

ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION

List both? <sup>5</sup>

1989 NONPOINT SOURCE WATER QUALITY ASSESSMENT

SHORT DATA FORM

Name of Waterbody: Shovel Cr. / Solomon R.

Location or Lat/Long: \_\_\_\_\_

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: Nome barrel dump.

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

Describe Source of Pollution and Documentation Provided:

Lee's Camp (Solomon R side).  
Abandoned barrels adjacent to shovel cr.

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"/> NOV, Enforcement action                 | <input type="checkbox"/> Overflight             |
| <input type="checkbox"/> Photos with documentation               | <input checked="" type="checkbox"/> Observation |
| <input checked="" type="checkbox"/> Photos without documentation | <input type="checkbox"/> Other                  |

Comments: 1984 photos were taken

1985, 1986, 1987 - barrels still there.

Pictures of weeping barrels and spots where  
barrels are corroding.

Author of This Assessment: A. Townsend Affiliation: ADFG Date: 7-14-89

1988 STATEWIDE WATER QUALITY ASSESSMENT

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

Name of Waterbody: Solomon River

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- 50104

Location or Lat/Long: \_\_\_\_\_

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

ID#: \_\_\_\_\_  
 3041: N L M S  
 WQL: 0 - N  
 1 - PS  
 2 - NPS  
 3 - WQS  
 4 - Con/Enf  
 Stat: I  U  
 [ADEC Use Only]

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

Assessment Date: Yr 88 , Mo 5 / By J Townsend

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: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

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 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 checked="" 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 checked="" 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)

- \* H 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 S
- \_\_\_ 10 pH M
- M 11 Siltation
- \_\_\_ 12 Organic enrichment
- \_\_\_ 13 Salinity/TDS/Chlorine
- \_\_\_ 14 Thermal modifications
- \_\_\_ 15 Flow alteration M
- \_\_\_ 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
- \_\_\_ 14 Pasture land
- \_\_\_ 15 Range land
- \_\_\_ 16 Feedlots
- \_\_\_ 17 Aquaculture
- \_\_\_ 18 Animal holding areas

Silviculture

- \_\_\_ 21 Harvest, restoration
- \_\_\_ 22 Forest management
- \_\_\_ 23 Road construction/maintenance

Construction

- M 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
- \_\_\_ 52 Subsurface mining
- M 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

Hydrologic Modification

- M 71 Channelization
- \_\_\_ 72 Dredging
- \_\_\_ 73 Dam construction
- \_\_\_ 74 Flow regulation/modification
- \_\_\_ 75 Bridge construction
- M 76 Removal of riparian vegetation
- H 77 Streambank modification

Other

- \_\_\_ 81 Atmospheric deposition
- \* H 82 Waste storage/storage tank leaks
- M 83 Highway maintenance and runoff
- \_\_\_ 84 Spills
- \* H 85 In-place contaminants
- \_\_\_ 86 Natural
- S 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; current priority for developing pollutant controls; and adequacy of data]

Numerous drums (some leaking) stockpiled for decades containing hydrocarbons and petro products of unknown composition.