, sampling, and monitoring: air, land, water (includes SCAT)

**BMPs**

1. A wildlife monitoring plan.
2. Buffer zones with the concurrence of USFWS.
3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.
4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

USFWS Lead Office Contact:

| **Running Buffalo Clover** | **Status** | **Endangered (1987)** | 52 FR 21478 |
|---|---|---|---|

| **Scientific Name** | *Trifolium stolonifera* | **Critical Habitat** | N/A |
|---|---|---|---|

**Habitat**[1]

| Shoreline (beach/land) | Ports, Canals, Industrial Areas | Rivers and Streams | Bays and Estuaries | Ponds and Lakes | Wetlands | Upland Areas |
|---|---|---|---|---|---|---|
| No | No | Yes | No | No | No | Yes |

**States Relevant**

| IL | IN | MI | MN | OH | WI |
|---|---|---|---|---|---|
| | X | | | X | |

**High-Risk Response Actions and Activities**

May affect, not likely to adversely affect due to insignificant or discountable effects

| Rivers and Streams | Upland Areas |
|---|---|
| • Skimming<br>• Detection of non-floating or submerged oil<br>• Deterrence or Hazing<br>• Capture and care of contaminated species or recovery of contaminated carcasses<br>• Waste Handling | • Skimming<br>• Detection of non-floating or submerged oil<br>• Deterrence or Hazing<br>• Capture and care of contaminated species or recovery of contaminated carcasses<br>• Waste Handling |

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

| Rivers and Streams | Upland Areas |
|---|---|
| • Booming<br>• Dikes or Berms<br>• Construction barriers, pits, and trenches<br>• Culvert Blocking<br>• Vacuuming<br>• Sorbents<br>• Flooding<br>• Flushing<br>• Steam Cleaning<br>• Sandblasting<br>• Mechanical (non-chemical) sand cleaning (surface, <1 inch)<br>• Mechanical (non-chemical) sand cleaning and excavation (>1 inch)<br>• Manual removal / Cleaning of oil sediment, debris, or vegetation<br>• Use of Vehicles<br>• Use of machinery/supporting equipment<br>• Creation/Use of New Access Points<br>• Creation/Use of Staging Area (on land)<br>• Temporary Storage (on land)<br>• Decontamination | • Booming<br>• Dikes or Berms<br>• Construction barriers, pits, and trenches<br>• Culvert Blocking<br>• Manual removal / Cleaning of oil sediment, debris, or vegetation<br>• Use of Vehicles<br>• Use of machinery/supporting equipment<br>• Creation/Use of New Access Points<br>• Creation/Use of Staging Area (on land)<br>• Temporary Storage (on land)<br>• Decontamination |

Special considerations needed, high level of concern

All Habitats of Occurrence

Natural attenuation: allow habitat to recover naturally while monitoring
Locating, sampling, and monitoring: air, land, water (includes SCAT)

**BMPs**

1. A wildlife monitoring plan.
2. Buffer zones with the concurrence of USFWS.
3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.
4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

USFWS Lead Office Contact:

| **Short's Bladderpod** | **Status** | **Endangered (2014)** | 79 FR 44712 |
|---|---|---|---|

| **Scientific Name** | *Physaria globosa* | **Critical Habitat** | Designated |
|---|---|---|---|

**Habitat**[1]

| Shoreline (beach/land) | Ports, Canals, Industrial Areas | Rivers and Streams | Bays and Estuaries | Ponds and Lakes | Wetlands | Upland Areas |
|---|---|---|---|---|---|---|
| No | No | Yes | No | No | No | Yes |

**States Relevant**

| IL | IN | MI | MN | OH | WI |
|---|---|---|---|---|---|
| | X | | | | |

**High-Risk Response Actions and Activities**

May affect, not likely to adversely affect due to insignificant or discountable effects

| Rivers and Streams | Upland Areas |
|---|---|
| • Skimming<br>• Detection of non-floating or submerged oil<br>• Deterrence or Hazing<br>• Capture and care of contaminated species or recovery of contaminated carcasses<br>• Waste Handling | • Waste Handling |

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

| Rivers and Streams | Upland Areas |
|---|---|
| • Booming<br>• Dikes or Berms<br>• Construction barriers, pits, and trenches<br>• Culvert Blocking<br>• Vacuuming<br>• Sorbents<br>• Flooding<br>• Flushing<br>• Steam Cleaning<br>• Sandblasting<br>• Mechanical (non-chemical) sand cleaning (surface, <1 inch)<br>• Mechanical (non-chemical) sand cleaning and excavation (>1 inch)<br>• Manual removal / Cleaning of oil sediment, debris, or vegetation<br>• Use of Vehicles<br>• Use of machinery/supporting equipment<br>• Creation/Use of New Access Points<br>• Creation/Use of Staging Area (on land)<br>• Temporary Storage (on land)<br>• Decontamination | • Booming<br>• Creation/Use of New Access Points<br>• Creation/Use of Staging Areas (on land)<br>• Access of personnel by foot traffic<br>• Temporary Storage (on land)<br>• Decontamination |

May affect, likely to adversely affect – discuss possible BMP's to minimize impact

Upland Areas

- Sandblasting
- Mechanical (non-chemical) sand cleaning (surface, <1 inch)
- Mechanical (non-chemical) sand cleaning and excavation (>1 inch)
- Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation

Special considerations needed, high level of concern

All Habitats of Occurrence

| |
|---|
| Natural attenuation: allow habitat to recover naturally while monitoring<br>Locating, sampling, and monitoring: air, land, water (includes SCAT) |
| **BMPs** |
| 1. A wildlife monitoring plan.<br>2. Buffer zones with the concurrence of USFWS.<br>3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.<br>4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats. |
| USFWS Lead Office Contact: |

| **Short's Goldenrod** | **Status** | **Endangered (1985)** | 50 FR 36085 |
|---|---|---|---|

| **Scientific Name** | *Solidago shortii* | **Critical Habitat** | N/A |
|---|---|---|---|

**Habitat**[1]

| Shoreline (beach/land) | Ports, Canals, Industrial Areas | Rivers and Streams | Bays and Estuaries | Ponds and Lakes | Wetlands | Upland Areas |
|---|---|---|---|---|---|---|
| No | No | No | No | No | No | Yes |

**States Relevant**

| IL | IN | MI | MN | OH | WI |
|---|---|---|---|---|---|
| | X | | | | |

**High-Risk Response Actions and Activities**

May affect, not likely to adversely affect due to insignificant or discountable effects

Upland Areas

- Deterrence or Hazing
- Capture and care of contaminated species or recovery of contaminated carcasses
- Waste Handling

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

Upland Areas

- Booming
- Dikes or Berms
- Construction barriers, pits, and trenches
- Mechanical (non-chemical) sand cleaning (surface, <1 inch)
- Mechanical (non-chemical) sand cleaning and excavation (>1 inch)
- Manual removal / Cleaning of oil sediment, debris, or vegetation
- Use of Vehicles
- Use of machinery/supporting equipment
- Creation/Use of New Access Points
- Creation/Use of Staging Area (on land)
- Access of personnel by foot traffic
- Temporary Storage (on land)
- Decontamination

Special considerations needed, high level of concern

All Habitats of Occurrence

Natural attenuation: allow habitat to recover naturally while monitoring
Locating, sampling, and monitoring: air, land, water (includes SCAT)

**BMPs**

1. A wildlife monitoring plan.
2. Buffer zones with the concurrence of USFWS.
3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.
4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

USFWS Lead Office Contact:

| **Small Whorled Pogonia** | **Status** | **Threatened (1994)** | 59 FR 50852 |
|---|---|---|---|

| **Scientific Name** | *Isotria medeoloides* | **Critical Habitat** | N/A |
|---|---|---|---|

**Habitat**[1]

| Shoreline (beach/land) | Ports, Canals, Industrial Areas | Rivers and Streams | Bays and Estuaries | Ponds and Lakes | Wetlands | Upland Areas |
|---|---|---|---|---|---|---|
| No | No | No | No | No | No | Yes |

**States Relevant**

| IL | IN | MI | MN | OH | WI |
|---|---|---|---|---|---|
| X | | X | | X | |

**High-Risk Response Actions and Activities**

May affect, not likely to adversely affect due to insignificant or discountable effects

Upland Areas

- Deterrence or Hazing
- Capture and care of contaminated species or recovery of contaminated carcasses
- Waste Handling

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

Upland Areas

- Booming
- Dikes or Berms
- Construction barriers, pits, and trenches
- Mechanical (non-chemical) sand cleaning (surface, <1 inch)
- Mechanical (non-chemical) sand cleaning and excavation (>1 inch)
- Manual removal / Cleaning of oil sediment, debris, or vegetation
- Use of Vehicles
- Use of machinery/supporting equipment
- Creation/Use of New Access Points
- Creation/Use of Staging Area (on land)
- Access of personnel by foot traffic
- Temporary Storage (on land)
- Decontamination

Special considerations needed, high level of concern

All Habitats of Occurrence

Natural attenuation: allow habitat to recover naturally while monitoring
Locating, sampling, and monitoring: air, land, water (includes SCAT)

**BMPs**

1. A wildlife monitoring plan.
2. Buffer zones with the concurrence of USFWS.
3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.
4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

USFWS Lead Office Contact:

| **Tennessee Pondweed** | **Status** | **Under Review** | Unlisted |
|---|---|---|---|

| **Scientific Name** | *Potamogeton tennesseensis* | **Critical Habitat** | N/A |
|---|---|---|---|

**Habitat**[1]

| Shoreline (beach/land) | Ports, Canals, Industrial Areas | Rivers and Streams | Bays and Estuaries | Ponds and Lakes | Wetlands | Upland Areas |
|---|---|---|---|---|---|---|
| No | No | Yes | No | No | Yes | No |

**States Relevant**

| IL | IN | MI | MN | OH | WI |
|---|---|---|---|---|---|
| | | | | X | |

**High-Risk Response Actions and Activities**

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

All Habitats of Occurrence

- Booming
- Dikes or Berms
- Construction barriers, pits, and trenches
- Culvert Blocking
- Skimming
- Vacuuming
- Sorbents
- Flooding
- Flushing
- Steam Cleaning
- Sandblasting
- Mechanical (non-chemical) sand cleaning (surface, <1 inch)
- Mechanical (non-chemical) sand cleaning and excavation (>1 inch)
- Manual removal / Cleaning of oil sediment, debris, or vegetation
- Detection of non-floating or submerged oil
- Recovery of non-floating or submerged oil
- Containment of non-floating or submerged oil
- Deterrence or Hazing
- Capture and care of contaminated species or recovery of contaminated carcasses
- Use of Vessels
- Use of Vehicles
- Use of machinery/supporting equipment
- Creation/Use of New Access Points
- Creation/Use of Staging Area (on land)
- Natural Attenuation – allow habitat to recover naturally while monitoring
- Deployment of buoys
- Locating, Sampling, and monitoring: Air, Land, water (includes SCAT)
- Access of personnel by foot traffic
- Waste Handling
- Temporary Storage (on water)
- Temporary Storage (on land)
- Decanting
- Decontamination

**BMPs**

1. A wildlife monitoring plan.
2. Buffer zones with the concurrence of USFWS.
3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.
4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

USFWS Lead Office Contact:

| **Virginia Sneezeweed** | **Status** | **Threatened (1998)** | 63 FR 59239 |
|---|---|---|---|

| **Scientific Name** | *Helenium virginicum* | **Critical Habitat** | N/A |
|---|---|---|---|

**Habitat**[1]

| Shoreline (beach/land) | Ports, Canals, Industrial Areas | Rivers and Streams | Bays and Estuaries | Ponds and Lakes | Wetlands | Upland Areas |
|---|---|---|---|---|---|---|
| No | No | No | No | No | Yes | No |

**States Relevant**

| IL | IN | MI | MN | OH | WI |
|---|---|---|---|---|---|
| | | | | X | |

**High-Risk Response Actions and Activities**

May affect, not likely to adversely affect due to insignificant or discountable effects

Wetlands

- Detection of non-floating or submerged oil
- Deterrence or Hazing
- Capture and care of contaminated species or recovery of contaminated carcasses
- Temporary Storage (on water)

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

Wetlands

- Booming
- Dikes or Berms
- Construction barriers, pits, and trenches
- Culvert Blocking
- Skimming
- Vacuuming
- Sorbents
- Flooding
- Flushing
- Steam Cleaning
- Sandblasting
- Mechanical (non-chemical) sand cleaning (surface, <1 inch)
- Mechanical (non-chemical) sand cleaning and excavation (>1 inch)
- Manual removal / Cleaning of oil sediment, debris, or vegetation
- Recovery of non-floating or submerged oil
- Containment of non-floating or submerged oil
- Use of Vehicles
- Use of machinery/supporting equipment
- Creation/Use of New Access Points
- Creation/Use of Staging Area (on land)
- Access of personnel by foot traffic
- Waste Handling
- Temporary Storage (on land)
- Decontamination

Special considerations needed, high level of concern

Wetlands

Natural attenuation: allow habitat to recover naturally while monitoring
Locating, sampling, and monitoring: air, land, water (includes SCAT)

**BMPs**

1. A wildlife monitoring plan.
2. Buffer zones with the concurrence of USFWS.
3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.

| |
|---|
| 4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats. . |
| USFWS Lead Office Contact: |

| **Virginia Spiraea** | **Status** | **Threatened (1990)** | 55 FR 24241 |
|---|---|---|---|

| **Scientific Name** | *Spirea virginiana* | **Critical Habitat** | N/A |
|---|---|---|---|

**Habitat**[1]

| Shoreline (beach/land) | Ports, Canals, Industrial Areas | Rivers and Streams | Bays and Estuaries | Ponds and Lakes | Wetlands | Upland Areas |
|---|---|---|---|---|---|---|
| No | No | Yes | No | No | No | No |

**States Relevant**

| IL | IN | MI | MN | OH | WI |
|---|---|---|---|---|---|
| | | | | X | |

**High-Risk Response Actions and Activities**

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

All Habitats of Occurrence

- Booming
- Dikes or Berms
- Construction barriers, pits, and trenches
- Culvert Blocking
- Vacuuming
- Sorbents
- Flooding
- Flushing
- Steam Cleaning
- Sandblasting
- Mechanical (non-chemical) sand cleaning (surface, <1 inch)
- Mechanical (non-chemical) sand cleaning and excavation (>1 inch)
- Manual removal / Cleaning of oil sediment, debris, or vegetation
- Detection of non-floating or submerged oil
- Recovery of non-floating or submerged oil
- Containment of non-floating or submerged oil
- Deterrence or Hazing
- Capture and care of contaminated species or recovery of contaminated carcasses
- Use of Vehicles
- Use of machinery/supporting equipment
- Creation/Use of New Access Points
- Creation/Use of Staging Area (on land)
- Natural Attenuation – allow habitat to recover naturally while monitoring
- Deployment of buoys
- Locating, Sampling, and monitoring: Air, Land, water (includes SCAT)
- Waste Handling
- Temporary Storage (on water)
- Temporary Storage (on land)
- Decanting
- Decontamination

**BMPs**

1. A wildlife monitoring plan.
2. Buffer zones with the concurrence of USFWS.
3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.
4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

USFWS Lead Office Contact:

| **Western Prairie Fringed Orchid** | **Status** | **Threatened (1989)** | 54 FR 39857 |
|---|---|---|---|

| **Scientific Name** | *Platanthera praeclara* | **Critical Habitat** | N/A |
|---|---|---|---|

**Habitat**[1]

| Shoreline (beach/land) | Ports, Canals, Industrial Areas | Rivers and Streams | Bays and Estuaries | Ponds and Lakes | Wetlands | Upland Areas |
|---|---|---|---|---|---|---|
| No | No | Yes | No | No | Yes | Yes |

**States Relevant**

| IL | IN | MI | MN | OH | WI |
|---|---|---|---|---|---|
| | | | X | | |

**High-Risk Response Actions and Activities**

May affect, not likely to adversely affect due to insignificant or discountable effects

| Rivers and Streams / Wetlands | Upland Areas |
|---|---|
| Detection of non-floating or submerged oil | Waste Handling |

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

| Rivers and Streams / Wetlands | Upland Areas |
|---|---|
| • Booming<br>• Construction barriers, pits, and trenches<br>• Culvert Blocking | • Booming<br>• Manual removal / Cleaning of oil sediment, debris, or vegetation<br>• Creation/Use of New Access Points<br>• Creation/Use of Staging Area (on land)<br>• Access of Personnel by foot traffic<br>• Temporary Storage (on land)<br>• Decontamination |

May affect, likely to adversely affect – discuss possible BMPs with Services

Rivers and Streams / Wetlands

Dikes or Berms

Special considerations needed, high level of concern

Upland Areas

Natural attenuation: allow habitat to recover naturally while monitoring
Locating, sampling, and monitoring: air, land, water (includes SCAT)

**BMPs**

1. A wildlife monitoring plan.
2. Buffer zones with the concurrence of USFWS.
3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.
4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

USFWS Lead Office Contact:

Snails

| **Iowa Pleistocene Snail** | **Status** | **Endangered (1978)** | 43 FR 28932 |
|---|---|---|---|

| **Scientific Name** | *Discus macclintocki* | **Critical Habitat** | N/A |
|---|---|---|---|

**Habitat**[1]

| Shoreline (beach/land) | Ports, Canals, Industrial Areas | Rivers and Streams | Bays and Estuaries | Ponds and Lakes | Wetlands | Upland Areas |
|---|---|---|---|---|---|---|
| No | No | No | No | No | No | Yes |

**States Relevant**

| IL | IN | MI | MN | OH | WI |
|---|---|---|---|---|---|
| X | | | | | |

**High-Risk Response Actions and Activities**

May affect, not likely to adversely affect due to insignificant or discountable effects

Upland Areas

Waste Handling

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

Upland Areas

- Flooding
- Flushing
- Steam Cleaning
- Sandblasting
- Mechanical (non-chemical) sand cleaning (surface, <1 inch)
- Mechanical (non-chemical) sand cleaning and excavation (>1 inch)

May affect, likely to adversely affect – discuss possible BMPs to minimize impact

Upland Areas

- Booming
- Manual removal / Cleaning of oil sediment, debris, or vegetation
- Creation/Use of New Access Points
- Creation/Use of Staging Area (on land)
- Access of personnel by foot traffic
- Temporary Storage (on land)
- Decontamination

Special considerations needed, high level of concern

All Habitats of Occurrence

Natural attenuation: allow habitat to recover naturally while monitoring
Locating, sampling, and monitoring: air, land, water (includes SCAT)

**BMPs**

1. A wildlife monitoring plan.
2. Buffer zones with the concurrence of USFWS.
3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.
4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

USFWS Lead Office Contact:

Freshwater Mussels

| **Clubshell** | **Status** | **Endangered (1993)** | 58 FR 5638 |
|---|---|---|---|

| **Scientific Name** | *Pleurobema clava* | **Critical Habitat** | N/A |
|---|---|---|---|

**Habitat**[1]

| Shoreline (beach/land) | Ports, Canals, Industrial Areas | Rivers and Streams | Bays and Estuaries | Ponds and Lakes | Wetlands | Upland Areas |
|---|---|---|---|---|---|---|
| No | Yes | Yes | Yes | Yes | No | No |

**States Relevant**

| IL | IN | MI | MN | OH | WI |
|---|---|---|---|---|---|
| X | X | X | | X | |

**High-Risk Response Actions and Activities**

May affect, not likely to adversely affect due to insignificant or discountable effects

All Habitats of Occurrence

Waste Handling

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

| Ports, Canals, Industrial Areas | Bays and Estuaries |
|---|---|
| • Booming<br>• Skimming<br>• Vacuuming<br>• Sorbents<br>• Flushing<br>• Steam Cleaning<br>• Sandblasting<br>• Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation<br>• Detection of non-floating or submerged oil<br>• Recovery of non-floating or submerged oil<br>• Containment of non-floating or submerged oil<br>• Deployment of buoys<br>• Temporary Storage (on water) | • Booming<br>• Dikes or Berms<br>• Construction barriers, dams, pits, and trenches<br>• Skimming<br>• Vacuuming<br>• Sorbents<br>• Flooding<br>• Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation<br>• Detection of non-floating or submerged oil<br>• Recovery of non-floating or submerged oil<br>• Containment of non-floating or submerged oil<br>• Deployment of buoys |

May affect, likely to adversely affect – discuss possible BMPs to minimize impact

| Rivers and Streams | Ponds and Lakes |
|---|---|
| • Booming<br>• Dikes or Berms<br>• Construction barriers, dams, pits, and trenches<br>• Culvert blocking<br>• Skimming<br>• Vacuuming<br>• Sorbents<br>• Flooding<br>• Flushing<br>• Steam Cleaning<br>• Sandblasting<br>• Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation<br>• Detection of non-floating or submerged oil<br>• Recovery of non-floating or submerged oil<br>• Containment of non-floating or submerged oil<br>• Use of Vessels<br>• Use of Vehicles<br>• Deployment of buoys<br>• Temporary Storage (on water) | • Booming<br>• Dikes or Berms<br>• Construction barriers, dams, pits, and trenches<br>• Culvert blocking<br>• Skimming<br>• Vacuuming<br>• Sorbents<br>• Flooding<br>• Flushing<br>• Steam Cleaning<br>• Sandblasting<br>• Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation<br>• Detection of non-floating or submerged oil<br>• Recovery of non-floating or submerged oil<br>• Containment of non-floating or submerged oil<br>• Use of Vessels<br>• Use of Vehicles<br>• Deployment of buoys<br>• Temporary Storage (on water) |

Special considerations needed, high level of concern

All Habitats of Occurrence

| |
|---|
| Natural attenuation: allow habitat to recover while monitoring naturally<br>Locating, sampling, and monitoring: air, land, water (includes SCAT) |
| **BMPs** |
| 1. A wildlife monitoring plan<br>2. Buffer zones with the concurrence of USFWS.<br>3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.<br>4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats. |
| USFWS Lead Office Contact: |

| **Fanshell** | **Status** | **Endangered (1990)** | 55 FR 25591 |
|---|---|---|---|

| **Scientific Name** | *Cyprogenia stegaria* | **Critical Habitat** | N/A |
|---|---|---|---|

**Habitat**[1]

| Shoreline (beach/land) | Ports, Canals, Industrial Areas | Rivers and Streams | Bays and Estuaries | Ponds and Lakes | Wetlands | Upland Areas |
|---|---|---|---|---|---|---|
| No | Yes | Yes | No | Yes | No | No |

**States Relevant**

| IL | IN | MI | MN | OH | WI |
|---|---|---|---|---|---|
| X | X | | | X | |

**High-Risk Response Actions and Activities**

May affect, not likely to adversely affect due to insignificant or discountable effects

All Habitats of Occurrence

Waste Handling

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

Ports, Canals, Industrial Areas

- Booming
- Skimming
- Vacuuming
- Sorbents
- Flushing
- Steam Cleaning
- Sandblasting
- Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation
- Detection of non-floating or submerged oil
- Recovery of non-floating or submerged oil
- Containment of non-floating or submerged oil
- Deployment of buoys
- Temporary Storage (on water)

May affect, likely to adversely affect – discuss possible BMPs to minimize impact

Rivers and Streams

- Booming
- Dikes or Berms
- Construction barriers, dams, pits, and trenches
- Culvert blocking
- Skimming
- Vacuuming
- Sorbents
- Flooding
- Flushing
- Steam Cleaning
- Sandblasting
- Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation
- Detection of non-floating or submerged oil
- Recovery of non-floating or submerged oil
- Containment of non-floating or submerged oil
- Use of Vessels
- Use of Vehicles
- Deployment of buoys
- Temporary Storage (on water)

Ponds and Lakes

- Booming
- Dikes or Berms
- Construction barriers, dams, pits, and trenches
- Culvert blocking
- Skimming
- Vacuuming
- Sorbents
- Flooding
- Flushing
- Steam Cleaning
- Sandblasting
- Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation
- Detection of non-floating or submerged oil
- Recovery of non-floating or submerged oil
- Containment of non-floating or submerged oil
- Use of Vessels
- Use of Vehicles
- Deployment of buoys
- Temporary Storage (on water)

Special considerations needed, high level of concern

All Habitats of Occurrence

| |
|---|
| Natural attenuation: allow habitat to recover naturally while monitoring<br>Locating, sampling, and monitoring: air, land, water (includes SCAT) |
| **BMPs** |
| 1. A wildlife monitoring plan<br>2. Buffer zones with the concurrence of USFWS.<br>3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.<br>4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats. |
| USFWS Lead Office Contact: |

| **Fat Pocketbook** | **Status** | **Endangered (1976)** | 41 FR 24062 |
|---|---|---|---|

| **Scientific Name** | *Potamilus capax* | **Critical Habitat** | N/A |
|---|---|---|---|

**Habitat**[1]

| Shoreline (beach/land) | Ports, Canals, Industrial Areas | Rivers and Streams | Bays and Estuaries | Ponds and Lakes | Wetlands | Upland Areas |
|---|---|---|---|---|---|---|
| No | Yes | Yes | No | Yes | No | No |

**States Relevant**

| IL | IN | MI | MN | OH | WI |
|---|---|---|---|---|---|
| X | X | | | | |

**High-Risk Response Actions and Activities**

May affect, not likely to adversely affect due to insignificant or discountable effects

All Habitats of Occurrence

Waste Handling

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

Ports, Canals, Industrial Areas

- Booming
- Skimming
- Vacuuming
- Sorbents
- Flushing
- Steam Cleaning
- Sandblasting
- Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation
- Detection of non-floating or submerged oil
- Recovery of non-floating or submerged oil
- Containment of non-floating or submerged oil
- Deployment of buoys
- Temporary Storage (on water)

May affect, likely to adversely affect – discuss possible BMPs to minimize impact

Rivers and Streams

- Booming
- Dikes or Berms
- Construction barriers, dams, pits, and trenches
- Culvert blocking
- Skimming
- Vacuuming
- Sorbents
- Flooding
- Flushing
- Steam Cleaning
- Sandblasting
- Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation
- Detection of non-floating or submerged oil
- Recovery of non-floating or submerged oil
- Containment of non-floating or submerged oil
- Use of Vessels
- Use of Vehicles
- Deployment of buoys
- Temporary Storage (on water)

Ponds and Lakes

- Booming
- Dikes or Berms
- Construction barriers, dams, pits, and trenches
- Culvert blocking
- Skimming
- Vacuuming
- Sorbents
- Flooding
- Flushing
- Steam Cleaning
- Sandblasting
- Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation
- Detection of non-floating or submerged oil
- Recovery of non-floating or submerged oil
- Containment of non-floating or submerged oil
- Use of Vessels
- Use of Vehicles
- Deployment of buoys
- Temporary Storage (on water)

Special considerations needed, high level of concern

All Habitats of Occurrence

| |
|---|
| Natural attenuation: allow habitat to recover naturally while monitoring<br>Locating, sampling, and monitoring: air, land, water (includes SCAT) |
| **BMPs** |
| 1. A wildlife monitoring plan<br>2. Buffer zones with the concurrence of USFWS.<br>3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.<br>4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats. |
| USFWS Lead Office Contact: |

| **Higgins Eye Pearlymussel** | **Status** | **Endangered (1976)** | 41 FR 24062 |
|---|---|---|---|

| **Scientific Name** | *Lampsilis higginsii* | **Critical Habitat** | N/A |
|---|---|---|---|

**Habitat**[1]

| Shoreline (beach/land) | Ports, Canals, Industrial Areas | Rivers and Streams | Bays and Estuaries | Ponds and Lakes | Wetlands | Upland Areas |
|---|---|---|---|---|---|---|
| No | Yes | Yes | No | Yes | No | No |

**States Relevant**

| IL | IN | MI | MN | OH | WI |
|---|---|---|---|---|---|
| X | | | X | | X |

**High-Risk Response Actions and Activities**

May affect, not likely to adversely affect due to insignificant or discountable effects

All Habitats of Occurrence

Waste Handling

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

Ports, Canals, Industrial Areas

- Booming
- Skimming
- Vacuuming
- Sorbents
- Flushing
- Steam Cleaning
- Sandblasting
- Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation
- Detection of non-floating or submerged oil
- Recovery of non-floating or submerged oil
- Containment of non-floating or submerged oil
- Deployment of buoys
- Temporary Storage (on water)

May affect, likely to adversely affect – discuss possible BMPs to minimize impact

Rivers and Streams

- Booming
- Dikes or Berms
- Construction barriers, dams, pits, and trenches
- Culvert blocking
- Skimming
- Vacuuming
- Sorbents
- Flooding
- Flushing
- Steam Cleaning
- Sandblasting
- Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation
- Detection of non-floating or submerged oil
- Recovery of non-floating or submerged oil
- Containment of non-floating or submerged oil
- Use of Vessels
- Use of Vehicles
- Deployment of buoys
- Temporary Storage (on water)

Ponds and Lakes

- Booming
- Dikes or Berms
- Construction barriers, dams, pits, and trenches
- Culvert blocking
- Skimming
- Vacuuming
- Sorbents
- Flooding
- Flushing
- Steam Cleaning
- Sandblasting
- Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation
- Detection of non-floating or submerged oil
- Recovery of non-floating or submerged oil
- Containment of non-floating or submerged oil
- Use of Vessels
- Use of Vehicles
- Deployment of buoys
- Temporary Storage (on water)

Special considerations needed, high level of concern

All Habitats of Occurrence

| |
|---|
| Natural attenuation: allow habitat to recover naturally while monitoring<br>Locating, sampling, and monitoring: air, land, water (includes SCAT) |
| **BMPs** |
| 1. A wildlife monitoring plan<br>2. Buffer zones with the concurrence of USFWS.<br>3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.<br>4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats. |
| USFWS Lead Office Contact: |

| **Longsolid** | **Status** | **Petitioned (2021)** | Unlisted |
|---|---|---|---|

| **Scientific Name** | *Fusconaia subrotunda* | **Critical Habitat** | N/A |
|---|---|---|---|

**Habitat**[1]

| Shoreline (beach/land) | Ports, Canals, Industrial Areas | Rivers and Streams | Bays and Estuaries | Ponds and Lakes | Wetlands | Upland Areas |
|---|---|---|---|---|---|---|
| No | Yes | Yes | No | Yes | No | No |

**States Relevant**

| IL | IN | MI | MN | OH | WI |
|---|---|---|---|---|---|
| X | X | | | X | |

**High-Risk Response Actions and Activities**

May affect, not likely to adversely affect due to insignificant or discountable effects

All Habitats of Occurrence

Waste Handling

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

Ports, Canals, Industrial Areas

- Booming
- Skimming
- Vacuuming
- Sorbents
- Flushing
- Steam Cleaning
- Sandblasting
- Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation
- Detection of non-floating or submerged oil
- Recovery of non-floating or submerged oil
- Containment of non-floating or submerged oil
- Deployment of buoys
- Temporary Storage (on water)

May affect, likely to adversely affect – discuss possible BMPs to minimize impact

Rivers and Streams

- Booming
- Dikes or Berms
- Construction barriers, dams, pits, and trenches
- Culvert blocking
- Skimming
- Vacuuming
- Sorbents
- Flooding
- Flushing
- Steam Cleaning
- Sandblasting
- Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation
- Detection of non-floating or submerged oil
- Recovery of non-floating or submerged oil
- Containment of non-floating or submerged oil
- Use of Vessels
- Use of Vehicles
- Deployment of buoys
- Temporary Storage (on water)

Ponds and Lakes

- Booming
- Dikes or Berms
- Construction barriers, dams, pits, and trenches
- Culvert blocking
- Skimming
- Vacuuming
- Sorbents
- Flooding
- Flushing
- Steam Cleaning
- Sandblasting
- Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation
- Detection of non-floating or submerged oil
- Recovery of non-floating or submerged oil
- Containment of non-floating or submerged oil
- Use of Vessels
- Use of Vehicles
- Deployment of buoys
- Temporary Storage (on water)

Special considerations needed, high level of concern

All Habitats of Occurrence

| |
|---|
| Natural attenuation: allow habitat to recover while monitoring naturally<br>Locating, sampling, and monitoring: air, land, water (includes SCAT) |
| **BMPs** |
| 1. A wildlife monitoring plan<br>2. Buffer zones with the concurrence of USFWS.<br>3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.<br>4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats. |
| USFWS Lead Office Contact: |

| **Northern Riffleshell** | **Status** | **Endangered (1993)** | 58 FR 5638 |
|---|---|---|---|

| **Scientific Name** | *Pleurobema clava* | **Critical Habitat** | N/A |
|---|---|---|---|

**Habitat**[1]

| Shoreline (beach/land) | Ports, Canals, Industrial Areas | Rivers and Streams | Bays and Estuaries | Ponds and Lakes | Wetlands | Upland Areas |
|---|---|---|---|---|---|---|
| No | Yes | Yes | Yes | Yes | No | No |

**States Relevant**

| IL | IN | MI | MN | OH | WI |
|---|---|---|---|---|---|
| X | X | X | | X | |

**High-Risk Response Actions and Activities**

May affect, not likely to adversely affect due to insignificant or discountable effects

All Habitats of Occurrence

Waste Handling

May affect, likely to adversely affect – discuss possible BMPs to minimize impact

| Ports, Canals, Industrial Areas | Rivers and Streams | Bays and Estuaries | Ponds and Lakes |
|---|---|---|---|
| • Booming<br>• Skimming<br>• Vacuuming<br>• Sorbents<br>• Flushing<br>• Steam Cleaning<br>• Sandblasting<br>• Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation<br>• Detection of non-floating or submerged oil<br>• Recovery of non-floating or submerged oil<br>• Containment of non-floating or submerged oil<br>• Deployment of buoys<br>• Temporary Storage (on water) | • Booming<br>• Dikes or Berms<br>• Construction barriers, dams, pits, and trenches<br>• Culvert blocking<br>• Skimming<br>• Vacuuming<br>• Sorbents<br>• Flooding<br>• Flushing<br>• Steam Cleaning<br>• Sandblasting<br>• Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation<br>• Detection of non-floating or submerged oil<br>• Recovery of non-floating or submerged oil<br>• Containment of non-floating or submerged oil<br>• Use of Vessels<br>• Use of Vehicles<br>• Deployment of buoys<br>• Temporary Storage (on water) | • Booming<br>• Dikes or Berms<br>• Construction barriers, dams, pits, and trenches<br>• Skimming<br>• Vacuuming<br>• Sorbents<br>• Flooding<br>• Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation<br>• Detection of non-floating or submerged oil<br>• Recovery of non-floating or submerged oil<br>• Containment of non-floating or submerged oil<br>• Deployment of buoys | • Booming<br>• Dikes or Berms<br>• Construction barriers, dams, pits, and trenches<br>• Culvert blocking<br>• Skimming<br>• Vacuuming<br>• Sorbents<br>• Flooding<br>• Flushing<br>• Steam Cleaning<br>• Sandblasting<br>• Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation<br>• Detection of non-floating or submerged oil<br>• Recovery of non-floating or submerged oil<br>• Containment of non-floating or submerged oil<br>• Use of Vessels<br>• Use of Vehicles<br>• Deployment of buoys<br>• Temporary Storage (on water) |

Special considerations needed, high level of concern

All Habitats of Occurrence

Natural attenuation: allow habitat to recover naturally while monitoring
Locating, sampling, and monitoring: air, land, water (includes SCAT)

**BMPs**

1. A wildlife monitoring plan
2. Buffer zones with the concurrence of USFWS.
3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.
4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

USFWS Lead Office Contact:

| **Orangefoot Pimpleback** | **Status** | **Endangered (1976)** | 41 FR 24062 |
|---|---|---|---|

| **Scientific Name** | *Plethobasus cooperianus* | **Critical Habitat** | N/A |
|---|---|---|---|

**Habitat**[1]

| Shoreline (beach/land) | Ports, Canals, Industrial Areas | Rivers and Streams | Bays and Estuaries | Ponds and Lakes | Wetlands | Upland Areas |
|---|---|---|---|---|---|---|
| No | Yes | Yes | No | Yes | No | No |

**States Relevant**

| IL | IN | MI | MN | OH | WI |
|---|---|---|---|---|---|
| X | | | | | |

**High-Risk Response Actions and Activities**

May affect, not likely to adversely affect due to insignificant or discountable effects

All Habitats of Occurrence

Waste Handling

May affect, likely to adversely affect – discuss possible BMPs to minimize impact

| Ports, Canals, Industrial Areas | Rivers and Streams | Ponds and Lakes |
|---|---|---|
| • Booming<br>• Skimming<br>• Vacuuming<br>• Sorbents<br>• Flushing<br>• Steam Cleaning<br>• Sandblasting<br>• Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation<br>• Detection of non-floating or submerged oil<br>• Recovery of non-floating or submerged oil<br>• Containment of non-floating or submerged oil<br>• Deployment of buoys<br>• Temporary Storage (on water) | • Booming<br>• Dikes or Berms<br>• Construction barriers, dams, pits, and trenches<br>• Culvert blocking<br>• Skimming<br>• Vacuuming<br>• Sorbents<br>• Flooding<br>• Flushing<br>• Steam Cleaning<br>• Sandblasting<br>• Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation<br>• Detection of non-floating or submerged oil<br>• Recovery of non-floating or submerged oil<br>• Containment of non-floating or submerged oil<br>• Use of Vessels<br>• Use of Vehicles<br>• Deployment of buoys | • Booming<br>• Dikes or Berms<br>• Construction barriers, dams, pits, and trenches<br>• Culvert blocking<br>• Skimming<br>• Vacuuming<br>• Sorbents<br>• Flooding<br>• Flushing<br>• Steam Cleaning<br>• Sandblasting<br>• Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation<br>• Detection of non-floating or submerged oil<br>• Recovery of non-floating or submerged oil<br>• Containment of non-floating or submerged oil<br>• Use of Vessels<br>• Use of Vehicles<br>• Deployment of buoys<br>• Temporary Storage (on water) |

Special considerations needed, high level of concern

All Habitats of Occurrence

Natural attenuation: allow habitat to recover naturally while monitoring
Locating, sampling, and monitoring: air, land, water (includes SCAT)

**BMPs**

1. A wildlife monitoring plan
2. Buffer zones with the concurrence of USFWS.
3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.
4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

USFWS Lead Office Contact:

| **Pink Mucket** | **Status** | **Endangered (1976)** | 41 FR 24062 |
|---|---|---|---|

| **Scientific Name** | *Lampsilis abrupta* | **Critical Habitat** | N/A |
|---|---|---|---|

**Habitat**[1]

| Shoreline (beach/land) | Ports, Canals, Industrial Areas | Rivers and Streams | Bays and Estuaries | Ponds and Lakes | Wetlands | Upland Areas |
|---|---|---|---|---|---|---|
| No | Yes | Yes | No | Yes | No | No |

**States Relevant**

| IL | IN | MI | MN | OH | WI |
|---|---|---|---|---|---|
| X | X | | | X | |

**High-Risk Response Actions and Activities**

May affect, not likely to adversely affect due to insignificant or discountable effects

All Habitats of Occurrence

Waste Handling

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

Ports, Canals, Industrial Areas

- Booming
- Skimming
- Vacuuming
- Sorbents
- Flushing
- Steam Cleaning
- Sandblasting
- Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation
- Detection of non-floating or submerged oil
- Recovery of non-floating or submerged oil
- Containment of non-floating or submerged oil
- Deployment of buoys
- Temporary Storage (on water)

May affect, likely to adversely affect – discuss possible BMPs to minimize impact

Rivers and Streams

- Booming
- Dikes or Berms
- Construction barriers, dams, pits, and trenches
- Culvert blocking
- Skimming
- Vacuuming
- Sorbents
- Flooding
- Flushing
- Steam Cleaning
- Sandblasting
- Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation
- Detection of non-floating or submerged oil
- Recovery of non-floating or submerged oil
- Containment of non-floating or submerged oil
- Use of Vessels
- Use of Vehicles
- Deployment of buoys
- Temporary Storage (on water)

Ponds and Lakes

- Booming
- Dikes or Berms
- Construction barriers, dams, pits, and trenches
- Culvert blocking
- Skimming
- Vacuuming
- Sorbents
- Flooding
- Flushing
- Steam Cleaning
- Sandblasting
- Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation
- Detection of non-floating or submerged oil
- Recovery of non-floating or submerged oil
- Containment of non-floating or submerged oil
- Use of Vessels
- Use of Vehicles
- Deployment of buoys
- Temporary Storage (on water)

Special considerations needed, high level of concern

All Habitats of Occurrence

| |
|---|
| Natural attenuation: allow habitat to recover while monitoring naturally<br>Locating, sampling, and monitoring: air, land, water (includes SCAT) |
| **BMPs** |
| 1. A wildlife monitoring plan<br>2. Buffer zones with the concurrence of USFWS.<br>3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.<br>4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats. |
| USFWS Lead Office Contact: |

| **Purple Cat's Paw Pearlymussel** | **Status** | **Endangered (1990)** | 55 FR 28209 |
|---|---|---|---|

| **Scientific Name** | *Epioblasma obliquata obliquata* | **Critical Habitat** | N/A |
|---|---|---|---|

**Habitat**[1]

| Shoreline (beach/land) | Ports, Canals, Industrial Areas | Rivers and Streams | Bays and Estuaries | Ponds and Lakes | Wetlands | Upland Areas |
|---|---|---|---|---|---|---|
| No | No | Yes | No | Yes | No | No |

**States Relevant**

| IL | IN | MI | MN | OH | WI |
|---|---|---|---|---|---|
| | | | | X | |

**High-Risk Response Actions and Activities**

May affect, not likely to adversely affect due to insignificant or discountable effects

All Habitats of Occurrence

Waste Handling

May affect, likely to adversely affect – discuss possible BMPs to minimize impact

| Rivers and Streams | Ponds and Lakes |
|---|---|
| • Booming<br>• Dikes or Berms<br>• Construction barriers, dams, pits, and trenches<br>• Culvert blocking<br>• Skimming<br>• Vacuuming<br>• Sorbents<br>• Flooding<br>• Flushing<br>• Steam Cleaning<br>• Sandblasting<br>• Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation<br>• Detection of non-floating or submerged oil<br>• Recovery of non-floating or submerged oil<br>• Containment of non-floating or submerged oil<br>• Use of Vessels<br>• Use of Vehicles<br>• Deployment of buoys<br>• Temporary Storage (on water) | • Booming<br>• Dikes or Berms<br>• Construction barriers, dams, pits, and trenches<br>• Culvert blocking<br>• Skimming<br>• Vacuuming<br>• Sorbents<br>• Flooding<br>• Flushing<br>• Steam Cleaning<br>• Sandblasting<br>• Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation<br>• Detection of non-floating or submerged oil<br>• Recovery of non-floating or submerged oil<br>• Containment of non-floating or submerged oil<br>• Use of Vessels<br>• Use of Vehicles<br>• Deployment of buoys<br>• Temporary Storage (on water) |

Special considerations needed, high level of concern

All Habitats of Occurrence

Natural attenuation: allow habitat to recover naturally while monitoring
Locating, sampling, and monitoring: air, land, water (includes SCAT)

**BMPs**

1. A wildlife monitoring plan
2. Buffer zones with the concurrence of USFWS.
3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.
4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

USFWS Lead Office Contact:

| **Pyramid Pigtoe** | **Status** | **Unlisted** | Unlisted |
|---|---|---|---|

| **Scientific Name** | *Pleurobema rubrum* | **Critical Habitat** | N/A |
|---|---|---|---|

**Habitat**[1]

| Shoreline (beach/land) | Ports, Canals, Industrial Areas | Rivers and Streams | Bays and Estuaries | Ponds and Lakes | Wetlands | Upland Areas |
|---|---|---|---|---|---|---|
| No | Yes | Yes | No | Yes | No | No |

**States Relevant**

| IL | IN | MI | MN | OH | WI |
|---|---|---|---|---|---|
| | | | | X | |

**High-Risk Response Actions and Activities**

May affect, not likely to adversely affect due to insignificant or discountable effects

All Habitats of Occurrence

Waste Handling

May affect, likely to adversely affect – discuss possible BMPs to minimize impact

| Ports, Canals, Industrial Areas | Rivers and Streams | Ponds and Lakes |
|---|---|---|
| • Booming<br>• Skimming<br>• Vacuuming<br>• Sorbents<br>• Flushing<br>• Steam Cleaning<br>• Sandblasting<br>• Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation<br>• Detection of non-floating or submerged oil<br>• Recovery of non-floating or submerged oil<br>• Containment of non-floating or submerged oil<br>• Deployment of buoys<br>• Temporary Storage (on water) | • Booming<br>• Dikes or Berms<br>• Construction barriers, dams, pits, and trenches<br>• Culvert blocking<br>• Skimming<br>• Vacuuming<br>• Sorbents<br>• Flooding<br>• Flushing<br>• Steam Cleaning<br>• Sandblasting<br>• Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation<br>• Detection of non-floating or submerged oil<br>• Recovery of non-floating or submerged oil<br>• Containment of non-floating or submerged oil<br>• Use of Vessels<br>• Use of Vehicles<br>• Deployment of buoys | • Booming<br>• Dikes or Berms<br>• Construction barriers, dams, pits, and trenches<br>• Culvert blocking<br>• Skimming<br>• Vacuuming<br>• Sorbents<br>• Flooding<br>• Flushing<br>• Steam Cleaning<br>• Sandblasting<br>• Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation<br>• Detection of non-floating or submerged oil<br>• Recovery of non-floating or submerged oil<br>• Containment of non-floating or submerged oil<br>• Use of Vessels<br>• Use of Vehicles<br>• Deployment of buoys<br>• Temporary Storage (on water) |

Special considerations needed, high level of concern

All Habitats of Occurrence

Natural attenuation: allow habitat to recover naturally while monitoring
Locating, sampling, and monitoring: air, land, water (includes SCAT)

**BMPs**

1. A wildlife monitoring plan
2. Buffer zones with the concurrence of USFWS.
3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.
4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

USFWS Lead Office Contact:

| **Rabbitsfoot** | **Status** | **Threatened (2013)** | 78 FR 57076 |
|---|---|---|---|

| **Scientific Name** | *Quadrula cylindrica cylindrica* | **Critical Habitat** | Designated |
|---|---|---|---|

**Habitat**[1]

| Shoreline (beach/land) | Ports, Canals, Industrial Areas | Rivers and Streams | Bays and Estuaries | Ponds and Lakes | Wetlands | Upland Areas |
|---|---|---|---|---|---|---|
| No | Yes | Yes | No | Yes | No | No |

**States Relevant**

| IL | IN | MI | MN | OH | WI |
|---|---|---|---|---|---|
| X | X | | | X | |

**High-Risk Response Actions and Activities**

May affect, not likely to adversely affect due to insignificant or discountable effects

All Habitats of Occurrence

Waste Handling

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

Ports, Canals, Industrial Areas

- Booming
- Skimming
- Vacuuming
- Sorbents
- Flushing
- Steam Cleaning
- Sandblasting
- Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation
- Detection of non-floating or submerged oil
- Recovery of non-floating or submerged oil
- Containment of non-floating or submerged oil
- Deployment of buoys
- Temporary Storage (on water)

May affect, likely to adversely affect – discuss possible BMPs to minimize impact

Rivers and Streams

- Booming
- Dikes or Berms
- Construction barriers, dams, pits, and trenches
- Culvert blocking
- Skimming
- Vacuuming
- Sorbents
- Flooding
- Flushing
- Steam Cleaning
- Sandblasting
- Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation
- Detection of non-floating or submerged oil
- Recovery of non-floating or submerged oil
- Containment of non-floating or submerged oil
- Use of Vessels
- Use of Vehicles
- Deployment of buoys
- Temporary Storage (on water)

Ponds and Lakes

- Booming
- Dikes or Berms
- Construction barriers, dams, pits, and trenches
- Culvert blocking
- Skimming
- Vacuuming
- Sorbents
- Flooding
- Flushing
- Steam Cleaning
- Sandblasting
- Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation
- Detection of non-floating or submerged oil
- Recovery of non-floating or submerged oil
- Containment of non-floating or submerged oil
- Use of Vessels
- Use of Vehicles
- Deployment of buoys
- Temporary Storage (on water)

Special considerations needed, high level of concern

All Habitats of Occurrence

| |
|---|
| Natural attenuation: allow habitat to recover while monitoring naturally<br>Locating, sampling, and monitoring: air, land, water (includes SCAT) |
| **BMPs** |
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| USFWS Lead Office Contact: |

| **Rayed Bean** | **Status** | **Endangered (2012)** | 77 FR 8632 |
|---|---|---|---|

| **Scientific Name** | *Villosa fabalis* | **Critical Habitat** | N/A |
|---|---|---|---|

**Habitat**[1]

| Shoreline (beach/land) | Ports, Canals, Industrial Areas | Rivers and Streams | Bays and Estuaries | Ponds and Lakes | Wetlands | Upland Areas |
|---|---|---|---|---|---|---|
| No | Yes | Yes | Yes | Yes | No | No |

**States Relevant**

| IL | IN | MI | MN | OH | WI |
|---|---|---|---|---|---|
| | X | X | | X | |

**High-Risk Response Actions and Activities**

May affect, not likely to adversely affect due to insignificant or discountable effects

All Habitats of Occurrence

Waste Handling

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

| Ports, Canals, Industrial Areas | Bays and Estuaries |
|---|---|
| • Booming<br>• Skimming<br>• Vacuuming<br>• Sorbents<br>• Flushing<br>• Steam Cleaning<br>• Sandblasting<br>• Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation<br>• Detection of non-floating or submerged oil<br>• Recovery of non-floating or submerged oil<br>• Containment of non-floating or submerged oil<br>• Deployment of buoys<br>• Temporary Storage (on water) | • Booming<br>• Dikes or Berms<br>• Construction barriers, dams, pits, and trenches<br>• Skimming<br>• Vacuuming<br>• Sorbents<br>• Flooding<br>• Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation<br>• Detection of non-floating or submerged oil<br>• Recovery of non-floating or submerged oil<br>• Containment of non-floating or submerged oil<br>• Deployment of buoys |

May affect, likely to adversely affect – discuss possible BMPs to minimize impact

| Rivers and Streams | Ponds and Lakes |
|---|---|
| • Booming<br>• Dikes or Berms<br>• Construction barriers, dams, pits, and trenches<br>• Culvert blocking<br>• Skimming<br>• Vacuuming<br>• Sorbents<br>• Flooding<br>• Flushing<br>• Steam Cleaning<br>• Sandblasting<br>• Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation<br>• Detection of non-floating or submerged oil<br>• Recovery of non-floating or submerged oil<br>• Containment of non-floating or submerged oil<br>• Use of Vessels<br>• Use of Vehicles<br>• Deployment of buoys<br>• Temporary Storage (on water) | • Booming<br>• Dikes or Berms<br>• Construction barriers, dams, pits, and trenches<br>• Culvert blocking<br>• Skimming<br>• Vacuuming<br>• Sorbents<br>• Flooding<br>• Flushing<br>• Steam Cleaning<br>• Sandblasting<br>• Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation<br>• Detection of non-floating or submerged oil<br>• Recovery of non-floating or submerged oil<br>• Containment of non-floating or submerged oil<br>• Use of Vessels<br>• Use of Vehicles<br>• Deployment of buoys<br>• Temporary Storage (on water) |

Special considerations needed, high level of concern

All Habitats of Occurrence

| |
|---|
| Natural attenuation: allow habitat to recover while monitoring naturally<br>Locating, sampling, and monitoring: air, land, water (includes SCAT) |
| **BMPs** |
| 1. A wildlife monitoring plan<br>2. Buffer zones with the concurrence of USFWS.<br>3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.<br>4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats. |
| USFWS Lead Office Contact: |

| **Rough Pigtoe** | **Status** | **Endangered (1976)** | 41 FR 24062 |
|---|---|---|---|

| **Scientific Name** | *Pleurobema plenum* | **Critical Habitat** | N/A |
|---|---|---|---|

**Habitat**[1]

| Shoreline (beach/land) | Ports, Canals, Industrial Areas | Rivers and Streams | Bays and Estuaries | Ponds and Lakes | Wetlands | Upland Areas |
|---|---|---|---|---|---|---|
| No | Yes | Yes | No | Yes | No | No |

**States Relevant**

| IL | IN | MI | MN | OH | WI |
|---|---|---|---|---|---|
| | X | | | | |

**High-Risk Response Actions and Activities**

May affect, not likely to adversely affect due to insignificant or discountable effects

All Habitats of Occurrence

Waste Handling

May affect, likely to adversely affect – discuss possible BMPs to minimize impact

| Ports, Canals, Industrial Areas | Rivers and Streams | Ponds and Lakes |
|---|---|---|
| • Booming<br>• Skimming<br>• Vacuuming<br>• Sorbents<br>• Flushing<br>• Steam Cleaning<br>• Sandblasting<br>• Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation<br>• Detection of non-floating or submerged oil<br>• Recovery of non-floating or submerged oil<br>• Containment of non-floating or submerged oil<br>• Deployment of buoys<br>• Temporary Storage (on water) | • Booming<br>• Dikes or Berms<br>• Construction barriers, dams, pits, and trenches<br>• Culvert blocking<br>• Skimming<br>• Vacuuming<br>• Sorbents<br>• Flooding<br>• Flushing<br>• Steam Cleaning<br>• Sandblasting<br>• Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation<br>• Detection of non-floating or submerged oil<br>• Recovery of non-floating or submerged oil<br>• Containment of non-floating or submerged oil<br>• Use of Vessels<br>• Use of Vehicles<br>• Deployment of buoys | • Booming<br>• Dikes or Berms<br>• Construction barriers, dams, pits, and trenches<br>• Culvert blocking<br>• Skimming<br>• Vacuuming<br>• Sorbents<br>• Flooding<br>• Flushing<br>• Steam Cleaning<br>• Sandblasting<br>• Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation<br>• Detection of non-floating or submerged oil<br>• Recovery of non-floating or submerged oil<br>• Containment of non-floating or submerged oil<br>• Use of Vessels<br>• Use of Vehicles<br>• Deployment of buoys<br>• Temporary Storage (on water) |

Special considerations needed, high level of concern

All Habitats of Occurrence

Natural attenuation: allow habitat to recover naturally while monitoring
Locating, sampling, and monitoring: air, land, water (includes SCAT)

**BMPs**

1. A wildlife monitoring plan
2. Buffer zones with the concurrence of USFWS.
3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.
4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

USFWS Lead Office Contact:

| **Round Hickorynut** | **Status** | **Petitioned (2021)** | Unlisted |
|---|---|---|---|

| **Scientific Name** | *Obovaria subrotunda* | **Critical Habitat** | N/A |
|---|---|---|---|

**Habitat**[1]

| Shoreline (beach/land) | Ports, Canals, Industrial Areas | Rivers and Streams | Bays and Estuaries | Ponds and Lakes | Wetlands | Upland Areas |
|---|---|---|---|---|---|---|
| No | Yes | Yes | Yes | Yes | No | No |

**States Relevant**

| IL | IN | MI | MN | OH | WI |
|---|---|---|---|---|---|
| X | X | X | | X | |

**High-Risk Response Actions and Activities**

May affect, not likely to adversely affect due to insignificant or discountable effects

All Habitats of Occurrence

Waste Handling

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

| Ports, Canals, Industrial Areas | Bays and Estuaries |
|---|---|
| • Booming<br>• Skimming<br>• Vacuuming<br>• Sorbents<br>• Flushing<br>• Steam Cleaning<br>• Sandblasting<br>• Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation<br>• Detection of non-floating or submerged oil<br>• Recovery of non-floating or submerged oil<br>• Containment of non-floating or submerged oil<br>• Deployment of buoys<br>• Temporary Storage (on water) | • Booming<br>• Dikes or Berms<br>• Construction barriers, dams, pits, and trenches<br>• Skimming<br>• Vacuuming<br>• Sorbents<br>• Flooding<br>• Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation<br>• Detection of non-floating or submerged oil<br>• Recovery of non-floating or submerged oil<br>• Containment of non-floating or submerged oil<br>• Deployment of buoys |

May affect, likely to adversely affect – discuss possible BMPs to minimize impact

| Rivers and Streams | Ponds and Lakes |
|---|---|
| • Booming<br>• Dikes or Berms<br>• Construction barriers, dams, pits, and trenches<br>• Culvert blocking<br>• Skimming<br>• Vacuuming<br>• Sorbents<br>• Flooding<br>• Flushing<br>• Steam Cleaning<br>• Sandblasting<br>• Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation<br>• Detection of non-floating or submerged oil<br>• Recovery of non-floating or submerged oil<br>• Containment of non-floating or submerged oil<br>• Use of Vessels<br>• Use of Vehicles<br>• Deployment of buoys<br>• Temporary Storage (on water) | • Booming<br>• Dikes or Berms<br>• Construction barriers, dams, pits, and trenches<br>• Culvert blocking<br>• Skimming<br>• Vacuuming<br>• Sorbents<br>• Flooding<br>• Flushing<br>• Steam Cleaning<br>• Sandblasting<br>• Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation<br>• Detection of non-floating or submerged oil<br>• Recovery of non-floating or submerged oil<br>• Containment of non-floating or submerged oil<br>• Use of Vessels<br>• Use of Vehicles<br>• Deployment of buoys<br>• Temporary Storage (on water) |

Special considerations needed, high level of concern

All Habitats of Occurrence

| |
|---|
| Natural attenuation: allow habitat to recover naturally while monitoring<br>Locating, sampling, and monitoring: air, land, water (includes SCAT) |
| **BMPs** |
| 1. A wildlife monitoring plan<br>2. Buffer zones with the concurrence of USFWS.<br>3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.<br>4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats. |
| USFWS Lead Office Contact: |

| **Salamander Mussel** | **Status** | **Under Review** | Unlisted |
|---|---|---|---|

| **Scientific Name** | *Simpsonaias ambigua* | **Critical Habitat** | N/A |
|---|---|---|---|

**Habitat**[1]

| Shoreline (beach/land) | Ports, Canals, Industrial Areas | Rivers and Streams | Bays and Estuaries | Ponds and Lakes | Wetlands | Upland Areas |
|---|---|---|---|---|---|---|
| No | Yes | Yes | Yes | Yes | No | No |

**States Relevant**

| IL | IN | MI | MN | OH | WI |
|---|---|---|---|---|---|
| X | X | X | X | X | X |

**High-Risk Response Actions and Activities**

May affect, not likely to adversely affect due to insignificant or discountable effects

All Habitats of Occurrence

Waste Handling

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

| Ports, Canals, Industrial Areas | Bays and Estuaries |
|---|---|
| • Booming<br>• Skimming<br>• Vacuuming<br>• Sorbents<br>• Flushing<br>• Steam Cleaning<br>• Sandblasting<br>• Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation<br>• Detection of non-floating or submerged oil<br>• Recovery of non-floating or submerged oil<br>• Containment of non-floating or submerged oil<br>• Deployment of buoys<br>• Temporary Storage (on water) | • Booming<br>• Dikes or Berms<br>• Construction barriers, dams, pits, and trenches<br>• Skimming<br>• Vacuuming<br>• Sorbents<br>• Flooding<br>• Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation<br>• Detection of non-floating or submerged oil<br>• Recovery of non-floating or submerged oil<br>• Containment of non-floating or submerged oil<br>• Deployment of buoys |

May affect, likely to adversely affect – discuss possible BMPs to minimize impact

| Rivers and Streams | Ponds and Lakes |
|---|---|
| • Booming<br>• Dikes or Berms<br>• Construction barriers, dams, pits, and trenches<br>• Culvert blocking<br>• Skimming<br>• Vacuuming<br>• Sorbents<br>• Flooding<br>• Flushing<br>• Steam Cleaning<br>• Sandblasting<br>• Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation<br>• Detection of non-floating or submerged oil<br>• Recovery of non-floating or submerged oil<br>• Containment of non-floating or submerged oil<br>• Use of Vessels<br>• Use of Vehicles<br>• Deployment of buoys<br>• Temporary Storage (on water) | • Booming<br>• Dikes or Berms<br>• Construction barriers, dams, pits, and trenches<br>• Culvert blocking<br>• Skimming<br>• Vacuuming<br>• Sorbents<br>• Flooding<br>• Flushing<br>• Steam Cleaning<br>• Sandblasting<br>• Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation<br>• Detection of non-floating or submerged oil<br>• Recovery of non-floating or submerged oil<br>• Containment of non-floating or submerged oil<br>• Use of Vessels<br>• Use of Vehicles<br>• Deployment of buoys<br>• Temporary Storage (on water) |

Special considerations needed, high level of concern

All Habitats of Occurrence

| |
|---|
| Natural attenuation: allow habitat to recover while monitoring naturally<br>Locating, sampling, and monitoring: air, land, water (includes SCAT) |
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| USFWS Lead Office Contact: |

| **Scaleshell** | **Status** | **Endangered (2001)** | 66 FR 51322 |
|---|---|---|---|

| **Scientific Name** | *Leptodea leptodon* | **Critical Habitat** | N/A |
|---|---|---|---|

**Habitat**[1]

| Shoreline (beach/land) | Ports, Canals, Industrial Areas | Rivers and Streams | Bays and Estuaries | Ponds and Lakes | Wetlands | Upland Areas |
|---|---|---|---|---|---|---|
| No | Yes | Yes | No | Yes | No | No |

**States Relevant**

| IL | IN | MI | MN | OH | WI |
|---|---|---|---|---|---|
| X | | | | | |

**High-Risk Response Actions and Activities**

May affect, not likely to adversely affect due to insignificant or discountable effects

All Habitats of Occurrence

Waste Handling

May affect, likely to adversely affect – discuss possible BMPs to minimize impact

| Ports, Canals, Industrial Areas | Rivers and Streams | Ponds and Lakes |
|---|---|---|
| • Booming<br>• Skimming<br>• Vacuuming<br>• Sorbents<br>• Flushing<br>• Steam Cleaning<br>• Sandblasting<br>• Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation<br>• Detection of non-floating or submerged oil<br>• Recovery of non-floating or submerged oil<br>• Containment of non-floating or submerged oil<br>• Deployment of buoys<br>• Temporary Storage (on water) | • Booming<br>• Dikes or Berms<br>• Construction barriers, dams, pits, and trenches<br>• Culvert blocking<br>• Skimming<br>• Vacuuming<br>• Sorbents<br>• Flooding<br>• Flushing<br>• Steam Cleaning<br>• Sandblasting<br>• Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation<br>• Detection of non-floating or submerged oil<br>• Recovery of non-floating or submerged oil<br>• Containment of non-floating or submerged oil<br>• Use of Vessels<br>• Use of Vehicles<br>• Deployment of buoys | • Booming<br>• Dikes or Berms<br>• Construction barriers, dams, pits, and trenches<br>• Culvert blocking<br>• Skimming<br>• Vacuuming<br>• Sorbents<br>• Flooding<br>• Flushing<br>• Steam Cleaning<br>• Sandblasting<br>• Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation<br>• Detection of non-floating or submerged oil<br>• Recovery of non-floating or submerged oil<br>• Containment of non-floating or submerged oil<br>• Use of Vessels<br>• Use of Vehicles<br>• Deployment of buoys<br>• Temporary Storage (on water) |

Special considerations needed, high level of concern

All Habitats of Occurrence

Natural attenuation: allow habitat to recover while monitoring naturally
Locating, sampling, and monitoring: air, land, water (includes SCAT)

**BMPs**

1. A wildlife monitoring plan
2. Buffer zones with the concurrence of USFWS.
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4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

USFWS Lead Office Contact:

| **Sheepnose** | **Status** | **Endangered (2012)** | 77 FR 14914 |
|---|---|---|---|

| **Scientific Name** | *Plethobasus cyphyus* | **Critical Habitat** | N/A |
|---|---|---|---|

**Habitat**[1]

| Shoreline (beach/land) | Ports, Canals, Industrial Areas | Rivers and Streams | Bays and Estuaries | Ponds and Lakes | Wetlands | Upland Areas |
|---|---|---|---|---|---|---|
| No | Yes | Yes | No | Yes | No | No |

**States Relevant**

| IL | IN | MI | MN | OH | WI |
|---|---|---|---|---|---|
| X | X | | X | X | X |

**High-Risk Response Actions and Activities**

May affect, not likely to adversely affect due to insignificant or discountable effects

All Habitats of Occurrence

Waste Handling

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

Ports, Canals, Industrial Areas

- Booming
- Skimming
- Vacuuming
- Sorbents
- Flushing
- Steam Cleaning
- Sandblasting
- Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation
- Detection of non-floating or submerged oil
- Recovery of non-floating or submerged oil
- Containment of non-floating or submerged oil
- Deployment of buoys
- Temporary Storage (on water)

May affect, likely to adversely affect – discuss possible BMPs to minimize impact

Rivers and Streams

- Booming
- Dikes or Berms
- Construction barriers, dams, pits, and trenches
- Culvert blocking
- Skimming
- Vacuuming
- Sorbents
- Flooding
- Flushing
- Steam Cleaning
- Sandblasting
- Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation
- Detection of non-floating or submerged oil
- Recovery of non-floating or submerged oil
- Containment of non-floating or submerged oil
- Use of Vessels
- Use of Vehicles
- Deployment of buoys
- Temporary Storage (on water)

Ponds and Lakes

- Booming
- Dikes or Berms
- Construction barriers, dams, pits, and trenches
- Culvert blocking
- Skimming
- Vacuuming
- Sorbents
- Flooding
- Flushing
- Steam Cleaning
- Sandblasting
- Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation
- Detection of non-floating or submerged oil
- Recovery of non-floating or submerged oil
- Containment of non-floating or submerged oil
- Use of Vessels
- Use of Vehicles
- Deployment of buoys
- Temporary Storage (on water)

Special considerations needed, high level of concern

All Habitats of Occurrence

| |
|---|
| Natural attenuation: allow habitat to recover naturally while monitoring<br>Locating, sampling, and monitoring: air, land, water (includes SCAT) |
| **BMPs** |
| 1. A wildlife monitoring plan<br>2. Buffer zones with the concurrence of USFWS.<br>3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.<br>4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats. |
| USFWS Lead Office Contact: |

| **Snuffbox** | **Status** | **Endangered (2012)** | 77 FR 8632 |
|---|---|---|---|

| **Scientific Name** | *Epioblasma triquetra* | **Critical Habitat** | N/A |
|---|---|---|---|

**Habitat**[1]

| Shoreline (beach/land) | Ports, Canals, Industrial Areas | Rivers and Streams | Bays and Estuaries | Ponds and Lakes | Wetlands | Upland Areas |
|---|---|---|---|---|---|---|
| No | Yes | Yes | Yes | Yes | No | No |

**States Relevant**

| IL | IN | MI | MN | OH | WI |
|---|---|---|---|---|---|
| X | X | X | | X | X |

**High-Risk Response Actions and Activities**

May affect, not likely to adversely affect due to insignificant or discountable effects

All Habitats of Occurrence

Waste Handling

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

Ports, Canals, Industrial Areas

- Booming
- Skimming
- Vacuuming
- Sorbents
- Flushing
- Steam Cleaning
- Sandblasting
- Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation
- Detection of non-floating or submerged oil
- Recovery of non-floating or submerged oil
- Containment of non-floating or submerged oil
- Deployment of buoys
- Temporary Storage (on water)

Bays and Estuaries

- Booming
- Dikes or Berms
- Construction barriers, dams, pits, and trenches
- Skimming
- Vacuuming
- Sorbents
- Flooding
- Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation
- Detection of non-floating or submerged oil
- Recovery of non-floating or submerged oil
- Containment of non-floating or submerged oil
- Deployment of buoys

May affect, likely to adversely affect – discuss possible BMPs to minimize impact

Rivers and Streams

- Booming
- Dikes or Berms
- Construction barriers, dams, pits, and trenches
- Culvert blocking
- Skimming
- Vacuuming
- Sorbents
- Flooding
- Flushing
- Steam Cleaning
- Sandblasting
- Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation
- Detection of non-floating or submerged oil
- Recovery of non-floating or submerged oil
- Containment of non-floating or submerged oil
- Use of Vessels
- Use of Vehicles
- Deployment of buoys
- Temporary Storage (on water)

Ponds and Lakes

- Booming
- Dikes or Berms
- Construction barriers, dams, pits, and trenches
- Culvert blocking
- Skimming
- Vacuuming
- Sorbents
- Flooding
- Flushing
- Steam Cleaning
- Sandblasting
- Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation
- Detection of non-floating or submerged oil
- Recovery of non-floating or submerged oil
- Containment of non-floating or submerged oil
- Use of Vessels
- Use of Vehicles
- Deployment of buoys
- Temporary Storage (on water)

Special considerations needed, high level of concern

All Habitats of Occurrence

| |
|---|
| Natural attenuation: allow habitat to recover while monitoring naturally<br>Locating, sampling, and monitoring: air, land, water (includes SCAT) |
| **BMPs** |
| 1. A wildlife monitoring plan<br>2. Buffer zones with the concurrence of USFWS.<br>3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.<br>4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats. |
| USFWS Lead Office Contact: |

| **Spectaclecase** | **Status** | **Endangered (2012)** | 77 FR 14914 |
|---|---|---|---|

| **Scientific Name** | *Cumberlandia monodonta* | **Critical Habitat** | N/A |
|---|---|---|---|

**Habitat**[1]

| Shoreline (beach/land) | Ports, Canals, Industrial Areas | Rivers and Streams | Bays and Estuaries | Ponds and Lakes | Wetlands | Upland Areas |
|---|---|---|---|---|---|---|
| No | Yes | Yes | No | Yes | No | No |

**States Relevant**

| IL | IN | MI | MN | OH | WI |
|---|---|---|---|---|---|
| X | | | X | | X |

**High-Risk Response Actions and Activities**

May affect, not likely to adversely affect due to insignificant or discountable effects

All Habitats of Occurrence

Waste Handling

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

Ports, Canals, Industrial Areas

- Booming
- Skimming
- Vacuuming
- Sorbents
- Flushing
- Steam Cleaning
- Sandblasting
- Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation
- Detection of non-floating or submerged oil
- Recovery of non-floating or submerged oil
- Containment of non-floating or submerged oil
- Deployment of buoys
- Temporary Storage (on water)

May affect, likely to adversely affect – discuss possible BMPs to minimize impact

Rivers and Streams

- Booming
- Dikes or Berms
- Construction barriers, dams, pits, and trenches
- Culvert blocking
- Skimming
- Vacuuming
- Sorbents
- Flooding
- Flushing
- Steam Cleaning
- Sandblasting
- Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation
- Detection of non-floating or submerged oil
- Recovery of non-floating or submerged oil
- Containment of non-floating or submerged oil
- Use of Vessels
- Use of Vehicles
- Deployment of buoys
- Temporary Storage (on water)

Ponds and Lakes

- Booming
- Dikes or Berms
- Construction barriers, dams, pits, and trenches
- Culvert blocking
- Skimming
- Vacuuming
- Sorbents
- Flooding
- Flushing
- Steam Cleaning
- Sandblasting
- Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation
- Detection of non-floating or submerged oil
- Recovery of non-floating or submerged oil
- Containment of non-floating or submerged oil
- Use of Vessels
- Use of Vehicles
- Deployment of buoys
- Temporary Storage (on water)

Special considerations needed, high level of concern

All Habitats of Occurrence

| |
|---|
| Natural attenuation: allow habitat to recover naturally while monitoring<br>Locating, sampling, and monitoring: air, land, water (includes SCAT) |
| **BMPs** |
| 1. A wildlife monitoring plan.<br>2. Buffer zones with the concurrence of USFWS.<br>3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.<br>4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats. |
| USFWS Lead Office Contact: |

| **White Catspaw Pearlymussel** | **Status** | **Endangered (1976)** | 41 FR 24062 |
|---|---|---|---|

| **Scientific Name** | *Epioblasma obliquata perobliqua* | **Critical Habitat** | N/A |
|---|---|---|---|

**Habitat**[1]

| Shoreline (beach/land) | Ports, Canals, Industrial Areas | Rivers and Streams | Bays and Estuaries | Ponds and Lakes | Wetlands | Upland Areas |
|---|---|---|---|---|---|---|
| No | No | Yes | No | Yes | No | No |

**States Relevant**

| IL | IN | MI | MN | OH | WI |
|---|---|---|---|---|---|
| | X | | | X | |

**High-Risk Response Actions and Activities**

May affect, not likely to adversely affect due to insignificant or discountable effects

All Habitats of Occurrence

Waste Handling

May affect, likely to adversely affect – discuss possible BMPs to minimize impact

| Rivers and Streams | Ponds and Lakes |
|---|---|
| • Booming<br>• Dikes or Berms<br>• Construction barriers, dams, pits, and trenches<br>• Culvert blocking<br>• Skimming<br>• Vacuuming<br>• Sorbents<br>• Flooding<br>• Flushing<br>• Steam Cleaning<br>• Sandblasting<br>• Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation<br>• Detection of non-floating or submerged oil<br>• Recovery of non-floating or submerged oil<br>• Containment of non-floating or submerged oil<br>• Use of Vessels<br>• Use of Vehicles<br>• Deployment of buoys<br>• Temporary Storage (on water) | • Booming<br>• Dikes or Berms<br>• Construction barriers, dams, pits, and trenches<br>• Culvert blocking<br>• Skimming<br>• Vacuuming<br>• Sorbents<br>• Flooding<br>• Flushing<br>• Steam Cleaning<br>• Sandblasting<br>• Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation<br>• Detection of non-floating or submerged oil<br>• Recovery of non-floating or submerged oil<br>• Containment of non-floating or submerged oil<br>• Use of Vessels<br>• Use of Vehicles<br>• Deployment of buoys<br>• Temporary Storage (on water) |

Special considerations needed, high level of concern

All Habitats of Occurrence

Natural attenuation: allow habitat to recover while monitoring naturally
Locating, sampling, and monitoring: air, land, water (includes SCAT)

**BMPs**

1. A wildlife monitoring plan
2. Buffer zones with the concurrence of USFWS.
3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.
4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

USFWS Lead Office Contact:

| **Winged Mapleleaf** | **Status** | **Endangered (2001)** | 56 FR 28345 |
|---|---|---|---|

| **Scientific Name** | *Quadrula fragosa* | **Critical Habitat** | N/A |
|---|---|---|---|

**Habitat**[1]

| Shoreline (beach/land) | Ports, Canals, Industrial Areas | Rivers and Streams | Bays and Estuaries | Ponds and Lakes | Wetlands | Upland Areas |
|---|---|---|---|---|---|---|
| No | Yes | Yes | No | Yes | No | No |

**States Relevant**

| IL | IN | MI | MN | OH | WI |
|---|---|---|---|---|---|
| | | | X | | X |

**High-Risk Response Actions and Activities**

May affect, not likely to adversely affect due to insignificant or discountable effects

All Habitats of Occurrence

Waste Handling

May affect, likely to adversely affect – discuss possible BMPs to minimize impact

| Ports, Canals, Industrial Areas | Rivers and Streams | Ponds and Lakes |
|---|---|---|
| • Booming<br>• Skimming<br>• Vacuuming<br>• Sorbents<br>• Flushing<br>• Steam Cleaning<br>• Sandblasting<br>• Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation<br>• Detection of non-floating or submerged oil<br>• Recovery of non-floating or submerged oil<br>• Containment of non-floating or submerged oil<br>• Deployment of buoys<br>• Temporary Storage (on water) | • Booming<br>• Dikes or Berms<br>• Construction barriers, dams, pits, and trenches<br>• Culvert blocking<br>• Skimming<br>• Vacuuming<br>• Sorbents<br>• Flooding<br>• Flushing<br>• Steam Cleaning<br>• Sandblasting<br>• Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation<br>• Detection of non-floating or submerged oil<br>• Recovery of non-floating or submerged oil<br>• Containment of non-floating or submerged oil<br>• Use of Vessels<br>• Use of Vehicles<br>• Deployment of buoys | • Booming<br>• Dikes or Berms<br>• Construction barriers, dams, pits, and trenches<br>• Culvert blocking<br>• Skimming<br>• Vacuuming<br>• Sorbents<br>• Flooding<br>• Flushing<br>• Steam Cleaning<br>• Sandblasting<br>• Manual removal /Cleaning of oil, oiled sediment, debris, or vegetation<br>• Detection of non-floating or submerged oil<br>• Recovery of non-floating or submerged oil<br>• Containment of non-floating or submerged oil<br>• Use of Vessels<br>• Use of Vehicles<br>• Deployment of buoys<br>• Temporary Storage (on water) |

Special considerations needed, high level of concern

All Habitats of Occurrence

Natural attenuation: allow habitat to recover naturally while monitoring
Locating, sampling, and monitoring: air, land, water (includes SCAT)

**BMPs**

1. A wildlife monitoring plan
2. Buffer zones with the concurrence of USFWS.
3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.
4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

USFWS Lead Office Contact:

Crustaceans

| **Illinois Cave Amphipod** | **Status** | **Endangered (1998)** | 63 FR 46900 |
|---|---|---|---|

| **Scientific Name** | *Gammarus acherondytes* | **Critical Habitat** | N/A |
|---|---|---|---|

**Habitat**[1]

| Shoreline (beach/land) | Ports, Canals, Industrial Areas | Rivers and Streams | Bays and Estuaries | Ponds and Lakes | Wetlands | Upland Areas |
|---|---|---|---|---|---|---|
| No | No | Yes | No | No | No | Yes |

**States Relevant**

| IL | IN | MI | MN | OH | WI |
|---|---|---|---|---|---|
| X | | | | | |

**High-Risk Response Actions and Activities**

May affect, not likely to adversely affect due to insignificant or discountable effects

Rivers and Streams

- Waste Handling
- Temporary Storage (on water)

May affect, not likely to adversely affect due to implementation of BMP's to minimize impact

Upland Areas

- Flooding
- Flushing

May affect, likely to adversely affect – discuss possible BMPs to minimize impact

Rivers and Streams

- Booming
- Dikes or Berms
- Construction barriers, pits, and trenches
- Culvert Blocking
- Skimming
- Vacuuming
- Flooding
- Flushing
- Steam Cleaning
- Sandblasting
- Manual removal / Cleaning of oil sediment, debris, or vegetation
- Recovery of non-floating or submerged oil
- Containment of non-floating or submerged oil
- Deployment of buoys

Special considerations needed, high level of concern

All Habitats of Occurrence

Natural attenuation: allow habitat to recover naturally while monitoring
Locating, sampling, and monitoring: air, land, water (includes SCAT)

**BMPs**

1. A wildlife monitoring plan
2. Buffer zones with the concurrence of USFWS.
3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.
4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

USFWS Lead Office Contact:

Insects

| **American Burying Beetle** | **Status** | **Threatened (1989)** | 54 FR 29652 |
|---|---|---|---|

| **Scientific Name** | *Nicrophorus americanus* | **Critical Habitat** | N/A |
|---|---|---|---|

**Habitat**[1]

| Shoreline (beach/land) | Ports, Canals, Industrial Areas | Rivers and Streams | Bays and Estuaries | Ponds and Lakes | Wetlands | Upland Areas |
|---|---|---|---|---|---|---|
| No | No | No | No | No | Yes | Yes |

**States Relevant**

| IL | IN | MI | MN | OH | WI |
|---|---|---|---|---|---|
| | | X | | X | |

**High-Risk Response Actions and Activities**

May affect, not likely to adversely affect due to insignificant or discountable effects

All Habitats of Occurrence

Waste Handling

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

| Wetlands | Upland Areas |
|---|---|
| • Booming<br>• Manual removal / Cleaning of oil sediment, debris, or vegetation<br>• Creation/Use of New Access Points<br>• Access of personnel by foot traffic<br>• Decontamination | • Booming<br>• Dikes or Berms<br>• Manual removal / Cleaning of oil sediment, debris, or vegetation<br>• Creation/Use of New Access Points<br>• Creation/Use of Staging Area (on land)<br>• Access of personnel by foot traffic<br>• Temporary Storage (on land)<br>• Decontamination |

Special considerations needed, high level of concern

All Habitats of Occurrence

Natural attenuation: allow habitat to recover naturally while monitoring
Locating, sampling, and monitoring: air, land, water (includes SCAT)

**BMPs**

1. A wildlife monitoring plan.
2. Buffer zones with the concurrence of USFWS.
3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.
4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

USFWS Lead Office Contact:

| **Bog Buckmoth** | | **Status** | **Under Review** | Not Listed |
|---|---|---|---|---|
| **Scientific Name** | *Hemileuca sp.* | **Critical Habitat** | N/A | |

| **Habitat**[1] | | | | | | |
|---|---|---|---|---|---|---|
| Shoreline (beach/land) | Ports, Canals, Industrial Areas | Rivers and Streams | Bays and Estuaries | Ponds and Lakes | Wetlands | Upland Areas |
| No | No | No | No | No | Yes | No |

| **States Relevant** | | | | | |
|---|---|---|---|---|---|
| **IL** | **IN** | **MI** | **MN** | **OH** | **WI** |
| | | | | | X |

**High-Risk Response Actions and Activities**

May affect, not likely to adversely affect due to insignificant or discountable effects

Wetlands

Waste Handling

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

Wetlands

- Booming
- Dikes or Berms
- Construction barriers, pits, and trenches
- Culvert Blocking
- Flooding
- Flushing
- Mechanical (non-chemical) sand cleaning (surface, <1 inch)
- Mechanical (non-chemical) sand cleaning and excavation (>1 inch)
- Manual removal / Cleaning of oil sediment, debris, or vegetation
- Creation/Use of New Access Points
- Access of personnel by foot traffic
- Decanting

Special considerations needed, high level of concern

All Habitats of Occurrence

Natural attenuation: allow habitat to recover naturally while monitoring
Locating, sampling, and monitoring: air, land, water (includes SCAT)

**BMPs**

1. A wildlife monitoring plan
2. Buffer zones with the concurrence of USFWS.
3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.
4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

USFWS Lead Office Contact:

| **Dakota Skipper** | **Status** | **Threatened (2014)** | 79 FR 63671 |
|---|---|---|---|

| **Scientific Name** | *Hesperia dacotae* | **Critical Habitat** | Designated |
|---|---|---|---|

**Habitat**[1]

| Shoreline (beach/land) | Ports, Canals, Industrial Areas | Rivers and Streams | Bays and Estuaries | Ponds and Lakes | Wetlands | Upland Areas |
|---|---|---|---|---|---|---|
| No | No | No | No | No | No | Yes |

**States Relevant**

| IL | IN | MI | MN | OH | WI |
|---|---|---|---|---|---|
| | | | X | | |

**High-Risk Response Actions and Activities**

May affect, not likely to adversely affect due to insignificant or discountable effects

Upland Areas

- Deterrence or Hazing
- Capture and care of contaminated species or recovery of contaminated carcasses
- Waste Handling

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

Upland Areas

- Booming
- Dikes or Berms
- Construction barriers, pits, and trenches
- Mechanical (non-chemical) sand cleaning (surface, <1 inch)
- Mechanical (non-chemical) sand cleaning and excavation (>1 inch)
- Manual removal / Cleaning of oil sediment, debris, or vegetation
- Use of Vehicles
- Use of machinery/supporting equipment
- Creation/Use of New Access Points
- Creation/Use of Staging Area (on land)
- Access of personnel by foot traffic
- Temporary Storage (on land)
- Decontamination

Special considerations needed, high level of concern

All Habitats of Occurrence

Natural attenuation: allow habitat to recover naturally while monitoring
Locating, sampling, and monitoring: air, land, water (includes SCAT)

**BMPs**

1. A wildlife monitoring plan
2. Buffer zones with the concurrence of USFWS.
3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.
4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

USFWS Lead Office Contact:

| **Frosted Elfin Butterfly** | **Status** | **Under Review** | Unlisted |
|---|---|---|---|

| **Scientific Name** | *Callophrys irus* | **Critical Habitat** | N/A |
|---|---|---|---|

**Habitat**[1]

| Shoreline (beach/land) | Ports, Canals, Industrial Areas | Rivers and Streams | Bays and Estuaries | Ponds and Lakes | Wetlands | Upland Areas |
|---|---|---|---|---|---|---|
| No | No | No | No | No | No | Yes |

**States Relevant**

| IL | IN | MI | MN | OH | WI |
|---|---|---|---|---|---|
| X | X | X | | X | X |

**High-Risk Response Actions and Activities**

May affect, not likely to adversely affect due to insignificant or discountable effects

Upland Areas

- Deterrence or Hazing
- Capture and care of contaminated species or recovery of contaminated carcasses
- Waste Handling

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

Upland Areas

- Booming
- Dikes or Berms
- Construction barriers, pits, and trenches
- Mechanical (non-chemical) sand cleaning (surface, <1 inch)
- Mechanical (non-chemical) sand cleaning and excavation (>1 inch)
- Manual removal / Cleaning of oil sediment, debris, or vegetation
- Use of Vehicles
- Use of machinery/supporting equipment
- Creation/Use of New Access Points
- Creation/Use of Staging Area (on land)
- Access of personnel by foot traffic
- Temporary Storage (on land)
- Decontamination

Special considerations needed, high level of concern

All Habitats of Occurrence

Natural attenuation: allow habitat to recover naturally while monitoring
Locating, sampling, and monitoring: air, land, water (includes SCAT)

**BMPs**

1. A wildlife monitoring plan
2. Buffer zones with the concurrence of USFWS.
3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.
4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

USFWS Lead Office Contact:

| **Hine's Emerald Dragonfly** | **Status** | **Endangered (1995)** | 60 FR 5267 |
|---|---|---|---|

| **Scientific Name** | *Somatochlora hineana* | **Critical Habitat** | Designated |
|---|---|---|---|

**Habitat**[1]

| Shoreline (beach/land) | Ports, Canals, Industrial Areas | Rivers and Streams | Bays and Estuaries | Ponds and Lakes | Wetlands | Upland Areas |
|---|---|---|---|---|---|---|
| No | No | No | No | Yes | Yes | No |

**States Relevant**

| IL | IN | MI | MN | OH | WI |
|---|---|---|---|---|---|
| X | | X | | | X |

**High-Risk Response Actions and Activities**

May affect, not likely to adversely affect due to insignificant or discountable effects

All Habitats of Occurrence

Waste Handling

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

All Habitats of Occurrence

- Booming
- Dikes or Berms
- Construction barriers, pits, and trenches
- Culvert Blocking
- Flooding
- Flushing
- Mechanical (non-chemical) sand cleaning (surface, <1 inch)
- Mechanical (non-chemical) sand cleaning and excavation (>1 inch)
- Manual removal / Cleaning of oil sediment, debris, or vegetation
- Creation/Use of New Access Points
- Access of personnel by foot traffic
- Decanting

Special considerations needed, high level of concern

All Habitats of Occurrence

Natural attenuation: allow habitat to recover naturally while monitoring
Locating, sampling, and monitoring: air, land, water (includes SCAT)

**BMPs**

1. A wildlife monitoring plan.
2. Buffer zones with the concurrence of USFWS.
3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.
4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

USFWS Lead Office Contact:

| **Hungerford's Crawling Water Beetle** | **Status** | **Endangered (1994)** | 59 FR 10580 |
|---|---|---|---|

| **Scientific Name** | *Brychius hungerfordi* | **Critical Habitat** | N/A |
|---|---|---|---|

**Habitat**[1]

| Shoreline (beach/land) | Ports, Canals, Industrial Areas | Rivers and Streams | Bays and Estuaries | Ponds and Lakes | Wetlands | Upland Areas |
|---|---|---|---|---|---|---|
| No | No | Yes | No | No | No | No |

**States Relevant**

| IL | IN | MI | MN | OH | WI |
|---|---|---|---|---|---|
| | | X | | | |

**High-Risk Response Actions and Activities**

May affect, not likely to adversely affect due to insignificant or discountable effects

All Habitats of Occurrence

- Waste Handling
- Temporary Storage (on water)

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

All Habitats of Occurrence

- Booming
- Dikes or Berms
- Construction barriers, pits, and trenches
- Culvert Blocking
- Skimming
- Vacuuming
- Flooding
- Flushing
- Steam Cleaning
- Sandblasting
- Mechanical (non-chemical) sand cleaning (surface, <1 inch)
- Mechanical (non-chemical) sand cleaning and excavation (>1 inch)
- Manual removal / Cleaning of oil sediment, debris, or vegetation
- Recovery of non-floating or submerged oil
- Containment of non-floating or submerged oil
- Use of Vehicles
- Use of machinery/supporting equipment
- Deployment of buoys
- Decanting

Special considerations needed, high level of concern

All Habitats of Occurrence

Natural attenuation: allow habitat to recover naturally while monitoring
Locating, sampling, and monitoring: air, land, water (includes SCAT)

**BMPs**

1. A wildlife monitoring plan
2. Buffer zones with the concurrence of USFWS.
3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.
4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

USFWS Lead Office Contact:

| **Karner Blue Butterfly** | **Status** | **Endangered (1992)** | 57 FR 59236 |
|---|---|---|---|

| **Scientific Name** | *Lycaeides melissa samuelis* | **Critical Habitat** | N/A |
|---|---|---|---|

**Habitat**[1]

| Shoreline (beach/land) | Ports, Canals, Industrial Areas | Rivers and Streams | Bays and Estuaries | Ponds and Lakes | Wetlands | Upland Areas |
|---|---|---|---|---|---|---|
| No | No | No | No | No | No | Yes |

**States Relevant**

| IL | IN | MI | MN | OH | WI |
|---|---|---|---|---|---|
| X | X | X | X | X | X |

**High-Risk Response Actions and Activities**

May affect, not likely to adversely affect due to insignificant or discountable effects

Upland Areas

- Deterrence or Hazing
- Capture and care of contaminated species or recovery of contaminated carcasses
- Waste Handling

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

Upland Areas

- Booming
- Dikes or Berms
- Construction barriers, pits, and trenches
- Mechanical (non-chemical) sand cleaning (surface, <1 inch)
- Mechanical (non-chemical) sand cleaning and excavation (>1 inch)
- Manual removal / Cleaning of oil sediment, debris, or vegetation
- Use of Vehicles
- Use of machinery/supporting equipment
- Creation/Use of New Access Points
- Creation/Use of Staging Area (on land)
- Access of personnel by foot traffic
- Temporary Storage (on land)
- Decontamination

Special considerations needed, high level of concern

All Habitats of Occurrence

Natural attenuation: allow habitat to recover naturally while monitoring
Locating, sampling, and monitoring: air, land, water (includes SCAT)

**BMPs**

1. A wildlife monitoring plan
2. Buffer zones with the concurrence of USFWS.
3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.
4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

USFWS Lead Office Contact:

| **Linda's Roadside Skipper** | **Status** | **Under Review** | Unlisted |
|---|---|---|---|

| **Scientific Name** | *Amblyscirtes linda* | **Critical Habitat** | N/A |
|---|---|---|---|

**Habitat**[1]

| Shoreline (beach/land) | Ports, Canals, Industrial Areas | Rivers and Streams | Bays and Estuaries | Ponds and Lakes | Wetlands | Upland Areas |
|---|---|---|---|---|---|---|
| No | No | Yes | No | No | Yes | Yes |

**States Relevant**

| IL | IN | MI | MN | OH | WI |
|---|---|---|---|---|---|
| X | X | X | X | X | X |

**High-Risk Response Actions and Activities**

May affect, not likely to adversely affect due to insignificant or discountable effects

| Rivers and Streams | Wetlands | Upland Areas |
|---|---|---|
| • Booming<br>• Culver Blocking<br>• Manual removal / Cleaning of oil sediment, debris, or vegetation<br>• Waste Handling | • Waste Handling | • Deterrence or Hazing<br>• Capture and care of contaminated species or recovery of contaminated carcasses<br>• Waste Handling |

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

| Rivers and Streams | Wetlands | Upland Areas |
|---|---|---|
| • Dikes or Berms<br>• Construction barriers, pits, and trenches<br>• Flooding<br>• Flushing<br>• Steam Cleaning<br>• Sandblasting<br>• Mechanical (non-chemical) sand cleaning (surface, <1 inch)<br>• Mechanical (non-chemical) sand cleaning and excavation (>1 inch)<br>• Use of Vehicles<br>• Use of machinery/supporting equipment<br>• Creation/Use of New Access Points<br>• Creation/Use of Staging Area (on land)<br>• Temporary Storage (on land)<br>• Decontamination | • Booming<br>• Dikes or Berms<br>• Construction barriers, pits, and trenches<br>• Culvert Blocking<br>• Flooding<br>• Flushing<br>• Manual removal / Cleaning of oil sediment, debris, or vegetation<br>• Deterrence or Hazing<br>• Capture and care of contaminated species or recovery of contaminated carcasses<br>• Use of Vehicles<br>• Use of machinery/supporting equipment<br>• Creation/Use of New Access Points<br>• Access of personnel by foot traffic<br>• Decanting | • Booming<br>• Dikes or Berms<br>• Construction barriers, pits, and trenches<br>• Mechanical (non-chemical) sand cleaning (surface, <1 inch)<br>• Mechanical (non-chemical) sand cleaning and excavation (>1 inch)<br>• Manual removal / Cleaning of oil sediment, debris, or vegetation<br>• Use of Vehicles<br>• Use of machinery/supporting equipment<br>• Creation/Use of New Access Points<br>• Creation/Use of Staging Area (on land)<br>• Access of personnel by foot traffic<br>• Temporary Storage (on land)<br>• Decontamination |

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

Wetlands

- Mechanical (non-chemical) sand cleaning (surface, <1 inch)
- Mechanical (non-chemical) sand cleaning and excavation (>1 inch)

Special considerations needed, high level of concern

All Habitats of Occurrence

Natural attenuation: allow habitat to recover naturally while monitoring
Locating, sampling, and monitoring: air, land, water (includes SCAT)

**BMPs**

1. A wildlife monitoring plan
2. Buffer zones with the concurrence of USFWS.
3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.
4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

USFWS Lead Office Contact:

| **Mitchell's Satyr Butterfly** | **Status** | **Endangered (1992)** | 57 FR 21564 |
|---|---|---|---|

| **Scientific Name** | *Neonympha mitchellii metchellii* | **Critical Habitat** | N/A |
|---|---|---|---|

**Habitat**[1]

| Shoreline (beach/land) | Ports, Canals, Industrial Areas | Rivers and Streams | Bays and Estuaries | Ponds and Lakes | Wetlands | Upland Areas |
|---|---|---|---|---|---|---|
| No | No | No | No | No | Yes | No |

**States Relevant**

| IL | IN | MI | MN | OH | WI |
|---|---|---|---|---|---|
| | X | X | | X | |

**High-Risk Response Actions and Activities**

May affect, not likely to adversely affect due to insignificant or discountable effects

Wetlands

Waste Handling

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

Wetlands

- Booming
- Dikes or Berms
- Construction barriers, pits, and trenches
- Culvert Blocking
- Flooding
- Flushing
- Manual removal / Cleaning of oil sediment, debris, or vegetation
- Deterrence or Hazing
- Capture and care of contaminated species or recovery of contaminated carcasses
- Use of Vehicles
- Use of machinery/supporting equipment
- Creation/Use of New Access Points
- Access of personnel by foot traffic
- Decanting

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

Wetlands

- Mechanical (non-chemical) sand cleaning (surface, <1 inch)
- Mechanical (non-chemical) sand cleaning and excavation (>1 inch)

Special considerations needed, high level of concern

All Habitats of Occurrence

Natural attenuation: allow habitat to recover naturally while monitoring
Locating, sampling, and monitoring: air, land, water (includes SCAT)

**BMPs**

1. A wildlife monitoring plan.
2. Buffer zones with the concurrence of USFWS.
3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.
4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

USFWS Lead Office Contact:

| **Monarch Butterfly** | **Status** | **Candidate (2020)** | Unlisted |
|---|---|---|---|

| **Scientific Name** | *Danaus plexippus plexippus* | **Critical Habitat** | N/A |
|---|---|---|---|

**Habitat**[1]

| Shoreline (beach/land) | Ports, Canals, Industrial Areas | Rivers and Streams | Bays and Estuaries | Ponds and Lakes | Wetlands | Upland Areas |
|---|---|---|---|---|---|---|
| No | No | Yes | No | No | Yes | Yes |

**States Relevant**

| IL | IN | MI | MN | OH | WI |
|---|---|---|---|---|---|
| X | X | X | X | X | X |

**High-Risk Response Actions and Activities**

May affect, not likely to adversely affect due to insignificant or discountable effects

| Rivers and Streams | Wetlands | Upland Areas |
|---|---|---|
| • Booming<br>• Culver Blocking<br>• Manual removal / Cleaning of oil sediment, debris, or vegetation<br>• Waste Handling | • Waste Handling | • Deterrence or Hazing<br>• Capture and care of contaminated species or recovery of contaminated carcasses<br>• Waste Handling |

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

| Rivers and Streams | Wetlands | Upland Areas |
|---|---|---|
| • Dikes or Berms<br>• Construction barriers, pits, and trenches<br>• Flooding<br>• Flushing<br>• Steam Cleaning<br>• Sandblasting<br>• Mechanical (non-chemical) sand cleaning (surface, <1 inch)<br>• Mechanical (non-chemical) sand cleaning and excavation (>1 inch)<br>• Use of Vehicles<br>• Use of machinery/supporting equipment<br>• Creation/Use of New Access Points<br>• Creation/Use of Staging Area (on land)<br>• Temporary Storage (on land)<br>• Decontamination | • Booming<br>• Dikes or Berms<br>• Construction barriers, pits, and trenches<br>• Culvert Blocking<br>• Flooding<br>• Flushing<br>• Manual removal / Cleaning of oil sediment, debris, or vegetation<br>• Deterrence or Hazing<br>• Capture and care of contaminated species or recovery of contaminated carcasses<br>• Use of Vehicles<br>• Use of machinery/supporting equip.<br>• Creation/Use of New Access Points<br>• Access of personnel by foot traffic<br>• Decanting | • Booming<br>• Dikes or Berms<br>• Construction barriers, pits, and trenches<br>• Mechanical (non-chemical) sand cleaning (surface, <1 inch)<br>• Mechanical (non-chemical) sand cleaning and excavation (>1 inch)<br>• Manual removal / Cleaning of oil sediment, debris, or vegetation<br>• Use of Vehicles<br>• Use of machinery/supporting equipment<br>• Creation/Use of New Access Points<br>• Creation/Use of Staging Area (on land)<br>• Access of personnel by foot traffic<br>• Temporary Storage (on land)<br>• Decontamination |

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

Wetlands

Mechanical (non-chemical) sand cleaning (surface, <1 inch)
Mechanical (non-chemical) sand cleaning and excavation (>1 inch)

Special considerations needed, high level of concern

All Habitats of Occurrence

Natural attenuation: allow habitat to recover naturally while monitoring
Locating, sampling, and monitoring: air, land, water (includes SCAT)

**BMPs**

1. A wildlife monitoring plan
2. Buffer zones with the concurrence of USFWS.
3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.
4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

USFWS Lead Office Contact:

| **Poweshiek Skipperling** | **Status** | **Endangered (2014)** | 79 FR 63671 |
|---|---|---|---|

| **Scientific Name** | *Oarisma poweshiek* | **Critical Habitat** | Designated |
|---|---|---|---|

**Habitat**[1]

| Shoreline (beach/land) | Ports, Canals, Industrial Areas | Rivers and Streams | Bays and Estuaries | Ponds and Lakes | Wetlands | Upland Areas |
|---|---|---|---|---|---|---|
| No | No | No | No | No | Yes | Yes |

**States Relevant**

| IL | IN | MI | MN | OH | WI |
|---|---|---|---|---|---|
| | | X | X | | X |

**High-Risk Response Actions and Activities**

May affect, not likely to adversely affect due to insignificant or discountable effects

| Wetlands | Upland Areas (Unoccupied Critical Habitat) | Upland Areas (Adjacent to occupied wetland) |
|---|---|---|
| Waste Handling | Waste Handling | Waste Handling |

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

| Wetlands | Wetlands | Upland Areas |
|---|---|---|
| • Booming<br>• Dikes or Berms<br>• Construction barriers, pits, and trenches<br>• Culvert Blocking<br>• Flooding<br>• Flushing<br>• Manual removal / Cleaning of oil sediment, debris, or vegetation<br>• Deterrence or Hazing<br>• Capture and care of contaminated species or recovery of contaminated carcasses<br>• Use of Vehicles<br>• Use of machinery/supporting equipment<br>• Creation/Use of New Access Points<br>• Access of personnel by foot traffic<br>• Decanting | • Booming<br>• Manual removal / Cleaning of oil sediment, debris, or vegetation<br>• Creation/Use of New Access Points<br>• Creation/Use of Staging Area (on land)<br>• Access of personnel by foot traffic<br>• Temporary Storage (on land)<br>• Decontamination | • Booming<br>• Dikes or Berms<br>• Construction barriers, pits, and trenches<br>• Flooding<br>• Flushing<br>• Manual removal / Cleaning of oil sediment, debris, or vegetation<br>• Creation/Use of New Access Points<br>• Access of personnel by foot traffic<br>• Decontamination |

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

Wetlands

Mechanical (non-chemical) sand cleaning (surface, <1 inch)
Mechanical (non-chemical) sand cleaning and excavation (>1 inch)

Special considerations needed, high level of concern

All Habitats of Occurrence

Natural attenuation: allow habitat to recover naturally while monitoring
Locating, sampling, and monitoring: air, land, water (includes SCAT)

**BMPs**

1. A wildlife monitoring plan.
2. Buffer zones with the concurrence of USFWS.
3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.
4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

USFWS Lead Office Contact:

| **Rattlesnake-master Borer Moth** | **Status** | **Under Review** | Unlisted |
|---|---|---|---|

| **Scientific Name** | *Papaipema eryngii* | **Critical Habitat** | N/A |
|---|---|---|---|

**Habitat**[1]

| Shoreline (beach/land) | Ports, Canals, Industrial Areas | Rivers and Streams | Bays and Estuaries | Ponds and Lakes | Wetlands | Upland Areas |
|---|---|---|---|---|---|---|
| No | No | No | No | No | No | Yes |

**States Relevant**

| IL | IN | MI | MN | OH | WI |
|---|---|---|---|---|---|
| X | | | | | |

**High-Risk Response Actions and Activities**

May affect, not likely to adversely affect due to insignificant or discountable effects

Upland Areas

- Deterrence or Hazing
- Capture and care of contaminated species or recovery of contaminated carcasses
- Waste Handling

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

Upland Areas

- Booming
- Dikes or Berms
- Construction barriers, pits, and trenches
- Mechanical (non-chemical) sand cleaning (surface, <1 inch)
- Mechanical (non-chemical) sand cleaning and excavation (>1 inch)
- Manual removal / Cleaning of oil sediment, debris, or vegetation
- Use of Vehicles
- Use of machinery/supporting equipment
- Creation/Use of New Access Points
- Creation/Use of Staging Area (on land)
- Access of personnel by foot traffic
- Temporary Storage (on land)
- Decontamination

Special considerations needed, high level of concern

All Habitats of Occurrence

Natural attenuation: allow habitat to recover naturally while monitoring
Locating, sampling, and monitoring: air, land, water (includes SCAT)

**BMPs**

1. A wildlife monitoring plan
2. Buffer zones with the concurrence of USFWS.
3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.
4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

USFWS Lead Office Contact:

| **Regal Fritillary** | **Status** | **Under Review** | Unlisted |
|---|---|---|---|

| **Scientific Name** | *Speyaria idalia* | **Critical Habitat** | N/A |
|---|---|---|---|

**Habitat**[1]

| Shoreline (beach/land) | Ports, Canals, Industrial Areas | Rivers and Streams | Bays and Estuaries | Ponds and Lakes | Wetlands | Upland Areas |
|---|---|---|---|---|---|---|
| No | No | Yes | No | No | Yes | Yes |

**States Relevant**

| IL | IN | MI | MN | OH | WI |
|---|---|---|---|---|---|
| X | X | X | X | X | X |

**High Risk Response Actions and Activities**

May affect, not likely to adversely affect due to insignificant or discountable effects

| Rivers and Streams | Wetlands | Upland Areas |
|---|---|---|
| • Booming<br>• Culver Blocking<br>• Manual removal / Cleaning of oil sediment, debris, or vegetation<br>• Waste Handling | • Waste Handling | • Deterrence or Hazing<br>• Capture and care of contaminated species or recovery of contaminated carcasses<br>• Waste Handling |

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

| Rivers and Streams | Wetlands | Upland Areas |
|---|---|---|
| • Dikes or Berms<br>• Construction barriers, pits, and trenches<br>• Flooding<br>• Flushing<br>• Steam Cleaning<br>• Sandblasting<br>• Mechanical (non-chemical) sand cleaning (surface, <1 inch)<br>• Mechanical (non-chemical) sand cleaning and excavation (>1 inch)<br>• Use of Vehicles<br>• Use of machinery/supporting equipment<br>• Creation/Use of New Access Points<br>• Creation/Use of Staging Area (on land)<br>• Temporary Storage (on land)<br>• Decontamination | • Booming<br>• Dikes or Berms<br>• Construction barriers, pits, and trenches<br>• Culvert Blocking<br>• Flooding<br>• Flushing<br>• Manual removal / Cleaning of oil sediment, debris, or vegetation<br>• Deterrence or Hazing<br>• Capture and care of contaminated species or recovery of contaminated carcasses<br>• Use of Vehicles<br>• Use of machinery/supporting equipment<br>• Creation/Use of New Access Points<br>• Access of personnel by foot traffic<br>• Decanting | • Booming<br>• Dikes or Berms<br>• Construction barriers, pits, and trenches<br>• Mechanical (non-chemical) sand cleaning (surface, <1 inch)<br>• Mechanical (non-chemical) sand cleaning and excavation (>1 inch)<br>• Manual removal / Cleaning of oil sediment, debris, or vegetation<br>• Use of Vehicles<br>• Use of machinery/supporting equipment<br>• Creation/Use of New Access Points<br>• Creation/Use of Staging Area (on land)<br>• Access of personnel by foot traffic<br>• Temporary Storage (on land)<br>• Decontamination |

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

Wetlands

Mechanical (non-chemical) sand cleaning (surface, <1 inch)
Mechanical (non-chemical) sand cleaning and excavation (>1 inch)

Special considerations needed, high level of concern

All Habitats of Occurrence

Natural attenuation: allow habitat to recover naturally while monitoring
Locating, sampling, and monitoring: air, land, water (includes SCAT)

**BMPs**

1. A wildlife monitoring plan
2. Buffer zones with the concurrence of USFWS.
3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.
4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

USFWS Lead Office Contact:

| **Rusty Patched Bumble Bee** | **Status** | **Endangered (2017)** | 82 FR 3186 |
|---|---|---|---|

| **Scientific Name** | *Bombus affinis* | **Critical Habitat** | N/A |
|---|---|---|---|

**Habitat**[1]

| Shoreline (beach/land) | Ports, Canals, Industrial Areas | Rivers and Streams | Bays and Estuaries | Ponds and Lakes | Wetlands | Upland Areas |
|---|---|---|---|---|---|---|
| No | No | Yes | No | No | Yes | Yes |

**States Relevant**

| IL | IN | MI | MN | OH | WI |
|---|---|---|---|---|---|
| X | X | | X | X | X |

**High-Risk Response Actions and Activities**

May affect, not likely to adversely affect due to insignificant or discountable effects

| Rivers and Streams | Wetlands | Upland Areas |
|---|---|---|
| • Booming<br>• Culver Blocking<br>• Manual removal / Cleaning of oil sediment, debris, or vegetation<br>• Waste Handling | • Waste Handling | • Deterrence or Hazing<br>• Capture and care of contaminated species or recovery of contaminated carcasses<br>• Waste Handling |

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

| Rivers and Streams | Wetlands | Upland Areas |
|---|---|---|
| • Dikes or Berms<br>• Construction barriers, pits, and trenches<br>• Flooding<br>• Flushing<br>• Steam Cleaning<br>• Sandblasting<br>• Mechanical (non-chemical) sand cleaning (surface, <1 inch)<br>• Mechanical (non-chemical) sand cleaning and excavation (>1 inch)<br>• Use of Vehicles<br>• Use of machinery/supporting equipment<br>• Creation/Use of New Access Points<br>• Creation/Use of Staging Area (on land)<br>• Temporary Storage (on land)<br>• Decontamination | • Booming<br>• Dikes or Berms<br>• Construction barriers, pits, and trenches<br>• Culvert Blocking<br>• Flooding<br>• Flushing<br>• Manual removal / Cleaning of oil sediment, debris, or vegetation<br>• Deterrence or Hazing<br>• Capture and care of contaminated species or recovery of contaminated carcasses<br>• Use of Vehicles<br>• Use of machinery/supporting equipment<br>• Creation/Use of New Access Points<br>• Access of personnel by foot traffic<br>• Decanting | • Booming<br>• Dikes or Berms<br>• Construction barriers, pits, and trenches<br>• Mechanical (non-chemical) sand cleaning (surface, <1 inch)<br>• Mechanical (non-chemical) sand cleaning and excavation (>1 inch)<br>• Manual removal / Cleaning of oil sediment, debris, or vegetation<br>• Use of Vehicles<br>• Use of machinery/supporting equipment<br>• Creation/Use of New Access Points<br>• Creation/Use of Staging Area (on land)<br>• Access of personnel by foot traffic<br>• Temporary Storage (on land)<br>• Decontamination |

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

Wetlands

- Mechanical (non-chemical) sand cleaning (surface, <1 inch)
- Mechanical (non-chemical) sand cleaning and excavation (>1 inch)

Special considerations needed, high level of concern

All Habitats of Occurrence

Natural attenuation: allow habitat to recover naturally while monitoring
Locating, sampling, and monitoring: air, land, water (includes SCAT)

**BMPs**

1. A wildlife monitoring plan
2. Buffer zones with the concurrence of USFWS.
3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.
4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

USFWS Lead Office Contact:

Fishes

| **Lake Sturgeon** | **Status** | **Under Review** | Unlisted |
|---|---|---|---|

| **Scientific Name** | *Acipenser fulvescens* | **Critical Habitat** | N/A |
|---|---|---|---|

**Habitat**[1]

| Shoreline (beach/land) | Ports, Canals, Industrial Areas | Rivers and Streams | Bays and Estuaries | Ponds and Lakes | Wetlands | Upland Areas |
|---|---|---|---|---|---|---|
| No | Yes | Yes | Yes | Yes | No | No |

**States Relevant**

| IL | IN | MI | MN | OH | WI |
|---|---|---|---|---|---|
| X | X | X | X | X | X |

**High-Risk Response Actions and Activities**

May affect, not likely to adversely affect due to insignificant or discountable effects

| Ports, Canals, Industrial Areas | Rivers and Streams / Ponds and Lakes | Bays and Estuaries |
|---|---|---|
| • Waste Handling<br>• Temporary Storage (on water) | • Waste Handling<br>• Temporary Storage (on water) | • Waste Handling |

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

| Ports, Canals, Industrial Areas | Rivers and Streams / Ponds and Lakes | Bays and Estuaries |
|---|---|---|
| • Booming<br>• Skimming<br>• Vacuuming<br>• Flushing<br>• Steam Cleaning<br>• Sandblasting<br>• Detection of non-floating or submerged oil<br>• Recovery of non-floating or submerged oil<br>• Containment of non-floating or submerged oil<br>• Deterrence or Hazing<br>• Use of Vessels<br>• Deployment of buoys<br>• Decanting | • Booming<br>• Dikes or Berms<br>• Construction barriers, pits, and trenches<br>• Culvert Blocking<br>• Skimming<br>• Vacuuming<br>• Flooding<br>• Flushing<br>• Steam Cleaning<br>• Sandblasting<br>• Detection of non-floating or submerged oil<br>• Recovery of non-floating or submerged oil<br>• Containment of non-floating or submerged oil<br>• Deterrence or Hazing<br>• Use of Vessels<br>• Deployment of buoys<br>• Decanting | • Booming<br>• Dikes or Berms<br>• Construction barriers, pits, and trenches<br>• Skimming<br>• Vacuuming<br>• Flooding<br>• Detection of non-floating or submerged oil<br>• Recovery of non-floating or submerged oil<br>• Containment of non-floating or submerged oil<br>• Deterrence or Hazing<br>• Use of Vessels<br>• Deployment of buoys<br>• Decanting |

Special considerations needed, high level of concern

All Habitats of Occurrence

Natural attenuation: allow habitat to recover naturally while monitoring
Locating, sampling, and monitoring: air, land, water (includes SCAT)

**BMPs**

1. A wildlife monitoring plan
2. Buffer zones with the concurrence of USFWS.
3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.
4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

USFWS Lead Office Contact:

| **Pallid Sturgeon** | **Status** | **Endangered (1990)** | 55 FR 36641 |
|---|---|---|---|

| **Scientific Name** | *Scaphirhynchus albus* | **Critical Habitat** | N/A |
|---|---|---|---|

**Habitat**[1]

| Shoreline (beach/land) | Ports, Canals, Industrial Areas | Rivers and Streams | Bays and Estuaries | Ponds and Lakes | Wetlands | Upland Areas |
|---|---|---|---|---|---|---|
| No | Yes | Yes | No | No | No | No |

**States Relevant**

| IL | IN | MI | MN | OH | WI |
|---|---|---|---|---|---|
| X | | | | | |

**High Risk Response Actions and Activities**

May affect, not likely to adversely affect due to insignificant or discountable effects

All Habitats of Occurrence

- Waste Handling
- Temporary Storage (on water)

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

| Ports, Canals, Industrial Areas | Rivers and Streams |
|---|---|
| • Booming<br>• Skimming<br>• Vacuuming<br>• Flushing<br>• Steam Cleaning<br>• Sandblasting<br>• Detection of non-floating or submerged oil<br>• Recovery of non-floating or submerged oil<br>• Containment of non-floating or submerged oil<br>• Deterrence or Hazing<br>• Use of Vessels<br>• Deployment of buoys<br>• Decanting | • Booming<br>• Dikes or Berms<br>• Construction barriers, pits, and trenches<br>• Culvert Blocking<br>• Skimming<br>• Vacuuming<br>• Flooding<br>• Flushing<br>• Steam Cleaning<br>• Sandblasting<br>• Detection of non-floating or submerged oil<br>• Recovery of non-floating or submerged oil<br>• Containment of non-floating or submerged oil<br>• Deterrence or Hazing<br>• Use of Vessels<br>• Deployment of buoys<br>• Decanting |

Special considerations needed, high level of concern

All Habitats of Occurrence

Natural attenuation: allow habitat to recover naturally while monitoring
Locating, sampling, and monitoring: air, land, water (includes SCAT)

**BMPs**

1. A wildlife monitoring plan.
2. Buffer zones with the concurrence of USFWS.
3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.
4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

USFWS Lead Office Contact:

| **Popeye Shiner** | **Status** | **Under Review** | Unlisted |
|---|---|---|---|

| **Scientific Name** | *Notropis ariommus* | **Critical Habitat** | N/A |
|---|---|---|---|

**Habitat**[1]

| Shoreline (beach/land) | Ports, Canals, Industrial Areas | Rivers and Streams | Bays and Estuaries | Ponds and Lakes | Wetlands | Upland Areas |
|---|---|---|---|---|---|---|
| No | No | Yes | No | No | No | No |

**States Relevant**

| IL | IN | MI | MN | OH | WI |
|---|---|---|---|---|---|
| | | | | X | |

**High-Risk Response Actions and Activities**

May affect, not likely to adversely affect due to insignificant or discountable effects

Rivers and Streams

- Waste Handling
- Temporary Storage (on water)

May affect, likely to adversely affect – discuss possible BMPs with Services

Rivers and Streams

- Booming
- Dikes or Berms
- Construction barriers, pits, and trenches
- Culvert Blocking
- Skimming
- Vacuuming
- Flooding
- Flushing
- Steam Cleaning
- Sandblasting
- Detection of non-floating or submerged oil
- Recovery of non-floating or submerged oil
- Containment of non-floating or submerged oil
- Deterrence or Hazing
- Use of Vessels
- Deployment of buoys
- Decanting

Special considerations needed, high level of concern

All Habitats of Occurrence

Natural attenuation: allow habitat to recover naturally while monitoring
Locating, sampling, and monitoring: air, land, water (includes SCAT)

**BMPs**

1. A wildlife monitoring plan
2. Buffer zones with the concurrence of USFWS.
3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.
4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

USFWS Lead Office Contact:

| **Scioto Madtom** | **Status** | **Endangered (1975)** | 40 FR 44149 |
|---|---|---|---|

| **Scientific Name** | *Noturus trautmani* | **Critical Habitat** | N/A |
|---|---|---|---|

**Habitat**[1]

| Shoreline (beach/land) | Ports, Canals, Industrial Areas | Rivers and Streams | Bays and Estuaries | Ponds and Lakes | Wetlands | Upland Areas |
|---|---|---|---|---|---|---|
| No | No | Yes | No | No | No | No |

**States Relevant**

| IL | IN | MI | MN | OH | WI |
|---|---|---|---|---|---|
| | | | | X | |

**High-Risk Response Actions and Activities**

May affect, not likely to adversely affect due to insignificant or discountable effects

Rivers and Streams

- Waste Handling
- Temporary Storage (on water)

May affect, likely to adversely affect – discuss possible BMPs with Services

Rivers and Streams

- Booming
- Dikes or Berms
- Construction barriers, pits, and trenches
- Culvert Blocking
- Skimming
- Vacuuming
- Flooding
- Flushing
- Steam Cleaning
- Sandblasting
- Detection of non-floating or submerged oil
- Recovery of non-floating or submerged oil
- Containment of non-floating or submerged oil
- Deterrence or Hazing
- Use of Vessels
- Deployment of buoys
- Decanting

Special considerations needed, high level of concern

All Habitats of Occurrence

Natural attenuation: allow habitat to recover naturally while monitoring
Locating, sampling, and monitoring: air, land, water (includes SCAT)

**BMPs**

1. A wildlife monitoring plan
2. Buffer zones with the concurrence of USFWS.
3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.
4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

USFWS Lead Office Contact:

| **Sicklefin Chub** | **Status** | **Under Review** | Unlisted |
|---|---|---|---|

| **Scientific Name** | *Macrhybopsis meeki* | **Critical Habitat** | N/A |
|---|---|---|---|

**Habitat**[1]

| Shoreline (beach/land) | Ports, Canals, Industrial Areas | Rivers and Streams | Bays and Estuaries | Ponds and Lakes | Wetlands | Upland Areas |
|---|---|---|---|---|---|---|
| No | Yes | Yes | No | No | No | No |

**States Relevant**

| IL | IN | MI | MN | OH | WI |
|---|---|---|---|---|---|
| X | | | | | |

**High-Risk Response Actions and Activities**

May affect, not likely to adversely affect due to insignificant or discountable effects

All Habitats of Occurrence

- Waste Handling
- Temporary Storage (on water)

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

| Ports, Canals, Industrial Areas | Rivers and Streams |
|---|---|
| • Booming<br>• Skimming<br>• Vacuuming<br>• Flushing<br>• Steam Cleaning<br>• Sandblasting<br>• Detection of non-floating or submerged oil<br>• Recovery of non-floating or submerged oil<br>• Containment of non-floating or submerged oil<br>• Deterrence or Hazing<br>• Use of Vessels<br>• Deployment of buoys<br>• Decanting | • Booming<br>• Dikes or Berms<br>• Construction barriers, pits, and trenches<br>• Culvert Blocking<br>• Skimming<br>• Vacuuming<br>• Flooding<br>• Flushing<br>• Steam Cleaning<br>• Sandblasting<br>• Detection of non-floating or submerged oil<br>• Recovery of non-floating or submerged oil<br>• Containment of non-floating or submerged oil<br>• Deterrence or Hazing<br>• Use of Vessels<br>• Deployment of buoys<br>• Decanting |

Special considerations needed, high level of concern

All Habitats of Occurrence

Natural attenuation: allow habitat to recover naturally while monitoring
Locating, sampling, and monitoring: air, land, water (includes SCAT)

**BMPs**

1. A wildlife monitoring plan
2. Buffer zones with the concurrence of USFWS.
3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.
4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

USFWS Lead Office Contact:

| **Sturgeon Chub** | **Status** | **Under Review** | Unlisted |
|---|---|---|---|

| **Scientific Name** | *Macrhybopsis gelida* | **Critical Habitat** | N/A |
|---|---|---|---|

**Habitat**[1]

| Shoreline (beach/land) | Ports, Canals, Industrial Areas | Rivers and Streams | Bays and Estuaries | Ponds and Lakes | Wetlands | Upland Areas |
|---|---|---|---|---|---|---|
| No | Yes | Yes | No | No | No | No |

**States Relevant**

| IL | IN | MI | MN | OH | WI |
|---|---|---|---|---|---|
| X | | | | | |

**High-Risk Response Actions and Activities**

May affect, not likely to adversely affect due to insignificant or discountable effects

All Habitats of Occurrence

- Waste Handling
- Temporary Storage (on water)

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

| Ports, Canals, Industrial Areas | Rivers and Streams |
|---|---|
| • Booming<br>• Skimming<br>• Vacuuming<br>• Flushing<br>• Steam Cleaning<br>• Sandblasting<br>• Detection of non-floating or submerged oil<br>• Recovery of non-floating or submerged oil<br>• Containment of non-floating or submerged oil<br>• Deterrence or Hazing<br>• Use of Vessels<br>• Deployment of buoys<br>• Decanting | • Booming<br>• Dikes or Berms<br>• Construction barriers, pits, and trenches<br>• Culvert Blocking<br>• Skimming<br>• Vacuuming<br>• Flooding<br>• Flushing<br>• Steam Cleaning<br>• Sandblasting<br>• Detection of non-floating or submerged oil<br>• Recovery of non-floating or submerged oil<br>• Containment of non-floating or submerged oil<br>• Deterrence or Hazing<br>• Use of Vessels<br>• Deployment of buoys<br>• Decanting |

Special considerations needed, high level of concern

All Habitats of Occurrence

Natural attenuation: allow habitat to recover naturally while monitoring
Locating, sampling, and monitoring: air, land, water (includes SCAT)

**BMPs**

1. A wildlife monitoring plan
2. Buffer zones with the concurrence of USFWS.
3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.
4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

USFWS Lead Office Contact:

| **Topeka Shiner** | **Status** | **Endangered (1998)** | 63 FR 69008 |
|---|---|---|---|

| **Scientific Name** | *Notropis topeka* | **Critical Habitat** | Designated |
|---|---|---|---|

**Habitat**[1]

| Shoreline (beach/land) | Ports, Canals, Industrial Areas | Rivers and Streams | Bays and Estuaries | Ponds and Lakes | Wetlands | Upland Areas |
|---|---|---|---|---|---|---|
| No | No | Yes | No | Yes | No | No |

**States Relevant**

| IL | IN | MI | MN | OH | WI |
|---|---|---|---|---|---|
| | | | X | | |

**High-Risk Response Actions and Activities**

May affect, not likely to adversely affect due to insignificant or discountable effects

All Habitats of Occurrence

- Waste Handling
- Temporary Storage (on water)

May affect, likely to adversely affect – discuss possible BMPs with Services

| Rivers and Streams | Ponds and Lakes |
|---|---|
| • Booming<br>• Dikes or Berms<br>• Construction barriers, pits, and trenches<br>• Culvert Blocking<br>• Skimming<br>• Vacuuming<br>• Flooding<br>• Flushing<br>• Steam Cleaning<br>• Sandblasting<br>• Detection of non-floating or submerged oil<br>• Recovery of non-floating or submerged oil<br>• Containment of non-floating or submerged oil<br>• Deterrence or Hazing<br>• Use of Vessels<br>• Deployment of buoys<br>• Decanting | • Booming<br>• Dikes or Berms<br>• Construction barriers, pits, and trenches<br>• Skimming<br>• Vacuuming<br>• Flooding<br>• Flushing<br>• Steam Cleaning<br>• Sandblasting<br>• Detection of non-floating or submerged oil<br>• Recovery of non-floating or submerged oil<br>• Containment of non-floating or submerged oil<br>• Deterrence or Hazing<br>• Use of Vessels<br>• Deployment of buoys |

Special considerations needed, high level of concern

All Habitats of Occurrence

Natural attenuation: allow habitat to recover naturally while monitoring
Locating, sampling, and monitoring: air, land, water (includes SCAT)

**BMPs**

1. A wildlife monitoring plan
2. Buffer zones with the concurrence of USFWS.
3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.
4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

USFWS Lead Office Contact:

Herptiles

| **Alligator Snapping Turtle** | **Status** | **Under Review** | Unlisted |
|---|---|---|---|
| **Scientific Name** | *Macroclemys temmincki* | **Critical Habitat** | N/A |

| **Habitat**[1] | | | | | | |
|---|---|---|---|---|---|---|
| Shoreline (beach/land) | Ports, Canals, Industrial Areas | Rivers and Streams | Bays and Estuaries | Ponds and Lakes | Wetlands | Upland Areas |
| Yes | Yes | Yes | No | Yes | No | No |

| **States Relevant** | | | | | |
|---|---|---|---|---|---|
| **IL** | **IN** | **MI** | **MN** | **OH** | **WI** |
| X | X | | | | |

**High-Risk Response Actions and Activities**

May affect, not likely to adversely affect due to insignificant or discountable effects

| Shorelines | Ports, Canals, Industrial Areas | Rivers and Streams | Ponds and Lakes |
|---|---|---|---|
| • Flooding<br>• Flushing<br>• Deterrence and Hazing<br>• Use of Aircraft<br>• Waste Handling | • Flushing<br>• Deterrence and Hazing<br>• Use of Aircraft<br>• Deployment of buoys<br>• Waste Handling | • Dikes or Berms<br>• Culvert Blocking<br>• Flushing<br>• Deterrence and Hazing<br>• Use of Aircraft<br>• Deployment of buoys<br>• Waste Handling | • Dikes or Berms<br>• Flushing<br>• Deterrence and Hazing<br>• Use of Aircraft<br>• Waste Handling |

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

| Shorelines | Ports, Canals, Industrial Areas | Rivers and Streams | Ponds and Lakes |
|---|---|---|---|
| • Booming<br>• Dikes or Berms<br>• Skimming<br>• Vacuuming<br>• Sorbents<br>• Steam Cleaning<br>• Sandblasting<br>• Mechanical (non-chemical) sand cleaning (surface, <1 inch)<br>• Mechanical (non-chemical) sand cleaning and excavation (>1 inch)<br>• Manual removal / Cleaning of oil sediment, debris, or vegetation<br>• Capture and care of contaminated species or recovery of contaminated carcasses<br>• Use of Vessels<br>• Use of Vehicles<br>• Use of machinery/supporting equipment<br>• Creation/Use of New Access Points<br>• Creation/Use of Staging Area (on land)<br>• Access of personnel by foot traffic | • Booming<br>• Skimming<br>• Vacuuming<br>• Sorbents<br>• Steam Cleaning<br>• Sandblasting<br>• Manual removal / Cleaning of oil sediment, debris, or vegetation<br>• Detection of non-floating or submerged oil<br>• Recovery of non-floating or submerged oil<br>• Containment of non-floating or submerged oil<br>• Capture and care of contaminated species or recovery of contaminated carcasses<br>• Use of Vessels<br>• Use of Vehicles<br>• Use of machinery/supporting equipment<br>• Creation/Use of New Access Points<br>• Creation/Use of Staging Area (on land)<br>• Access of personnel by foot traffic<br>• Temporary Storage (on water) | • Booming<br>• Construction barriers, pits, and trenches<br>• Skimming<br>• Vacuuming<br>• Sorbents<br>• Steam Cleaning<br>• Sandblasting<br>• Manual removal / Cleaning of oil sediment, debris, or vegetation<br>• Detection of non-floating or submerged oil<br>• Recovery of non-floating or submerged oil<br>• Containment of non-floating or submerged oil<br>• Capture and care of contaminated species or recovery of contaminated carcasses<br>• Use of Vessels<br>• Use of Vehicles<br>• Use of machinery/supporting equipment<br>• Creation/Use of New Access Points<br>• Creation/Use of Staging Area (on land)<br>• Temporary Storage (on water) | • Booming<br>• Construction barriers, pits, and trenches<br>• Skimming<br>• Vacuuming<br>• Sorbents<br>• Steam Cleaning<br>• Sandblasting<br>• Manual removal / Cleaning of oil sediment, debris, or vegetation<br>• Detection of non-floating or submerged oil<br>• Recovery of non-floating or submerged oil<br>• Containment of non-floating or submerged oil<br>• Capture and care of contaminated species or recovery of contaminated carcasses<br>• Use of Vessels<br>• Use of Vehicles<br>• Use of machinery/supporting equipment<br>• Creation/Use of New Access Points<br>• Creation/Use of Staging Area (on land)<br>• Access of personnel by foot traffic |

| | | | |
|---|---|---|---|
| • Temporary Storage (on water)<br>• Temporary Storage (on land) | • Temporary Storage (on land)<br>• Decanting<br>• Decontamination | • Temporary Storage (on land)<br>• Decanting<br>• Decontamination | • Temporary Storage (on water)<br>• Temporary Storage (on land)<br>• Decontamination |
| Special considerations needed, high level of concern | | | |
| All Habitats of Occurrence | | | |
| Natural attenuation: allow habitat to recover naturally while monitoring<br>Locating, sampling, and monitoring: air, land, water (includes SCAT) | | | |
| **BMPs** | | | |
| 1. A wildlife monitoring plan.<br>2. Buffer zones with the concurrence of USFWS.<br>3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.<br>4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats. | | | |
| USFWS Lead Office Contact: | | | |

| **Blanding's Turtle** | **Status** | **Under Review** | Unlisted |
|---|---|---|---|

| **Scientific Name** | *Emydoidea blandingii* | **Critical Habitat** | N/A |
|---|---|---|---|

**Habitat**[1]

| Shoreline (beach/land) | Ports, Canals, Industrial Areas | Rivers and Streams | Bays and Estuaries | Ponds and Lakes | Wetlands | Upland Areas |
|---|---|---|---|---|---|---|
| Yes | No | Yes | Yes | Yes | Yes | Yes |

**States Relevant**

| IL | IN | MI | MN | OH | WI |
|---|---|---|---|---|---|
| X | X | X | X | X | X |

**High-Risk Response Actions and Activities**

May affect, not likely to adversely affect due to insignificant or discountable effects

| Shorelines | Rivers and Streams | Bays and Estuaries | Ponds and Lakes | Wetlands | Upland Areas |
|---|---|---|---|---|---|
| • Flooding<br>• Flushing<br>• Deterrence and Hazing<br>• Use of Aircraft<br>• Waste Handling<br>• Temporary Storage (on water) | • Dikes or Berms<br>• Culvert Blocking<br>• Flushing<br>• Deterrence and Hazing<br>• Use of Aircraft<br>• Deployment of buoys<br>• Waste Handling<br>• Temporary Storage (on water) | • Dikes or Berms<br>• Flooding<br>• Mechanical (non-chemical) sand cleaning (surface, <1 inch)<br>• Mechanical (non-chemical) sand cleaning and excavation (>1 inch)<br>• Deterrence and Hazing<br>• Use of Aircraft<br>• Deployment of buoys<br>• Waste Handling<br>• Temporary Storage (on water) | • Flushing<br>• Deterrence and Hazing<br>• Use of Aircraft<br>• Waste Handling<br>• Temporary Storage (on water) | • Deterrence and Hazing<br>• Use of Aircraft<br>• Use of Vessels<br>• Waste Handling | • Deterrence and Hazing<br>• Use of Aircraft<br>• Waste Handling |

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

| Shorelines | Rivers and Streams | Bays and Estuaries | Ponds and Lakes | Wetlands | Upland Areas |
|---|---|---|---|---|---|
| • Booming<br>• Dikes or Berms<br>• Skimming<br>• Vacuuming<br>• Sorbents<br>• Steam Cleaning<br>• Sandblasting<br>• Mechanical (non-chemical) sand cleaning (surface, <1 inch)<br>• Mechanical (non-chemical) sand cleaning and excavation (>1 inch)<br>• Manual removal / Cleaning of oil sediment, debris, or vegetation | • Booming<br>• Construction barriers, pits, and trenches<br>• Skimming<br>• Vacuuming<br>• Sorbents<br>• Steam Cleaning<br>• Sandblasting<br>• Manual removal / Cleaning of oil sediment, debris, or vegetation<br>• Detection of non-floating or submerged oil<br>• Recovery of non-floating or submerged oil | • Booming<br>• Construction barriers, pits, and trenches<br>• Skimming<br>• Vacuuming<br>• Sorbents<br>• Manual removal / Cleaning of oil sediment, debris, or vegetation<br>• Detection of non-floating or submerged oil<br>• Recovery of non-floating or submerged oil<br>• Containment of non-floating or submerged oil | • Booming<br>• Dikes or Berms<br>• Construction barriers, pits, and trenches<br>• Skimming<br>• Vacuuming<br>• Sorbents<br>• Steam Cleaning<br>• Sandblasting<br>• Manual removal / Cleaning of oil sediment, debris, or vegetation<br>• Detection of non-floating or submerged oil | • Booming<br>• Skimming<br>• Mechanical (non-chemical) sand cleaning (surface, <1 inch)<br>• Mechanical (non-chemical) sand cleaning and excavation (>1 inch)<br>• Manual removal / Cleaning of oil sediment, debris, or vegetation | • Booming<br>• Skimming<br>• Mechanical (non-chemical) sand cleaning (surface, <1 inch)<br>• Mechanical (non-chemical) sand cleaning and excavation (>1 inch)<br>• Manual removal / Cleaning of oil sediment, debris, or vegetation |

| | | | | | |
|---|---|---|---|---|---|
| • Capture and care of contaminated species or recovery of contaminated carcasses<br>• Use of Vessels<br>• Use of Vehicles<br>• Use of machinery/supporting equipment<br>• Creation/Use of New Access Points<br>• Creation/Use of Staging Area (on land)<br>• Access of personnel by foot traffic<br>• Temporary Storage (on land) | • Containment of non-floating or submerged oil<br>• Capture and care of contaminated species or recovery of contaminated carcasses<br>• Use of Vessels<br>• Use of Vehicles<br>• Use of machinery/supporting equipment<br>• Creation/Use of New Access Points<br>• Creation/Use of Staging Area (on land)<br>• Temporary Storage (on land)<br>• Decanting<br>• Decontamination | • Capture and care of contaminated species or recovery of contaminated carcasses<br>• Use of Vessels<br>• Use of Vehicles<br>• Use of machinery/supporting equipment<br>• Creation/Use of New Access Points<br>• Creation/Use of Staging Area (on land)<br>• Access of personnel by foot traffic<br>• Temporary Storage (on land)<br>• Decanting<br>• Decontamination | • Recovery of non-floating or submerged oil<br>• Containment of non-floating or submerged oil<br>• Capture and care of contaminated species or recovery of contaminated carcasses<br>• Use of Vessels<br>• Use of Vehicles<br>• Use of machinery/supporting equipment<br>• Creation/Use of New Access Points<br>• Creation/Use of Staging Area (on land)<br>• Access of personnel by foot traffic<br>• Temporary Storage (on land)<br>• Decontamination | • Detection of non-floating or submerged oil<br>• Recovery of non-floating or submerged oil<br>• Containment of non-floating or submerged oil<br>• Capture and care of contaminated species or recovery of contaminated carcasses<br>• Creation/Use of New Access Points<br>• Creation/Use of Staging Area (on land)<br>• Access of personnel by foot traffic<br>• Temporary Storage (on land)<br>• Decontamination | • Capture and care of contaminated species or recovery of contaminated carcasses<br>• Use of Vehicles<br>• Creation/Use of New Access Points<br>• Creation/Use of Staging Area (on land)<br>• Access of personnel by foot traffic<br>• Temporary Storage (on land)<br>• Decontamination |
| Special considerations needed, high level of concern | | | | | |
| All Habitats of Occurrence | | | | | |
| Natural attenuation: allow habitat to recover naturally while monitoring<br>Locating, sampling, and monitoring: air, land, water (includes SCAT) | | | | | |
| **BMPs** | | | | | |
| 1. A wildlife monitoring plan<br>2. Buffer zones with the concurrence of USFWS.<br>3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.<br>4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats. | | | | | |
| USFWS Lead Office Contact: | | | | | |

| **Copperbelly Watersnake, N. DPS** | **Status** | **Threatened (1997)** | 62 FR 4183 |
|---|---|---|---|

| **Scientific Name** | *Nerodia erythrogaster neglecta* | **Critical Habitat** | N/A |
|---|---|---|---|

**Habitat**[1]

| Shoreline (beach/land) | Ports, Canals, Industrial Areas | Rivers and Streams | Bays and Estuaries | Ponds and Lakes | Wetlands | Upland Areas |
|---|---|---|---|---|---|---|
| No | No | No | No | Yes | Yes | Yes |

**States Relevant**

| IL | IN | MI | MN | OH | WI |
|---|---|---|---|---|---|
| | X | X | | X | |

**High-Risk Response Actions and Activities**

May affect, not likely to adversely affect due to insignificant or discountable effects

| Wetlands | Upland Areas |
|---|---|
| • Deterrence and Hazing<br>• Use of Vessels<br>• Waste Handling | • Deterrence and Hazing<br>• Use of Aircraft<br>• Waste Handling |

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

| Ponds and Lakes | Wetlands | Upland Areas |
|---|---|---|
| • Dikes or Berms<br>• Access of personnel by foot traffic | • Booming<br>• Dikes or Berms<br>• Construction barriers, pits, and trenches<br>• Skimming<br>• Mechanical (non-chemical) sand cleaning (surface, <1 inch)<br>• Mechanical (non-chemical) sand cleaning and excavation (>1 inch)<br>• Manual removal / Cleaning of oil sediment, debris, or vegetation<br>• Detection of non-floating or submerged oil<br>• Recovery of non-floating or submerged oil<br>• Containment of non-floating or submerged oil<br>• Capture and care of contaminated species or recovery of contaminated carcasses<br>• Creation/Use of New Access Points<br>• Creation/Use of Staging Area (on land)<br>• Access of personnel by foot traffic<br>• Decontamination | • Booming<br>• Mechanical (non-chemical) sand cleaning (surface, <1 inch)<br>• Mechanical (non-chemical) sand cleaning and excavation (>1 inch)<br>• Manual removal / Cleaning of oil sediment, debris, or vegetation<br>• Capture and care of contaminated species or recovery of contaminated carcasses<br>• Use of Vehicles<br>• Creation/Use of New Access Points<br>• Creation/Use of Staging Area (on land)<br>• Access of personnel by foot traffic<br>• Temporary Storage (on land)<br>• Decontamination |

Special considerations needed, high level of concern

All Habitats of Occurrence

Natural attenuation: allow habitat to recover naturally while monitoring
Locating, sampling, and monitoring: air, land, water (includes SCAT)

**BMPs**

1. A wildlife monitoring plan
2. Buffer zones with the concurrence of USFWS.
3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.

| |
|---|
| 4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats. |
| USFWS Lead Office Contact: |

| **Eastern Massasauga** | **Status** | **Threatened (2016)** | 81 FR 67193 |
|---|---|---|---|

| **Scientific Name** | *Sistrurus catenatus* | **Critical Habitat** | N/A |
|---|---|---|---|

**Habitat**[1]

| Shoreline (beach/land) | Ports, Canals, Industrial Areas | Rivers and Streams | Bays and Estuaries | Ponds and Lakes | Wetlands | Upland Areas |
|---|---|---|---|---|---|---|
| No | No | No | No | Yes | Yes | Yes |

**States Relevant**

| IL | IN | MI | MN | OH | WI |
|---|---|---|---|---|---|
| | X | X | | X | |

**High-Risk Response Actions and Activities**

May affect, not likely to adversely affect due to insignificant or discountable effects

| Wetlands | Upland Areas |
|---|---|
| • Deterrence and Hazing<br>• Use of Vessels<br>• Waste Handling | • Deterrence and Hazing<br>• Use of Aircraft<br>• Waste Handling |

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

| Ponds and Lakes | Wetlands | Upland Areas |
|---|---|---|
| • Dikes or Berms<br>• Access of personnel by foot traffic | • Booming<br>• Dikes or Berms<br>• Construction barriers, pits, and trenches<br>• Skimming<br>• Mechanical (non-chemical) sand cleaning (surface, <1 inch)<br>• Mechanical (non-chemical) sand cleaning and excavation (>1 inch)<br>• Manual removal / Cleaning of oil sediment, debris, or vegetation<br>• Detection of non-floating or submerged oil<br>• Recovery of non-floating or submerged oil<br>• Containment of non-floating or submerged oil<br>• Capture and care of contaminated species or recovery of contaminated carcasses<br>• Creation/Use of New Access Points<br>• Creation/Use of Staging Area (on land)<br>• Access of personnel by foot traffic<br>• Decontamination | • Booming<br>• Mechanical (non-chemical) sand cleaning (surface, <1 inch)<br>• Mechanical (non-chemical) sand cleaning and excavation (>1 inch)<br>• Manual removal / Cleaning of oil sediment, debris, or vegetation<br>• Capture and care of contaminated species or recovery of contaminated carcasses<br>• Use of Vehicles<br>• Creation/Use of New Access Points<br>• Creation/Use of Staging Area (on land)<br>• Access of personnel by foot traffic<br>• Temporary Storage (on land)<br>• Decontamination |

Special considerations needed, high level of concern

All Habitats of Occurrence

Natural attenuation: allow habitat to recover naturally while monitoring
Locating, sampling, and monitoring: air, land, water (includes SCAT)

**BMPs**

1. A wildlife monitoring plan
2. Buffer zones with the concurrence of USFWS.
3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.
4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

USFWS Lead Office Contact:

| **Illinois Chorus Frog** | **Status** | **Under Review** | Unlisted |
|---|---|---|---|
| **Scientific Name** | *Pseudacris illinoensis* | **Critical Habitat** | N/A |

| **Habitat**[1] | | | | | | |
|---|---|---|---|---|---|---|
| Shoreline (beach/land) | Ports, Canals, Industrial Areas | Rivers and Streams | Bays and Estuaries | Ponds and Lakes | Wetlands | Upland Areas |
| No | No | Yes | No | Yes | Yes | Yes |

| **States Relevant** | | | | | |
|---|---|---|---|---|---|
| **IL** | **IN** | **MI** | **MN** | **OH** | **WI** |
| X | | | | | |

**High-Risk Response Actions and Activities**

May affect, not likely to adversely affect due to insignificant or discountable effects

| Rivers and Stream | Ponds and Lakes | Wetlands/Upland Areas |
|---|---|---|
| • Culvert Blocking<br>• Deployment of buoys | • Deterrence and Hazing<br>• Use of Vessels<br>• Temporary storage (on water) | • Deterrence and Hazing<br>• Use of Vessels |

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

| Rivers and Streams | Ponds and Lakes | Wetlands/ Upland Areas |
|---|---|---|
| • Booming<br>• Construction barriers, pits, and trenches<br>• Skimming<br>• Vacuuming<br>• Sorbents<br>• Flushing<br>• Steam Cleaning<br>• Sandblasting<br>• Manual removal / Cleaning of oil sediment, debris, or vegetation<br>• Detection of non-floating or submerged oil<br>• Recovery of non-floating or submerged oil<br>• Containment of non-floating or submerged oil<br>• Deterrence and Hazing<br>• Capture and care of contaminated species or recovery of contaminated carcasses<br>• Use of Aircraft<br>• Use of Vessels<br>• Use of Vehicles<br>• Use of machinery/supporting equipment<br>• Creation/Use of New Access Points<br>• Creation/Use of Staging Area (on land)<br>• Natural Attenuation – allow habitat to recover naturally while monitoring<br>• Locating, Sampling, and monitoring: Air, Land, water (includes SCAT)<br>• Access of personnel by foot traffic<br>• Waste Handling<br>• Temporary Storage (on water)<br>• Temporary Storage (on land)<br>• Decanting<br>• Decontamination | • Booming<br>• Dikes or Berms<br>• Construction barriers, pits, and trenches<br>• Skimming<br>• Vacuuming<br>• Sorbents<br>• Flooding<br>• Flushing<br>• Steam Cleaning<br>• Sandblasting<br>• Manual removal / Cleaning of oil sediment, debris, or vegetation<br>• Detection of non-floating or submerged oil<br>• Recovery of non-floating or submerged oil<br>• Containment of non-floating or submerged oil<br>• Capture and care of contaminated species or recovery of contaminated carcasses<br>• Use of Vehicles<br>• Use of machinery/supporting equipment<br>• Creation/Use of New Access Points<br>• Creation/Use of Staging Area (on land)<br>• Access of personnel by foot traffic<br>• Waste Handling<br>• Temporary Storage (on land)<br>• Decanting<br>• Decontamination | • Booming<br>• Dikes or Berms<br>• Construction barriers, pits, and trenches<br>• Skimming<br>• Vacuuming<br>• Sorbents<br>• Flooding<br>• Flushing<br>• Mechanical (non-chemical) sand cleaning (surface, <1 inch)<br>• Mechanical (non-chemical) sand cleaning and excavation (>1 inch)<br>• Manual removal / Cleaning of oil sediment, debris, or vegetation<br>• Detection of non-floating or submerged oil<br>• Recovery of non-floating or submerged oil<br>• Containment of non-floating or submerged oil<br>• Capture and care of contaminated species or recovery of contaminated carcasses<br>• Creation/Use of New Access Points<br>• Creation/Use of Staging Area (on land)<br>• Access of personnel by foot traffic<br>• Waste Handling<br>• Decanting<br>• Decontamination |

| Special considerations needed, high level of concern |
|---|
| Ponds and Lakes / Wetlands / Upland Areas |
| Natural attenuation: allow habitat to recover naturally while monitoring<br>Locating, sampling, and monitoring: air, land, water (includes SCAT) |
| **BMPs** |
| 1. A wildlife monitoring plan.<br>2. Buffer zones with the concurrence of USFWS.<br>3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.<br>4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats. |
| USFWS Lead Office Contact: |

| **Spotted Turtle** | **Status** | **Under Review** | Unlisted |
|---|---|---|---|
| **Scientific Name** | *Clemmys guttata* | **Critical Habitat** | N/A |

| **Habitat**[1] | | | | | | |
|---|---|---|---|---|---|---|
| Shoreline (beach/land) | Ports, Canals, Industrial Areas | Rivers and Streams | Bays and Estuaries | Ponds and Lakes | Wetlands | Upland Areas |
| No | No | Yes | Yes | Yes | Yes | Yes |

| **States Relevant** | | | | | |
|---|---|---|---|---|---|
| **IL** | **IN** | **MI** | **MN** | **OH** | **WI** |
| X | X | X | | X | |

**High-Risk Response Actions and Activities**

May affect, not likely to adversely affect due to insignificant or discountable effects

| Rivers and Streams | Bays and Estuaries | Ponds and Lakes | Wetlands | Upland Areas |
|---|---|---|---|---|
| • Dikes or Berms<br>• Culvert Blocking<br>• Flushing<br>• Deterrence and Hazing<br>• Use of Aircraft<br>• Deployment of buoys<br>• Waste Handling<br>• Temporary Storage (on water) | • Dikes or Berms<br>• Flooding<br>• Mechanical (non-chemical) sand cleaning (surface, <1 inch)<br>• Mechanical (non-chemical) sand cleaning and excavation (>1 inch)<br>• Deterrence and Hazing<br>• Use of Aircraft<br>• Deployment of buoys<br>• Waste Handling<br>• Temporary Storage (on water) | • Flushing<br>• Deterrence and Hazing<br>• Use of Aircraft<br>• Waste Handling<br>• Temporary Storage (on water) | • Deterrence and Hazing<br>• Use of Aircraft<br>• Use of Vessels<br>• Waste Handling | • Deterrence and Hazing<br>• Use of Aircraft<br>• Waste Handling |

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

| Rivers and Streams | Bays and Estuaries | Ponds and Lakes | Wetlands | Upland Areas |
|---|---|---|---|---|
| • Booming<br>• Construction barriers, pits, and trenches<br>• Skimming<br>• Vacuuming<br>• Sorbents<br>• Steam Cleaning<br>• Sandblasting<br>• Manual removal / Cleaning of oil sediment, debris, or vegetation<br>• Detection of non-floating or submerged oil<br>• Recovery of non-floating or submerged oil<br>• Containment of non-floating or submerged oil | • Booming<br>• Construction barriers, pits, and trenches<br>• Skimming<br>• Vacuuming<br>• Sorbents<br>• Manual removal / Cleaning of oil sediment, debris, or vegetation<br>• Detection of non-floating or submerged oil<br>• Recovery of non-floating or submerged oil<br>• Containment of non-floating or submerged oil<br>• Capture and care of contaminated | • Booming<br>• Dikes or Berms<br>• Construction barriers, pits, and trenches<br>• Skimming<br>• Vacuuming<br>• Sorbents<br>• Steam Cleaning<br>• Sandblasting<br>• Manual removal / Cleaning of oil sediment, debris, or vegetation<br>• Detection of non-floating or submerged oil<br>• Recovery of non-floating or submerged oil | • Booming<br>• Skimming<br>• Mechanical (non-chemical) sand cleaning (surface, <1 inch)<br>• Mechanical (non-chemical) sand cleaning and excavation (>1 inch)<br>• Manual removal / Cleaning of oil sediment, debris, or vegetation<br>• Detection of non-floating or submerged oil<br>• Recovery of non-floating or submerged oil | • Booming<br>• Skimming<br>• Mechanical (non-chemical) sand cleaning (surface, <1 inch)<br>• Mechanical (non-chemical) sand cleaning and excavation (>1 inch)<br>• Manual removal / Cleaning of oil sediment, debris, or vegetation<br>• Capture and care of contaminated species or recovery of contaminated carcasses<br>• Use of Vehicles |

| | | | | |
|---|---|---|---|---|
| • Capture and care of contaminated species or recovery of contaminated carcasses<br>• Use of Vessels<br>• Use of Vehicles<br>• Use of machinery/supporting equipment<br>• Creation/Use of New Access Points<br>• Creation/Use of Staging Area (on land)<br>• Temporary Storage (on land)<br>• Decanting<br>• Decontamination | species or recovery of contaminated carcasses<br>• Use of Vessels<br>• Use of Vehicles<br>• Use of machinery/supporting equipment<br>• Creation/Use of New Access Points<br>• Creation/Use of Staging Area (on land)<br>• Access of personnel by foot traffic<br>• Temporary Storage (on land)<br>• Decanting<br>• Decontamination | • Containment of non-floating or submerged oil<br>• Capture and care of contaminated species or recovery of contaminated carcasses<br>• Use of Vessels<br>• Use of Vehicles<br>• Use of machinery/supporting equipment<br>• Creation/Use of New Access Points<br>• Creation/Use of Staging Area (on land)<br>• Access of personnel by foot traffic<br>• Temporary Storage (on land)<br>• Decontamination | • Containment of non-floating or submerged oil<br>• Capture and care of contaminated species or recovery of contaminated carcasses<br>• Creation/Use of New Access Points<br>• Creation/Use of Staging Area (on land)<br>• Access of personnel by foot traffic<br>• Decontamination | • Creation/Use of New Access Points<br>• Creation/Use of Staging Area (on land)<br>• Access of personnel by foot traffic<br>• Temporary Storage (on land)<br>• Decontamination |
| Special considerations needed, high level of concern | | | | |
| All Habitats of Occurrence | | | | |
| Natural attenuation: allow habitat to recover naturally while monitoring<br>Locating, sampling, and monitoring: air, land, water (includes SCAT) | | | | |
| **BMPs** | | | | |
| 1. A wildlife monitoring plan<br>2. Buffer zones with the concurrence of USFWS.<br>3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.<br>4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats. | | | | |
| USFWS Lead Office Contact: | | | | |

| **Streamside Salamander** | **Status** | **Under Review** | Unlisted |
|---|---|---|---|

| **Scientific Name** | *Ambystoma barbouri* | **Critical Habitat** | N/A |
|---|---|---|---|

**Habitat**[1]

| Shoreline (beach/land) | Ports, Canals, Industrial Areas | Rivers and Streams | Bays and Estuaries | Ponds and Lakes | Wetlands | Upland Areas |
|---|---|---|---|---|---|---|
| No | No | Yes | No | No | Yes | Yes |

**States Relevant**

| IL | IN | MI | MN | OH | WI |
|---|---|---|---|---|---|
| | X | | | X | |

**High-Risk Response Actions and Activities**

May affect, not likely to adversely affect due to insignificant or discountable effects

| Rivers and Streams | Wetlands | Upland Areas |
|---|---|---|
| • Use of Vessels<br>• Deployment of buoys<br>• Temporary Storage (on water) | • Use of Vessels | • Skimming<br>• Deterrence and Hazing |

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

| Rivers and Streams | Upland Areas |
|---|---|
| • Booming<br>• Dikes or Berms<br>• Construction barriers, pits, and trenches<br>• Culvert Blocking<br>• Skimming<br>• Vacuuming<br>• Sorbents<br>• Flooding<br>• Flushing<br>• Steam Cleaning<br>• Sandblasting<br>• Mechanical (non-chemical) sand cleaning (surface, <1 inch)<br>• Mechanical (non-chemical) sand cleaning and excavation (>1 inch)<br>• Manual removal / Cleaning of oil sediment, debris, or vegetation<br>• Detection of non-floating or submerged oil<br>• Recovery of non-floating or submerged oil<br>• Containment of non-floating or submerged oil<br>• Deterrence or Hazing<br>• Capture and care of contaminated species or recovery of contaminated carcasses<br>• Use of Vehicles<br>• Use of machinery/supporting equipment<br>• Creation/Use of New Access Points<br>• Creation/Use of Staging Area (on land)<br>• Waste Handling<br>• Temporary Storage (on land)<br>• Decanting<br>• Decontamination | • Booming<br>• Dikes or Berms<br>• Construction barriers, pits, and trenches<br>• Mechanical (non-chemical) sand cleaning (surface, <1 inch)<br>• Mechanical (non-chemical) sand cleaning and excavation (>1 inch)<br>• Manual removal / Cleaning of oil sediment, debris, or vegetation<br>• Capture and care of contaminated species or recovery of contaminated carcasses<br>• Use of Vehicles<br>• Creation/Use of New Access Points<br>• Creation/Use of Staging Area (on land)<br>• Access of personnel by foot traffic<br>• Waste Handling<br>• Temporary Storage (on land)<br>• Decontamination |

Special considerations needed, high level of concern

All Habitats of Occurrence

Natural attenuation: allow habitat to recover naturally while monitoring
Locating, sampling, and monitoring: air, land, water (includes SCAT)

| BMPs |
| --- |
| 1. A wildlife monitoring plan.<br>2. Buffer zones with the concurrence of USFWS.<br>3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.<br>4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats. |
| USFWS Lead Office Contact: |

| **Wood Turtle** | **Status** | **Under Review** | Unlisted |
|---|---|---|---|

| **Scientific Name** | *Glyptemys insculpta* | **Critical Habitat** | N/A |
|---|---|---|---|

**Habitat**[1]

| Shoreline (beach/land) | Ports, Canals, Industrial Areas | Rivers and Streams | Bays and Estuaries | Ponds and Lakes | Wetlands | Upland Areas |
|---|---|---|---|---|---|---|
| No | No | Yes | No | No | Yes | Yes |

**States Relevant**

| IL | IN | MI | MN | OH | WI |
|---|---|---|---|---|---|
| | | X | X | X | X |

**High-Risk Response Actions and Activities**

May affect, not likely to adversely affect due to insignificant or discountable effects

| Rivers and Streams | Wetlands | Upland Areas |
|---|---|---|
| • Flushing<br>• Deterrence or Hazing<br>• Use of Aircraft<br>• Deployment of buoys<br>• Waste Handling<br>• Temporary Storage (on water) | • Deterrence or Hazing<br>• Use of Aircraft<br>• Use of Vessels<br>• Waste Handling | • Deterrence or Hazing<br>• Use of Aircraft<br>• Waste Handling |

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

| Rivers and Streams | Wetlands | Upland Areas |
|---|---|---|
| • Booming<br>• Dikes or Berms<br>• Construction barriers, pits, and trenches<br>• Culvert Blocking<br>• Skimming<br>• Vacuuming<br>• Sorbents<br>• Flooding<br>• Steam Cleaning<br>• Sandblasting<br>• Mechanical (non-chemical) sand cleaning (surface, <1 inch)<br>• Mechanical (non-chemical) sand cleaning and excavation (>1 inch)<br>• Manual removal / Cleaning of oil sediment, debris, or vegetation<br>• Detection of non-floating or submerged oil<br>• Recovery of non-floating or submerged oil<br>• Containment of non-floating or submerged oil<br>• Capture and care of contaminated species or recovery of contaminated carcasses<br>• Use of Vessels<br>• Use of Vehicles<br>• Use of machinery/supporting equipment<br>• Creation/Use of New Access Points<br>• Creation/Use of Staging Area (on land)<br>• Temporary Storage (on land)<br>• Decanting | • Booming<br>• Skimming<br>• Mechanical (non-chemical) sand cleaning (surface, <1 inch)<br>• Mechanical (non-chemical) sand cleaning and excavation (>1 inch)<br>• Manual removal / Cleaning of oil sediment, debris, or vegetation<br>• Detection of non-floating or submerged oil<br>• Recovery of non-floating or submerged oil<br>• Containment of non-floating or submerged oil<br>• Capture and care of contaminated species or recovery of contaminated carcasses<br>• Creation/Use of New Access Points<br>• Creation/Use of Staging Area (on land)<br>• Access of personnel by foot traffic<br>• Temporary Storage (on land)<br>• Decontamination | • Booming<br>• Skimming<br>• Mechanical (non-chemical) sand cleaning (surface, <1 inch)<br>• Mechanical (non-chemical) sand cleaning and excavation (>1 inch)<br>• Manual removal / Cleaning of oil sediment, debris, or vegetation<br>• Capture and care of contaminated species or recovery of contaminated carcasses<br>• Use of Vehicles<br>• Creation/Use of New Access Points<br>• Creation/Use of Staging Area (on land)<br>• Access of personnel by foot traffic<br>• Temporary Storage (on land)<br>• Decontamination |

| Special considerations needed, high level of concern |
|---|
| All Habitats of Occurrence |
| Natural attenuation: allow habitat to recover naturally while monitoring<br>Locating, sampling, and monitoring: air, land, water (includes SCAT) |
| **BMPs** |
| 1. A wildlife monitoring plan<br>2. Buffer zones with the concurrence of USFWS.<br>3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.<br>4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats. |
| USFWS Lead Office Contact: |

Mammals

| **Canada Lynx** | **Status** | **Threatened (2000)** | 65 FR 16053 |
|---|---|---|---|

| **Scientific Name** | *Lynx canadensis* | **Critical Habitat** | Designated |
|---|---|---|---|

**Habitat**[1]

| Shoreline (beach/land) | Ports, Canals, Industrial Areas | Rivers and Streams | Bays and Estuaries | Ponds and Lakes | Wetlands | Upland Areas |
|---|---|---|---|---|---|---|
| No | No | No | No | No | No | Yes |

**States Relevant**

| IL | IN | MI | MN | OH | WI |
|---|---|---|---|---|---|
| | | X | X | | X |

**High-Risk Response Actions and Activities**

May affect, not likely to adversely affect due to insignificant or discountable effects

Upland Areas

- Booming
- Skimming
- Manual removal / Cleaning of oil sediment, debris, or vegetation
- Deterrence or Hazing
- Capture and care of contaminated species or recovery of contaminated carcasses
- Creation/Use of New Access Points
- Creation/Use of Staging Area (on land)
- Access of personnel by foot traffic
- Waste Handling
- Decontamination
- Temporary Storage (on land)

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

Upland Areas

- Use of Aircraft
- Use of Vehicles

Special considerations needed, high level of concern

All Habitats of Occurrence

Natural attenuation: allow habitat to recover naturally while monitoring
Locating, sampling, and monitoring: air, land, water (includes SCAT)

**BMPs**

1. A wildlife monitoring plan.
2. Buffer zones with the concurrence of USFWS.
3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.
4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

USFWS Lead Office Contact:

| **Gray Bat** | **Status** | **Endangered (1976)** | 41 FR 17736 |
|---|---|---|---|

| **Scientific Name** | *Myotis grisescens* | **Critical Habitat** | N/A |
|---|---|---|---|

**Habitat**[1]

| Shoreline (beach/land) | Ports, Canals, Industrial Areas | Rivers and Streams | Bays and Estuaries | Ponds and Lakes | Wetlands | Upland Areas |
|---|---|---|---|---|---|---|
| No | No | Yes | No | Yes | No | Yes |

**States Relevant**

| IL | IN | MI | MN | OH | WI |
|---|---|---|---|---|---|
| X | X | | | | |

**High-Risk Response Actions and Activities**

May affect, not likely to adversely affect due to insignificant or discountable effects

| Rivers and Streams | Ponds and Lakes | Upland Areas |
|---|---|---|
| • Booming<br>• Dikes or Berms<br>• Construction barriers, pits, and trenches<br>• Culvert Blocking<br>• Skimming<br>• Vacuuming<br>• Sorbents<br>• Flooding<br>• Flushing<br>• Steam Cleaning<br>• Mechanical (non-chemical) sand cleaning (surface, <1 inch)<br>• Mechanical (non-chemical) sand cleaning and excavation (>1 inch)<br>• Manual removal / Cleaning of oil sediment, debris, or vegetation<br>• Deterrence or Hazing<br>• Capture and care of contaminated species or recovery of contaminated carcasses<br>• Waste Handling | • Booming<br>• Dikes or Berms<br>• Construction barriers, pits, and trenches<br>• Culvert Blocking<br>• Skimming<br>• Vacuuming<br>• Sorbents<br>• Flooding<br>• Flushing<br>• Steam Cleaning<br>• Mechanical (non-chemical) sand cleaning (surface, <1 inch)<br>• Mechanical (non-chemical) sand cleaning and excavation (>1 inch)<br>• Manual removal / Cleaning of oil sediment, debris, or vegetation<br>• Deterrence or Hazing<br>• Capture and care of contaminated species or recovery of contaminated carcasses<br>• Waste Handling | • Manual removal / Cleaning of oil sediment, debris, or vegetation<br>• Waste Handling |

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

| Rivers and Streams | Ponds and Lakes | Upland Areas |
|---|---|---|
| • Sandblasting<br>• Use of Aircraft<br>• Use of Vessels<br>• Use of Vehicles<br>• Use of machinery/supporting equipment<br>• Creation/Use of New Access Points<br>• Creation/Use of Staging Area (on land)<br>• Temporary Storage (on land)<br>• Decontamination | • Sandblasting<br>• Use of Aircraft<br>• Use of Vessels<br>• Use of Vehicles<br>• Use of machinery/supporting equipment<br>• Creation/Use of New Access Points<br>• Creation/Use of Staging Area (on land)<br>• Temporary Storage (on land)<br>• Decontamination | • Booming<br>• Skimming<br>• Deterrence or Hazing<br>• Capture and care of contaminated species or recovery of contaminated carcasses<br>• Use of Aircraft<br>• Creation/Use of New Access Points<br>• Creation/Use of Staging Area (on land)<br>• Access of personnel by foot traffic<br>• Temporary Storage (on land)<br>• Decontamination |

Special considerations needed, high level of concern

All Habitats of Occurrence

| |
|---|
| Natural attenuation: allow habitat to recover naturally while monitoring<br>Locating, sampling, and monitoring: air, land, water (includes SCAT) |
| **BMPs** |
| 1. A wildlife monitoring plan.<br>2. Buffer zones with the concurrence of USFWS.<br>3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.<br>4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats. |
| USFWS Lead Office Contact: |

| **Gray Wolf** | **Status** | **Delisted Due to Recovery** | Unlisted |
|---|---|---|---|

| **Scientific Name** | *Canis lupus* | **Critical Habitat** | N/A |
|---|---|---|---|

**Habitat**[1]

| Shoreline (beach/land) | Ports, Canals, Industrial Areas | Rivers and Streams | Bays and Estuaries | Ponds and Lakes | Wetlands | Upland Areas |
|---|---|---|---|---|---|---|
| No | No | No | No | No | No | Yes |

**States Relevant**

| IL | IN | MI | MN | OH | WI |
|---|---|---|---|---|---|
| | | X | X | | X |

**High-Risk Response Actions and Activities**

May affect, not likely to adversely affect due to insignificant or discountable effects

Upland Areas

- Booming
- Skimming
- Manual removal / Cleaning of oil sediment, debris, or vegetation
- Deterrence or Hazing
- Capture and care of contaminated species or recovery of contaminated carcasses
- Creation/Use of New Access Points
- Creation/Use of Staging Area (on land)
- Access of personnel by foot traffic
- Waste Handling
- Decontamination
- Temporary Storage (on land)

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

Upland Areas

- Use of Aircraft
- Use of Vehicles

Special considerations needed, high level of concern

All Habitats of Occurrence

Natural attenuation: allow habitat to recover naturally while monitoring
Locating, sampling, and monitoring: air, land, water (includes SCAT)

**BMPs**

1. A wildlife monitoring plan.
2. Buffer zones with the concurrence of USFWS.
3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.
4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

USFWS Lead Office Contact:

| **Indiana Bat** | **Status** | **Endangered (1967)** | 32 FR 4001 |
|---|---|---|---|

| **Scientific Name** | *Myotis sodalis* | **Critical Habitat** | Designated |
|---|---|---|---|

**Habitat**[1]

| Shoreline (beach/land) | Ports, Canals, Industrial Areas | Rivers and Streams | Bays and Estuaries | Ponds and Lakes | Wetlands | Upland Areas |
|---|---|---|---|---|---|---|
| No | No | No | No | No | Yes | Yes |

**States Relevant**

| IL | IN | MI | MN | OH | WI |
|---|---|---|---|---|---|
| X | X | X | | X | |

**High-Risk Response Actions and Activities**

May affect, not likely to adversely affect due to insignificant or discountable effects

All Habitats of Occurrence

- Manual removal / Cleaning of oil sediment, debris, or vegetation
- Use of Vehicles
- Waste Handling

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

All Habitats of Occurrence

- Booming
- Skimming
- Deterrence or Hazing
- Capture and care of contaminated species or recovery of contaminated carcasses
- Use of Aircraft
- Creation/Use of New Access Points
- Creation/Use of Staging Area (on land)
- Access of personnel by foot traffic
- Temporary Storage (on land)
- Decontamination

Special considerations needed, high level of concern

All Habitats of Occurrence

Natural attenuation: allow habitat to recover naturally while monitoring
Locating, sampling, and monitoring: air, land, water (includes SCAT)

**BMPs**

1. A wildlife monitoring plan.
2. Buffer zones with the concurrence of USFWS.
3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.
4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

USFWS Lead Office Contact:

| **Little Brown Bat** | **Status** | **Under Review** | Unlisted |
|---|---|---|---|

| **Scientific Name** | *Myotis lucifugus* | **Critical Habitat** | N/A |
|---|---|---|---|

**Habitat**[1]

| Shoreline (beach/land) | Ports, Canals, Industrial Areas | Rivers and Streams | Bays and Estuaries | Ponds and Lakes | Wetlands | Upland Areas |
|---|---|---|---|---|---|---|
| No | No | No | No | No | No | Yes |

**States Relevant**

| IL | IN | MI | MN | OH | WI |
|---|---|---|---|---|---|
| X | X | X | X | X | X |

**High Risk Response Actions and Activities**

May affect, not likely to adversely affect due to insignificant or discountable effects

Upland Areas

- Manual removal / Cleaning of oil sediment, debris, or vegetation
- Use of Vehicles
- Waste Handling

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

Upland Areas

- Booming
- Skimming
- Deterrence or Hazing
- Capture and care of contaminated species or recovery of contaminated carcasses
- Use of Aircraft
- Creation/Use of New Access Points
- Creation/Use of Staging Area (on land)
- Access of personnel by foot traffic
- Temporary Storage (on land)
- Decontamination

Special considerations needed, high level of concern

All Habitats of Occurrence

Natural attenuation: allow habitat to recover naturally while monitoring
Locating, sampling, and monitoring: air, land, water (includes SCAT)

**BMPs**

1. A wildlife monitoring plan.
2. Buffer zones with the concurrence of USFWS.
3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.
4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

USFWS Lead Office Contact:

| **Northern Bog Lemming** | **Status** | **Under Review** | Unlisted |
|---|---|---|---|

| **Scientific Name** | *Synaptomys borealis* | **Critical Habitat** | N/A |
|---|---|---|---|

**Habitat**[1]

| Shoreline (beach/land) | Ports, Canals, Industrial Areas | Rivers and Streams | Bays and Estuaries | Ponds and Lakes | Wetlands | Upland Areas |
|---|---|---|---|---|---|---|
| No | No | No | No | No | Yes | No |

**States Relevant**

| IL | IN | MI | MN | OH | WI |
|---|---|---|---|---|---|
| | | | X | | |

**High-Risk Response Actions and Activities**

May affect, not likely to adversely affect due to insignificant or discountable effects

Wetlands

Waste Handling

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

Wetlands

- Booming
- Culvert Blocking
- Flooding
- Flushing
- Sandblasting
- Mechanical (non-chemical) sand cleaning (surface, <1 inch)
- Mechanical (non-chemical) sand cleaning and excavation (>1 inch)
- Manual removal / Cleaning of oil sediment, debris, or vegetation
- Deterrence or Hazing
- Capture and care of contaminated species or recovery of contaminated carcasses
- Use of Aircraft
- Use of Vessels
- Creation/Use of New Access Points
- Creation/Use of Staging Area (on land)
- Access of personnel by foot traffic

Special considerations needed, high level of concern

All Habitats of Occurrence

Natural attenuation: allow habitat to recover naturally while monitoring
Locating, sampling, and monitoring: air, land, water (includes SCAT)

**BMPs**

1. A wildlife monitoring plan.
2. Buffer zones with the concurrence of USFWS.
3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.
4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

USFWS Lead Office Contact:

| **Northern Long-eared Bat** | **Status** | **Threatened (2015)** | 80 FR 17973 |
|---|---|---|---|

| **Scientific Name** | *Myotis septentrionalis* | **Critical Habitat** | N/A |
|---|---|---|---|

**Habitat**[1]

| Shoreline (beach/land) | Ports, Canals, Industrial Areas | Rivers and Streams | Bays and Estuaries | Ponds and Lakes | Wetlands | Upland Areas |
|---|---|---|---|---|---|---|
| No | No | No | No | No | Yes | Yes |

**States Relevant**

| IL | IN | MI | MN | OH | WI |
|---|---|---|---|---|---|
| X | X | X | X | X | X |

**High-Risk Response Actions and Activities**

May affect, not likely to adversely affect due to insignificant or discountable effects

All Habitats of Occurrence

- Manual removal / Cleaning of oil sediment, debris, or vegetation
- Use of Vehicles
- Waste Handling

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

All Habitats of Occurrence

- Booming
- Skimming
- Deterrence or Hazing
- Capture and care of contaminated species or recovery of contaminated carcasses
- Use of Aircraft
- Creation/Use of New Access Points
- Creation/Use of Staging Area (on land)
- Access of personnel by foot traffic
- Temporary Storage (on land)
- Decontamination

Special considerations needed, high level of concern

All Habitats of Occurrence

Natural attenuation: allow habitat to recover naturally while monitoring
Locating, sampling, and monitoring: air, land, water (includes SCAT)

**BMPs**

1. A wildlife monitoring plan.
2. Buffer zones with the concurrence of USFWS.
3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.
4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

USFWS Lead Office Contact:

| **Plains Spotted Skunk** | **Status** | **Under Review** | Unlisted |
|---|---|---|---|

| **Scientific Name** | *Spilogale puturius interrupta* | **Critical Habitat** | N/A |
|---|---|---|---|

**Habitat**[1]

| Shoreline (beach/land) | Ports, Canals, Industrial Areas | Rivers and Streams | Bays and Estuaries | Ponds and Lakes | Wetlands | Upland Areas |
|---|---|---|---|---|---|---|
| No | No | No | No | No | No | Yes |

**States Relevant**

| IL | IN | MI | MN | OH | WI |
|---|---|---|---|---|---|
| | | | X | | |

**High-Risk Response Actions and Activities**

May affect, not likely to adversely affect due to insignificant or discountable effects

Upland Areas

- Booming
- Skimming
- Manual removal / Cleaning of oil sediment, debris, or vegetation
- Deterrence or Hazing
- Capture and care of contaminated species or recovery of contaminated carcasses
- Creation/Use of New Access Points
- Creation/Use of Staging Area (on land)
- Access of personnel by foot traffic
- Waste Handling
- Temporary Storage (on land)
- Decontamination

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

Upland Areas

- Use of Aircraft
- Use of Vehicles

Special considerations needed, high level of concern

All Habitats of Occurrence

Natural attenuation: allow habitat to recover naturally while monitoring
Locating, sampling, and monitoring: air, land, water (includes SCAT)

**BMPs**

1. A wildlife monitoring plan.
2. Buffer zones with the concurrence of USFWS.
3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.
4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

USFWS Lead Office Contact:

| **Prairie Gray Fox** | **Status** | **Under Review** | Unlisted |
|---|---|---|---|

| **Scientific Name** | *Urocyon cinereoargenteus ocythous* | **Critical Habitat** | N/A |
|---|---|---|---|

**Habitat**[1]

| Shoreline (beach/land) | Ports, Canals, Industrial Areas | Rivers and Streams | Bays and Estuaries | Ponds and Lakes | Wetlands | Upland Areas |
|---|---|---|---|---|---|---|
| No | No | No | No | No | No | Yes |

**States Relevant**

| IL | IN | MI | MN | OH | WI |
|---|---|---|---|---|---|
| | | | X | | X |

**High-Risk Response Actions and Activities**

May affect, not likely to adversely affect due to insignificant or discountable effects

Upland Areas

- Booming
- Skimming
- Manual removal / Cleaning of oil sediment, debris, or vegetation
- Deterrence or Hazing
- Capture and care of contaminated species or recovery of contaminated carcasses
- Creation/Use of New Access Points
- Creation/Use of Staging Area (on land)
- Access of personnel by foot traffic
- Waste Handling
- Temporary Storage (on land)
- Decontamination

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

Upland Areas

- Use of Aircraft
- Use of Vehicles

Special considerations needed, high level of concern

All Habitats of Occurrence

Natural attenuation: allow habitat to recover naturally while monitoring
Locating, sampling, and monitoring: air, land, water (includes SCAT)

**BMPs**

1. A wildlife monitoring plan.
2. Buffer zones with the concurrence of USFWS.
3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.
4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

USFWS Lead Office Contact:

| **Tricolored Bat** | | **Status** | **Under Review** | Unlisted |
|---|---|---|---|---|
| **Scientific Name** | *Perimyotis subflavus* | **Critical Habitat** | N/A | |

| **Habitat**[1] | | | | | | |
|---|---|---|---|---|---|---|
| Shoreline (beach/land) | Ports, Canals, Industrial Areas | Rivers and Streams | Bays and Estuaries | Ponds and Lakes | Wetlands | Upland Areas |
| No | No | Yes | No | Yes | No | Yes |

| **States Relevant** | | | | | |
|---|---|---|---|---|---|
| **IL** | **IN** | **MI** | **MN** | **OH** | **WI** |
| X | X | X | X | X | X |

**High-Risk Response Actions and Activities**

May affect, not likely to adversely affect due to insignificant or discountable effects

| Rivers and Streams | Ponds and Lakes | Upland Areas |
|---|---|---|
| • Booming<br>• Dikes or Berms<br>• Construction barriers, pits, and trenches<br>• Culvert Blocking<br>• Skimming<br>• Vacuuming<br>• Sorbents<br>• Flooding<br>• Flushing<br>• Steam Cleaning<br>• Mechanical (non-chemical) sand cleaning (surface, <1 inch)<br>• Mechanical (non-chemical) sand cleaning and excavation (>1 inch)<br>• Manual removal / Cleaning of oil sediment, debris, or vegetation<br>• Deterrence or Hazing<br>• Capture and care of contaminated species or recovery of contaminated carcasses<br>• Waste Handling | • Booming<br>• Dikes or Berms<br>• Construction barriers, pits, and trenches<br>• Skimming<br>• Vacuuming<br>• Sorbents<br>• Flooding<br>• Flushing<br>• Steam Cleaning<br>• Mechanical (non-chemical) sand cleaning (surface, <1 inch)<br>• Mechanical (non-chemical) sand cleaning and excavation (>1 inch)<br>• Manual removal / Cleaning of oil sediment, debris, or vegetation<br>• Deterrence or Hazing<br>• Capture and care of contaminated species or recovery of contaminated carcasses<br>• Waste Handling | • Manual removal / Cleaning of oil sediment, debris, or vegetation<br>• Use of Vehicles<br>• Waste Handling |

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

| Rivers and Streams | Ponds and Lakes | Upland Areas |
|---|---|---|
| • Sandblasting<br>• Use of Aircraft<br>• Use of Vessels<br>• Use of Vehicles<br>• Use of machinery/supporting equipment<br>• Creation/Use of New Access Points<br>• Creation/Use of Staging Area (on land)<br>• Temporary Storage (on land)<br>• Decontamination | • Sandblasting<br>• Use of Aircraft<br>• Use of Vessels<br>• Use of Vehicles<br>• Use of machinery/supporting equipment<br>• Creation/Use of New Access Points<br>• Creation/Use of Staging Area (on land)<br>• Temporary Storage (on land)<br>• Decontamination | • Booming<br>• Skimming<br>• Deterrence or Hazing<br>• Capture and care of contaminated species or recovery of contaminated carcasses<br>• Use of Aircraft<br>• Creation/Use of New Access Points<br>• Creation/Use of Staging Area (on land)<br>• Access of personnel by foot traffic<br>• Temporary Storage (on land)<br>• Decontamination |

Special considerations needed, high level of concern

All Habitats of Occurrence

Natural attenuation: allow habitat to recover naturally while monitoring
Locating, sampling, and monitoring: air, land, water (includes SCAT)

| BMPs |
| --- |
| 1. A wildlife monitoring plan.<br>2. Buffer zones with the concurrence of USFWS.<br>3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.<br>4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats. |
| USFWS Lead Office Contact: |

Birds

| **Eastern Black Rail** | **Status** | **Threatened (2020)** | 85 FR 63764 |
|---|---|---|---|

| **Scientific Name** | *Laterallus jamaicensis ssp. jamaicensis* | **Critical Habitat** | N/A |
|---|---|---|---|

**Habitat**[1]

| Shoreline (beach/land) | Ports, Canals, Industrial Areas | Rivers and Streams | Bays and Estuaries | Ponds and Lakes | Wetlands | Upland Areas |
|---|---|---|---|---|---|---|
| No | No | No | No | No | Yes | No |

**States Relevant**

| IL | IN | MI | MN | OH | WI |
|---|---|---|---|---|---|
| X | X | X | X | X | X |

**High Risk Response Actions and Activities**

May affect, not likely to adversely affect due to insignificant or discountable effects

Wetlands

Waste Handling

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

Wetlands

- Booming
- Dikes or Berms
- Construction barriers, pits, and trenches
- Skimming
- Flooding
- Flushing
- Mechanical (non-chemical) sand cleaning (surface, <1 inch)
- Mechanical (non-chemical) sand cleaning and excavation (>1 inch)
- Manual removal / Cleaning of oil sediment, debris, or vegetation
- Detection of non-floating or submerged oil
- Recovery of non-floating or submerged oil
- Deterrence or Hazing
- Capture and care of contaminated species or recovery of contaminated carcasses
- Use of Aircraft
- Use of Vessels
- Creation/Use of New Access Points
- Access of personnel by foot traffic
- Decontamination

Special considerations needed, high level of concern

All Habitats of Occurrence

Natural attenuation: allow habitat to recover while monitoring naturally
Locating, sampling, and monitoring: air, land, water (includes SCAT)

**BMPs**

1. A wildlife monitoring plan
2. Buffer zones with the concurrence of USFWS.
3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.
4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

USFWS Lead Office Contact:

| **Golden-winged Warbler** | **Status** | **Under Review** | Unlisted |
|---|---|---|---|

| **Scientific Name** | *Vermivora chrysoptera* | **Critical Habitat** | N/A |
|---|---|---|---|

**Habitat**[1]

| Shoreline (beach/land) | Ports, Canals, Industrial Areas | Rivers and Streams | Bays and Estuaries | Ponds and Lakes | Wetlands | Upland Areas |
|---|---|---|---|---|---|---|
| No | No | No | No | No | Yes | Yes |

**States Relevant**

| IL | IN | MI | MN | OH | WI |
|---|---|---|---|---|---|
| X | X | X | X | X | X |

**High Risk Response Actions and Activities**

May affect, not likely to adversely affect due to insignificant or discountable effects

| Wetlands | Upland Areas |
|---|---|
| Waste Handling | Waste Handling |

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

| Wetlands | Upland Areas |
|---|---|
| • Booming<br>• Dikes or Berms<br>• Construction barriers, pits, and trenches<br>• Skimming<br>• Flooding<br>• Flushing<br>• Mechanical (non-chemical) sand cleaning (surface, <1 inch)<br>• Mechanical (non-chemical) sand cleaning and excavation (>1 inch)<br>• Manual removal / Cleaning of oil sediment, debris, or vegetation<br>• Detection of non-floating or submerged oil<br>• Recovery of non-floating or submerged oil<br>• Deterrence or Hazing<br>• Capture and care of contaminated species or recovery of contaminated carcasses<br>• Use of Aircraft<br>• Use of Vessels<br>• Creation/Use of New Access Points<br>• Access of personnel by foot traffic<br>• Decontamination | • Booming<br>• Dikes or Berms<br>• Construction barriers, pits, and trenches<br>• Skimming<br>• Mechanical (non-chemical) sand cleaning (surface, <1 inch)<br>• Mechanical (non-chemical) sand cleaning and excavation (>1 inch)<br>• Manual removal / Cleaning of oil sediment, debris, or vegetation<br>• Deterrence or Hazing<br>• Capture and care of contaminated species or recovery of contaminated carcasses<br>• Use of Aircraft<br>• Creation/Use of New Access Points<br>• Creation/Use of Staging Area (on land)<br>• Access of personnel by foot traffic<br>• Temporary Storage (on land)<br>• Decontamination |

Special considerations needed, high level of concern

All Habitats of Occurrence

Natural attenuation: allow habitat to recover while monitoring naturally
Locating, sampling, and monitoring: air, land, water (includes SCAT)

**BMPs**

1. A wildlife monitoring plan
2. Buffer zones with the concurrence of USFWS.
3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.
4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

USFWS Lead Office Contact:

| **Piping Plover** | **Status** | **Endangered (1985)** | 50 FR 50726 |
|---|---|---|---|

| **Scientific Name** | *Charadrius melodus* | **Critical Habitat** | Designated |
|---|---|---|---|

**Habitat**[1]

| Shoreline (beach/land) | Ports, Canals, Industrial Areas | Rivers and Streams | Bays and Estuaries | Ponds and Lakes | Wetlands | Upland Areas |
|---|---|---|---|---|---|---|
| Yes | No | Yes | Yes | Yes | No | No |

**States Relevant**

| IL | IN | MI | MN | OH | WI |
|---|---|---|---|---|---|
| X | X | X | X | X | X |

**High Risk Response Actions and Activities**

May affect, not likely to adversely affect due to insignificant or discountable effects

All Habitats of Occurrence

Waste Handling

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

| Shorelines | Rivers and Streams | Bays and Estuaries | Ponds and Lakes |
|---|---|---|---|
| • Booming<br>• Dikes or Berms<br>• Skimming<br>• Vacuuming<br>• Sorbents<br>• Flooding<br>• Flushing<br>• Steam Cleaning<br>• Sandblasting<br>• Mechanical (non-chemical) sand cleaning (surface, <1 inch)<br>• Mechanical (non-chemical) sand cleaning and excavation (>1 inch)<br>• Manual removal / Cleaning of oil sediment, debris, or vegetation<br>• Deterrence or Hazing<br>• Capture and care of contaminated species or recovery of contaminated carcasses<br>• Use of Aircraft<br>• Use of Vehicles<br>• Use of machinery/supporting equipment<br>• Creation/Use of New Access Points<br>• Creation/Use of Staging Area (on land)<br>• Deployment of buoys<br>• Access of personnel by foot traffic<br>• Temporary Storage (on water)<br>• Temporary Storage (on land) | • Booming<br>• Dikes or Berms<br>• Construction barriers, pits, and trenches<br>• Skimming<br>• Vacuuming<br>• Sorbents<br>• Flooding<br>• Flushing<br>• Steam Cleaning<br>• Sandblasting<br>• Mechanical (non-chemical) sand cleaning (surface, <1 inch)<br>• Mechanical (non-chemical) sand cleaning and excavation (>1 inch)<br>• Manual removal / Cleaning of oil sediment, debris, or vegetation<br>• Detection of non-floating or submerged oil<br>• Recovery of non-floating or submerged oil<br>• Deterrence or Hazing<br>• Capture and care of contaminated species or recovery of contaminated carcasses<br>• Use of Aircraft<br>• Use of Vessels<br>• Use of Vehicles<br>• Use of machinery/supporting equipment<br>• Creation/Use of New Access Points<br>• Creation/Use of Staging Area (on land) | • Booming<br>• Dikes or Berms<br>• Construction barriers, pits, and trenches<br>• Skimming<br>• Vacuuming<br>• Sorbents<br>• Flooding<br>• Mechanical (non-chemical) sand cleaning (surface, <1 inch)<br>• Mechanical (non-chemical) sand cleaning and excavation (>1 inch)<br>• Manual removal / Cleaning of oil sediment, debris, or vegetation<br>• Detection of non-floating or submerged oil<br>• Recovery of non-floating or submerged oil<br>• Deterrence or Hazing<br>• Capture and care of contaminated species or recovery of contaminated carcasses<br>• Use of Aircraft<br>• Use of Vessels<br>• Use of Vehicles<br>• Use of machinery/supporting equipment<br>• Creation/Use of New Access Points<br>• Creation/Use of Staging Area (on land)<br>• Deployment of buoys<br>• Temporary Storage (on land) | • Booming<br>• Dikes or Berms<br>• Construction barriers, pits, and trenches<br>• Skimming<br>• Vacuuming<br>• Sorbents<br>• Flooding<br>• Flushing<br>• Steam Cleaning<br>• Sandblasting<br>• Mechanical (non-chemical) sand cleaning (surface, <1 inch)<br>• Mechanical (non-chemical) sand cleaning and excavation (>1 inch)<br>• Manual removal / Cleaning of oil sediment, debris, or vegetation<br>• Detection of non-floating or submerged oil<br>• Recovery of non-floating or submerged oil<br>• Deterrence or Hazing<br>• Capture and care of contaminated species or recovery of contaminated carcasses<br>• Use of Aircraft<br>• Use of Vessels<br>• Use of Vehicles<br>• Use of machinery/supporting equipment<br>• Creation/Use of New Access Points<br>• Creation/Use of Staging Area (on land) |

| | | | |
|---|---|---|---|
| • Decontamination | • Deployment of buoys<br>• Temporary Storage (on water)<br>• Temporary Storage (on land)<br>• Decanting<br>• Decontamination | • Decanting<br>• Decontamination | • Deployment of buoys<br>• Temporary Storage (on water)<br>• Temporary Storage (on land)<br>• Decontamination |
| Special considerations needed, high level of concern | | | |
| All Habitats of Occurrence | | | |
| Natural attenuation: allow habitat to recover while monitoring naturally<br>Locating, sampling, and monitoring: air, land, water (includes SCAT) | | | |
| **BMPs** | | | |
| 1. A wildlife monitoring plan<br>2. Buffer zones with the concurrence of USFWS.<br>3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.<br>4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats. | | | |
| USFWS Lead Office Contact: | | | |

| **Rufa Red Knot** | **Status** | **Threatened (2014)** | 79 FR 73705 |
|---|---|---|---|

| **Scientific Name** | *Calidiris canutus rufa* | **Critical Habitat** | N/A |
|---|---|---|---|

| **Habitat**[1] | | | | | | |
|---|---|---|---|---|---|---|
| Shoreline (beach/land) | Ports, Canals, Industrial Areas | Rivers and Streams | Bays and Estuaries | Ponds and Lakes | Wetlands | Upland Areas |
| Yes | No | Yes | Yes | Yes | No | No |

| **States Relevant** | | | | | |
|---|---|---|---|---|---|
| **IL** | **IN** | **MI** | **MN** | **OH** | **WI** |
| X | X | X | X | X | X |

**High Risk Response Actions and Activities**

May affect, not likely to adversely affect due to insignificant or discountable effects

| Shorelines | Rivers and Streams | Bays and Estuaries | Ponds and Lakes |
|---|---|---|---|
| Booming<br>Dikes or Berms<br>Skimming<br>Vacuuming<br>Access of personnel by foot traffic<br>Waste Handling | Booming<br>Skimming<br>Vacuuming<br>Waste Handling | Booming<br>Skimming<br>Vacuuming<br>Waste Handling | Booming<br>Skimming<br>Vacuuming<br>Waste Handling |

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

| Shorelines | Rivers and Streams | Bays and Estuaries | Ponds and Lakes |
|---|---|---|---|
| • Sorbents<br>• Flooding<br>• Flushing<br>• Steam Cleaning<br>• Sandblasting<br>• Mechanical (non-chemical) sand cleaning (surface, <1 inch)<br>• Mechanical (non-chemical) sand cleaning and excavation (>1 inch)<br>• Manual removal / Cleaning of oil sediment, debris, or vegetation<br>• Deterrence or Hazing<br>• Capture and care of contaminated species or recovery of contaminated carcasses<br>• Use of Aircraft<br>• Use of Vehicles<br>• Use of machinery/ supporting equipment<br>• Creation/Use of New Access Points<br>• Creation/Use of Staging Area (on land)<br>• Deployment of buoys<br>• Temporary Storage (on water)<br>• Temporary Storage (on land)<br>• Decontamination | • Dikes or Berms<br>• Construction barriers, pits, and trenches<br>• Sorbents<br>• Flooding<br>• Flushing<br>• Steam Cleaning<br>• Sandblasting<br>• Mechanical (non-chemical) sand cleaning (surface, <1 inch)<br>• Mechanical (non-chemical) sand cleaning and excavation (>1 inch)<br>• Manual removal / Cleaning of oil sediment, debris, or vegetation<br>• Detection of non-floating or submerged oil<br>• Recovery of non-floating or submerged oil<br>• Deterrence or Hazing<br>• Capture and care of contaminated species or recovery of contaminated carcasses<br>• Use of Aircraft<br>• Use of Vessels<br>• Use of Vehicles<br>• Use of machinery/supporting equipment<br>• Creation/Use of New Access Points | • Dikes or Berms<br>• Construction barriers, pits, and trenches<br>• Sorbents<br>• Flooding<br>• Mechanical (non-chemical) sand cleaning (surface, <1 inch)<br>• Mechanical (non-chemical) sand cleaning and excavation (>1 inch)<br>• Manual removal / Cleaning of oil sediment, debris, or vegetation<br>• Detection of non-floating or submerged oil<br>• Recovery of non-floating or submerged oil<br>• Deterrence or Hazing<br>• Capture and care of contaminated species or recovery of contaminated carcasses<br>• Use of Aircraft<br>• Use of Vessels<br>• Use of Vehicles<br>• Use of machinery/supporting equipment<br>• Creation/Use of New Access Points<br>• Creation/Use of Staging Area (on land)<br>• Deployment of buoys | • Dikes or Berms<br>• Construction barriers, pits, and trenches<br>• Sorbents<br>• Flooding<br>• Flushing<br>• Steam Cleaning<br>• Sandblasting<br>• Mechanical (non-chemical) sand cleaning (surface, <1 inch)<br>• Mechanical (non-chemical) sand cleaning and excavation (>1 inch)<br>• Manual removal / Cleaning of oil sediment, debris, or vegetation<br>• Detection of non-floating or submerged oil<br>• Recovery of non-floating or submerged oil<br>• Deterrence or Hazing<br>• Capture and care of contaminated species or recovery of contaminated carcasses<br>• Use of Aircraft<br>• Use of Vessels<br>• Use of Vehicles<br>• Use of machinery/ supporting equipment<br>• Creation/Use of New Access Points |

| | | | |
|---|---|---|---|
| | • Creation/Use of Staging Area (on land)<br>• Deployment of buoys<br>• Temporary Storage (on water)<br>• Temporary Storage (on land)<br>• Decanting<br>• Decontamination | • Temporary Storage (on land)<br>• Decanting<br>• Decontamination | • Creation/Use of Staging Area (on land)<br>• Deployment of buoys<br>• Temporary Storage (on water)<br>• Temporary Storage (on land)<br>• Decontamination |
| Special considerations needed, high level of concern | | | |
| All Habitats of Occurrence | | | |
| Natural attenuation: allow habitat to recover while monitoring naturally<br>Locating, sampling, and monitoring: air, land, water (includes SCAT) | | | |
| **BMPs** | | | |
| 1. A wildlife monitoring plan<br>2. Buffer zones with the concurrence of USFWS.<br>3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.<br>4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats. | | | |
| USFWS Lead Office Contact: | | | |

| **Whooping Crane (Non-essential)** | **Status** | **Endangered (1978)** | 35 FR 8491 |
|---|---|---|---|

| **Scientific Name** | *Grus americana* | **Critical Habitat** | N/A |
|---|---|---|---|

**Habitat**[1]

| Shoreline (beach/land) | Ports, Canals, Industrial Areas | Rivers and Streams | Bays and Estuaries | Ponds and Lakes | Wetlands | Upland Areas |
|---|---|---|---|---|---|---|
| No | No | No | No | No | Yes | Yes |

**States Relevant**

| IL | IN | MI | MN | OH | WI |
|---|---|---|---|---|---|
| X | X | X | X | X | X |

**High Risk Response Actions and Activities**

May affect, not likely to adversely affect due to insignificant or discountable effects

Wetlands

Waste Handling

May affect, not likely to adversely affect due to implementation of BMPs to minimize impact

| Wetlands | Upland Areas |
|---|---|
| • Booming<br>• Skimming<br>• Flooding<br>• Flushing<br>• Sandblasting<br>• Mechanical (non-chemical) sand cleaning (surface, <1 inch)<br>• Mechanical (non-chemical) sand cleaning and excavation (>1 inch)<br>• Manual removal / Cleaning of oil sediment, debris, or vegetation<br>• Detection of non-floating or submerged oil<br>• Recovery of non-floating or submerged oil<br>• Deterrence or Hazing<br>• Capture and care of contaminated species or recovery of contaminated carcasses<br>• Use of Aircraft<br>• Use of Vessels<br>• Creation/Use of New Access Points<br>• Access of personnel by foot traffic<br>• Decontamination | • Deterrence or Hazing<br>• Capture and care of contaminated species or recovery of contaminated carcasses |

Special considerations needed, high level of concern

All Habitats of Occurrence

Natural attenuation: allow habitat to recover while monitoring naturally
Locating, sampling, and monitoring: air, land, water (includes SCAT)

**BMPs**

1. A wildlife monitoring plan
2. Buffer zones with the concurrence of USFWS.
3. Spill Response Plan that has pre-identified staging areas for personnel and equipment that minimize disturbance.
4. When installing or placing temporary structures or material (i.e., booms, berms, dikes, culvert blocks, or other oil collection equipment/material/structures), ensure that construction/deconstruction/removal plans are in place and are scheduled/implemented in a way to eliminate or minimize impacts to threatened and endangered species and their habitats.

USFWS Lead Office Contact:

# Document Endnotes