

ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION

1988 STATEWIDE WATER QUALITY ASSESSMENT

*** WATERBODY ***

Page 1 of 5

Name of Waterbody: Solomon River drainage ID#: _____
 Type/Size: River/Stream _____ Miles 3041: N L M S
 Lake _____ Acres/Hectares WQL: 0 - N
 Fresh Wetland _____ Acres/Hectares 1 - PS
 Tidal Wetland _____ Acres/Hectares 2 - NPS
 Estuary _____ Square Miles 3 - WQS
 Coastal Shoreline _____ Miles 4 - Con/Enf
 Groundwater _____ Miles Stat: I T U
 [ADEC Use Only]
 PM *Should be R2*
 USGS Hydrological Unit #: 190-50104
 Location or Lat/Long: See computer sheets
 Is the waterbody in a national or state park, monument, refuge, preserve, or similar area?: Yes , No , Name _____

*** ASSESSMENT ***

Assessment Date: Yr 88 , Mo 4 / By LFS
 Sampling: Begin Yr ___ , Mo ___ / End Yr ___ , Mo ___ / By _____
 Reference for Data: _____
 Basis for Assessment: Assessment Category:
 1 Qualitative, land use/sources Monitored (Data)
 1 Qualitative, complaints/2nd hand Evaluated (Judgement)
 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
 Next Planned Assessment: Yr ___ , Mo ___ / By _____
 Comments: APMAs received

Size-A Size-M Support Partial Cause-% Size-5/10 Size-No Why?

Meets Clean Water Act Goals:

<input type="checkbox"/> Fishable	<input type="checkbox"/> Swimmable
<input checked="" type="checkbox"/> Not Fishable	<input checked="" 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 checked="" type="checkbox"/> <input type="checkbox"/> Drinking	<input type="checkbox"/> <input type="checkbox"/> Aquaculture
<input checked="" type="checkbox"/> <input type="checkbox"/> Agriculture	<input type="checkbox"/> <input type="checkbox"/> Seafood Processing
<input checked="" 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 checked="" type="checkbox"/> <input type="checkbox"/> Recreation, Contact	<input type="checkbox"/> <input type="checkbox"/> Recreation, Secondary
<input checked="" type="checkbox"/> <input type="checkbox"/> Recreation, Secondary	<input type="checkbox"/> <input type="checkbox"/> Fish, Shellfish, Wildlife
<input checked="" type="checkbox"/> <input 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: *Lakes only*

- Oligotrophic
- Mesotrophic
- 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)

- | | | |
|--|---|---|
| <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 checked="" type="checkbox"/> 5 Metals | Type _____ | |
| <input type="checkbox"/> 6 Ammonia | <input type="checkbox"/> 12 Organic enrichment | <input type="checkbox"/> 18 Radiation |
| <input type="checkbox"/> 7 Chlorine | <input type="checkbox"/> 13 Salinity/TDS/Chlorine | <input type="checkbox"/> 19 Oil and Grease |
| <input checked="" type="checkbox"/> 8 Other inorganics | <input type="checkbox"/> 14 Thermal modifications | <input type="checkbox"/> 20 Taste and Odor |
| <input type="checkbox"/> 9 Nutrients | <input checked="" type="checkbox"/> 15 Flow alteration | <input checked="" type="checkbox"/> 21 Suspended solids |
| <input type="checkbox"/> 10 pH | <input checked="" type="checkbox"/> 16 Habitat alteration | <input type="checkbox"/> 22 Noxious aquatic plants |
| <input checked="" type="checkbox"/> 11 Siltation | <input type="checkbox"/> 17 Pathogens | <input 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

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

- 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
- 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:

- 0 None detected
- 1 Contaminated fish
- 2 Fishing advisory
- 3 Fishing ban
- 4 Fish abnormalities
- 5 Shellfish restrictions due to pathogens
- 6 Fish kill

7 Unknown

*** POINT AND NONPOINT SOURCES ***

Point Sources:

- 1 NPDES Permit Number: see computer sheets
 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: see notes
 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; and current priority for developing pollutant controls]

Low priority

file

MEMORANDUM

State of Alaska

TO: Jeff Mach
Environmental Field Officer
NRO, Fairbanks

DATE: August 9, 1988

FILE NO:

TELEPHONE NO: 465-2666

THRU: Larry Dietrick, Director, EQ
Dan Easton, Deputy Director, EQ

SUBJECT: Draft Proposed Compliance
Order for Nome Barrel Dump
Site

FROM: Lynn Tomich Kent
Ecologist

J.T.K.

I have reviewed the final draft of the proposed Compliance Order by Consent for the "Nome Barrel Dump" site, near Solomon. The draft Compliance Order provisions are very thorough.

The following are my comments/suggestions for incorporation into the final document. Because I am not familiar with the history or location of this site, some of my comments may not apply or may have already been considered while developing this draft.

- You may want to cc EPA on the cover letter to Mr. Lee transmitting the final compliance order.
- Depending on the proximity of the site to Shovel Creek and the Solomon River and the contaminants discovered in the drums, Mr. Lee should be required to sample sediments from both these water bodies. In addition, if soil contamination is found, there should be a provision requiring sampling of groundwater resources.
- p. 4(3); There is no section "(3)(a)"
- p. 4(3)(b); How will ADEC "assist Mr. Lee to determine the appropriate amount of sampling to be conducted..."? We should avoid providing services which should be conducted by consultants to Mr. Lee.
- p. 4(3); If there is any chance that drums have been buried on the property, the compliance order should require a subsurface survey (electromagnetic or magnetometry).
- p. 5(3)(b); The sampling and analysis program (plan) should include a schedule for when the sampling and analyses will be conducted.
- p.5(3)(c); The sampling and analysis report should include the results of any groundwater and sediments analyses and subsurface surveys, if required.
- p. 6(3); There may be RCRA implications when moving hazardous

STATE OF ALASKA

DEPT. OF ENVIRONMENTAL CONSERVATION

STEVE COWPER, GOVERNOR

(907) 452-1714

September 23, 1988

Northern Regional Office
1001 Noble Street
Suite 350
Fairbanks, Alaska 99701

Ms. Lisa Haas, Vice-President
America North Inc.
201 East 56th, Suite 200
Anchorage, Alaska 99518

RECEIVED

SEP 26 1988

DEPARTMENT OF
ENVIRONMENTAL CONSERVATION

Dear Ms. Haas:

Re: Nome Barrel Dump Site Sampling and Analysis Plan

The Department of Environmental Conservation (ADEC) has reviewed the plan referenced above, submitted in partial fulfillment of the requirements in paragraph 2.(b) of the Compliance Order by Consent between ADEC and Mr. Lee. The plan is approved with the following modifications and comments:

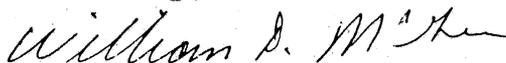
1. During the drum inventory process, all drums with like contents should be grouped together. All containers must be labelled as to their contents.
2. A glass tube is not the appropriate method to collect all of the samples that may be necessary. Some drums contain solids or very thick liquids that do not lend themselves to this sampling method. We recommend the use of disposable scoops for materials other than liquids, which cannot be collected with glass tubes.
3. Useable products in sealed containers are not required to be sampled, provided that label information on the outside of the containers allows identification of the product. All materials in unsealed drums must be sampled, although representative or composite samples of like materials are permitted.
4. Analyses of used lubricating oil samples for the used oil fuel specifications in 40 CFR 266.40(e) will not be sufficient by themselves to determine if the oil is suitable for use in road oiling. ADEC's surface oiling regulations in 18 AAC 75.037 establish prohibited levels of PCBs, total volatile aromatics, total halogenated volatile organics, and lead in oil to be used for dust suppression.

September 23, 1988

5. Materials that are not usable products or used oil must be analyzed to determine whether they are hazardous wastes by using the method described in 40 CFR 262.11 or 18 AAC 62.210. The analyses must be adequate to determine whether the drums contain listed hazardous wastes or characteristic hazardous wastes. The use of composite samples of like materials is permissible.
6. Soil samples collected to identify potential contaminants must be analyzed for a wide range of likely contaminants. Besides total petroleum hydrocarbons, we believe that these analyses must include PCBs, volatiles organics (method 8240), and semivolatile organics (method 8270). PCBs are recommended because their presence was detected by the EPA Technical Assistance Team's sampling in 1985. Volatile organics should be included since these also will be tested for in Shovel Creek. The semivolatile organics are included because the polycyclic aromatic hydrocarbons naphthalene, 2-methylnaphthalene, and anthracene also were identified in soil samples collected by the EPA Technical Assistance Team.

Please contact Jeff Mach, at this office, if you have any questions on this letter or on sampling and analyses for this project.

Sincerely,



William D. McGee

Regional Environmental Supervisor

jm/jm/rg

cc: S. Mawson, ADEC/Nome
L. Kent, ADEC/Juneau
J. McDonagh, AG/Fairbanks
C. Lautenberger, EPA/Anchorage
J. Barkeley, Hughes, Thorsness/Anchorage
R. Lee

400.23.006

ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION

1988 STATEWIDE WATER QUALITY ASSESSMENT

*** WATERBODY ***

Shovel Cr?

Name of Waterbody: SOLONON RIVER ID#: _____

Type/Size: River/Stream 22.25 Miles 3041: N L M S
 Lake _____ Acres/Hectares WQL: 0 - N
 Fresh Wetland _____ Acres/Hectares 1 - PS
 Tidal Wetland _____ Acres/Hectares 2 - NPS
 Estuary _____ Square Miles 3 - WQS
 Coastal Shoreline _____ Miles 4 - Con/Enf
 Groundwater _____ Miles Stat: I T U
[ADEC Use Only]

USGS Hydrological Unit #: 190-50104

Location or Lat/Long: 40 MILES EAST OF NOME

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

*** ASSESSMENT ***

Assessment Date: Yr _____, Mo _____ / By _____

Sampling: Begin Yr _____, Mo _____ / End Yr _____, Mo _____ / By _____

Reference for Data: Simon

Basis for Assessment: Assessment Category:

<input checked="" type="checkbox"/> 1 Qualitative, land use/sources	<input type="checkbox"/> Monitored (Data)
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Next Planned Assessment: Yr _____, Mo _____ / By _____

Comments: HISTORIC MINING ACTIVITY ALMOST ENTIRE DRAINAGE MINED, OLD CHANWIDE COACH MINE ON TRIBUTARY, NOME BARREL DUMP CLOSE. EPA TAT TEAM, PRIORITY POLLUTANTS.

Size-A Size-M Support Partial Cause-% Size-5/10 Size-No Why?

Meets Clean Water Act Goals:

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

NO

Support of Designated Uses:

- All Uses Fully Supported, no sources present
- All Uses Fully Supported, sources present
- One or More Uses Threatened
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Trophic Status:

lakes only

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Trophic Trend:

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*** TOXICS ***

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Causes Nonattainment: Yes , No , Pollutant _____

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NPDES Permit Name: _____
Causes Nonattainment: Yes , No , Pollutant _____

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Nonpoint Source Type: _____
Nonpoint Source Description: _____

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Nonpoint Source Type: _____
Nonpoint Source Description: _____
