



COPY BOARD. 4
G.W. 1768-2
E.A. 1768
W. RES. 1768

INDIAN AND NORTHERN AFFAIRS - CANADA
NWT REGION
MAY 10 2001
WATER RESOURCES DIVISION
YELLOWKNIFE, NT
JOHN BROWN/SHELL CANADA

INDUSTRIAL WATER USE INSPECTION REPORT
(OIL AND GAS EXPLORATION, PRODUCTION, PROCESSING AND REFINING)

| | | | |
|-----------|---|-----------------|------------|
| DATE: | FEBRUARY 27, 2001. | COMPANY REP: | DAVE BARRY |
| LICENSEE: | SHELL CANADA LTD. REINDEER CHANNEL BARGE CAMP. | LICENCE NUMBER: | N711-1768. |

WATER SUPPLY:

| | | | | | |
|---------|-----------------|----------------|--|------------|---------------|
| Source: | MACKENZIE RIVER | Quantity Used: | | Meter Rdg: | BY TRUCKLOAD. |
|---------|-----------------|----------------|--|------------|---------------|

Indicate: A - Acceptable U - Unacceptable N/A - Not Applicable N/I - Not Inspected

| | | | | | | | |
|-------------------|---|--------------------|-----|-------------------|-----|---------------|-----|
| Intake Facilities | A | Storage Structures | A | Treatment Systems | N/I | Recycling | N/A |
| Flow Meas. Device | A | Conveyance Lines | N/A | Pumping Stations | A | Modifications | N/A |

Comments: THERE WAS A SCREEN ON THE WATER INTAKE.
NO PROBLEMS NOTED WITH WATER SUPPLY.

WASTE DISPOSAL:

| | | | | | | | | |
|--------------|---------------|-----|------------------|-----|--------------------|-----|-----------------|-----|
| Well Wastes: | Drilling Sump | N/A | Off-Site Removal | N/A | Downhole | N/A | Landspread | N/A |
| Sewage: | Sewage Treat. | U | Camp Sump | N/A | Natural Water Body | ✓ | Wetlands Treat. | N/A |
| | Continuous | | Inter. Discharge | A | | | | |
| Solid Waste: | Open Dump | N/A | Landfill | N/A | Burn & Bury | A | Sludge Disposal | N/A |

Indicate: A - Acceptable U - Unacceptable N/A - Not Applicable N/I - Not Inspected

| | | | | | | | |
|-------------------|-----|------------------|-----|-------------------|-----|-----------|----------------|
| Discharge Quality | U | Conveyance Lines | A | Disch. Meas. Dev. | A | Freeboard | N/A |
| Decant Process | N/A | Sump Treatment | N/A | Dykes, Berms | N/A | Seepages | N/A |
| Sump Liners | N/A | Runoff Diversion | N/A | Erosion | N/A | Spills | NONE REPORTED. |

| | | | |
|--------------------------|----------------|------------------------|---------------------------|
| Effluent Discharge Rate: | PER WATER USE. | SNP Samples Collected: | YES. FREQUENCY INCREASED. |
|--------------------------|----------------|------------------------|---------------------------|

Comments: THE LICENSEE STOPPED DISCHARGING EFFLUENT TO MACKENZIE RIVER ON FEBRUARY 24, 2001. THE LICENSEE'S RBC UNIT IS NOT TREATING SEWAGE EFFLUENT TO MEET LICENCE REQUIREMENTS. THE LICENSEE IS RE-CIRCULATING EFFLUENT THROUGH A TEMPORARY 10,000 GALLON TANK. THE LICENSEE WAS TOLD NOT TO DISCHARGE TO RIVER UNTIL EFFLUENT MEETS LICENCE CONDITIONS.

GENERAL CONDITIONS:

Indicate: A - Acceptable U - Unacceptable N/A - Not Applicable N/I - Not Inspected

| | | | | | |
|-------------------------|-----|-----------------------|-----|------------------------------------|------------------|
| Maintenance | N/A | Records & Reporting | U | Surveillance Network Program (SNP) | U |
| Geotechnical Inspection | N/A | Posting of Facilities | U | Contingency Plan | UNDER REVIEW. |
| A & R Plan | N/A | Modifications | N/A | Fuel/Product Storage | A |
| Groundwater Discharge | N/A | Chemical Storage | N/A | Annual Report | DUE MARCH 31/02. |

Comments: THE LICENSEE WAS ASKED TO SAMPLE SNP 1768-1 TWICE PER WEEK UNTIL FOUR SAMPLES WERE TAKEN TO ASSESS EFFLUENT QUALITY. UNDER NO CIRCUMSTANCES IS THE LICENSEE TO DISCHARGE EFFLUENT ABOVE LICENCE LIMITS.

Violation(s) of Act and/or Licence: VIOLATIONS: 1. PART B, ITEM 5; SNP 1768-1 NOT POSTED.
2. PART D, ITEM 4; THE LICENSEE DISCHARGED SEWAGE EFFLUENT OVER LICENCE LIMITS.

General Comments: THE MANUFACTURER OF THE SEWAGE TREATMENT FACILITY, ECO-TECH WATER SYSTEMS LTD., WAS ON SITE TO ASSIST LICENSEE.

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| Additional Comments Attached: | Yes | No | X |
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Inspector's Signature:

Licensee Representative's Title: NOT AVAILABLE.

Inspector's Title: WATER RESOURCES OFFICER

Licensee Representative's Signature: NOT AVAILABLE.

