

Long-c

ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION

1988 STATEWIDE WATER QUALITY ASSESSMENT

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

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Name of Waterbody: Gibson Cove

Type/Size:  River/Stream \_\_\_\_\_ Miles  
 Lake \_\_\_\_\_ Acres/Hectares  
 Fresh Wetland \_\_\_\_\_ Acres/Hectares  
 Tidal Wetland \_\_\_\_\_ Acres/Hectares  
 Estuary \_\_\_\_\_ Square Miles  
 Coastal Shoreline \_\_\_\_\_ Miles  
 Groundwater \_\_\_\_\_

USGS Hydrological Unit #: 190-20701

Location or Lat/Long: Kodiak (toward airport)

Is the waterbody in a national or state park, monument, refuge, preserve, or similar area?:  Yes,  No, Name SMD

ID#: AK190-20701-005  
3041: N  M S  
WQL: 0 - N  
1 -  PS  
2 -  NPS  
3 - WQS  
4 - Con/Enf  
Stat:  T U  
[ADEC Use Only]

IN, SF, PP

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

Assessment Date: Yr 88, Mo 4 / By Erickson

Sampling: Begin Yr \_\_, Mo \_\_ / End Yr \_\_, Mo \_\_ / By \_\_\_\_\_

Reference for Data: \_\_\_\_\_

Basis for Assessment:  1 Qualitative, land use/sources  
 1 Qualitative, complaints/2nd hand  
 2 Predictive models, unverified  
 3 Calibrated models  
 4 Fixed station data, Bio or Chem  
 5 Effluent toxicity testing  
 6 Limited site visit sample w enforcement actions  
 7 Intensive field assessment

Assessment Category:  Monitored (Data)  
 Evaluated (Judgement)

Next Planned Assessment: Yr \_\_, Mo \_\_ / By \_\_\_\_\_

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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

Meets Clean Water Act Goals:

- |  |   |
|--|---|
| <input type="checkbox"/> Fishable                | <input type="checkbox"/> Swimmable                |
| <input checked="" type="checkbox"/> Not Fishable | <input checked="" 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 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 type="checkbox"/> Fish, Shellfish, Wildlife  |
| <input type="checkbox"/> <input type="checkbox"/> Fish, Shellfish, Wildlife | <input type="checkbox"/> <input 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 type="checkbox"/> 1 Organics in water column   | <input type="checkbox"/> 10 Metals in sediments              |
| <input type="checkbox"/> 2 Organics in sediments      | <input type="checkbox"/> 11 Metals in fish tissue            |
| <input type="checkbox"/> 3 Organics in fish tissue    | <input type="checkbox"/> 12 Metals in discharges             |
| <input 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 type="checkbox"/> 6 Pesticides in sediments    | <input type="checkbox"/> 99 Other inorganics in fish tissue  |
| <input 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)

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

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

Point Sources

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

Resource extraction/exploration

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

Nonpoint Sources

- 9 Unspecified

Land Disposal (Permitted Activities)

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

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

Hydromodification

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

Silviculture

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

Construction

- 31 Highway/road/bridge
- 32 Land development

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

Urban Runoff

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

Source Unknown

- 90 Source Unknown

Fish and Shellfish Contamination:

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

\*\*\* 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: KRI \_\_\_\_\_  
 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]

KRI indust. discharge - high organic wastewater

Finding whole fish guts

Oil - ~~containing~~ KRI, boats

EPA cited KRI \$80,000 fine - current discharge unground fish wastes

Air pollin prob - particulates

Haz waste - oil with high halogens  
waste oil tank struck by truck of fish wastes (week old) (dump truck) (uncovered)

2R  
amb  
car  
1500  
gal

May 1989 304(l) Long List based on fish wastes & enforcement actions

D Sturdevant, 5-31-89