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ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION

1988 STATEWIDE WATER QUALITY ASSESSMENT

*** WATERBODY ***

Name of Waterbody: Lake Otis ID#: AK 190 20401 413
 Type/Size: [] River/Stream _____ Miles GS#: _____
 [X] Lake 9 Acres 3041: N L M S
 [] Fresh Wetland _____ Acres/Hectares HQW: Y N
 [] Tidal Wetland _____ Acres/Hectares WQL: 0 - N
 [] Estuary _____ Square Miles 1 - PS
 [] Coastal Shoreline _____ Miles ITU 2 - ~~NPS~~
 [] Groundwater _____ Miles 3 - WQS
 4 - Con/Enf
 [ADEC Use Only]
 USGS Hydrological Unit #: 190-20401 UR
 Location or Lat/Long: Anchorage, AK
 Is the waterbody in a national or state park, monument, refuge, preserve, or similar area?: [] Yes, [X] No, Name _____

*** ASSESSMENT ***

Assessment Date: Yr 88 , Mo 04 / By James Cross, MOA/DHHS
 Sampling: Begin Yr 85 , Mo 06 / End Yr _____ , Mo _____ / By _____
 Reference for Data: MOA/DHHS
 Assessment Type: Assessment Category:
 [] 1 Qualitative, land use sources [X] Monitored (Data)
 [] 1 Qualitative, complaints/2nd hand [] Evaluated (Judgement)
 [] 2 Predictive models, unverified
 [] 3 Calibrated models
 [X] 4 Fixed station data, Bio or Chem
 [] 5 Effluent toxicity testing
 [] 6 Limited site visit
 [] 7 Intensive field Assessment
 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:

- Fishable Swimmable
- Not Fishable Not Swimmable
- Fishable Not Attainable Swimmable Not Attainable

Impaired or Threatened Uses:

IMP THR - FRESHWATER

- Drinking
- Agriculture
- Aquaculture
- Industry
- Recreation, Contact
- Recreation, Secondary
- Fish, Shellfish, Wildlife

IMP THR - MARINE

- Aquaculture
- Seafood Processing
- Industry
- Recreation, Contact
- Recreation, Secondary
- Fish, Shellfish, Wildlife
- 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

Types of Toxics Monitoring:

- 1 Organics in water column 10 Metals in sediments
- 2 Organics in sediments 11 Metals in fish tissue
- 3 Organics in fish tissue 12 Metals in discharges
- 4 Organics in discharges 13 Other inorganics in H2O col
- 5 Pesticides in water column 99 Other inorganics in sedimnt
- 6 Pesticides in sediments 99 Other inorganics in fish ts
- 7 Pesticides in fish tissue 14 Other inorganics in dscgs
- 8 Pesticides in discharges 15 Toxicity testing of water
- 9 Metals in water column 16 Toxicity testing of sediment
- 17 Toxicity testing of dscgs

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

- __1 Unknown toxicity
- __2 Pesticides Type _____
- __3 Priority organics Type _____
- __4 Nonpriority organ Type _____
- __5 Metals Type _____
- __6 Ammonia
- __7 Chlorine
- __8 Other inorganics
- __9 Nutrients
- __10 pH
- S__11 Siltation
- __12 Organic enrichment
- __13 Salinity/TDS/Chlor
- __14 Thermal modificatn
- __15 Flow alteration
- __16 Habitat alteration
- M__17 Pathogens
- __18 Radiation
- __19 Oil and Grease
- __20 Taste and Odor
- S__21 Suspended solids
- __22 Noxious aqua plants
- __23 Filling and drain

Pollutant Categories: (H = High, M = Medium, S = Slight)

Point Sources

- __1 Industrial
- __2 Minicipal
- __3 Municipal pretreatment
- __4 Combined sewers
- M__5 Storm sewers

Nonpoint Sources

- S__9 Unspecified

Agriculture

- __11 Non-irrig 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/maint

Construction

- __31 Highway/road/bridge
- __32 Land development

Urban Runoff

- S__41 Storm sewers
- __42 Combined sewers
- S__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:	
<input checked="" type="checkbox"/>	0 None detected
<input type="checkbox"/>	1 Contaminated fish
<input type="checkbox"/>	2 Fishing advisory
<input type="checkbox"/>	3 Fishing ban
<input type="checkbox"/>	4 Fish abnormalities
<input type="checkbox"/>	5 Shellfish restrictions due to pathogens
<input type="checkbox"/>	6 Fish kill

*** POINT AND NONPOINT SOURCES ***

1	NPDES Permit Number: _____
	NPDES Permit Name: _____
	Causes Nonattainment: <input type="checkbox"/> Yes, <input type="checkbox"/> No, Pollutant _____
2	NPDES Permit Number: _____
	NPDES Permit Name: _____
	Causes Nonattainment: <input type="checkbox"/> Yes, <input type="checkbox"/> No, Pollutant _____
3	NPDES Permit Number: _____
	NPDES Permit Name: _____
	Causes Nonattainment: <input type="checkbox"/> Yes, <input type="checkbox"/> No, Pollutant _____
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]

May 1989 304(1) Long List based on posting by MoA
for coliforms

D Sturdevant, 5-31-89