



MUNICIPAL WATER LICENCE INSPECTION REPORT

DATE:	March 14, 2005	COMPANY REP:	Herb Davies
LICENSEE:	Arctic Oil and Gas Services Inc. (AOGS)	LICENCE #:	N7L1-1758

WATER SUPPLY – Figures 1-3 below

Source:	Mackenzie River	Quantity Used:	<100 m ³ /day See Annual Report	Meter Rdg:	1540.6 m ³
Owner/Operator:	AOGS				

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

Intake Facilities	A	Storage Structures	A	Treatment Systems	A	Chem. Storage	A
Flow Meas. Device	A	Conveyance Lines	A	Pumping Stations	A	Modifications	N/A

Concerns:

1. Fish Screen inappropriate and does not meet March 1995, DFO Protocol (Figure 1): Effective screen area is too small. Due to suction pressure during water uptake fish screen will not ensure no “entrapment of fish”. A cylindrical screen with the proper mesh size is recommended.

Notes:

- Water meter (Figure 3) is used to track water volumes. Reading was 1540.6 m³ of truck loads are also tracked.
- Water treatment facilities are very clean and in excellent condition (Figure 2). The system consists of a UV, flocculation, chlorination, de-chlorination, filtration system.
- Currently the facility is using 15-30 m³ every two days.
- 2003 Annual Report did not indicate expedience of 100 m³/day. Water withdrawal for 2003 did not exceed 34.3 m³/day (December 31, 2003).

WASTE DISPOSAL – Figures 4-6 below

Sewage	Sewage Treatment System (primary, secondary, or tertiary):		RBC unit plus tertiary Sewage Lagoon				
	Natural Water Body:	✓	Continuous Discharge (land or water):				
	Seasonal Discharge:	Yes in fall from the sewage lagoon	Wetlands Treatment:	N/A	Trench:	N/A	

Solid Waste	Owner/Operator:	AOGS					
	Landfill:	N/A	Burn & Landfill:	Combustibles	Other:	All non-combustibles are hauled to Inuvik SWDS	

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

Discharge Quality:	A	Construction:	N/A	Disch. Meas. Dev.	N/A	Freeboard:	A
Decant Structures:	N/A	O&M Plan:	A	Dams, Dykes:	N/I	Seepages:	N/I
Dyke Inspections:	N/I	A&R Plan:	A	Erosion:	N/I	Spills:	04-212

Periods of Discharge:	Fall of each year. No sewage was discharged in 2004.	Effluent Discharge Rate:	Pump rate from lagoon.
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Concerns: No concerns at this time.

Notes:

- New UV tube put in 2004.
- No discharge from the Sewage Lagoon in 2004. Sewage was discharged to land in 2003.
- Please ensure the O&M, Contingency Plan, A&R Plan, and QA/QC Plan are updated and/or revised to reflect any recent changes to operations.
- 04-212 cleaned up. And confirmed by Gordon Seabrook.
- Please ensure the Water Licence Amendment dated December 13, 2002 on sewage discharge criteria is included in the New Water Licence.

FUEL STORAGE – Figures 7-9 below

Owner:	AOGS	Operator:	AOGS	Condition of Tanks:	Good
Berms & Liners	A	Water within Berm:	Winter	Evidence of Leaks:	None seen
Drainage Pipes:	N/I	Pump Station and Catchment Berm:	N/I		
Pipeline Condition:	N/I				

Concerns: No concerns at this time. Further inspection will occur this summer.

Notes:

- No condition in Water Licence. Private Lands.

SERVELLANCE NETWORK PROGRAM (SNP) – Figure 10 below

Samples Collected (Hamlet)	Samples recently collected to look at the performance of the system. No samples collected as per SNP requirements as the only discharge is the Sewage Lagoon during operations and not the Mackenzie River. There was no discharge from the sewage lagoon in 2004.			
(DIAND)	No samples collected at this time. Winter Conditions.			
Signs Posted: SNP	N/I – Winter conditions. Please ensure the signs are posted.	Warning	N/I	
Records & Reporting:	2003 Annual Report Received and complete.			
Geotechnical Inspection	N/A			

Concerns:

1. Please ensure SNP 1758-1 is posted.

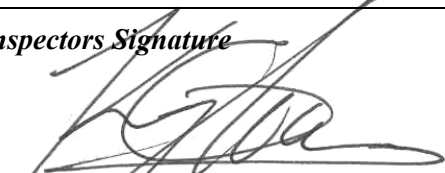
Notes: No notes.

Non compliance / Violations of Act or License:	<i>1. Part B, section 7. Water Licence not present and/or producible to Inspector at site of operation.</i>
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General / Additional Inspection Comments:

1. Water Licence could not be produced
2. Water Licence Renewal Application Received March 10, 2005. Water Licence Expires September 30, 2005.
3. 2004 Annual Report id Due March 31, 2005.

Figures Below:	Yes	X	No	
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Inspectors Name Kevin R. Glowa (M.Sc.,R.P. Bio.) Water Resource Officer	Inspectors Signature 
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LIST OF FIGURES FOR INSPECTION REPORT

Figure 1. Water Supply. Fish screen used at Mackenzie River water uptake station.



Figure 2. Water Supply. Fresh Water UV, flocculation, chlorination, de-chlorination, filtration system.



Figure 3. Water Supply. Water Intake Meter (1540.6 m³).



Figure 4. Waste Disposal. Sewage treatment building and storage tank.



Figure 5. Waste Disposal. Sewage Treatment RBC system.



Figure 6. Waste Disposal. Sewage treatment RBC system UV tube.



Figure 7. Fuel Storage. Fuel storage area.



Figure 8. Fuel Storage. Fuel storage secondary containment.



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Figure 9. Fuel Storage. Fuel storage secondary containment.



Figure 10. SNP. SNP sampling station 1793-1.



Figure 11. General. Swimming point (picture taken on March 3, 2005).



Figure 12. General. Swimming Point (picture taken March 3, 2005).



Figure 13. Fuel Storage. Swimming Point camp.

