Potential Places of Refuge for Bristol Bay Subarea

Bristol Bay SCP: PPOR, Part One June 2012

S-02-01, Dillingham Cargo Dock and S-02-02, Dillingham Fuel Terminal.

Stakeholders for PPOR Zone 02 of the Bristol Bay Subarea

<table>
<thead>
<tr>
<th>Landowners (year-2012)</th>
<th>Contact</th>
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<th>Contact</th>
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</thead>
<tbody>
<tr>
<td>Curyung Tribal Council</td>
<td>Chief</td>
<td>Bristol Bay Borough</td>
<td>Mayor</td>
</tr>
<tr>
<td>Chichagof Limited</td>
<td>President</td>
<td>Bristol Bay Native Corporation</td>
<td>President / CEO</td>
</tr>
<tr>
<td>City of Dillingham</td>
<td>Manager</td>
<td>Bureau of Land Management</td>
<td>Dept of the Interior-Regional Environmental Officer</td>
</tr>
<tr>
<td>City of Naknek</td>
<td>Village Coordinator</td>
<td>Native Department of Natural Resources</td>
<td>State Historic Preservation Officer</td>
</tr>
<tr>
<td>Naknek Native Village</td>
<td>President</td>
<td>Native Allotments</td>
<td>Dept of the Interior-Regional Environmental Officer</td>
</tr>
<tr>
<td>Paug-Vik Incorporated, Limited</td>
<td>President</td>
<td>Togiak National Wildlife Refuge</td>
<td>Dept of the Interior-Regional Environmental Officer</td>
</tr>
</tbody>
</table>

This is not intended for navigational use.

Center of map at 58° 23.34’ N Lat., 157° 54.04’ W Lon.
**Site Considerations for PPOR Zone 02 of the Bristol Bay Subarea**

### Clarks Point Naknek River Dillingham-Cargo Dock Dillingham-Fuel Terminal Dillingham-Processing Plant

<table>
<thead>
<tr>
<th>ID Number</th>
<th>Clarks Point</th>
<th>Naknek River</th>
<th>Dillingham-Cargo Dock</th>
<th>Dillingham-Fuel Terminal</th>
<th>Dillingham-Processing Plant</th>
</tr>
</thead>
<tbody>
<tr>
<td>L-02-01</td>
<td>L-03-02</td>
<td>L-03-02</td>
<td>S-03-01</td>
<td>S-02-02</td>
<td>S-02-03</td>
</tr>
</tbody>
</table>

**Sensate Health & Safety**
- Community distance: 13 nm pop. 2,376
- Natural Resource Considerations: Waterfowl concentration, shorebird concentrations, anadromous fish

**Fish & Wildlife**
- Waterfowl concentration, shorebird concentrations, anadromous fish

**Threatened & Endangered Species**
- None

**Sensitive Areas**
- None designated

**Other Stakeholder Considerations**
- Fisheries: Salmon
- Historic Properties: Historic properties are present throughout the area.
- Subsistence: High level of subsistence activity
- Tourism/Recreation: Seasonal tourism and local recreation.

**Response and Salvage Resource Consideration**
- Ability to Boom Vessel: No
- Weather dependent

### Site ID Number & Vessel Size Classification

- DII = Deep Draft Vessels lengths up to 1000 feet, 40-60 feet of draft, greater than 10,000 GT
- DI = Deep Draft Vessels lengths up to 1000 feet, 20-40 feet of draft, greater than 10,000 GT
- L = Light Draft Vessels up to 450 feet in length, draft up to 20 feet
- S = A shallow draft vessel less than 300 Gross Tons, has a draft less than 15 ft., LOA less than 200 ft

### Site ID Number & Vessel Size Classification

- D = Deep Draft Vessels
- L = Light Draft Vessels
- S = Shallow Draft Vessels

### Site Dimensions

- DII: Length 1000 feet, Draft 40-60 feet, GT > 10,000
- DI: Length 1000 feet, Draft 20-40 feet, GT > 10,000
- L: Length 450 feet, Draft up to 20 feet
- S: Length < 300 GT, Draft < 15 ft, LOA < 200 feet

**Physical and Operational Characteristics for PPOR Zone 2 of the Bristol Bay Subarea**

<table>
<thead>
<tr>
<th>Clarks Point</th>
<th>Naknek River</th>
<th>Dillingham-Cargo Dock</th>
<th>Dillingham-Fuel Terminal</th>
<th>Dillingham-Processing Plant</th>
</tr>
</thead>
<tbody>
<tr>
<td>Location</td>
<td>L-02-01</td>
<td>S-02-03</td>
<td>S-02-02</td>
<td>S-02-03</td>
</tr>
<tr>
<td>Tidal Range</td>
<td>58º49.65'N 158º36.77'W</td>
<td>59º02.22'N 158º27.90'W</td>
<td>59º02.12'N 158º28.87'W</td>
<td>59º02.21'N 158º30.67'W</td>
</tr>
<tr>
<td>Max Vessel Size</td>
<td>Light Draft Vessels up to 450 ft. in length, up to 20 ft. draft</td>
<td>Light Draft Vessels up to 450 ft. in length, up to 20 ft. draft</td>
<td>Light Draft Vessels up to 450 ft. in length, up to 20 ft. draft</td>
<td>Light Draft Vessels up to 450 ft. in length, up to 20 ft. draft</td>
</tr>
<tr>
<td>Max Vessel Draft</td>
<td>21 ft.</td>
<td>15 ft.</td>
<td>15 ft.</td>
<td>15 ft.</td>
</tr>
<tr>
<td>Swing Room or Dock Face (w/ dolphins)</td>
<td>0.25 nm to shoal</td>
<td>0.25 nm to shoal</td>
<td>0.25 nm to shoal</td>
<td>0.25 nm to shoal</td>
</tr>
<tr>
<td>Bottom Type</td>
<td>Mud</td>
<td>Sand</td>
<td>Mud</td>
<td>Mud</td>
</tr>
<tr>
<td>Nearest Alternative Dock/Flats</td>
<td>13 nm to S-02-02 (shallow draft vessels)</td>
<td>0.30 nm to Naknek (shallow draft)</td>
<td>0.1 km to S-02-03</td>
<td>0.5 km to S-02-03</td>
</tr>
<tr>
<td>Nearest Alternative Anchorage</td>
<td>55 nm to L-02-02</td>
<td>55 nm to L-02-02</td>
<td>15 nm to L-02-02</td>
<td>15 nm to L-02-02</td>
</tr>
</tbody>
</table>

**Prevailing Winds**
- During June, July, and August, winds are out of the S through SW about 60 percent of the time, at average speeds of 8 to 10 knots. Storms entering Bristol Bay funnel wind into bays and passes creating locally severe swirls of significant force.
- Currents:
  - Up to 4 knots on ebb and flood and are influenced by the river flow and continuous winds.
  - Upper 2.5 knots at the anchorage.
- Tides:
  - Mean High 17.8 ft. (Higher 19.5) Mean Low 2.5 (Lower -5.0)
- Sea Conditions:
  - Exposed to southerly wind
  - Sheltered from storms from the W to the S

**Ice**
- Protected from extreme sea conditions
- Shelter from severe storms
- Exposed to SW

**Fog**
- Not designated

**Ice**
- Ice presents from November to April but is broken and drifts with the current and wind.