Engineering With Nature
Opportunities within LRB

Buffalo District
01 December 2014
# EWN Key Considerations

<table>
<thead>
<tr>
<th>Scope</th>
<th>• All Business Lines</th>
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<tr>
<td>Schedule</td>
<td>• Early and Often</td>
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<td></td>
<td>• Plan Formulation</td>
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<td>Cost</td>
<td>• Cost sharing</td>
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<td>• Minimal or no net</td>
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<td>increase</td>
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Navigation

- Beneficial Use of Dredged Material
  - Ashtabula CAP 204
  - Presque Isle CAP 204

- Breakwater Repair
  - Green Breakwaters

- Great Lakes Sediment Transport Model (GLSTTM)
Lake Erie Beneficial Use (Sec. 204) and Dredged Material Management

Lake Erie Wide (Sec. 516) $2,262,343
- Great Lakes Tributary Modeling
- Beneficial Use of Dredged Material Marketing Analysis
- Testing Manual for Beneficial Use Decisions

- **Buffalo** $1,635,126 10 sites
- **Erie** $1,009,978 8 sites
- **Ashtabula** $757,919 10 sites
- **Lorain** $1,500,686 4 sites
- **Cleveland** $2,420,527 20 sites
- **Toledo** $3,681,844 24 sites
- **Sandusky**
- **Fairport** $80,000 3 Near Shore Sites

**Total** $13,352,443 79 Sites
Formerly Utilized Sites Remedial Action Program (FUSRAP)

- Harshaw Chemical
  - Groundwater Remediation

- Niagara Falls Storage Site (NFSS)
Ecosystem Restoration

- Great Lakes and Fishery Ecosystem Restoration (GLFER)
  - Port Clinton
  - Lye Creek

- Great Lakes Remedial Action Plan (RAP)

- CAP Section 1135 and 206

- Braddock Bay
Coastal Resiliency

- Lake Ontario Adaptive Management
- Lake Ontario Coastal Resiliency
- Lake Erie?
Other Areas

- Flood Risk Management
  - Blanchard
  - Thatcher CAP 205