

IRENE DRIVE ENVIRONMENTAL IMPACT ASSESSMENT AND MITIGATION REPORT
WETLAND FUNCTIONAL ANALYSIS FORM

WETLAND ID: Wetlands 1 and 2
SIZE: < 10 acres
DOMINANT CLASSIFICATION: PFO1E

WETLAND TYPE

- | | |
|--|--|
| <input type="checkbox"/> Bog | <input type="checkbox"/> Potential Vernal Pool |
| <input type="checkbox"/> Deciduous Wooded Swamp | <input type="checkbox"/> River |
| <input type="checkbox"/> Drainage Swale | <input type="checkbox"/> Salt Marsh |
| <input type="checkbox"/> Evergreen Wooded Swamp | <input type="checkbox"/> Sand Dune |
| <input type="checkbox"/> Freshwater Deep Marsh | <input type="checkbox"/> Scrub-Shrub Swamp |
| <input type="checkbox"/> Freshwater Shallow Marsh | <input type="checkbox"/> Seasonal Stream |
| <input checked="" type="checkbox"/> Mixed Wooded Swamp | <input type="checkbox"/> Tidal Marsh |
| <input type="checkbox"/> Perennial Stream | <input type="checkbox"/> Wet Meadow |
| <input type="checkbox"/> Pond/Lake | |

GROUNDWATER RECHARGE/DISCHARGE

- Gravel or sands *Function Present:* Yes No
 Till Marine/Lacustrine

FLOODFLOW ALTERATION

- H M L Watershed position *Function Present:* Yes No
 L M S Size relative to watershed Associated with water course

SEDIMENT/TOXICANT/PATHOGEN RETENTION

- Sediment/toxicants sources present upslope *Function Present:* Yes No
 Flat wetland topo Associated w/ surface water
 Flood storage occurs Vegetation interspersion
 Dense herbaceous

NUTRIENT REMOVAL/RETENTION/TRANSFORMATION

- Function Present:* Yes No
Hydrologic regime
 Open water Slow moving water
 Sediment trapping Organic soils
 Aquatic diversity abundance

PRODUCTION EXPORT

- Wildlife food sources *Function Present:* Yes No
 H M L Vegetation Density H M L Diversity
 H M L Interspersion Aquatic plants

SEDIMENT/ShORELINE STABILIZATION

- Function Present:* Yes No
Association w/ surface water: Yes No
 Bank or shoreline High flows
 Vegetated bank Channelized flow

WILDLIFE HABITAT

- Function Present:* Yes No
 Wetland connections
 Corridor
 Islands
 Aquatic habitat
 Fish habitat

IRENE DRIVE ENVIRONMENTAL IMPACT ASSESSMENT AND MITIGATION REPORT
WETLAND FUNCTIONAL ANALYSIS FORM

WETLAND ID: Wetland 3
SIZE: < 0.5 acres
DOMINANT CLASSIFICATION: PFO1E "pit-and-mound"

WETLAND TYPE

- | | |
|---|---|
| <input type="checkbox"/> Bog | <input checked="" type="checkbox"/> Potential Vernal Pool |
| <input type="checkbox"/> Deciduous Wooded Swamp | <input type="checkbox"/> River |
| <input type="checkbox"/> Drainage Swale | <input type="checkbox"/> Salt Marsh |
| <input type="checkbox"/> Evergreen Wooded Swamp | <input type="checkbox"/> Sand Dune |
| <input type="checkbox"/> Freshwater Deep Marsh | <input type="checkbox"/> Scrub-Shrub Swamp |
| <input type="checkbox"/> Freshwater Shallow Marsh | <input type="checkbox"/> Seasonal Stream |
| <input type="checkbox"/> Mixed Wooded Swamp | <input type="checkbox"/> Tidal Marsh |
| <input type="checkbox"/> Perennial Stream | <input type="checkbox"/> Wet Meadow |
| <input type="checkbox"/> Pond/Lake | |

GROUNDWATER RECHARGE/DISCHARGE

- | | |
|--|--|
| <input type="checkbox"/> Gravel or sands | <i>Function Present:</i> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| <input type="checkbox"/> Till | <input type="checkbox"/> Marine/Lacustrine |

FLOODFLOW ALTERATION

- | | |
|---|--|
| <input type="checkbox"/> H <input type="checkbox"/> M <input type="checkbox"/> L Watershed position | <i>Function Present:</i> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| <input type="checkbox"/> L <input type="checkbox"/> M <input type="checkbox"/> S Size relative to watershed | <input type="checkbox"/> Associated with water course |

SEDIMENT/TOXICANT/PATHOGEN RETENTION

- | | |
|---|--|
| <input type="checkbox"/> Sediment/toxicants sources present upslope | <i>Function Present:</i> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| <input type="checkbox"/> Flat wetland topo | <input type="checkbox"/> Associated w/ surface water |
| <input type="checkbox"/> Flood storage occurs | <input type="checkbox"/> Vegetation interspersion |
| | <input type="checkbox"/> Dense herbaceous |

NUTRIENT REMOVAL/RETENTION/TRANSFORMATION

- | | |
|--|--|
| Hydrologic regime | <i>Function Present:</i> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| <input type="checkbox"/> Open water | <input type="checkbox"/> Slow moving water |
| <input type="checkbox"/> Sediment trapping | <input type="checkbox"/> Organic soils |
| <input type="checkbox"/> Aquatic diversity abundance | |

PRODUCTION EXPORT

- | | |
|---|--|
| <input type="checkbox"/> Wildlife food sources | <i>Function Present:</i> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| <input type="checkbox"/> H <input type="checkbox"/> M <input type="checkbox"/> L Vegetation Density | <input type="checkbox"/> H <input type="checkbox"/> M <input type="checkbox"/> L Diversity |
| <input type="checkbox"/> H <input type="checkbox"/> M <input type="checkbox"/> L Interspersion | <input type="checkbox"/> Aquatic plants |

SEDIMENT/ShORELINE STABILIZATION

- | | |
|--|--|
| Association w/ surface water: <input type="checkbox"/> Yes <input type="checkbox"/> No | <i>Function Present:</i> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| <input type="checkbox"/> Bank or shoreline | <input type="checkbox"/> High flows |
| <input type="checkbox"/> Vegetated bank | <input type="checkbox"/> Channelized flow |

WILDLIFE HABITAT

- | | |
|---|--|
| <input type="checkbox"/> Wetland connections | <i>Function Present:</i> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| <input type="checkbox"/> Corridor | <input type="checkbox"/> Fish habitat |
| <input type="checkbox"/> Islands | |
| <input checked="" type="checkbox"/> Aquatic habitat | |

IRENE DRIVE ENVIRONMENTAL IMPACT ASSESSMENT AND MITIGATION REPORT
WETLAND FUNCTIONAL ANALYSIS FORM

WETLAND ID: Wetland 4
SIZE: < 5 acres
DOMINANT CLASSIFICATION: PFO5/EM1Fb

WETLAND TYPE

- | | |
|---|--|
| <input type="checkbox"/> Bog | <input type="checkbox"/> Potential Vernal Pool |
| <input type="checkbox"/> Deciduous Wooded Swamp | <input type="checkbox"/> River |
| <input type="checkbox"/> Drainage Swale | <input type="checkbox"/> Salt Marsh |
| <input type="checkbox"/> Evergreen Wooded Swamp | <input type="checkbox"/> Sand Dune |
| <input type="checkbox"/> Freshwater Deep Marsh | <input type="checkbox"/> Scrub-Shrub Swamp |
| <input type="checkbox"/> Freshwater Shallow Marsh | <input type="checkbox"/> Seasonal Stream |
| <input type="checkbox"/> Mixed Wooded Swamp | <input type="checkbox"/> Tidal Marsh |
| <input type="checkbox"/> Perennial Stream | <input type="checkbox"/> Wet Meadow |
| <input checked="" type="checkbox"/> Pond/Lake (beaver influenced) | |

GROUNDWATER RECHARGE/DISCHARGE

- | | |
|--|--|
| <input type="checkbox"/> Gravel or sands | <i>Function Present:</i> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| <input type="checkbox"/> Till | <input type="checkbox"/> Marine/Lacustrine |

FLOODFLOW ALTERATION

- | | |
|--|--|
| <input type="checkbox"/> H <input checked="" type="checkbox"/> M <input type="checkbox"/> L Watershed position | <i>Function Present:</i> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| <input type="checkbox"/> L <input checked="" type="checkbox"/> M <input type="checkbox"/> S Size relative to watershed | <input checked="" type="checkbox"/> Associated with water course |

SEDIMENT/TOXICANT/PATHOGEN RETENTION

- | | |
|--|--|
| <input checked="" type="checkbox"/> Sediment/toxicants sources present upslope | <i>Function Present:</i> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| <input checked="" type="checkbox"/> Flat wetland topo | <input checked="" type="checkbox"/> Associated w/ surface water |
| <input checked="" type="checkbox"/> Flood storage occurs | <input type="checkbox"/> Vegetation interspersion |
| | <input type="checkbox"/> Dense herbaceous |

NUTRIENT REMOVAL/RETENTION/TRANSFORMATION

- | | |
|---|--|
| Hydrologic regime | <i>Function Present:</i> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| <input checked="" type="checkbox"/> Open water | <input checked="" type="checkbox"/> Slow moving water |
| <input checked="" type="checkbox"/> Sediment trapping | <input type="checkbox"/> Organic soils |
| <input type="checkbox"/> Aquatic diversity abundance | |

PRODUCTION EXPORT

- | | |
|---|--|
| <input checked="" type="checkbox"/> Wildlife food sources | <i>Function Present:</i> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| <input type="checkbox"/> H <input type="checkbox"/> M <input type="checkbox"/> L Vegetation Density | <input type="checkbox"/> H <input type="checkbox"/> M <input type="checkbox"/> L Diversity |
| <input type="checkbox"/> H <input type="checkbox"/> M <input type="checkbox"/> L Interspersion | <input checked="" type="checkbox"/> Aquatic plants |

SEDIMENT/ShORELINE STABILIZATION

- | | |
|---|--|
| Association w/ surface water: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | <i>Function Present:</i> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| <input checked="" type="checkbox"/> Bank or shoreline | <input type="checkbox"/> High flows |
| <input checked="" type="checkbox"/> Vegetated bank | <input type="checkbox"/> Channelized flow |

WILDLIFE HABITAT

- | | |
|---|--|
| <input type="checkbox"/> Wetland connections | <i>Function Present:</i> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| <input type="checkbox"/> Corridor | |
| <input type="checkbox"/> Islands | |
| <input checked="" type="checkbox"/> Aquatic habitat | |
| <input checked="" type="checkbox"/> Fish habitat | |

IRENE DRIVE ENVIRONMENTAL IMPACT ASSESSMENT AND MITIGATION REPORT
WETLAND FUNCTIONAL ANALYSIS FORM

WETLAND ID: Wetland 5
SIZE: < 1 acre
DOMINANT CLASSIFICATION: PML1/EM1E

WETLAND TYPE

- | | |
|---|--|
| <input type="checkbox"/> Bog | <input type="checkbox"/> Potential Vernal Pool |
| <input type="checkbox"/> Deciduous Wooded Swamp | <input type="checkbox"/> River |
| <input type="checkbox"/> Drainage Swale | <input type="checkbox"/> Salt Marsh |
| <input type="checkbox"/> Evergreen Wooded Swamp | <input type="checkbox"/> Sand Dune |
| <input type="checkbox"/> Freshwater Deep Marsh | <input type="checkbox"/> Scrub-Shrub Swamp |
| <input type="checkbox"/> Freshwater Shallow Marsh | <input type="checkbox"/> Seasonal Stream |
| <input type="checkbox"/> Mixed Wooded Swamp | <input type="checkbox"/> Tidal Marsh |
| <input type="checkbox"/> Perennial Stream | <input type="checkbox"/> Wet Meadow |
| <input checked="" type="checkbox"/> Sphagnum Area | |

GROUNDWATER RECHARGE/DISCHARGE

- | | |
|--|--|
| <input type="checkbox"/> Gravel or sands | <i>Function Present:</i> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| <input type="checkbox"/> Till | <input type="checkbox"/> Marine/Lacustrine |

FLOODFLOW ALTERATION

- | | |
|--|--|
| <input type="checkbox"/> H <input checked="" type="checkbox"/> M <input type="checkbox"/> L Watershed position | <i>Function Present:</i> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| <input type="checkbox"/> L <input type="checkbox"/> M <input checked="" type="checkbox"/> S Size relative to watershed | <input type="checkbox"/> Associated with water course |

SEDIMENT/TOXICANT/PATHOGEN RETENTION

- | | |
|---|--|
| <input type="checkbox"/> Sediment/toxicants sources present upslope | <i>Function Present:</i> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| <input checked="" type="checkbox"/> Flat wetland topo | <input type="checkbox"/> Associated w/ surface water |
| <input type="checkbox"/> Flood storage occurs | <input type="checkbox"/> Vegetation interspersions |
| | <input checked="" type="checkbox"/> Dense herbaceous |

NUTRIENT REMOVAL/RETENTION/TRANSFORMATION

- | | |
|--|--|
| <i>Hydrologic regime</i> | <i>Function Present:</i> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| <input type="checkbox"/> Open water | <input type="checkbox"/> Slow moving water |
| <input type="checkbox"/> Sediment trapping | <input type="checkbox"/> Organic soils |
| <input type="checkbox"/> Aquatic diversity abundance | |

PRODUCTION EXPORT

- | | |
|--|--|
| <input type="checkbox"/> Wildlife food sources | <i>Function Present:</i> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| <input type="checkbox"/> H <input checked="" type="checkbox"/> M <input type="checkbox"/> L Vegetation Density | <input type="checkbox"/> H <input type="checkbox"/> M <input type="checkbox"/> L Diversity |
| <input type="checkbox"/> H <input type="checkbox"/> M <input checked="" type="checkbox"/> L Interspersion | <input type="checkbox"/> Aquatic plants |

SEDIMENT/SHORELINE STABILIZATION

- | | |
|--|--|
| <i>Association w/ surface water:</i> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | <i>Function Present:</i> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| <input type="checkbox"/> Bank or shoreline | <input type="checkbox"/> High flows |
| <input type="checkbox"/> Vegetated bank | <input type="checkbox"/> Channelized flow |

WILDLIFE HABITAT

- | | |
|--|--|
| <input type="checkbox"/> Wetland connections | <i>Function Present:</i> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| <input type="checkbox"/> Corridor | <input type="checkbox"/> Aquatic habitat |
| <input type="checkbox"/> Islands | <input type="checkbox"/> Fish habitat |