

ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION

1989 NONPOINT SOURCE WATER QUALITY ASSESSMENT

LONG FORM

*** WATERBODY ***

Name of Waterbody: Rowan Bay

Location or Lat/Long: Kuiu Island West - S.E. Alaska

Waterbody Type:

- River/Stream
- Lake
- Fresh Wetland
- Tidal Wetland
- Estuary
- Coastal Shoreline
- Groundwater

Waterbody Size:

- _____ Miles
- _____ Acres/Hectares
- _____ Acres/Hectares
- _____ Acres/Hectares
- _____ Square Miles
- _____ Square Miles

ADEC USE ONLY

304: N L M S

WQL: 0 - N

1 - PS

2 - NPS

3 - WQS

4 - Con/Enf

ID#: _____

Segment of Waterbody Addressed:

From: _____

To: _____

Other Description: _____

Size of Segment: _____

USGS Hydrologic Unit #: AK 190 10202 - 602

*** ASSESSMENT ***

Describe Source of Pollution and Documentation Provided:

Contaminants associated with log transfer facility.
ADEC observations of shellfish adversely affected by contamination from Rowan Bay log dump.

Type of Documentation (Attached if Possible):

- Water quality data
- Documented oil spill
- Enforcement action
- Photos with documentation
- Photos without documentation
- Written report
- Field notes
- Overflight
- Observation
- Other

Assessment type:

- Monitored
- Evaluated

Violation of Water Quality Standards:

- Past Violation Documented
- Current Violation Documented
- Current Violation Suspected
- Future Violation Projected

Waterbody Status:

- Impaired - Past
- Impaired - Current
- Suspected
- Unimpaired

Comments: Old data from 1982 USFWS Annual Report, Environmental Contaminant Program.

Author of This Assessment: S. Bralley Affiliation: ADEC/wqm Date: 89/09
YY/MM

Meets Clean Water Act Goals:

- Fishable
- Not Fishable
- Fishable Not Attainable
- Swimmable
- Not Swimmable
- Swimmable Not Attainable

Impaired Uses:

FRESHWATER

- Drinking
- Agriculture
- Aquaculture
- Industry
- Recreation, Contact
- Recreation, Secondary
- Fish, Shellfish, Wildlife

MARINE

- Aquaculture
- Seafood Processing
- Industry
- Recreation, Contact
- Recreation, Secondary
- Fish, Shellfish, Wildlife
- Harvest of Fish, Shellfish

Support of Designated Uses:

- One or More Uses Not Supported (Impaired)
- One or More Uses Partially Supported (Partially Impaired)
- One or More Uses Suspected to Be Affected (Suspected)
- One or More Uses Projected to Become Affected (Projected)
- All Uses Fully Supported, sources present (Unimpaired)
- All Uses Fully Supported, no sources present (Unimpaired)

Trophic Status:

- Oligatrophic
- Mesatrophic
- Eutrophic
- Hypereutrophic
- Dystrophic
- Unknown

Trophic Trend

- Improving
- Stable
- Deteriorating

N/A

*** TOXICS ***

Monitored for Toxics: Yes No

Type of Toxics Monitoring:

- 1 Organics in water column
- 2 Organics in sediments
- 3 Organics in fish tissue
- 4 Organics in discharges
- 5 Pesticides in water column
- 6 Pesticides in sediments
- 7 Pesticides in fish tissue
- 8 Pesticides in discharges
- 9 Metals in water column
- 10 Metals in sediments
- 11 Metals in fish tissue
- 12 Metals in discharges
- 13 Other inorganics in water column
- 99 Other inorganics in sediments
- 99 Other inorganics in fish tissue
- 14 Other inorganics in discharges
- 15 Toxicity testing of water column
- 16 Toxicity testing of sediments
- 17 Toxicity testing of discharges

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

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

- | | | |
|--|---|---|
| <input type="checkbox"/> 0 Cause Unknown | Type | <u>Ammonia, H₂S</u> |
| <input type="checkbox"/> 1 Unknown toxicity | Type | _____ |
| <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 checked="" type="checkbox"/> 6 Ammonia | <input checked="" type="checkbox"/> 12 Organic enrichment | 18 Radiation |
| <input type="checkbox"/> 7 Chlorine | <input type="checkbox"/> 13 Salinity/TDS/Chlorides | <input checked="" type="checkbox"/> 19 Oil and Grease |
| <input type="checkbox"/> 8 Other inorganics | <input type="checkbox"/> 14 Thermal modifications | <input type="checkbox"/> 20 Taste and Odor |
| <input type="checkbox"/> 9 Nutrients | <input type="checkbox"/> 15 Flow alteration | <input type="checkbox"/> 21 Suspended solids |
| <input type="checkbox"/> 10 pH | <input checked="" type="checkbox"/> 16 Habitat alteration | <input type="checkbox"/> 22 Noxious aquatic plants |
| <input checked="" type="checkbox"/> 11 Siltation | <input type="checkbox"/> 17 Pathogens | <input type="checkbox"/> 23 Filling and draining |

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

Point Sources

- 1 Industrial LTF
- 2 Municipal
- 3 Municipal pretreatment
- 4 Combined sewers
- 5 Storm sewers
- 6 Other dischargers

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
- 67 Septage disposal

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
- 19 Manure lagoons

Hydrologic Modification

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

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 Salt storage sites
- 99 Septic tank seepage

Urban Runoff

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

Source Unknown

- 90 Source Unknown

DESCRIBE POLLUTANTS AND POLLUTANT SOURCES. THE BASIS FOR THE DETERMINATION THAT A WATERBODY IS IMPAIRED MUST BE EXPLAINED IN THIS SECTION. DESCRIBE THE NATURE OF THE VIOLATION OF WATER QUALITY STANDARDS, INCLUDING DATA OR OTHER DOCUMENTATION IN RELATION TO STANDARDS. ALSO DESCRIBE WHETHER THE VIOLATION IS CONSIDERED PAST OR CURRENT, AND OTHER RELEVANT INFORMATION.

Contaminants associated with Log Transfer Facility,

Bark loss from use of Rowan Bay Log Pump has adversely impacted shellfish in front of LTF--missing appendages, lower reproductive rates. NMFS has more complete information from studies completed at the site.

Point Sources:

NPDES Permit Number: _____
NPDES Permit Name: _____
Causes Nonattainment: Yes No
Pollutant: _____

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NPDES Permit Name: _____
Causes Nonattainment: Yes No
Pollutant: _____

Nonpoint Sources:

Nonpoint Source Name: _____
Nonpoint Source Type: _____
Nonpoint Source Description: _____

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