

ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION

1988 STATEWIDE WATER QUALITY ASSESSMENT

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

Page 1 of 5

Name of Waterbody: <u>Auke Creek</u>		ID#: <sup>AK</sup> 190 10301 004
Type/Size: <input checked="" type="checkbox"/> River/Stream	<u>0.3</u> Miles	3041: <input checked="" type="checkbox"/> L M S
<input type="checkbox"/> Lake	_____ Acres/Hectares	WQL: <input checked="" type="checkbox"/> - N
<input type="checkbox"/> Fresh Wetland	_____ Acres/Hectares	1 - PS
<input type="checkbox"/> Tidal Wetland	_____ Acres/Hectares	2 - NPS
<input type="checkbox"/> Estuary	_____ Square Miles	3 - WQS
<input type="checkbox"/> Coastal Shoreline	_____ Miles	4 - Con/Enf
<input type="checkbox"/> Groundwater	_____ Miles	Stat: I T <input checked="" type="checkbox"/> U
USGS Hydrological Unit #: 190- <u>10301</u>		[ADEC Use Only]
Location or Lat/Long: <u>53° 22' 55" 134° 38' 30"</u>		
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>4</u> / By <u>Roman Motyka</u> <u>DGGS</u>
Sampling: <u>Begin</u> Yr <u>84</u> , Mo <u>6</u> / <u>End</u> Yr <u>84</u> , Mo <u>6</u> / By <u>Roman Motyka</u>
Reference for Data: <u>Motyka, R.J., 1986, Preliminary results of water quality investigations at Mandemnaill Peninsula and Auke Bay area, Juneau, Alaska; Civ. Engr. Geophy. Survys, Public data file 85-14.</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 type="checkbox"/> 4 Fixed station data, Bio or Chem
<input type="checkbox"/> 5 Effluent toxicity testing
<input checked="" 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 _____ , Mo _____ / By _____
Comments: <u>Water Temperature = 14°C , specific conductance = 211 uhos/cm</u> on 6/15/84
* <u>Pages 3-5 omitted, limited data collected.</u>

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

5/88

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Name of Waterbody: Auke Cr

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 #: 190-10301

Location or Lat/Long: Juneau

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

ID#: AK-10/10301-001  
3041:  N  L  M  S  
WQL:  0 - N  
1 - PS  
2 - NPS  
3 - WQS  
4 - Con/Enf  
Stat: I T  U  
[ADEC Use Only]

SE UR PP

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

Assessment Date: Yr 88, Mo 5 / By \_\_\_\_\_  
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  
 7 Intensive field assessment

Assessment Category:  
 Monitored (Data)  
 Evaluated (Judgement)

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

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

.3 .3 (0.3) (3 (20)) (4 UR (60)) (60:1 Pol (20)) (.5) B  
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 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

<b>Trophic Status:</b>	<b>Trophic Trend:</b>
<input type="checkbox"/> Oligatrophic	<input type="checkbox"/> Improving
<input type="checkbox"/> Mesatrophic	<input type="checkbox"/> Stable
<input type="checkbox"/> Eutrophic	<input type="checkbox"/> Deteriorating
<input type="checkbox"/> Hypereutrophic	
<input type="checkbox"/> Dystrophic	
<input type="checkbox"/> Unknown	

\*\*\* 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)

- 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
- 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: \_\_\_\_\_  
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; and current priority for developing pollutant controls]

Auke Ok drains Auke Lake. In season receive typical urban/industry pollutants.