

ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION

1989 NONPOINT SOURCE WATER QUALITY ASSESSMENT

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

Name of Waterbody: Sawmill Creek (Sitka) @ Sawmill Cove

Location or Lat/Long: 57° 03' 135° 20'  
57.049 135.227

<b>Waterbody Type:</b>	<b>Waterbody Size:</b>	<b>ADEC USE ONLY</b> 304I: N L M S WQL: 0 - N 1 - PS 2 - NPS 3 - WQS 4 - Con/Ent ID#: _____
<input checked="" type="checkbox"/> River/Stream	_____ Miles	
<input type="checkbox"/> Lake	_____ Acres/Hectares	
<input type="checkbox"/> Fresh Wetland	_____ Acres/Hectares	
<input type="checkbox"/> Tidal Wetland	_____ Acres/Hectares	
<input type="checkbox"/> Estuary	_____ Square Miles	
<input type="checkbox"/> Coastal Shoreline	_____ Square Miles	
<input type="checkbox"/> Groundwater	_____ Square Miles	

**Segment of Waterbody Addressed:**  
 From: \_\_\_\_\_  
 To: 2 miles S.  
 Other Description: Near Sitka, AK  
 Size of Segment: \_\_\_\_\_

USGS Hydrologic Unit #: AK 190 -10203-020

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

**Describe Source of Pollution and Documentation Provided:**  
Permitted Woodwaste pile impacts immediate freshwater drainage with leachate.  
See attached.

<b>Type of Documentation (Attached If Possible):</b>	<b>Assessment type:</b>
<input type="checkbox"/> Water quality data	<input checked="" type="checkbox"/> Monitored
<input type="checkbox"/> Documented oil spill	<input checked="" type="checkbox"/> Evaluated
<input type="checkbox"/> Enforcement action	<input type="checkbox"/> Written report
<input checked="" type="checkbox"/> Photos with documentation	<input type="checkbox"/> Field notes
<input type="checkbox"/> Photos without documentation	<input type="checkbox"/> Overflight
	<input type="checkbox"/> Observation
	<input type="checkbox"/> Other

<b>Violation of Water Quality Standards:</b>	<b>Waterbody Status:</b>
<input checked="" type="checkbox"/> Past Violation Documented	<input checked="" type="checkbox"/> Impaired - Past
<input type="checkbox"/> Current Violation Documented	<input type="checkbox"/> Impaired - Current
<input type="checkbox"/> Current Violation Suspected	<input type="checkbox"/> Suspected
<input type="checkbox"/> Future Violation Projected	<input type="checkbox"/> Unimpaired

Comments: DFE 6 has photo documentation of river course.

Author of This Assessment: C. Kaut Affiliation: ADEC Date: 09 08  
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

\*\*\* 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 _____  |   |
| <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 type="checkbox"/> 6 Ammonia                     | <input checked="" type="checkbox"/> 12 Organic enrichment | <input type="checkbox"/> 18 Radiation                         |
| <input type="checkbox"/> 7 Chlorine                    | <input type="checkbox"/> 13 Salinity/TDS/Chlorides        | <input type="checkbox"/> 19 Oil and Grease                    |
| <input checked="" 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 checked="" type="checkbox"/> 10 pH              | <input type="checkbox"/> 16 Habitat alteration            | <input checked="" type="checkbox"/> 22 Noxious aquatic plants |
| <input 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
- 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.

placed on 304(c) Longlist based on SERO Report / monitoring  
D.S. (6-5-89)

Wood waste leachate impacting downstream salmonid habitat  
Photo documentation SERO other Form for map of situation

**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: \_\_\_\_\_

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]

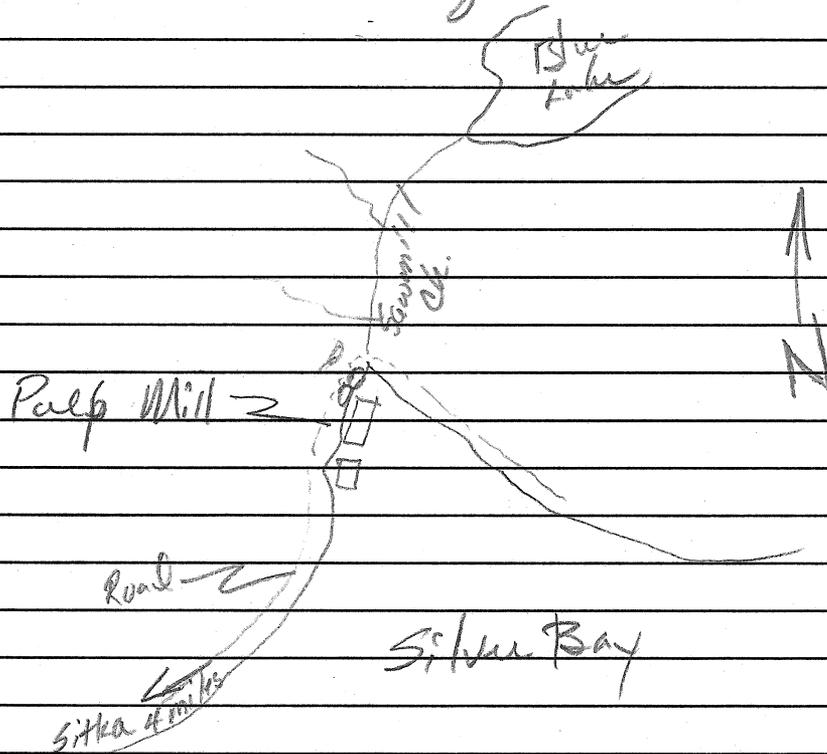
Woodwaste leachate drainage into Sawmill Creek or another named drainage in Sitka impacts the fishes rearing salmonids through D.O suppression. Elevated conductivity & altered pH cause necessary conditions for dense fungal mats to establish in downstream waters.

@ Pulp Mill - Sitka, in Silver Bay

Drainage from Blue Lake: Blue Lake is the water supply for Sitka, also is pulp mill's water supply; however there is a guaranteed flow.

- there is a big bunch of fordinae wigs in stream bed.

seen of some sort



May 1989 304(l) Long List based on SERO report/monitoring

D Sturdevant

6-5-89

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