ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION

1989 NONPOINT SOURCE WATER QUALITY ASSESSMENT

SHORT DATA FORM

Name of Waterbody: GIBSON COVE; WOMENS BAY, KODIAK

Location or Lat/Long:

Waterbody Type:
- [ ] River/Stream
- [ ] Lake
- [ ] Fresh Wetland
- [ ] Tidal Wetland
- [ ] Estuary
- [x] Coastal Shoreline
- [ ] Groundwater

Waterbody Size:
- ____ Miles
- ~10 Acres/Hectares
- ____ Acres/Hectares
- ____ Acres/Hectares
- ____ Square Miles
- ____ Square Miles

Segment of Waterbody Addressed:
- **From:** Head of Cove
- **To:** Mouth of Cove
- **Other Description:**
- **Size of Segment:**

Describe Source of Pollution and Documentation Provided:
- Seafood processing wastes
- Sedimentation from runoff (upland)

Type of Documentation (attached if possible):
- [ ] Water quality data
- [ ] Documented oil spill
- [ ] NOV, Enforcement action
- [x] Photos with documentation
- [ ] Photos without documentation
- [x] Written report
- [x] Field notes
- [ ] Overflight
- [x] Observation
- [ ] Other

Comments: Our shop has been involved with this issue for many years, as the waterbody is part of the Womens Bay subunit of the Kodiak National Wildlife Refuge. We have conducted a numbers SCUBA survey of the area. Limited reports exist. Trace chemistry and hydrocarbon data has been generated.

Author of This Assessment: Wayne M. Crayton **Affiliation:** USFWS **Date:** 6/30/89

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

__ 0 Cause Unknown
S 1 Unknown toxicity
__ 2 Pesticides: Type _____
__ 3 Priority organics: Type _____
__ 4 Nonpriority organics: Type _____
__ 5 Metals: Type _____
S 6 Ammonia
S 7 Chlorine
__ 8 Other inorganics
__ 9 Nutrients
__ 10 pH
H 11 Siltation
__ 12 Organic enrichment
__ 13 Salinity/TDS/Chlorides
M 14 Thermal modifications
__ 15 Flow alteration
M 16 Habitat alteration
__ 17 Pathogens
__ 18 Radiation
M 19 Oil and Grease
__ 20 Taste and Odor
H 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
H 6 Other dischargers

Nonpoint Sources
__ 9 Unspecified

Agriculture
__ 11 Non-irrigated crop production
__ 12 Irrrigated crop production
__ 13 Specialty crop production
__ 14 Pasture land
__ 15 Range land
__ 16 Feedlots
__ 17 Aquaculture
__ 18 Animal holding areas
__ 19 Manure lagoons

Silviculture
__ 21 Harvest, restoration
__ 22 Forest management
__ 23 Road construction/maintenance

Construction
H 31 Highway/road/bridge
H 32 Land development

Urban Runoff
__ 41 Storm sewers
__ 42 Combined sewers
H 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
__ 67 Septage disposal

Hydrologic Modification
__ 71 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/storage tank leaks
__ 83 Highway maintenance and runoff
__ 84 Spills
__ 85 In-place contaminants
__ 86 Natural
__ 87 Recreational activities
__ 88 Upstream impoundment
__ 89 Salt storage sites
__ 99 Septic tank seepage

ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION

1989 NONPOINT SOURCE WATER QUALITY ASSESSMENT

*** WATERBODY ***

Name of Waterbody: Gibson Cove

Location or Lat/Long: Kodiak

Waterbody Type:
- [ ] River/Stream
- [ ] Lake
- [ ] Fresh Wetland
- [ ] Tidal Wetland
- [X] Estuary
- [ ] Coastal Shoreline
- [ ] Groundwater

Waterbody Size:
- ____ Miles
- ____ Acres/Hectares
- ____ Acres/Hectares
- ____ Acres/Hectares
- ____ Square Miles
- ____ Square Miles

ADEC USE ONLY
304l: N L M S
WQL: 0 - N
1 - PS
2 - NPS
3 - WQS
4 - Con/Enf
ID#: ____

Segment of Waterbody Addressed:
From:
To:
Other Description: Near Kodiak
Size of Segment:

USGS Hydrologic Unit #: AK 190 -20701-6005

*** ASSESSMENT ***

Describe Source of Pollution and Documentation Provided:
Reduction Plant outfall.
Outfall plume visable - documented on videotape by WDO
EPA Dive Survey Documented Accumulation of debris on Flow.

Type of Documentation (Attached If Possible):
- [ ] Water quality data
- [ ] Documented oil spill
- [X] Enforcement action
- [ ] Photos with documentation
- [ ] Photos without documentation
- [ ] Written report
- [ ] Field notes
- [ ] Overflight
- [ ] Observation
- [ ] Other

Assessment type:
- [ ] Monitored
- [X] Evaluated

Violation of Water Quality Standards:
- [ ] **Past** Violation Documented
- [ ] **Current** Violation Documented
- [ ] **Current** Violation Suspected
- [ ] **Future** Violation Projected

Waterbody Status:
- [ ] Impaired - Past
- [ ] Impaired - Current
- [ ] Suspected
- [ ] Unimpaired

Comments:
CHRIS KENT ADEC/EQ/WQM 8/89

Author of This Assessment: B. Erickson **Affiliation:** ADEC **Date:** 88/04 YY/MM

*** USE STATUS ***

Meets Clean Water Act Goals:

[ ] Fishable
[X] Not Fishable
[ ] Fishable Not Attainable

[ ] Swimmable
[X] Not Swimmable
[ ] Swimmable Not Attainable

Impaired Uses:

FRESHWATER
[X] Drinking
[X] Agriculture
[X] Aquaculture
[X] Industry
[X] Recreation, Contact
[X] Recreation, Secondary
[X] Fish, Shellfish, Wildlife

MARINE
[ ] Aquaculture
[ ] Seafood Processing
[ ] Industry
[ ] Recreation, Contact
[ ] Recreation, Secondary
[ ] Fish, Shellfish, Wildlife
[ ] Harvest of Fish, Shellfish

Support of Designated Uses:

[X] One or More Uses Not Supported (Impaired)
[ ] One or More Uses Partially Supported (Partially Impaired)
[ ] One or More Uses Suspected to Be Affected (Suspected)
[ ] One or More Uses Projected to Become Affected (Projected)
[ ] All Uses Fully Supported, sources present (Unimpaired)
[ ] All Uses Fully Supported, no sources present (Unimpaired)

Trophic Status:

[ ] Oligatrophic
[ ] Mesatrophic
[ ] Eutrophic
[ ] Hypereutrophic
[ ] Dystrophic
[X] Unknown

Trophic Trend

[ ] Improving
[ ] Stable
[ ] Deteriorating
X UNKNOWN

*** TOXICS ***

Monitored for Toxics: [ ] Yes [X] No

Type of Toxics Monitoring:

[ ] 1 Organics in water column
[ ] 2 Organics in sediments
[ ] 3 Organics in fish tissue
[ ] 4 Organics in discharges
[ ] 5 Pesticides in water column
[ ] 6 Pesticides in sediments
[ ] 7 Pesticides in fish tissue
[ ] 8 Pesticides in discharges
[ ] 9 Metals in water column
[ ] 10 Metals in sediments
[ ] 11 Metals in fish tissue
[ ] 12 Metals in discharges
[ ] 13 Other inorganics in water column
[ ] 99 Other inorganics in sediments
[ ] 99 Other inorganics in fish tissue
[ ] 14 Other inorganics in discharges
[ ] 15 Toxicity testing of water column
[ ] 16 Toxicity testing of sediments
[ ] 17 Toxicity testing of discharges

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

*** NONATTAINMENT CAUSES ***

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

__ 0 Cause Unknown
__ 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
__ 10 pH
__ 11 Siltation

H 12 Organic enrichment
__ 13 Salinity/TDS/Chlorides
__ 14 Thermal modifications
__ 15 Flow alteration
__ 16 Habitat alteration
__ 17 Pathogens

__ 18 Radiation
M 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
H 1 Industrial
__ 2 Municipal
__ 3 Municipal pretreatment
__ 4 Combined sewers
__ 5 Storm sewers
__ 6 Other dischargers

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
__ 19 Manure lagoons

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
__ 67 Septage disposal

Hydrologic Modification
__ 71 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/storage tank leaks
__ 83 Highway maintenance and runoff
M 84 Spills
__ 85 In-place contaminants
__ 86 Natural
__ 87 Recreational activities
__ 88 Upstream impoundment
__ 89 Salt storage sites
__ 99 Septic tank seepage

DESCRIBE POLLUTANTS AND POLLUTANT SOURCES. THE BASIS FOR THE DETERMINATION THAT A WATERBODY IS IMPAIRED MUST BE EXPLAINED IN THIS SECTION. DESCRIBE THE NATURE OF THE VIOLATION OF WATER QUALITY STANDARDS, INCLUDING DATA OR OTHER DOCUMENTATION IN RELATION TO STANDARDS. ALSO DESCRIBE WHETHER THE VIOLATION IS CONSIDERED PAST OR CURRENT, AND OTHER RELEVANT INFORMATION.

KRI industry discharge - high organic wastewater
- unground processed - Fish guts
Oil spills From KRI, VESSELS

EPA cited KRI $80,000 Fine - current discharge
unground Fish wastes.

Air pollution problem - particulates.

HAZ wastes - oil with high halogens waste oil tank
Struck by truck of Fish wastes (week old) RR tank
car (3,500 gal)

May 1989 304(l) Long List based on fish wastes and
Enforcement actions.

Point Sources:

NPDES Permit Number: _____
NPDES Permit Name: _____
Causes Nonattainment: [ ] Yes [ ] No
Pollutant: _____

NPDES Permit Number: _____
NPDES Permit Name: _____
Causes Nonattainment: [ ] Yes [ ] No
Pollutant: _____

Nonpoint Sources:

Nonpoint Source Name: KRI
Nonpoint Source Type: reduction Plant outFall
Nonpoint Source Description: _____

Nonpoint Source Name: _____
Nonpoint Source Type: _____
Nonpoint Source Description: _____

ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION
1992 STATEWIDE WATER QUALITY ASSESSMENT

NAME OF WATERBODY: Gibson Cove, Kodiak

Location or Lat/Long: Approx: 57° 47' N, 152° 27' W

also: Sec 1, T. 28S., R. 20W., S.M.

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

Waterbody Type:	Waterbody Size:	Segment of Waterbody Addressed:
[ ] River/Stream	____ Miles	From:
[ ] Lake	____ Acres/Hectares	To:
[ ] Fresh Wetland	____ Acres/Hectares	Other Description:
[X] Tidal Wetland	____ Acres/Hectares	
[X] Estuary	0.5 Square Miles	Size of Segment:
[X] Coastal Shoreline	____ Miles	
[ ] Groundwater		

Period of Assessment, From: ____ **To:** ____

Type of Documentation (attach if possible):

[ ] Water quality data	[ ] Written report
[ ] Documented oil spill	[ ] Field notes
[ ] NOV / Enforcement action	[ ] Overflight
[ ] Photos with documentation	[X] Observation
[ ] Photos without documentation	[ ] Other

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

For documentation, please contact either:

Florence Carol
WD-135
Environmental Protection Agency, Region 10
1200 6th Avenue
Seattle, Washington 98101

or

Robert Dolan
Alaska Department of Environmental Conservation
3601 "C" Street, Suite 1350
Anchorage, AK 99503

RESPONDENT INFORMATION:

Name: Wayne Dolezal **Phone:** 267 2284 **Date:** 4/3/92
Employer: SOA **Dept:** Fish & Game **Title:** Habitat Biologist
Address: 333 Raspberry Road Anchorage AK
Education/Experience:

E. Hubbard, Water Quality Mgmt., ADEC, 410 Willoughby Ave., Juneau, AK 99801-1795 / 907-465-5306

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

POLLUTANTS:

__ 0 Cause unknown
__ 1 Unknown toxicity
__ 2 Pesticides: _____
__ 3 Priority organics: _____
__ 4 Nonpriority organics: _____
__ 5 Metals: _____
__ 6 Ammonia
__ 7 Chlorine
__ 8 Other inorganics
__ 9 Nutrients
__ 10 pH
__ 11 Siltation/sedimentation
__ 12 Low dissolved oxygen
__ 13 TDS/Salinity/Chlorides
__ 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
__ 30 Other: _____

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

Point Sources:
H 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:
S 40 Surface runoff
__ 40 Storm sewers

Waste Disposal:
__ 61 Sludge
__ 62 Wastewater
__ 63 Landfills
__ 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
H 96 Fish, shellfish wastes
__ 90 UNKNOWN SOURCE