

ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION

1989 NONPOINT SOURCE WATER QUALITY ASSESSMENT

LONG FORM

*** WATERBODY ***

Name of Waterbody: DANK LAKE

Location or Lat/Long: 57°48'45" 152°22'15"
Near Kodiak

Waterbody Type:	Waterbody Size:	ADEC USE ONLY 304: N L M S WQL: 0 - N 1 - PS 2 - NPS 3 - WQS 4 - Con/Enf ID#: _____
<input type="checkbox"/> River/Stream	_____ Miles	
<input checked="" type="checkbox"/> Lake	<u>150</u> 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 -20701-405

*** ASSESSMENT ***

Describe Source of Pollution and Documentation Provided:
Urban and road runoff. Homes on shores of lake may have failing septic systems.

Type of Documentation (Attached If Possible):

<input type="checkbox"/> Water quality data	<input type="checkbox"/> Written report
<input type="checkbox"/> Documented oil spill	<input checked="" type="checkbox"/> Field notes
<input type="checkbox"/> 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

Assessment type:
 Monitored
 Evaluated

Violation of Water Quality Standards:

<input type="checkbox"/> Past Violation Documented	Waterbody Status:
<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: Bud Cassidy

Author of This Assessment: CHRIS KELT Affiliation: ADEC Date: 89 09
 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:

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:

- | | |
|---|--|
| <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"/> 7 Chlorine | <input type="checkbox"/> 12 Organic enrichment | <input type="checkbox"/> 18 Radiation |
| <input type="checkbox"/> 8 Other inorganics | <input type="checkbox"/> 13 Salinity/TDS/Chlorides | <input type="checkbox"/> 19 Oil and Grease |
| <input checked="" type="checkbox"/> 9 Nutrients | <input type="checkbox"/> 14 Thermal modifications | <input type="checkbox"/> 20 Taste and Odor |
| <input type="checkbox"/> 10 pH | <input checked="" type="checkbox"/> 15 Flow alteration | <input type="checkbox"/> 21 Suspended solids |
| <input type="checkbox"/> 11 Siltation | <input checked="" type="checkbox"/> 16 Habitat alteration | <input type="checkbox"/> 22 Noxious aquatic plants |
| | <input checked="" type="checkbox"/> 17 Pathogens | <input checked="" 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.

Urban runoff from surrounding roads and homes

Lined area for handwritten notes, currently blank.

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: _____

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ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION

1988 STATEWIDE WATER QUALITY ASSESSMENT

*** WATERBODY ***

Page 1 of 5

Name of Waterbody: <u>Dank Lake</u>		ID#: <u>AK-19020701-402</u>
Type/Size: <input type="checkbox"/> River/Stream	Miles	3041: <input checked="" type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> M <input type="checkbox"/> S
<input checked="" type="checkbox"/> Lake	<u>150</u> Acres/Hectares	WQL: 0 - N
<input type="checkbox"/> Fresh Wetland	_____ Acres/Hectares	1 - PS
<input type="checkbox"/> Tidal Wetland	_____ Acres/Hectares	2 - <input checked="" type="checkbox"/> NPS
<input type="checkbox"/> Estuary	_____ Square Miles	3 - WQS
<input type="checkbox"/> Coastal Shoreline	_____ Miles	4 - Con/Enf
<input type="checkbox"/> Groundwater		Stat: I <input checked="" type="checkbox"/> T <input checked="" type="checkbox"/> III
		[ADEC Use Only]
USGS Hydrological Unit #: <u>190-20701</u>		UR
Location or Lat/Long: <u>Kodiak</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>88</u> , Mo <u>6</u> / By <u>Bud Cassidy, Kodiak</u>	
Sampling: <u>Begin</u> Yr ___ , Mo ___ / <u>End</u> Yr ___ , Mo ___ / By _____	
Reference for Data: _____	
<p>Basis for Assessment:</p> <input checked="" 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 type="checkbox"/> 6 Limited site visit <input type="checkbox"/> 7 Intensive field assessment	<p>Assessment Category:</p> <input type="checkbox"/> Monitored (Data) <input checked="" type="checkbox"/> 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 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 checked="" 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

NA

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:	Trophic Trend:
<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

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

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- 1 Industrial
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- 4 Combined sewers
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- 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; current priority for developing pollutant controls; and adequacy of data]

Urban runoff; surrounding homes on sewer system

No sig. problems - ROAD Runoff

