

ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION

1994 STATEWIDE WATER QUALITY ASSESSMENT

NAME OF WATERBODY: Lake Clark

Location or Lat/Long: Alaska Peninsula

Is the waterbody in a national or state park, monument, refuge, preserve, or similar area?:

Yes / No / Name: Lake Clark National Park

Waterbody Type:

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

Waterbody Size:

- Miles
- Acres
- Acres
- Acres
- 103 Square Miles
- Miles

Segment of Waterbody Addressed:

From: Hardenburg Bay
 To: Portage Bay
 Other Description:

Size of Segment:

Period of Assessment, From: 1990 To: Present

Assessment completed by: Resources Mgmt Staff - Port Alsworth

Type of Documentation (attach 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"/> NOV / Enforcement action | <input type="checkbox"/> Overflight |
| <input type="checkbox"/> Photos with documentation | <input checked="" type="checkbox"/> Observation |
| <input type="checkbox"/> Fish / Habitat survey | <input type="checkbox"/> Other (please describe below) |

Assessment based on: Monitored water quality data Evaluated (Best professional judgement)

Describe Source and Nature of Pollution, Documentation Provided and Other Comments:

Pollution sources are associated with the Port Alsworth and Meys Point residential communities and involve: discharge of residential and commercial sewage; improper storage of hazardous material (batteries, transformers, solvents, ...); storage and disposal of waste from aircraft maintenance facilities; and fuel leaks/spills associated with storage and transport. Port Alsworth does not have a community land-fill, so each individual or business enterprise handles disposal differently and the current situation ranges from incineration to direct dumping into the lake.

RESPONDENT INFORMATION:

Name: Alan Bennett Phone: 781-2267 Date: 11 Jan 94
 Employer: National Park Serv. Dept: Title: Resource Manager
 Address: Lake Clark National Park, General Delivery, Port Alsworth, AK 99653
 Education/Experience: B.S., M.S. 20 yrs in natural resource, wildlife - mgmt.

TYPES OF POLLUTANTS (Please indicate relative severity; H= High, M= Medium, S= Slight):

- Cause unknown
 Unknown toxicity
 Pesticides: _____
 Priority organics: _____
 Nonpriority organics: _____
 Metals: _____
 Ammonia
 Chlorine
 Other inorganics *assoc. with abandoned transformers + batteries*
 Nutrients
 pH
 Siltation/sedimentation
 Low dissolved oxygen
 TDS/Salinity/Chlorides
 Temperature modifications
 Flow alterations
 Other habitat alterations
 Pathogens
 Radiation
 Oil and Grease
 Taste and odor
 Suspended solids
 Noxious aquatic plants
 Filling and draining
 Total toxics
 Turbidity
 Exotic species
 Debris, foam, scum, etc.
 Insufficient stream structure
 Arsenic
- Other: *Petroleum products (benzene, lead)*

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SOURCES OF POLLUTANTS (Please indicate relative severity; H= High, M= Medium, S= Slight):

Point Sources:

- Industrial
 Municipal

Urban Runoff:

- Storm sewers
 Combined sewers
 Surface runoff

Agriculture:

- Non-irrigated crop production
 Irrigated crop production
 Pasture land
 Range land
 Feedlots
 Aquaculture
 Animal waste/holding areas
 Manure lagoons

Silviculture:

- Timber harvest
 Stream restoration projects
 Road construction/maintenance
 Elimination of stream thermal cover
 Log Transfer Facilities (estuary)
 Log Sort Yard (land)

Construction:

- Highway/road
 Bridge construction/repair
 Land development

Resource Exploration/extraction:

- Surface mining
 Subsurface mining
 Placer mining
 Dredge mining
 Petroleum activities
 Mill tailings
 Mine tailings
 Gravel mining
 Injection wells

Waste Disposal:

- Sludge
 Wastewater
 Landfills Industrial land treatment
 Onsite wastewater systems
 Hazardous waste
 Sewage disposal
 Septic tank leak

Hydrologic Modification:

- Stream channelization
 Dredging
 Dam construction
 Flow regulation/modification
 Bridge construction
 Removal of riparian vegetation
 Streambank modification/destabilization
 Draining/filling of wetlands
 Lake shore gravel mining

Marinas:

- Small boat harbors (up to 10 slips)
 Harbors (recreational/commercial)
 Loading facilities (commercial)

Other:

- Atmospheric deposition
 Waste storage tank leaks
 Highway maintenance/runoff
 Petroleum/chemical spills, leaks
 In-place containments
 Natural sources
 Recreational activities
 Upstream impoundment
 Salt storage sites
 Fire damage/restoration
 Underground storage tanks
 Aboveground storage tanks
 Saltwater intrusion
 Road salting
 Fish, shellfish wastes
 UNKNOWN SOURCE

END