

ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION

1989 NONPOINT SOURCE WATER QUALITY ASSESSMENT

LONG FORM

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

Page 1 of 4

Name of Waterbody: ██████ Lake Creek

Location or Lat/Long: 55° 22' 57" 134° 38' 30"

<b>Waterbody Type:</b>	<b>Waterbody Size:</b>	<b>ADEC USE ONLY</b> 304f: N L M S WQL: 0 - N 1 - PS 2 - NPS 3 - WQS 4 - Con/Ent ID#: _____
<input checked="" type="checkbox"/> River/Stream	<u>0.3</u> 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: \_\_\_\_\_  
Other Description: \_\_\_\_\_  
Size of Segment: \_\_\_\_\_

USGS Hydrologic Unit #: AK 190 ~~103020~~ 10301

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

Describe Source of Pollution and Documentation Provided: Urban runoff

Type of Documentation (Attached if Possible):

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

Violation of Water Quality Standards:

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

Comments: See Roman 10/14/89 1/89 Preliminary Report  
Urban runoff from residential area + woods, all pervious soil and  
Bay and Tundra Areas. POC 04-11-89 95-14

Author of This Assessment: C. Kent Affiliation: ADEC Date: 5/21  
YY/MM

**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 Uses:**

<u>FRESHWATER</u>	<u>MARINE</u>
<input checked="" type="checkbox"/> Drinking	<input type="checkbox"/> Aquaculture
<input type="checkbox"/> Agriculture	<input type="checkbox"/> Seafood Processing
<input type="checkbox"/> Aquaculture	<input type="checkbox"/> Industry
<input type="checkbox"/> Industry	<input type="checkbox"/> Recreation, Contact
<input type="checkbox"/> Recreation, Contact	<input type="checkbox"/> Recreation, Secondary
<input type="checkbox"/> Recreation, Secondary	<input type="checkbox"/> Fish, Shellfish, Wildlife
<input type="checkbox"/> Fish, Shellfish, Wildlife	<input type="checkbox"/> 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)

<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 checked="" 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

**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         |  |   |
| <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               | <input type="checkbox"/> 12 Organic enrichment     | <input type="checkbox"/> 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 checked="" type="checkbox"/> 9 Nutrients  | <input type="checkbox"/> 15 Flow alteration        | <input type="checkbox"/> 21 Suspended solids          |
| <input type="checkbox"/> 10 pH                   | <input 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
- 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

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

Construction

- 31 Highway/road/bridge
- 32 Land development

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.

*Good water*

Multiple horizontal lines for handwritten notes.

**Point Sources:**

NPDES Permit Number: \_\_\_\_\_  
NPDES Permit Name: \_\_\_\_\_  
Causes Nonattainment:  Yes  No  
Pollutant: \_\_\_\_\_

NPDES Permit Number: \_\_\_\_\_  
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: \_\_\_\_\_

ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION

1989 NONPOINT SOURCE WATER QUALITY ASSESSMENT

SHORT DATA FORM

Name of Waterbody: ~~Little Auke Creek~~ Little Auke Creek

Location or Lat/Long: Juneau

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

Segment of Waterbody Addressed:

From: \_\_\_\_\_

To: \_\_\_\_\_

Other Description: \_\_\_\_\_

Size of Segment: \_\_\_\_\_

Describe Source of Pollution and Documentation Provided:

Families Septic Systems and Land Development

Type of Documentation (attached if possible):

- |   |   |
|---|---|
| <input type="checkbox"/> Water quality data           | <input type="checkbox"/> Written report |
| <input type="checkbox"/> Documented oil spill         | <input type="checkbox"/> Field notes    |
| <input type="checkbox"/> NOV, Enforcement action      | <input type="checkbox"/> Overflight     |
| <input type="checkbox"/> Photos with documentation    | <input type="checkbox"/> Observation    |
| <input type="checkbox"/> Photos without documentation | <input type="checkbox"/> Other          |

Comments: This form is a temporary replacement for missing original data form.

This stream is classed as Suspected (Needs Further Investigation) from listing as Impaired, based on BPS in 305(b) 1988 and draft 319 assessment report (Jan 89).

Author of This Assessment: D Sturdevant Affiliation: ADEC Date: 8-15-89

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

- |  |  |  |
|--|--|--|
| <input type="checkbox"/> 0 Cause Unknown         |  |  |
| <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               | <input 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 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 type="checkbox"/> 16 Habitat alteration     | <input 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
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- 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

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		Stat: I T <input checked="" type="checkbox"/> U
		[ADEC Use Only]

USGS Hydrological Unit #: 190- 10301

Location or Lat/Long: 53° 22' 55" 134° 38' 30"

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

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

Assessment Date: Yr 86 , Mo 4 / By Roman Motyka DGGS

Sampling: Begin Yr 84 , Mo 6 / End Yr 84 , Mo 6 / By Roman Motyka

Reference for Data: Motyka, R.J., 1986, Preliminary results of water quality investigations at Mandenahall Peninsula and Auke Bay area, Juneau, Alaska: U.S. Geol. Surv. Pub. data file 85-14.

Basis for Assessment:

<input type="checkbox"/> 1 Qualitative, land use/sources	<input checked="" type="checkbox"/> Monitored (Data)
<input type="checkbox"/> 1 Qualitative, complaints/2nd hand	<input type="checkbox"/> Evaluated (Judgement)
<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	

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

Comments: Water Temperature = 14°C ; specific conductance = 211 uhos/cm 04/15/84

\* Pages 3-5 omitted, limited data collected.

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

5/88

ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION

1988 STATEWIDE WATER QUALITY ASSESSMENT

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

Page 1 of 5

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-19/10301-001  
 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)) (6 Oil 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

**Trophic Status:**

- Oligatrophic
- Mesatrophic
- 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)

- 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
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- 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
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Land Disposal (Permitted Activities)

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- 66 Hazardous waste

Hydromodification

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

Other

- 81 Atmospheric deposition
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- 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 occasion receive typical urban/industry pollutants.