

COMPLIANCE INSPECTION REPORT

SOUTH PLANTAGENET (FOURNIER)

SOLID NON-HAZARDOUS WASTE DISPOSAL SITE

REPORT PREPARED BY THE CORNWALL OFFICE OF THE MINISTRY OF THE ENVIRONMENT, EASTERN REGION

Inspected by: Marc Robert Inspection: June 13, 2001

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MINISTRY OF THE ENVIRONMENT SOLID NON-HAZARDOUS WASTE DISPOSAL SITE INSPECTION REPORT

COMPANY/MUNICIPALITY:

The Corporation of the Nation Municipality

MAILING ADDRESS:

958 Highway 500W., R.R. 3, Casselman, ON, K0A 1M0

INSPECTION SITE ADDRESS:

The South Plantagenet (Fournier) Waste Disposal

Site

N.W. 1/4 Lot 3, Concession 14 of old South Plantagenet Township in The Nation Township

SITE GPS COORDINATES:

CONTACT:

Name	Title	Phone	Fax
Mary McCuaig	Clerk	(613) 764-5444	(613) 764-3310
Hubert Burelle	Road Superintendent	(613) 764-5444	(613) 764-3310

INSPECTION DATE:

June 13, 2001

DATE OF LAST INSPECTION: July 9, 1998

1.0 INTRODUCTION

The purpose of the compliance inspection program is to confirm solid nonhazardous waste landfilling sites' compliance with Ministry of the Environment (MOE) legislation and control documents, and conformance with MOE waste disposal-related policy.

Specifically, this includes compliance / conformance with:

- Part V of the Environmental Protection Act (EPA);
- the General Waste Management Regulation (O.Reg. 347);
- the New and Expanding Landfilling Sites Regulation (O.Reg 232/98);
- Certificates of Approval (Cs of A);

- Orders (Provincial Officer's Orders and/or Director's Orders), and;
- MOE Guideline B-7 (Incorporation of the Reasonable Use Concept into MOE Groundwater Management Activities)

The South Plantagenet waste disposal site is located on the north-west quarter of Lot 3, Concession 14 of former South Plantagenet Township in The Nation municipality, approximately 6 km north of the Village of St. Isidore de Prescott. A map indicating the location of the site is found in Appendix A of this report.

A legal survey of the landfill site was completed on August 3, 1979 and revised on May 5, 1980.

The landfill site is a medium sized site covering 30.4 hectares and can be separated into two adjoining sections: the northern portion measuring some 730 metres in length by 305 metres in width and the southern section measuring approximately 735 metres in length by 150 metres in width. The northern and southern boundaries of the site abut County Road No. 10 and No. 15 respectively. The entire site is very well screened on all sides by dense to moderate forest and is surrounded by relatively flat agricultural land. A diagram of the waste disposal site is found in Appendix B of this report.

The waste disposal site's Certificate of Approval © of A) No. A471801 was first issued on January 29, 1979 and had been reissued several times since. The most recent C of A, dated April 16, 1980, is registered on title.

A copy of this C of A and supporting information are found in Appendix C of this report.

Number	Date (Y/M/D)	Description	Conditions
471801	71/01/29	landfill site	July 31, 1971 expiry date.
same	71/09/27	landfill site	August 31, 1972 expiry date.
same	72/08/25	landfill site	adequate fencing, entrance gate and supervision. April 30, 1973 expiry date.

same	73/05/08	landfill site	discontinue practice of open burning of domestic waste.
			covering of waste with 6 inches of earth at least once a week.
			April 15, 1974 expiry date.
same	74/04/18	landfill site	discontinue practice of open burning of domestic waste.
			April 15, 1975 expiry date.
same	75/05/07	landfill site	April 15, 1976 expiry date.
A471801	76/06/03	landfill site	April 15, 1977 expiry date.
same	80/04/16	30.4 hectare landfill site for the disposal of domestic and commercial wastes.	C of A to be registered on title.

2.0 INSPECTION OBSERVATIONS

Photos of the waste disposal site were taken during the inspection and are found in Appendix D of this report.

• Is there a record of financial assurance on the MOE file? If so, is it still appropriate for the site operation? If not, flag for review.

No.

At the time of the inspection there was no record of financial assurance for the landfill site, nor is one required by way of the site's C of A.

The site is owned by the Corporation of the Village of Casselman. Financial assurance is normally only required for privately owned waste disposal sites.

What is the approved total area of the site?

C of A No. A471801 date April 16, 1980 approved the use of a 30.4 hectare waste disposal site.

• What is the approved landfilling area (footprint) of the site?

There is no approved landfilling area (footprint) for the South Plantagenet waste disposal site. The waste footprint being the area of the landfill site where waste is deposited, covered and compacted. The size of the existing landfill site footprint is unknown.

Does the site have an approved capacity?

No.

A waste disposal capacity has not been approved for the landfill site.

According to the report entitled «Township of South Plantagenet Site Development and Operations Plan for Waste Disposal Site, February 1991», the landfill site life can be extended to the year 2025. This estimation was based on several factors (waste generation rates, population increases, service area, etc.) that have undoubtably changed since the report was written.

The MOE's protocol entitled «Landfill Capacity Determination, December 1993» should be used in order to determine the remaining waste disposal capacity of the landfill site.

• Has the footprint been flagged and/or is clearly identifiable?

No.

At the time of my inspection, there were no flags or markers at the site to identify the waste disposal footprint.

Although the landfill site's C of A does not require identification of the footprint, this practice is recommended so that waste is not inadvertently placed within the landfill site's buffer area. This was brought to the municipality's attention in the previous inspection report.

Are wastes being deposited outside of the footprint?

Not applicable. There is no footprint defined by the C of A.

At the time of my inspection, waste was being landfilled in a northerly direction in what appeared to be the legal boundaries of the South Plantagenet waste disposal site.

Waste tires, wood waste and a small amount of waste metal for recycling are being stockpiled at locations of the waste disposal site that are separate from the current waste landfilling area.

Is access to the site controlled?

Yes.

Access to the waste disposal site is regulated by the site's C of A which requires «that the site be adequately fenced and locked to prevent unauthorized entry...».

Access to the site is controlled by a gate that was locked at the time of my inspection. A fence has not been built around the entire landfill site. However, a wire fence separates west and south neighbouring lands from the site.

Access to the site is also regulated by Section 11(2) of Ontario Regulation 347 which states: «Access to the site shall be limited to such times as an attendant is on duty and the site shall be restricted to use by persons authorized to deposit waste in the fill area.»

At the time of my inspection, the site was closed to waste disposal activities and the entrance gate was closed and locked.

Are wastes being adequately covered?

No.

Waste covering is regulated by the landfill site's C of A which requires that «all waste materials be covered with six (6) inches of earth cover material, at least once per week, by a proper landfilling operation.» And by Subsection 11(13) of Regulation 347 that states that «Waste shall be deposited in an orderly manner in the fill area, compacted adequately and covered by cover material by a proper landfilling operation.»

According to Mr. Hubert Burelle, Road Superintendant for the Nation Municipality, waste that has been deposited at the landfill site is covered and compacted every Saturday by a private contractor: Leo Sarault and Sons Inc.

At the time of my inspection an adequate amount of cover material appeared to have been applied over most of the waste in the fill area of the landfill site. However, no cover material had been applied to the working face of the fill area.

The purpose of waste covering is to control insects, rodents, scavenging by birds,

blowing litter, fires, odours and to maintain an aesthetically pleasing site appearance. At the time of my inspection, odours at the landfill site were strong and unpleasant and a considerable amount of flies were present.

Where normally landfill base preparation requires the stripping of brush and trees, the municipality is instead dumping and covering waste in an area of thick brush. This is likely inhibiting proper compaction of the waste pile and contributing to the creation of landfill leachate and gas. This was brought to the municipality's attention in the previous inspection report.

A ramp method of waste disposal, which is similar to an area method of waste placement, is being employed at the waste disposal site. However, instead of unloading incoming waste at the toe of the working face where it is spread in layers to the height of the lift and compacted and covered, waste is placed on top of the working face and pushed over the edge. This technique does not provide for compaction and covering of the fill area's working face.

Is there evidence of burning?

No.

The burning of waste at the landfill site is regulated by its C of A which forbids the burning of domestic waste at the site.

At the time of my inspection there was no evidence of burning of domestic or other waste at the landfill site. A stockpile of waste wood was evident at the landfill site however it was not clear if the wood was being accumulated for burning.

Is there any obvious evidence of groundwater/surface water impact?

No.

At the time of my inspection there was no evidence of leachate springs, leachate ponding or wastes having been deposited in water.

Having said this, subsection 11(7) of Regulation 347states: «Where there is a possibility of water pollution resulting from the operation of a landfilling site, samples shall be taken and tests made by the owner of the site to measure the extent of egress of contaminants and, if necessary, measures shall be taken for the collection and treatment of contaminants and for the prevention of water pollution».

Groundwater and surface water monitoring were conducted during 1999 and is was determined that the landfill site is likely out of compliance with MOE Guideline B-7

along the south/southeastern property boundary. In other words, leachate from the waste disposal site is in all likelihood contaminating the groundwater beyond the boundaries of the site. The report concludes that the flow of groundwater is in a south-easterly direction throughout the site.

Three drainage ditches traverse the waste disposal site from west to east providing drainage for the waste disposal site and for agricultural lands on either side of the site. The most southerly ditch (ditch 1), located in the southern portion of the site, drains eastwards into Beaver Creek which drains into the Scotch River then into the South Nation River. It is the same for the middle drainage ditch (ditch 2) which is located in the northern portion of the site. The most northerly ditch (ditch 3), located in a gully, flows westward across the waste disposal site and then north towards the South Nation River.

According to the 1999 Groundwater and Surface Water Monitoring Report for the South Plantagenet Waste Disposal Site, it appears that the site is also in non-compliance with respect to impacts on surface water quality, most notably with respect to ditch 1.

The MOE reviewed the 1999 Groundwater and Surface Water Monitoring Report and recommended more rigorous groundwater and surface water monitoring programs.

• If a leachate control system is required for this site, is it operational?

No.

A leachate control system is not required for the landfill site by way of the site's C of A or other control documents.

The 1999 Groundwater and Surface Water Monitoring Report for the South Plantagenet Waste Disposal Site recommends the implementation of an expanded groundwater and surface water monitoring at the landfill site.

If a methane gas control system is required for this site, is it operational?

A gas control system is not required for the South Plantagenet waste disposal site nor has one been installed.

At the present time, there does not appear to be a need for a methane gas control system at the site. The strong odours that I noticed at the time of my inspection were likely caused by the incomplete covering of the waste along the working face of the landfill area and were not caused by a methane gas problem at the site.

• Is there evidence that wastes other than solid non-hazardous wastes are being deposited at the site?

No.

At the time of my inspection there was no evidence that wastes other than solid non-hazardous wastes are being deposited at the South Plantagenet waste disposal site.

Refrigeration equipment containing ozone depleting substances was not discovered amongst the pile of scrap metal at the site.

3.0 REVIEW OF OUTSTANDING ISSUES

A review of the MOE's Occurrence Report Information System (ORIS), since January 1, 1998 to date, revealed one occurrence on the South Plantagenet waste disposal site which pertained to the Ministry's 1998 compliance inspection of the landfill site.

There are presently no mandatory abatement requirements imposed upon the Nation Municipality for the South Plantagenet waste disposal site.

The following are recommendations found in the Ministry's 1998 compliance inspection of the landfill site that do not appear to have been followed:

- Steps should be taken to update and abide by the 1991 Site Development and Operations Plan by McNeely Engineering Consultants Ltd. This would facilitate compliance with Subsection 11(17) of Regulation 347, ensure proper on-site drainage and recommend correct daily operations and an efficient method of waste covering and compaction. The updated plan should include details on site closure and be incorporated into the landfill site's C of A by way of an amendment to the C of A.
- The boundaries of the waste disposal site and of the waste placement area should be clearly marked to ensure that waste is placed within the footprint and not beyond the legal boundaries of the landfill site and that adequate buffer areas are maintained.

4.0	SUMMARY OF INSPECTION FINDINGS (HEALTH/ENVIRONMENTAL
	IMPACT)

	IMPACT)		
•		any indication of a known or anticipated human health impact inspection and/or review of relevant material, related to this mandate ?	
	Yes	No	
	Specifics:		
•		ny indication of a known or anticipated environmental impact aspection and/or review of relevant material ?	
	Yes	No	
	Specifics:		
•	requiremen	ny indication of a known or suspected violation of a legal during the inspection and/or review of relevant material which a human health impact or environmental impairment?	
	Yes	No	
	Specifics:	The waste disposal site is likely impairing off-property ground and surface waters. This is in non-compliance with sections 11(3), 11(4) and 11(5) of Ontario Regulation 347.	
•		ny indication of a potential for environmental impairment aspection and/or the review of relevant material?	
	Yes	No	

The waste disposal site is likely impairing off-property ground and surface waters.

Specifics:

5.0 ACTION(S) REQUIRED

Known or anticipated environmental impairment from leachate migration from a waste disposal site or non-conformance with the MOE's Guideline B-7 is a priority for the MOE's solid non-hazardous waste program and warrants further evaluation and/or action to be taken on behalf of the owner of the landfill site.

The 1999 Groundwater and Surface Water Monitoring Report for the South Plantagenet Waste Disposal Site recommended the implementation of an expanded groundwater and surface water monitoring at the landfill site. The report was reviewed by staff from the Ministry of the Environment's Eastern Region Technical Support Section who proposed a more rigorous monitoring program than was proposed by the report.

Therefor, if it has not already done so, the Nation Municipality must initiate the monitoring program as recommended by the MOE in order to properly assess the extent of the contamination of the off-property surface and ground waters.

6.0 OTHER INSPECTION FINDINGS

It is my understanding from conversations with the clerk of the municipality that a waste disposal service agreement was signed between The Corporation of the Nation Municipality and Laflèche Environmental Inc. Since July 1, 2001 all municipal residential waste material from the Nation Municipality is being delivered and disposed of at the company's waste landfill site and this for a period of 10 years. According to the clerk, the municipality's solid commercial waste is still being sent to its landfill sites.

Should the municipality wish to continue waste disposal operations at the South Plantagenet waste disposal site, it must take steps to submit an application to amend the landfill site's C of A to include an operations and development plan for the site. If the municipality decides to close the landfill site it must undertake to submit an application to amend the landfill site's C of A to include a closure plan.

7.0 OCCURRENCE REPORT #: 9940008801

PREPARED BY ENVIRONMENTAL OFFICER:

Marc Robert	- Jan Jan	kingston/Cornwall	September 7, 2001
(Print)	(Signature)	(District/Area Office)	(Date)

ENDORSED BY DISTRICT SUPERVISOR:

V. L. Huggmed	Buggard	Kingston/Cornwall	Sent 14/01
(Print)	(Signatture)	(District/Area Office)	(Date)

REPORT MAILED OUT ON:

Sept 14, 2001

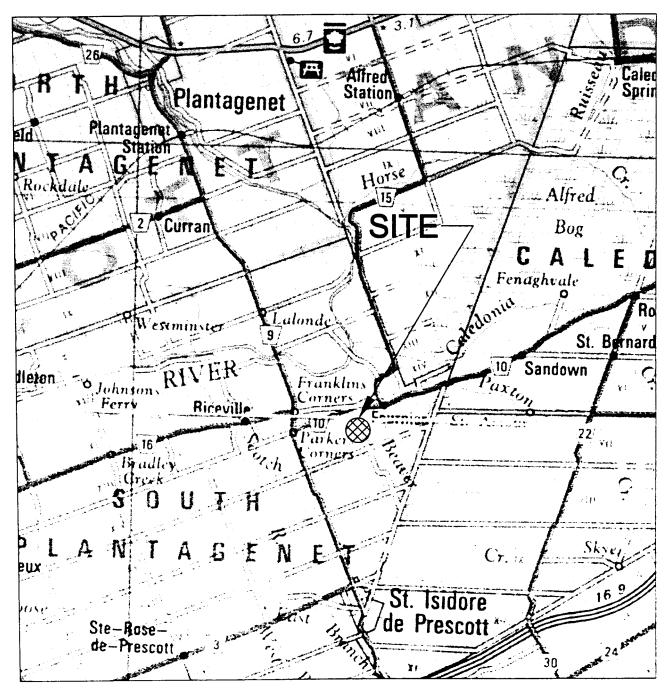
NOTE: "This inspection does not in any way suggest that there is or has been compliance with applicable legislation and regulations as they apply or may apply to this facility. It is, and remains, the responsibility of the owner and/or the operating authority to ensure compliance with all applicable legislative and regulatory requirements."

APPENDICES

A.	Landfill Site Location
B.	Diagram of the Landfill Site
C.	Certificate of Approval No. A471801 and Supporting Information
D.	Photos of Landfill Site

APPENDIX "A"

The Nation Municipality - South Plantagenet Waste Disposal Site Landfill Site Location



SCALE 1:125,000



SPECIAL NOTE
THIS DRAWING IS TO BE READ IN CONJUNCTION
WITH ACCOMPANYING REPORT

Date: MAY 19, 2000

Project: ..991-2836...



Drawn: ...K.T.

Chkd: AMH

APPENDIX "B"

The Nation Municipality - South Plantagenet Waste Disposal Site Diagram of the Landfill Site

APPENDIX "C"

The Nation Municipality - South Plantagenet Waste Disposal Site Certificate of Approval No. A471801 and Supporting Information



PROVISIONAL CERTIFICATE OF APPROVAL 8 1980 WASTE DISPOSAL SITE

Under The Environmental Protection Act, 1971 and the regulations and subject to the limitations thereof, this Provisional Certificate of Approval is issued to:

Township of South Plantagenet Fournier, Ontario KOB 1GO

for the use and operation of a 30.4 hectare landfilling site

all in accordance with the following plans and specifications:

Located: N.W.1/4 Lot 3, Concession 14
Township of South Plantagenet
Counties of Prescott and Russell

which includes the use of the site only for the receiving and disposal of the following categories of waste (NOTE: Use of the site for additional categories of wastes requires a new application and amendments to the Provisional Certificate of Approval) desertic and commercial wastes.

and subject to the following conditions:

1. No operation shall be carried out at the site after sixty days from this condition becoming enforceable unless this Certificate including the reasons for this condition has been registered by the applicant as an instrument in the appropriate Land Registry Office against title to the site and a duplicate registered copy thereof has been returned by the applicant to the Director.

Dated this 16th day of April , 1980

Director, Section 39,

The Environmental Protection Act, 1971

TO: Township of South Plantagenet Fournier, Ontario KOB 1G0

You are hereby notified that Provisional Certificate Approval No. A 471801 has been issued to you subject to to conditions outlined therein.

The reasons for the 'imposition of these conditions a as follows:

The reason for the condition requiring registration of the Certificate is that Section 46 of The Environmental Protection Act, 1971 prohibits any use being made of the lands after they cease to be used for waste disposal purposes in order to protect future occupants of the site and the environment from any hazards which might occur as a result of waste being disposed of on the site. This prohibition and potential hazard should be drawn to the attention of future owners and occupants by the Certificate being registered on title.

You may by written notice served upon me and the Environmental Appeal Board within 15 days after receipt of this Notice, require a hearing by the Board.

This Notice should be served upon:

The Secretary,
Environmental Appeal Board, AND
1 St. Clair Ave. West,
5th Floor,
Toronto, Ontario.
M4V 1K7

The Director, Section 39 Ministry of the Environment,

DATED

this 16th day of April

, 1980 .

Director,

Section 39

Ministry of Lun -

140E 1044 6/75

APPLICATION FOR A CERTIFICATE OF APPROVAL FOR A WASTE DISPOSAL SITE

AUG 10 1971

WASTE MANAGEMENT BRANCH KINGSTON OFFICE

No Carbon Paper Required

то	: THE DEPARTMENT OF ENERGY AND RESOURCES MANAGEMENT 880 Bay Street, Toronto, Ontario	To be submitted through Regional Waste Management Engineer
(1)	Under the Waste Management Act, 1970 and the regulations, this applica- tion is made by TOWNSHIP OF SOUTH PLANTAGENET	Owner of Facility
	FOURNIER ONT.	Address
-,	for the Renewal of a Certificate of Approval for a	Delete item inapplicable
	Domestie Waste. She	Type of Disposal
(3)	located Lat 3, Cow 1K.	Full perticulars of Location
(4)	A Provisional Certificate of Approval No. 47180) for this	Delete item inepplicable
,,,	site was issued	- Color Many mappingable
(5)	No change in use, operation, or ownership of the site has occurred since the date of the original application.	
	Dated this	
	Signature of Applicant	e, clistica
(6)	The following changes in use, operation or ownership (have occurred since the date of the original application) (are proposed)	Delete item inapplicable
		li necessary, provide additional details on separate sheets and attach to application.
	Continued on Attached Sheets	
(7)	The site will be operated in accordance with The Waste Management Act,	
	1970 and the regulations by Tup y f. Phant	Name of Operator
	FOURNIER ONT.	Address
	The required supporting information to the application is appended hereto.	
(8)	Notice of this application has been published in the	
,	and	•
(8)	A certificate that the site does not contravene any of the by-laws of the municipality is attached.	To be completed if applicant is other than a municipality
j	syste Management Branch	See notes on sections 1 to 9 on back of last copy (pink) which is to be rateined by Applicant

.1

Dated this Sometime

Ontario Department of Energy ...and Resources Management

LANDFILL DISPOSAL SITE	
Westes to be Disposed of Comprise	2. Origin and Composition of Principal Components
Domestic .7%	Waste (other than domestic and commercial)
Commercial%	
Industrial Waste%	
Hauled Liquid Industrial Waste%	***************************************
Agricultural Waste	
Hazardous Wasta%	***************************************
Hauled Sewage% *Other%	***************************************

100%	***************************************
*Describe::::	
•••••••	***************************************

•	***************************************
Total Tons/Day	***************************************
Population Served. J. S. K.D.	4
Population Served. J	***************************************
1. 1.	
3. Distance to Nearest Watercourse	4. Maximum Depth of Excavation
Distance to Source of Potable Water 1000 42Ft.	Below Surface
Distance to Dwelling	Maximum Height of Fill
Distance to Public Road Gaa. Ft.	Above Surface Type(s) of Material Encountered
Distance to CemeteryFt.	From Surface
Total Area of Site	under felins in do
Anticipated LifeYears	heart and a
General Description of Site	assessment to Comer any
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	on (Dat
6. Proposed Future Land Use	6. Operating Equipment
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7. The Following Documents are Attached Prepared by Propared by P	Hours of Operation

APPENDIX "D"

The Nation Municipality - South Plantagenet Waste Disposal Site Photos of Landfill Site



1. Gate and sign at the entrance to the South Plantagenet waste disposal site.



2. Sign at the entrance to the South Plantagenet landfill site.



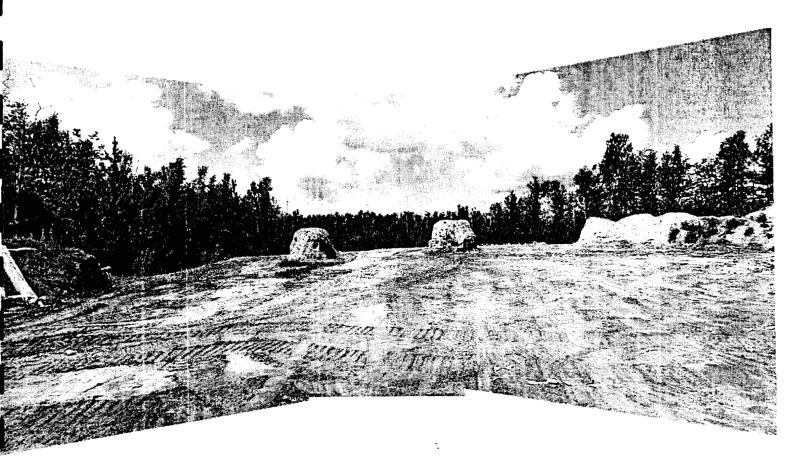
3. Locked gate at the entrance to the South Plantagenet waste disposal site.



4. Access road to the South Plantagenet landfill site.



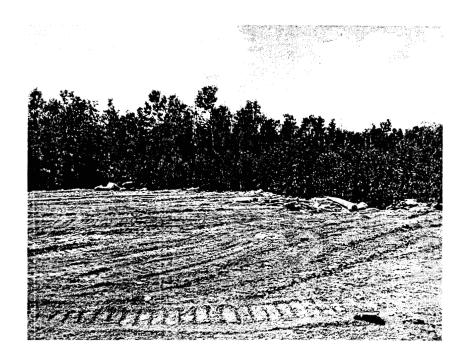
5. Stockpiles of cover material at the South Plantagenet waste disposal site.



6. View of the South Plantagenet waste disposal site footprint (looking north).



7. View of the west side of the South Plantagenet waste disposal site's current fill area.



8. View of the north edge of the South Plantagenet waste disposal site's current fill area.



9. View of the working face of the South Plantagenet waste disposal site's current fill area.



10. View of the working face of the South Plantagenet waste disposal site's current fill area.



11. View of the working face of the South Plantagenet waste disposal site.



12. View of the working face of the South Plantagenet waste disposal site.



13. View of the working face of the South Plantagenet waste disposal site current fill area.



14. View of the working face of the South Plantagenet waste disposal site current fill area.



15. Waste tires stockpiled at the South Plantagenet waste disposal site.



16. Wood waste stockpiled at the South Plantagenet waste disposal site.



17. Waste metal stockpiled at the South Plantagenet waste disposal site.



18. Waste metal stockpiled at the South Plantagenet waste disposal site.



19. Drainage ditch 1 at the South Plantagenet waste disposal site (facing east).



20. Drainage ditch 1 at the South Plantagenet waste disposal site (facing west).

Ministry of the Environment

113 Amelia Street Cornwall ON K6H 3P1 Telephone: (613) 933-7402 Fax: (613) 933-6402

Ministère de l'Environnement

113 rue Amelia Cornwall ON K6H 3P1 Téléphone: (613)933-7402 Télécopieur: (613)933-6402



September 14, 2001

Mary McGuaig, Clerk Corporation of the Nation Municipality 958 Road 500 West, R.R. #3 Casselman, ON K0A 1M0

Dear Madam:

Re: Compliance Inspection Report - South Plantagenet Disposal Site

The above-mentioned facility was inspected by Marc Robert, of this office, on June 13, 2001.

A copy of the report is provided. Your attention is directed to sections 5.0 and 6.0 of the report. Please provide a response by October 15, 2001.

Should you have any questions pertaining to the report, please do not hesitate to contact Marc Robert at extension 229.

Yours truly,

Robert Dunn Area Manager (Acting)

Cornwall Area Office

Kingston District

Réunion Conseil

Council Mtg _____ D / M / YR

Action ----

Creffier Z

MR:sp Enclosure

S:\GROUPS\WORDPRO\2001\Inspections\Waste\Fournier.wpd

MUNICIPALITÉ DE LA NATION / THE NATION MUNICIPALITY

958 route 500 ouest, Road 500 West, R.R. 3 Casselman, Ontario K0Á 1M0

> Tél./phone: (613) 764-5444 Bél./Fax: (613) 764-3310

PAGE COUVERTURE / COVER SHEET

Date:	Le 10 oct. roci	# bél./Fa	ex#: (<u>) 722-2799</u>
Envoyé à: / Sent to:	Gerry Ralinde	Cie / Cp	ny .: Starte Consulting
De / From:	Musy Ralinde		ny .: Inu, de ha nate
Client, Sujet/Matter:			
DESC	CRIPTION OF / DES DOCUMEN	ITS	# de pages incluant couverture # of pages including cover page
	set de 11 pages		
COMMENTS	S / COMMENTAIRES:		
Signature:	m. Derpuis		
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