4. Have any spills occurred in the past five years?
☐ Yes ☑ No

If yes, describe and show on a map the locations of the spills. What action has been taken to clean the affected areas?

Not that we are aware of

Monitoring Program

1. Is water sampling and analysis done ?
☐ No ☑ If Yes, answer the questions a to e

a. Briefly describe how samples are taken and sent to the laboratory.

Monthly water samples collected. Analysis @ Rankin Health Centre

b. Briefly describe any monitoring done for wastewater effluent and leachate.

Per SNP of water licence.

c. Who is responsible for water sampling ?

Don Harry Aggark
Name
Hamlet Foreman
Position
867 - 898-9951
Telephone #
Fax #
Level of training

d. Laboratory performing analysis of samples.

~~KRHB~~ KRHB
Name
Rankin
Address
Telephone #
Fax #

e. Are any changes planned in the water quality monitoring program?
☑ Yes ☐ No
If yes, describe.
Sampling per water licence SNP.

VII. PUBLIC CONCERNS

1. What concerns does the municipality or residents have regarding the municipal water supply or waste disposal facilities? List the concerns and describe what steps have been taken to address those concerns.

No Concerns expressed

VIII. PUBLIC HEALTH *(To be filled by the Regional Environmental Health Officer)*

1 Date: July 17/99

2. Municipality: (for) Chesterfield Inlet

3. Contact:

Bill Rideout
Environmental Health Officer Contact

645-2171
Telephone #

645-2409
Fax #

4. Have there been any problems or health/environmental concerns with drinking water ?

☐ Yes ☑ No

If yes, describe

The Hamlet requires a back up chlorine injection pump at the pumphouse.

5. Have there been any problems or health/environmental concerns with sewage disposal/treatment?

☐ Yes ☑ No

If yes, describe

I am interested in seeing results of waste water samples taken as part of the monitoring program

6. Have there been any problems or health/environmental concerns with solid waste disposal?

☐ Yes ☑ No

If yes, describe

I would like to see household hazardous waste separated from refuse. The aerosol cans, plastics, etc. could then be buried and not burned

Monitoring Program

1. Does the Regional Health Board perform water quality sampling?
☐ No ☑ If Yes, answer questions (a) to (e)

a. Briefly describe the sampling methodology.
Drinking water is sampled monthly and tested for the presence of total & faecal coliforms using the membrane filtration technique.

b. Briefly describe any monitoring of wastewater effluent and leachate.
Done by Hamlet

c. Who is responsible for sampling ?

Titi Kudlak
Name

DPWT + TS
Position

898 - 9914
Telephone #

898 - 9064
Fax #

Level of training

d. Laboratory performing analysis of samples.

Name

Address

Telephone #

Fax #

e. Are any changes planned in the water quality monitoring program?
☑ Yes ☐ No
If yes, describe.
Background fluoride levels will be monitored in the event that the Hamlet decides to fluoridate the water supply.

☐ Yes ☐ No
If yes, describe

6. Have there been any problems or health/environmental concerns with solid waste disposal?

☐ Yes ☐ No
If yes, describe

Monitoring Program

1. Does the Regional Health Board perform water quality sampling?
☐ No ☐ If Yes, answer questions (a) to (e)

a. Briefly describe the sampling methodology.

b. Briefly describe any monitoring of wastewater effluent and leachate.

c. Who is responsible for sampling ?

Name

Position

Telephone #

Fax #

Level of training

d. Laboratory performing analysis of samples.

_____
Name

_____
Address

_____
Telephone #

_____
Fax #

e. Are any changes planned in the water quality monitoring program?
☐ Yes ☐ No
If yes, describe.

_____

_____

IX. TECHNICAL INFORMATION *(Assistance from the Regional Municipal and Community Affairs Office)*

1. Date: _____

2. Municipality: _____

3. Contact: _____
MACA Representative/Position

_____
Telephone #

_____
Fax #

4. Population (according to most recent census results): _____

5. Estimated growth rate over next 5 years: _____

6. Has any baseline data collection and evaluation been undertaken with respect to the physical, biological, and chemical characteristics of the main water bodies in the area?
☐ No ☐ Yes
If yes, provide details below:

Prepared by Title Completion Date

If no, are such studies being planned?

☐ No☐ Yes (If yes, when and by whom):

7. Have Elders been consulted in the collection of baseline data on main water bodies in the area?

☐ No☐ Yes.

If yes, specify.

8. Has any baseline data collection and evaluation been undertaken with respect to the various biophysical components of the environment potentially affected by the project?

☐ No ☐ Yes

If yes, provide details below.

Prepared by Title Completion Date

If no, are such studies being planned?

☐ No☐ Yes. If yes, specify:

Attachments

1. Attach detailed plan or drawing(s) of the present *solid waste disposal area*. Include the following information:

   a. details of pond size and elevation;
   b. details of all retaining structures (dimensions, materials of construction, etc.);
   c. details of the drainage basin, and existing and proposed drainage modifications;
   d. details of all decant, siphon mechanisms etc., including sewage treatment facilities;

e. details regarding direction and path of wastewater flow from the area;
f. distance from watercourses and fish bearing waters;
g. location and construction of liners;
h. leachate and groundwater collection systems; and
i. control structures.

2. Attach detailed plan or drawing(s) of the present *sewage treatment system*. The drawing(s) should include the following:

a. details of all retaining structures (dimensions, materials of construction, etc.);
b. details of the drainage basin, and existing and proposed drainage modifications;
c. details regarding direction and path of wastewater flow from the area;
d. indications of the distance from watercourses and fish bearing waters;
e. all sources of seepage presently encountered near these areas, including volumes (m^3/day) and directions.

Are drawings for the solid waste disposal area and sewage treatment system attached?

☐ Yes ☐ No

If Yes, who has provided them ?

_____

_____

If no, indicate when they will be available

_____

Hydrology

1. Effects on surface water flow:

Are any stream channels altered?	☐ Yes ☐ No
Is the natural storage or water level of any lake or pond changed?	☐ Yes ☐ No
Are there changes in water flow downstream of the project?	☐ Yes ☐ No
Is a storage reservoir created in a natural channel?	☐ Yes ☐ No

If yes to any of the above, briefly describe the expected change in flow or storage:

_____

_____

2. Drainage Area:

What is the drainage area? _____km^2

What is the average elevation of the drainage basin? _____metres

Is the drainage basin outlined on an attached map? ☐ Yes ☐ No

Describe the drainage basin characteristics, (vegetation, general soil type, lakes, swamps and permafrost areas, etc.)

3. Channel characteristics:
Is the course of any channel changed? ☐ Yes☐ No
If yes, describe measures to maintain stream bed and bank stability.

4. Will the cross-section of any watercourse be changed? ☐ Yes☐ No
If yes, describe the change and its effect on the flow capacity of the channel.

Water Supply

1. What is the rate of withdrawal from the source? _____ m^3/day.

2. Is water drawn from the source ☐ intermittently ☐ continuously

3. If it is drawn intermittently, during what month(s) is it drawn? _____

4. For what period is it drawn (days/weeks/months)? _____

5. What is the rate of flow of source (if river) or size (if lake)? _____

6. At the intended rate of water usage, describe the effects on the river or lake from which water will be drawn.

Water Intake

1. Please provide short descriptions of the following:

a. freshwater intake facility

b. operating capacity of the pumps

c. intake screen size

Water Storage

1. Type of water storage facility (check where applicable)
   ☐ Reservoir/Pond ☐ Storage tank ☐ None
   ☐ Other _____
   Description

2. If "reservoir":
   Is the reservoir lined? ☐ Yes☐ No
   What type of liner? _____ When was it installed?_____

3. Is a dam or dyke being used to store or alter the flow of water? ☐ Yes ☐ No

4. What are the dimensions of the dam or dyke?
   Length:_____ Width: _____ Height:_____
   U/S slope: _____ D/S slope: _____

5. Does the proposed dam create a reservoir in a natural watercourse?
   ☐ Yes☐ No
   If yes, what is the storage capacity and surface area of the reservoir?
   _____ m^3 _____ ha.

6. Will the dam or dyke affect fish migration or movement ?
   ☐ Yes ☐ No
   If yes, describe all measures for compensation of fish habitat lost due to the dam or dyke, and mitigations for fish migration or movement.

Water Treatment

1. Indicate the capacity of the treatment facility. _____ L/min

2. What is the capacity of the water storage facility._____ m^3

3. Describe the method of water treatment (i.e., backwash, flocculation, sedimentation, chemicals used), and provide the results of the most recent bacteriological and chemical analysis. Attach a diagram, if possible.

4. Are there any changes planned in the water treatment facilities?
   ☐ No ☐ Yes
   If yes, attach a copy of the plan or indicate changes and include an implementation schedule. Include excerpt from MACA Capital Plan if available.

Sewage Disposal

1. Indicate the level of sewage treatment:
   ☐ primary ☐ secondary ☐ tertiary
   Pre-treatment (if applicable): ☐ screening ☐ maceration
   Lagoons (if applicable): ☐ anaerobic ☐ aerobic ☐ facultative

2. Indicate the capacity of the sewage treatment facility_____ m^3

3. Based on current population projections, the facility will meet the needs of the community until the year _____ .

4. Average depth of the wastewater lagoon _____ m.

5. What is the design freeboard? _____ m.

6. Indicate the retention time of the sewage while in the treatment facility_____ days.

7. Indicate the estimated rate of discharge of wastewater_____ L/sec.

8. Indicate the location of the discharge point_____.

9. Is the discharge: ☐ seasonal ☐ continuous
If the discharge is seasonal, during what month(s) is it done? _____
What is the duration of the discharge (days/weeks/months) ? _____

10. Are there any changes planned in the sewage disposal facilities?
☐ No ☐ Yes
If yes, attach a copy of the plan or indicate changes and include an implementation schedule.

Include excerpt from MACA Capital Plan if available.

_____

_____

_____

Solid Waste Disposal

1. Indicate the capacity of the disposal area _____ m^3.

2. The *average* depth of the solid waste disposal site _____ m.

3. The current facility will meet community needs until the year _____.

4. Do any natural watercourse enter the solid waste disposal area? What methods are used to decrease the amount of runoff water entering these areas?

_____

_____

5. Indicate the volume of water that may enter these areas from any source(s) and attach all pertinent details of the diversions.

Source	Volume (m^3/day)
_____	_____
_____	_____
_____	_____

6. Please describe any diversions of watercourses:

7. Are there any changes planned in the solid waste disposal facilities?

☐ No ☐ Yes

If yes, attach a copy of the plan or indicate changes and include an implementation schedule. Include excerpt from MACA Capital Plan if available.

Other

1. Describe any additional details on the existing municipal facilities which should be considered by the Nunavut Water Board during it review.