

ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION

1988 STATEWIDE WATER QUALITY ASSESSMENT

\*\*\* WATERBODY \*\*\*

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Name of Waterbody: <u>Port Valdez</u>		ID#:
Type/Size:	<input type="checkbox"/> River/Stream _____ Miles	3041: N L M S
	<input type="checkbox"/> Lake _____ Acres/Hectares	WQL: 0 - N
	<input type="checkbox"/> Fresh Wetland _____ Acres/Hectares	1 - PS
	<input type="checkbox"/> Tidal Wetland _____ Acres/Hectares	2 - NPS
	<input checked="" type="checkbox"/> Estuary _____ Square Miles	3 - WQS
	<input type="checkbox"/> Coastal Shoreline _____ Miles	4 - Con/Enf
	<input type="checkbox"/> Groundwater _____	Stat: I T U
USGS Hydrological Unit #: 190- _____		[ADEC Use Only]
Location or Lat/Long: <u>Valdez</u>		<i>Use existing data/analysis</i>
Is the waterbody in a national or state park, monument, refuge, preserve, or similar area?: <input type="checkbox"/> Yes, <input checked="" type="checkbox"/> No, Name _____		

\*\*\* ASSESSMENT \*\*\*

Assessment Date: Yr <u>86</u> , Mo <u>7</u> / By <u>C.A. Mauer</u>
Sampling: Begin Yr <u>86</u> , Mo <u>7</u> / End Yr <u>86</u> , Mo <u>7</u> / By _____
Reference for Data: <u>NOAA's US+T Program</u>
Basis for Assessment:
<input type="checkbox"/> 1 Qualitative, land use/sources
<input type="checkbox"/> 1 Qualitative, complaints/2nd hand
<input type="checkbox"/> 2 Predictive models, unverified
<input type="checkbox"/> 3 Calibrated models
<input checked="" type="checkbox"/> 4 Fixed station data, Bio or Chem
<input type="checkbox"/> 5 Effluent toxicity testing
<input type="checkbox"/> 6 Limited site visit
<input type="checkbox"/> 7 Intensive field assessment
Assessment Category:
<input checked="" type="checkbox"/> Monitored (Data)
<input type="checkbox"/> Evaluated (Judgement)
Next Planned Assessment: Yr <u>?</u> , Mo <u>?</u> / By _____
Comments: <u>This is a well studied fixed. Inport quality + quantity are well defined.</u>

Size-A Size-M Support Partial Not-Sup Cause-% Size-10 Size-No Why?

Meets Clean Water Act Goals:

- |  |   |
|--|---|
| <input checked="" type="checkbox"/> Fishable     | <input checked="" type="checkbox"/> Swimmable     |
| <input type="checkbox"/> Not Fishable            | <input type="checkbox"/> Not Swimmable            |
| <input type="checkbox"/> Fishable Not Attainable | <input type="checkbox"/> Swimmable Not Attainable |

Impaired or Threatened Uses:

- | <u>IMP</u> <u>THR</u> - FRESHWATER  | <u>IMP</u> <u>THR</u> - MARINE  |
|---|---|
| <input type="checkbox"/> <input type="checkbox"/> Drinking                  | <input type="checkbox"/> <input checked="" type="checkbox"/> Aquaculture                |
| <input type="checkbox"/> <input type="checkbox"/> Agriculture               | <input type="checkbox"/> <input type="checkbox"/> Seafood Processing                    |
| <input type="checkbox"/> <input type="checkbox"/> Aquaculture               | <input type="checkbox"/> <input type="checkbox"/> Industry                              |
| <input type="checkbox"/> <input type="checkbox"/> Industry                  | <input type="checkbox"/> <input type="checkbox"/> Recreation, Contact                   |
| <input type="checkbox"/> <input type="checkbox"/> Recreation, Contact       | <input type="checkbox"/> <input type="checkbox"/> Recreation, Secondary                 |
| <input type="checkbox"/> <input type="checkbox"/> Recreation, Secondary     | <input type="checkbox"/> <input checked="" type="checkbox"/> Fish, Shellfish, Wildlife  |
| <input type="checkbox"/> <input type="checkbox"/> Fish, Shellfish, Wildlife | <input type="checkbox"/> <input checked="" type="checkbox"/> Harvest of Fish, Shellfish |

Support of Designated Uses:

- All Uses Fully Supported, no sources present
- All Uses Fully Supported, sources present
- One or More Uses Threatened
- One or More Uses Partially Supported
- One or More Uses Not Supported

Trophic Status:

- Oligotrophic
- Mesotrophic
- Eutrophic
- Hypereutrophic
- Dystrophic
- Unknown

Trophic Trend:

- Improving
- Stable
- Deteriorating

\*\*\* TOXICS \*\*\*

Monitored for Toxics:  Yes ,  No

Type of Toxics Monitoring:

- |   |  |
|---|--|
| <input checked="" type="checkbox"/> 1 Organics in water column  | <input checked="" type="checkbox"/> 10 Metals in sediments   |
| <input checked="" type="checkbox"/> 2 Organics in sediments     | <input checked="" type="checkbox"/> 11 Metals in fish tissue |
| <input checked="" type="checkbox"/> 3 Organics in fish tissue   | <input type="checkbox"/> 12 Metals in discharges             |
| <input checked="" type="checkbox"/> 4 Organics in discharges    | <input type="checkbox"/> 13 Other inorganics in water column |
| <input type="checkbox"/> 5 Pesticides in water column           | <input type="checkbox"/> 99 Other inorganics in sediments    |
| <input checked="" type="checkbox"/> 6 Pesticides in sediments   | <input type="checkbox"/> 99 Other inorganics in fish tissue  |
| <input checked="" type="checkbox"/> 7 Pesticides in fish tissue | <input type="checkbox"/> 14 Other inorganics in discharges   |
| <input type="checkbox"/> 8 Pesticides in discharges             | <input type="checkbox"/> 15 Toxicity testing of water column |
| <input type="checkbox"/> 9 Metals in water column               | <input type="checkbox"/> 16 Toxicity testing of sediments    |
|   | <input type="checkbox"/> 17 Toxicity testing of discharges   |

Pollutants: (H = High, M = Medium, S = Slight)

- 1 Unknown toxicity
- 2 Pesticides Type \_\_\_\_\_
- 3 Priority organics Type \_\_\_\_\_
- 4 Nonpriority organics Type \_\_\_\_\_
- 5 Metals Type \_\_\_\_\_
- 6 Ammonia
- 7 Chlorine
- 8 Other inorganics
- 9 Nutrients
- 10 pH
- 11 Siltation
- 12 Organic enrichment
- 13 Salinity/TDS/Chlorine
- 14 Thermal modifications
- 15 Flow alteration
- 16 Habitat alteration
- 17 Pathogens
- 18 Radiation
- 19 Oil and Grease
- 20 Taste and Odor
- 21 Suspended solids
- 22 Noxious aquatic plants
- 23 Filling and draining

Sources of Pollutants: (H = High, M = Medium, S = Slight)

Point Sources

- 1 Industrial
- 2 Municipal
- 3 Municipal pretreatment
- 4 Combined sewers
- 5 Storm sewers

Nonpoint Sources

- 9 Unspecified

Agriculture

- 11 Non-irrigated crop production
- 12 Irrigated crop production
- 13 Specialty crop production
- 14 Pasture land
- 15 Range land
- 16 Feedlots
- 17 Aquaculture
- 18 Animal holding areas

Silviculture

- 21 Harvest, restoration
- 22 Forest management
- 23 Road construction/maintenance

Construction

- 31 Highway/road/bridge
- 32 Land development

Urban Runoff

- 41 Storm sewers
- 42 Combined sewers
- 43 Surface runoff

Source Unknown

- 90 Source Unknown

Resource extraction/exploration

- 51 Surface mining
- 52 Subsurface mining
- 53 Placer mining
- 54 Dredge mining
- 55 Petroleum activities
- 56 Mill tailings
- 57 Mine tailings

Land Disposal (Permitted Activities)

- 61 Sludge
- 62 Wastewater
- 63 Landfills
- 64 Industrial land treatment
- 65 Onsite wastewater systems
- 66 Hazardous waste

Hydromodification

- 71 Channelization
- 72 Dredging
- 73 Dam construction
- 74 Flow regulation/modification
- 75 Bridge construction
- 76 Removal of riparian vegetation
- 77 Streambank modification

Other

- 81 Atmospheric deposition
- 82 Waste storage/storage tank leaks
- 83 Highway maintenance and runoff
- 84 Spills
- 85 In-place contaminants
- 86 Natural
- 87 Recreational activities
- 88 Upstream impoundment
- 89 Septic tank seepage

Fish and Shellfish Contamination:

- 0 None detected
- 1 Contaminated fish - *very low!*
- 2 Fishing advisory
- 3 Fishing ban
- 4 Fish abnormalities
- 5 Shellfish restrictions due to pathogens
- 6 Fish kill

*Mussels*  
*English sole,*  
*Flathead sole*  
*Yellowfin sole*

\*\*\* POINT AND NONPOINT SOURCES \*\*\*

Point Sources:

- 1 NPDES Permit Number: \_\_\_\_\_  
 NPDES Permit Name: \_\_\_\_\_  
 Causes Nonattainment:  Yes ,  No , Pollutant \_\_\_\_\_
- 2 NPDES Permit Number: \_\_\_\_\_  
 NPDES Permit Name: \_\_\_\_\_  
 Causes Nonattainment:  Yes ,  No , Pollutant \_\_\_\_\_
- 3 NPDES Permit Number: \_\_\_\_\_  
 NPDES Permit Name: \_\_\_\_\_  
 Causes Nonattainment:  Yes ,  No , Pollutant \_\_\_\_\_

Nonpoint Sources:

- 1 Nonpoint Source Name: \_\_\_\_\_  
 Nonpoint Source Type: \_\_\_\_\_  
 Nonpoint Source Description: \_\_\_\_\_
- 2 Nonpoint Source Name: \_\_\_\_\_  
 Nonpoint Source Type: \_\_\_\_\_  
 Nonpoint Source Description: \_\_\_\_\_
- 3 Nonpoint Source Name: \_\_\_\_\_  
 Nonpoint Source Type: \_\_\_\_\_  
 Nonpoint Source Description: \_\_\_\_\_

[Including extent of impairment of uses; significance of impacts on public health and the environment; water quality trend; efforts to control pollutants; current priority for developing pollutant controls; and adequacy of data]

The question here is "what constitutes sustainable?" The levels of PAHs that NS+T is pushing us in for are on the low end of natural levels!

- The change in sludge gap out (UMFS data) would also tend to suggest a threatened → injured classification.

- sediment levels are LOW!