

**ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION  
1996 STATEWIDE WATER QUALITY ASSESSMENT DATA COLLECTION FORM**

NAME OF WATERBODY: Bono Creek

Location or Lat/Long: ~ 68° 02' Lat 162° 55'

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

Yes /  No / Name: \_\_\_\_\_

**Waterbody Type:**

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

**Waterbody Size:**

~ 2 Miles  
 \_\_\_\_\_ Acres/Hectares  
 \_\_\_\_\_ Acres/Hectares  
 \_\_\_\_\_ Acres/Hectares  
 \_\_\_\_\_ Square Miles  
 \_\_\_\_\_ Miles

**Segment of Waterbody Addressed:**

From: all?  
 To: \_\_\_\_\_  
 Other Description: \_\_\_\_\_  
 Size of Segment: \_\_\_\_\_

Period of Assessment, From: 1994

To: 1995

**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"/> Photos without documentation | <input checked="" type="checkbox"/> Other       |

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

Since 1994 Bono Creek at a side road access from the Red Dog To Port Site road has developed a pale cloudiness and stream substrate has become reddish color. In Aug 1995 juvenile Arctic grayling were subjected to water from this side to acclimate them for stocking into the Bono Creek Reservoir system. Within 30-40 seconds of adding Bono Creek water (temp. of Bono Cr. and of transport water were equal) these fish became severely stressed - The fish rose to the surface, gulped surface air and began to lose position stability.

**RESPONDENT INFORMATION:**

Name: Alan H Townsend Phone: 907-459-7284 Date: Feb 16, 1996

Employer: ADF&G Dept: Habitat/Restoration Title: Habitat Biologist

Mailing Address: 1300 College Rd, Fairbanks, Ak

City: Fairbanks State: AK Zip Code: 99701

Education/Experience: B.A. + graduate work Freshwater Fisheries; 20+ years ADF&G

**TYPE AND SEVERITY OF POLLUTANTS AND SOURCES: (Severity; H=High, M=Medium, S=Slight)**

**POLLUTANTS:**

- Cause unknown
- 1 Unknown toxicity
- 4 Nonpriority organics:
- 5 Metals:
- 2 Pesticides:
- 3 Priority organics:
- 6 Ammonia
- 7 Chlorine
- 8 Other inorganics
- 9 Nutrients
- 10 pH
- 11 Siltation/sedimentation
- 12 Low dissolved oxygen
- 13 TDS/Salinity/Chlorides
- 30 Other: \_\_\_\_\_
- 14 Temperature Modifications
- 15 Flow alterations
- 16 Other habitat alterations
- 17 Pathogens
- 18 Radiation
- 19 Oil and Grease
- 20 Taste and odor
- 21 Suspended solids
- 22 Noxious aquatic plants
- 23 Filling and draining
- 24 Total toxics
- 25 Turbidity
- 26 Exotic species
- 27 Debris, foam, scum, etc.
- 28 Insufficient stream structure
- 29 Arsenic

**SOURCES OF POLLUTANTS (Severity; H= High, M= Medium, S= Slight):**

**Point Sources:**

- 1 Industrial
- 2 Municipal
- 3 Storm sewers
- 4 Combined sewers

**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 waste/holding areas
- 19 Manure lagoons

**Silviculture:**

- 21 Timber harvest
- 21 Stream restoration projects
- 22 Forest management
- 23 Road construction/maintenance
- 24 Elimination of stream thermal cover

**Construction:**

- 31 Highway/road
- 31 Bridge construction/repair
- 32 Land development

**Resource Exploration/extraction:**

- 51 Surface mining
- 52 Subsurface mining
- 53 Placer mining
- 54 Dredge mining
- 55 Petroleum activities
- 56 Mill tailings
- 57 Mine tailings
- 58 Gravel mining
- 58 Injection wells

**Urban Runoff:**

- 40 Surface runoff
- 40 Storm sewers

**Waste Disposal:**

- 61 Sludge
- 62 Wastewater
- 63 Landfills (*overburden*)
- 64 Industrial land treatment
- 65 Onsite wastewater systems
- 66 Hazardous waste
- 67 Sewage disposal

**Hydrologic Modification:**

- 71 Stream 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

**Other:**

- 81 Atmospheric deposition
- 82 Waste storage tank leaks
- 83 Highway maintenance/runoff
- 84 Petroleum/chemical spills, leaks
- 85 In-place containments
- 86 Natural sources
- 87 Recreational activities
- 88 Upstream impoundment
- 89 Salt storage sites
- 91 Fire damage/restoration
- 92 Underground storage tanks
- 93 Aboveground storage tanks
- 94 Saltwater intrusion
- 95 Road salting
- 96 Fish, shellfish wastes
- 90 UNKNOWN SOURCE