

Environment Environnement Canada Canada Terrasses de la Chaudière 10 Wellington Street, 4th Floor Gatineau, Québec K1A 0H3

Tel: (819) 997-4552 Fax: (819) 953-1099 Shelley.Emmerson@ec.gc.ca

Our File Notre référence A-2008-00620 / pkp

Nunavut Water

January 5, 2010

Mr. Don Carr Technical Advisor Nunavut Water Board P.O. Box 119 Gjoa Haven, Nunavut X0B 1J0

Dear Mr. Carr:

We have received a request under the $\triangle cess$ to Information Act (the Act) for:

"Information in all electronic and paper format with respect to correspondence, faxes, emails and all attachments, held by employees both working in Ottawa and the regions and any contract employees, with respect to Eureka Weather Station management of water issues, sewage, environmental concerns, contracts and contract awards, and related intergovernmental correspondence from the period of 1 April 2008 to 4 November 2008."

Our records contain the enclosed document which originated from your department. I would appreciate it if you would review the documents and provide me with your comments regarding their disclosure.

If you have any objections to the documentation being made available to the applicant, I would appreciate you notifying me by January 25, 2010.

If you have any questions please feel free to contact Patti Page at (819) 934-6846.

Yours sincerely,

Shelley Emmerson

Manager

Access to Information & Privacy Secretariat

Enclosures: pages 70-78, 119-125, 210-212

Wastewater Disposal

The discharge from the sewage lagoon is within allowable limits for samples taken at the beginning of discharge on the same day. Concerns remain that a single large 'slug' of raw sewage effluent is discharged in a matter of hours. The Board agreed with Environment Canada's proposal to develop a wastewater, water quality and runoff sampling program (cover letter dated April 10, 2000). In order to obtain a more accurate representation of the discharge, EC should consider a decant mechanism which allows for the discharge of effluent over a period of days during the open water season with sampling at the beginning, middle and end of the discharge. Compliance with the effluent discharge limits can then be confirmed. Compliance is defined as per the Guidelines for the Discharge of Treated Municipal Wastewater in the Northwest Territories (1992). Section 4.3. Based on the results obtained, options for improved an improved treatment system can be explored further.

Total Silver

Since the closure of the photographic darkroom has eliminated the source for the discharge of silver the Surveillance Network Program at Station EUR-3 no longer requires monitoring for Silver. With respect to the regulated requirement for monitoring of Total Silver as required in the licence, an application for amendment should be filed with the Board to have the parameter removed.

in conclusion, the Board approves the document as presented pending results from a more detailed and representative sampling program and appropriate mitigation measures are imposed for stream diversion.

Should you require clarification or additional information please do not hesitate to contact me at the above or via email at <u>bionnet@polamet.ca</u>

Sincerely,

Dictine Fillatrault, P. Eng.

Technical Advisor

oc. B. Goalon, EC

R. Seavers, DIAND

P. Smith, DIAND

P. Lavallee, DIAND

J. DeGroot, DFO

P. Pacholek, EP-EC

Unknown

From:

Boulanger, Natalie [NCR]

Sent:

Tuesday, August 19, 2008 11:00 AM

To:

Rauch, Tim [Wpg]

Subject:

FW: 3BC-EUR0611 Spill Contingency Plan Addendum Attachments: 080819 3BC-EUR0611 SCP Addendum - OHCE.pdf

Sorry!!

Natalie Boulanger, P.eng

Manager, Distric 3 Property Management, Environment Canada 335 River Road Ottawa, Ontario K1A 0H3 courrier K1V 1C7

Tel: (613) 949-8555 Fax: (613) 949-9017 Cell: (613) 796-8327

From: Richard Dwyer [mailto:licensingadmin@nunavutwaterboard.org]

Sent: August 19, 2008 10:52 AM To: Boulanger, Natalie [NCR]

Cc: 'Don Carr'

Subject: 3BC-EUR0611 Spill Contingency Plan Addendum

Good morning,

Please see attached requesting spill plan addendum.

Regards,

Richard Dwyer Licensing Administrator Nunavut Water Board P.O. Box 119 Gjoa Haven, NU X0B 1J0 Ph (867)360-6338 ext. 29 Fax (867)360-6369

Please visit our website www.nunavutwaterboard.org

Charbonneau, Luc ATIP [NCR]

From: Boulanger, Natalie [NCR]

Sent: Tuesday, August 19, 2008 10:56 AM

To: 'Richard Dwyer'

Cc: 'Don Carr'; Rauch, Tim [Wpg]; Eureka Wx Stn; Boulanger, Natalie [NCR]

Subject: RE: 3BC-EUR0611 Spill Contingency Plan Addendum

Mr. Dwyer,

We will address the email below immediately.

Regards,

Natalie Boulanger, P.eng

Manager, Distric 3
Property Management, Environment Canada
335 River Road
Ottawa, Ontario
K1A 0H3
courrier K1V 1C7

Tel: (613) 949-8555 Fax: (613) 949-9017 Cell: (613) 796-8327

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Please see attached requesting spill plan addendum.

Regards,

Richard Dwyer
Licensing Administrator
Nunavut Water Board
P.O. Box 119
Gjoa Haven, NU X0B 1J0
Ph (867)360-6338 ext. 29
Fax (867)360-6369

Please visit our website www.nunavutwaterboard.org



P.O. Box 119 GJOA HAVEN, NU XOB 1JO Tel.: (867) 360-6338 FAX: (867) 360-6369 ወዲንና ልLሮሊትና bበLትጎና NUNAVUT IMALIRIYIN KATIMAYINGI NUNAVUT WATER BOARD OFFICE DES EAUX DU NUNAVUT

August 19, 2008

Ms Natalie Boulanger, Manager, District 3
Acting Head, Major Construction & Recapitalization Program (MCRP)
Environment Canada Property, Management, Environment Canada
335 River Road
Ottawa, ON K1A 0H3
Email: Natalie.Boulanger@ec.gc.ca

Subject: Further Addendum to Spill Plan Required

Dear Ms. Boulanger,

The NWB has conducted a review of your addendum to the document entitled "Oil Pollution Emergency Plan for Land Spills" dated February, 2008. After review it was noted that most of the requirements have been acted on, however the Licence does have two unaddressed issues. As the issues are specifically required by the Licence 3BC-EUR0611 under Part H, Item 1 vi. and x. the NWB is unable to accept the February 2008 Plan as complete. Another addendum to address Part H, Item 1 vi., x. and updating contact info as per March 26, 2008 INAC comments is required.

The submitted plan covers significant prevention measures in place, however it does not address any cleanup strategies. A simple description of cleanup methods for spills on snow, water, ice and land would suffice. The NWB is aware the Canadian Coast Guard would be present to clean up any spills during the annual refueling, however the Plan must address spill cleanups as the Coast Guard is not always present. For an example, please see sections 6.1 - 6.4 of "070817 2BB-MRY0710 Spill Contingency Plan August 2007-ILAE.pdf" on the NWB ftp site, /2BB%20-%20BULK %20SAMPLING/2BB-MRY/Spill%20Contingency%20Plan/.

If you have any questions as to what is required by the Board please contact me at (867) 360-6338 ext. 30 or by email at dcarr@munavutwaterboard.org.

Sincerely,

Original Signed By:

Don Carr Technical Advisor Nunavut Water Board

10 Pan D.6	9 Рап Д.3	e Pan D.2	7 Pan D.:		5 Pan C.4	. 4 Part	3 Part	2 Part	† Pari	item # Ite
Conditions applying to Wasto Disposal	<u> </u>) <u>.</u> 2	5.1	2.7	Conditions applying to Water Use	Part C.2	Part B. 10	Part B.9	General Conditions	tem Section Title
Sewage effuent discharged at montraing station EUR-3 insist meet: BODS<100mg/L, TSS<120mg/L, 6 <ph<9, gresse.<="" no="" of="" oil="" or="" sheen="" th="" visible=""><th>Incinentie all combustible waste and ensure all hezerobus wastes are disposed of properly</th><th>No open burning of domestic waste is permitted.</th><th>Areas of waste disposal should be 30m above high water mark.</th><th>Sediment and arcelon control measures shall be implemented prior to and maintained during the operation to provent entry of sediments into water.</th><th>Freeboard of Im or as recommended by gentachabat engineer at all oykes, earthful sinutures associated with water, expey facilities.</th><th>Equip waser intake hosse with screen of appropriate most size to shalire no entrainment of fish and at a rote where its do not get improped.</th><th>One paper/One electronic copy of reports, studies, plans of detailed executive summany in inuktifut</th><th>Copy of licence maintained on site</th><th>File Annual report (March)</th><th>NWB Descriptions / Requirements</th></ph<9,>	Incinentie all combustible waste and ensure all hezerobus wastes are disposed of properly	No open burning of domestic waste is permitted.	Areas of waste disposal should be 30m above high water mark.	Sediment and arcelon control measures shall be implemented prior to and maintained during the operation to provent entry of sediments into water.	Freeboard of Im or as recommended by gentachabat engineer at all oykes, earthful sinutures associated with water, expey facilities.	Equip waser intake hosse with screen of appropriate most size to shalire no entrainment of fish and at a rote where its do not get improped.	One paper/One electronic copy of reports, studies, plans of detailed executive summany in inuktifut	Copy of licence maintained on site	File Annual report (March)	NWB Descriptions / Requirements
	The capability of the inchemistr found on sits to meet the Canadia-wide Standards for Diodria and Furaris and the Canadia-wide Standard for Mercury Emissions was not renewed with the proponent. Standard must be met by the date of the next impossion if opt already achieved.	Open burning contrary to the based license was noted.	A review and examination of the NWB FTP sits could not located a document providing specific approvate for the location of the constructed isocon. It is the opinion of the inspector that the sits of the legion is contrary to the isocon license.		Viete: stypy sealists did not have freeboard of 1m along the right still bern. Review of the NYR, FTP site could net feature at topperation certificate or approval from the HYR allowing of approving the encoadment on the 1 moder Ingliboard.	2				INAC Inspection / Requirements
Seveige legoon must comply with the "Guidelines for the Discharge of Teated Municipel Wasteweller in the Northwest Territories, 1982", prepared for the NVB. Yearly the tests conducted on weste water effluent quality. Determine if these meet criteria telaing to BCD and TSS (Also these CCME waste water guidelines). Include sampling in mixing zone.	Waste food is burned in Indexistor, weste oil is disposed and burned oil site appropriately. New inclineraby, with drudie chain-for to be in place by Saparintee 2008 with meet COME standards. Ash disposal templeas to be developed outlining- how much, where its burned, quentity.	Open burning of domestic wests stopped as outlined by Appendix F: Responses by EC to inspection report dated Nov.27th, 2008.	Sewage iagoon on coest and lendfill <30m. Plan to purchase on site treatment plan in future. For exciton and sepage control measures – plan to address and mitigate sewage lagues includes a project to replace lagoon with an on-tite waste water beginnent plant.		Negal far minuturn unless otherwise recompendatiby speciachrical engineer. Will be incorporating a cubies to prevent freezing in water agolois. This should help lower the water lengt to engineer a sufficient treeping.	Dane intake nose egreen bag ls Inch diameter holes.	Determine if this is required by NWB.	Done. Confirmed by site with picture.	Need summary report: where use & disposal activities (have incinerator log, pump capacity x time), data generated by monitoring program, monthly & annual quantities of fresh water (all Intake done) in 16 weeks in summer; and galan late in summer), monthly & annual quantities of waste discharge (done yearly), modifications & major maintenance carried out on water & waste, unauthorized decharges, remediation & removal plan, suchas (fautar, past, present), C&M mediation & removal plan, suchas (fautar, past, present). C&M mediation & removal plan, suchas (fautar, past, present). C&M mediation plan, spill contingancy plan, Abandonment & Restoration plan.	Status/ Action taken
A A A A A A A A A A A A A A A A A A A	Rai / Environmental Management	Enviromental Management	Z PRIE S	Natatio	7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Z.	Namile	Rai	Enviromental Management	Ву
	being addressed	being addressed	being addressed		being addressed	complete		complete	complets (March 2009)	Date

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Part H. I	Part G.5	Fert G1	Part F.1	Рап Е.2	Part D.10	Part D.8	Item
		Conditions spplying to O&M	Conditions applying to Applying to Modifications and Construction	Conditions applying to infrastructures, Access and Operations			Section Title
Addendum required for Spill Contingency Plan.	Geolectricul Inspection of all facilities containing fuel, welter, waste during summer. Geolectricul Engliner's report waste during semmer. Geolectricul Engliner's report habitot pe fleet with 1948 within 80 asys of Inspection. To include covering latter outflining or implementation plan responding to report recommendations.	Conditions Submit OSM manual in accordance with "Guidelines for spepting to OSM preparing an OSM manual for Sewage and Solid Waste Disposal Facilities Oct 2006.	Prior to construction/modifications of dams, dykes, structures intended to contain withhold or relain water or waster, submit design drawings to approval Notitication of modifications or construction is required in writing to the board. As there are currently no records on file with the NAMB and no engineemed drawings or plans were submitted with the application, the NAMB and application, the NAMB and requests the site information to provided to see Board as per Part F. Item 7.	Not to conduct any land based activities within 30m of the ordinary high water mark unless approved.	No action plans in place to address removal of skudge intent the sewage dis from the legach. Plan required 90 days prior to commencing, skudge from the legach. Prior to any undertaking to remove lead water reatment plans for work to the Numerot Water Board for approval.	10 days notice for decembing of the sewage legoon	NWB Descriptions / Requirements
	Submission of required Geolectendanical Inspections as outlined in the current license.	The Licensee shall, within skry (80) stays of the issuance of the License, against or the Board for approves, an Operation and Sentemenrae Memual in accordance with the "Southelines for Prepaining an Operation and Selectines for Prepaining and Solide Waste Disconsel Farcilities", Colobias 1998. The scope of the Planshall as expended to include the operation and maintenance of the Water Supply Facilities.	A review of the NWE FTP sits could not locate an approval for the work concucted on the session of relating wall of the sewage legion. Work was completed in 2008 and included building up of the seaward wall as both the interior and exterior slopes showed signs of evolution. Upon completion of the work visible shases have making parallel to wall were sell in evidence. If this work has not already been approved the Legions if this work has not elevated to wall were sell in evidence. If this work has not be ready been approved the Legionary as the following the following the sell of the Numerical Point and the Impactor As shall of the Country of the March Ceolatchical inspection of the Legions site. This should be provided as an addendum to the 2007 semilal report.		No action plans in placa to address removal of skudge from the legicut. Phot to any undertaking to remove g skudge from the agroon a dispose idea must be submitted to the Nunevot Walar Board for approval.	discharge from Sewage legoon-provided to days in services of the descharge, including estimate of volumes to be descharge and tocation of receiving environment. All discharges shell be sampled by the illomase twice-once near beginning of discharge pariod and once near end. Results are to be provided to the inspector upon receipt.	INAC inspection / Requirements
Submitted (2006) and waiting for comments from NVIS.	Comblete report with resommendations required. (Tank bouse, power nouse, new person, new complex).	Old familytti japort is available, but does not include a earnings, A specific landfill strategy is required. Some recommendations are found in the "Euretta Sie Visit Report conduction of the 7, 2007 by Jose I.a Ruesta Sie Visit Report conductions to be addressed shrough Deliv plain with a achedule strategy to be addressed shrough Deliv plain with a achedule for int plantishedon. The Board on the Zajo of forwamber and EURIEUA. Operation and Maintenance procedures for servings, solid weaks disposal and waste treatment facilities report submitted to the Board on the Zajo of forwamber and to perioding the Boards approved at this time (add not studied developed Landfill strategy). Submit any changes.	Number of discrepancies identified with respect to the water storage capacity, fresh water volumes required for transfer and water consumption of the acility, as wall as the tested effluent volume and capacity of the sewage lagoon system. Submission of As-built plans and Drawings refered to the Construction and Modifications having occurred on side including: Water Supply Facilities, Sewage Treatment Facilities, Land Farms and Land fill Facilities will as any potroleum, all luthcard or other hazardors chamical storage tacilities. From this point forward, all plans will be submitted. Natasis	Coast guard loading/unloading, itemporary storage at shore is required. Determine solution with NWB.	from the sewage disposal facility. Study/guidelines found thee disploy plan for disposal of existing skidge. Waste water treatment plant may address long term issues with sludge.	Freeboard for waste water lagoon is 0.5m. EC to provide NV/B notification 10 days prior to decanting from this point(Approximately in August).	Status/ Action taken
Natalla	Environental Management / consultant	Environmental Management	Natario	Natalle	Natalie /	Natalie	By
being addressed		complete /	ongoing			ongoing/yearly	Actioned

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Part 3.7	Part J.6	Part J.S	Part J.4	Part J.3	Рап Ј.2	Pari J. I	Pun I.7	Part I I	Part H.4	Part H.3	ltem
Program	Applying to the							Conditions applying to Abandonment and Restoration		Conditions applying to Spili Contingency Planning	Section Tille
Quality Assurance/Quality Control Plan based on the principace of the "NAC Outdoornes for licensess" that advasces the field and laboratory procedures and requirements needed to parry out monitoring program.	Signs required for monitoring program stations and to inform public of water supply and waste disposal.	GPS co-ordinates (deg. mln, sec of lat and long) of all locations where waste are deposited.	GPS co-ordinates (deg. min, set of ist and long) of all locations where sources of water are utilized	Measure daily quantities of sittuent pumped from sewage lagons during release to the eminorament	₹	Measure daily quantities of water pumped from Station Crook during annual recharge of fresh water legoon	West Akstrip Landfill	A bandconment and Restoration Plan (Abandconned and existing the first plan be submitted that will be proposed by the first plan be submitted that will be proposed by the first plan be submitted that will be proposed by the first plan be submitted that will be conceptually address the first alter plan be submitted the stadily the equivalent framework plan to the first plan by the propaged and submitted to the NVM for approval as per Part, I term of this Licence. Provide internation of the submitted information, (Part) to the kineson. This approval as per Part, I term of this Licence. Provide international as per Part of this Licence, Provide international as per Part of the first plan to the submitted that the provide international plan to the description of the based on the earlier of the statistics of the submitted the provide international plan to the description of the based on the course nation of the first plan to the description of the based on the course of the submitted that the provide international plan to the description of the based on the course of the submitted to the submitted that the provide internation of the first plan to the provide the submitted that the provide internation of	All sump and fuel caches shall be located a rahimum of 20m above ordinary high water mark of water bodies and inspected regularly	Review spill contingency plan annually	NWB Descriptions / Requirements
			-	No meters or other means were in use to record quantities of efficient deposited in the lagoon.	Meters noted in the intake facilities during inspection and quantity records were available for review.		A report on the Reclamation of the West Airstop Landill was not located during the review of the FTP site.	ration ration ration or report		isculation of the current licenses an addeduction to address deficiency as in the filled report. The review could not deficient the required addendum or a specific approval from the licenses. Required addendum or a specific approval from the iscanses. Required to ensure that no chemical, petoleum products or westes each water and that flexy and addressed within 30 misters of the ordinary high water and scansed within 30 misters of the ordinary high water and southeast of the sweeps agreed having been installed immediately adjacent to Siddle Flord within the required 30 mister settled, Required to submit defaulted report to inspection on each spill occurrence no later than 30 days following millial event.	
Copy of guidelines required. EUREKA - Quality assumance (QA) and Quality Control (QC) Program automitted. To be annually reviewed.	Dona.	Available on shared drive and included in Annual Report	Available on shared drive and included in Annua: Report	Done at specific times of yeer.	Water potential of 12,000L In fresh water lagoon. DW measured via water mater. Monthly water data logs available on consumption.	Fresh water lagoon filled twice per year (spring and fall). Presently done via pump capacity x time.	Provide a report/solutions on the Reclamation of the West Airstrip Landill : Landill items are being pushed back to surface with permafrost and require re-barryling.	Within 8 months, need to provide a specific for each site (description of "amesission objectives and measures or actions, description of immediation objectives and measures or programs for each of the description and schedule, post closure tearment of program, details of closure methods in case of pervature follows, settletics). Review annually. Develop both inform and first. Absordantement and Restocation Plan, Neither have been initiated.	Possibly use secondary containment and inspect regurany. Must move fuel caches. To develop procedure to address this leasue.	EUREKA - Oil Poiludon Emergency Plan for Land Spills submitted (Add adderdum covering Manifoling Program"). To be annually reviewed. Walling for comments from NVIB.	Status/ Action taken
Environmental Management	Nadale	Rai	Rai	XI Bi	22	New Year	Environmental	Consulant	Environmental Management / Raj	Environmental Management	By Aci
November 23/2007	COTSIECE	complete	complete	being addressed	engoing	ongoing	Report not svallable			November 23/2007	Actioned Date

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					Part J. 12	Part J. I t	Item
		Hezardous Materials Management					Section Title
					Revisions to Monitoring Program outlined in table 1 Other II	Sampling and analysis requirement. EUR-1 Raw writer supply prior to bestment flow measurement monthly. EUR-2 Ramoff from the solid waste disposal facilities. SS, pit and conductivity, sufferints, sulphates, O.E.G. phenols, metals, mercury (during flow periods). EUR-3 Discharge from sewage (agoon conductivity, cations, nutrients, sulphates, O.E.G., phenols, sewage solids removed from sewage (agoon conductivity).	NWS Descriptions / Requirements
Location and verification of treatment for land fairning of involvement on contamining the final testals.	Lend filing/ stactice of crusting and burying old drums should be reviewed and a plan submitted to address the numerous bury aleas in the general area.	Lagge bulk vesises are being deposited over the edge of a NIII at the Setton Creek Dreinage beath. Malerials noted on site included, insulation, barriek, tires, od flast breich, Burned fuel and oil flers. Betterles and other hazandous materials. The Leanses is remirted to Actuce in the 2007 amuse inport due on Mareria 31st 2008 a list of hazardous meterials shopped out of the camp, the resiment focally to which they were sent. All of the annual report. Shipping and receiving involces are not required so long as the records are evaluable for languation during the 2008 hespection season.	Obvious fuel spills were noted at the fuel transfer area on the Airstrip. Transfers that been dug and absentient polyres were visible on site. Information collected during the inspection is not the spilled product originated from a blaider on after owned by DND. No spill report can be focused ont clean up work was not complete.	Very fittle septendary containment for drummed and attined fault product was found on-eite. Drummed product from the Conventment of Nuravul and other agencies was noted on attendanced as secondary containment. No septendary containment at fuel transfer areas (helicopter and vehicle) was noted.	A review of the NVVB FTP site could not locate a request or review from the Idensee regarding any changes to the proceed manifoling plan. Other INAC Observations		INAC Inspection / Requirements
Diplemining diagness of containshadon to land farm/status of hydrocarbon envedation. Determine all details, including who is managing the beatment, how is it being done, the extent of ministration containination and results, as well as regulated future in resistances.	Develop plan to ensure drums are returned by whoever supplies fuel-including strategy to ship fuel barrate back south.	Marnhaeling of hazandrus enaterials/shipping off sits-record keeping is required. Location and approval acknowledgement of the feastment facility where fazzardous wastles generated on atta are shipped. Hazardous Materials Management strategy required to ensure hazardous materials are rint disposed of on-sits.		Fuel storage (bernets) require secondary containment. Long term project to book at secondary containment included in capital behaving.	EUREKA - Proposal for revision and update of the surveillance network monitoring program	Purpose is to collect data on water quality for H&S and assess potential impacts to the environment associated with the waste disposal facility. Drinking water sampling conducted (requirity analysis / interpretation) as waste water analysis. Nillo weets water and soil analysis of sewege legion conducted.	Status/ Action taken
Environmental	Consultant	Environmental Managment	Environmental Management	Natorie	Environmental Management	Ervirontvental Management	Ву
				being addressed	November 23/2007	May 27/2007 & July 20/2007 & ongoing	Actioned Date

EC document "An Approach for assessing and Managing Westewaler Effuent Qualify for Federal Facilities Final Report, June 1st 2000" to be referenced.

CONSULT

No known approvals were given for waste water lapoon. Treatment pant included in cepital planning.

MOU to be developed to ensure other tenants/waters at Eureka stop open burning as well.

this acceptable? (TSS ok as per fact test)

Testing of air emmissions may be required. To be included in procedure.

000074

CONSULT

Continue this in a procedure. Possibly to be part of restoration ple Possibly to be part of restoration ple Possibly to be part of restoration PWB. Will wait for comments from NWB. Copies of past work not available, b will be submitted in the future. Copies of pastegy to be developed in Oald plan. Copies pope of geobachnical trapections.

Determine if sufficient to inspector. Covers Part 5.5.	Electromagnetic survey conducted on West Airstin Lardfill, Laky be tied into "Landfill Strategy" as part of O&M plain. The strategy of the st	To be included in procedure.	
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this is satisfactory to inspector. CONSULT

Comments Valing for comments to determine if this is satisfactory to inspector. May require further amendments. These issues required corrective author to be undertaken prior to the date of the need inspection. The submission of a record indicating the submission of a record in the activity was requested at the time of the repeated on the procedure. Follow up with John Melver to determine what records to be kept on the and in Ottawa. To be outlined in a precodure. To be outlined as part of "Landfill Strategy". Reliators also to Abandonement and Restoration plan.
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CONSULT

Information available in Euraka Site Vali Report conducted June 7, 2007 by Joan La Rue-van, John McIvar has records.

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1. C	JП	11 E	세데	II D iv	II D.iii	11.01	u.c	U.D	İtem
Abandonment and Restoration (A&R)	Spil Contingency Planning	Modifications and Construction	Operation and Maintenance P an	Deposit of Waste: Operation and Maintenance Plan	Deposit of Waste: So id Waste	Depos : of Waste: Sewage Effluent Qualify Parameters	Water Use	Annua Report	Section Title
Abandonment and Restoration Plan (Abandonned and existing facilities). NWB requests their an inner m Abandonment and Restoration Plan be submitted that will conceptually address the final abandonment of the facility. This Plan is to be prepared and submitted there NWB for approval as per Part. "It am 1 of this Lopince."	Spill Contingency Plan submitted but requires an addendum	Noahsaion of modifications of construction is required in writing to the board. Number of discrepancies identified with respect to the water storage capacity, thesh water volumes required for transfer and water consumption of the facility, as well as the treated efficient volume and capacity of the servege lagoon system.	Freeboard for waste water lagoon is 0.5m	Operation and Maintenance Plan for the Sewage and Solid Waste Disposal Facilities (O&M Plan). Pending since April 2004 Idenoce	"Yew Landfil Shategy" required	EC decurrent." An Approach for assessing and Managing Wastewater Efficient Quality for Federal Facilities Final Report. June 5 at 2000° and reswage lagoon must comply with the "Guidelines for the Discharge of "reased Manicipal Wastewater in the Northwest Territories, 1992", prepared for the N.W.T. Water Board Limits have been imposed for Societarical Oxygen Demand (BOD) and Supposed Solite (TSS) and the Licensee must comply with these limits.	EC Study Jone in 1999 to address concerns writerater supply and wasterwater disposal systems	Annual Report to NWB	NWB Description and Details
									INAC inspection / Requirements
Develop both Interim and final Abandonement and Restoration Plan, Neither have been initiated.	Et. 4E.KA - Oil Pollution Emergency Plan for Land Spills submitted (Add addendum lovering "Nontoining Program").		Geotechnical engineer	ECHERA - Operation and mannershape procedures for sewage, solid waste disposal and waste treatment facilities report submitted.	Report a available, but does not include a statlegy. A specific strategy is required. Some recommendations are found in the "Eureka Sire Visit Report" conducted June 7, 2007 by Joan La Rue-van.	_ab tests conducted on waste water effluent quality. Determine if these meet criteria retailing to BOD and	Electronic copy available on shared drive- Document #39- Study of Waste Water and Water Supplies at Eureka Weather Station (2000)	Annual Report submitted	Status/ Action taken
Paul	Pace		Natal e	Paul	Pa L	Paul	Paul	Stan	By
	November 23/2807			November 23/2007			complete (document found)	Nar-06	Actioned Date Completed
Report not evel able.								New 08 Requires add tignal reports.	Comments

This probably has to do with the structure of the fresh water lagger and ensuring you prevent erosion. (TSS ok as		Natalie	Presently start pumping and wall until water is plear before retaining, light is acceptable?		Sed ment and erosion control measures shall be implemented by nor to and maintained during the operation to a avant entry of sediments into water		Part C.7	19
	17 4F 4	Rai	Not done. What is is presently and where?	Varier supply facilities did not have an everage freeboard of Im along the road side bern. A review of the full water Board F IP site could not locate an inspection certificate or approval from the full study of Water Board allowing or approving the encroachment on the fineter freeboard.	Freecoard of tm or as recommended by geolechnical engineer at all dykes earthfill structures associated with water supply facilities.	Conditions applying to water use	Part C.4	5
	complete	Rai	Done- Intake hase screen has '4 inch diameter hales. Rai		Equip water intake hoses with screen of appropriate mesh size to ensure no entrainment of fish and at a rate where fish do not get impinged.		Рап С.2	17
Where are these logs kept?	COT piets		Water potential of 12,000L in fresh water lagoon. Monthly water data logs available on consumption.		Maximum 10,000 cum/yr		Part C. I	ī.
		Vatalie	Copies???		One paper/One electronic copy of reports, studies, plans the detailed executive summary in inuktitut		Part B. 10	-in
	complete	Rai	Done. To confirm by site with picture		Copy of licence maintained on afte		Part B.9	1
To the settsfaction of the inspector?	oomplete ii	Natalie	Signs up.		Signs required for monitoring program stations and to inform public of water supply and waste disposal.		Part B.5	10
ls this sufficient?		Netalie	Use pump capacity x time to get volume for waste. DW measured via water meter.		implement suitable methods (flow meters/cifler) required for measuring water volumes and waste discharged.		Part B.4	12
		ED/Star	Need a summary report of water use and disposal activities (have incinerator log, pump capaddy x.intel), data generated by monitoring program, monthly and annual quantities of fresh water (all intake done in 1.5 weeks in summer), monthly and annual quantities of waste discharge (done yearly), modifications/major maintenance carned out on vater/waste, unauthor zed discharges, attacker (attuer, past, present), D&M manual, spill contingency plan, abandonment/Restoration plan, spill contingency plan, abandonment/Restoration plan.		File Annual :eport	Part B.2 General Conditions	Part B.2	=
	May 27/2007 & July 20/2007	Natalie	Dirnking water sampling conducted (requing anaylisk interpretation) as waste water analysis. DND waste water and soil analysis of sawage legoon conducted.		Collect data on water quality for H&S and assess potential impacts to the environment associated with the waste disposal facility.	Monitoring Program	11 1.	10
Comments	Actioned Date Completed	Acti By	Status/ Action taken	INAC Inspection / Requirements	NWB Description and Details	Section Title	Item	Item#

		Natal e	Coast guard loading/unloading, tempoyary storage at shore??? Ditermine solution with NWB.		Not to conduct any land based activities within 20m of the ordinary high water mark unless approved.	occess and occess and occess and	Part E.2	27
Hard copy available.		Paul	Need	No action plants in pities to address removal of studge from the lagoon. Prior to any undertaking to remove sludge from the lagoon and adeposal plan must. For the removal and discossi of sludge from the be submitted to the Nunavot Water Board for sewage disposal facility. Study/guidelines found approval.	Sludge Disposal Pan	(0.	Par. D.10	26
The decarting is done or celvear but NWB never given notice as far as I know.	orgoing/pearly	Notalio	Provide NMB robification 10 days prior to decanling (Approximately in August).	Licensee is required to provide notification to the inspector prior to conducting a discharge from the Sewage lapton-provided 10 days in advance of the Sewage lapton-provided 10 days in advance of the discharge and motude an estimate of volumes to be discharged as well as the locator of the receiving environment. All discharges shall be samped by the licensee hydrocombe near the beginning of the discharge period and once near the beginning of the discharge period and once near the end. Results are Provide MWB notification 10 days prior to decarding to be provided to the inspector upon receipt. (Approximately in August).	10 days notice for decaning of the sewage lagoon		Par O.8	25
Noticone. How do we proceed?		Natalia	If possible, reduce the amount of water in fresh water supply lagoon while determining means of ensuring adequate water supply.		Freeboard of 1m required at all dykes, earthful structures associated with water supply.		Part D.7	24
How does it compare to the requirements?"?		Matalie	Yearly testing conducted.		Sewage effluent discharged at monitoring station EUR-3 must maat : BOD5<100mg/L TSS<120mg/L 6 <ph<9, grease.<="" no="" of="" oil="" or="" sheer="" td="" visible=""><td>Concitions applying E</td><td>Part D.6</td><td>23</td></ph<9,>	Concitions applying E	Part D.6	23
Reports of proper disposal r place? Need copies		Rei	Waste food is burned in incinerator, waste oil is disposed and burned off site appropriately. Need to assess other methods used to dispose of other hazardous materials used at Eureka. Must meet CCME standards by next inspection.	The capability of the nomination found on site to meet the Canada-wide Standards for Downs and Furains and the Canada-wide Standard for Mercury Emissions was not reviewed with the proponent. The licensee is reminded that this standard must be met by the date of the next inspection if not already achieved.	incinerate al combusible washa and ansura all razandous wastes are disposed of properly		Part D.3	22
	complete	Nata-ie	Open burning of domestic waste stopped as outlined by Appendix F: Responses by EC to inspection report cated Nev 27th, 2008	Open burning contrary to the issued ticense wes noted.	No open burning of domestic waste is permitted.	7	Part D.2	š
Did we get a derogation br this???		7 araile	A flysiev and examination of the Numana Waler Board FTP site outding together a document providing specific approvals for the location of the constructed lagoon and as such it; is the opinion of the inspector that the site of the tagoon is contany to and see eagle control measures — need plan to address the issued idense.	A review and examination of the Numeral Water Board FTP site oculd not located a document providing specific approvals for the location of the constructed lagoon and as such it; a the opinion of the inspector that the site of the tagoon is contary to the issued locate.	Aveas of waste disposal should be 30m above high water mark.	(° °)	Part D.1	20
Comments	Actioned Date Completed	By Act	Status/ Action taken	NAC inspection / Requirements	NWB Description and Details	Section Title	ltem .	ltem#
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hem #	Item	Section Title	NWB Description and Details	INAC Inspection / Requirements	Status/ Action taken	By	Date Completed	Comments
26	Part F I	to modifications and	Prior to construction/most/fuelces of dams, dyles, snuclaires telended to content withhold or retain value or weaters, submit classign drawings for approved	the Nunevut water Board and the Inspector As-build drawings signed and stamped by a qualified engineer as well as a copy of the latest Geolechnical	Submission of As but praine and Drawings related to the Construction and Modifications having occurred on sits incutring: Water Supply Facilities, Sewage Treatment Facilities, 4 and Farms and I and Fall Facilities as well as any petroleum, oil, lithitisant or			
29			Submit USM manual is secondance with "Usdames for preparing an OBM manual for Severy and Solid Waste Disposal Facthers Oct 2006.	operation and maintenance of the Water Supply Feolities.	This manual was submitted to the Board on the 25rd of November and as pecialing the Boards approva at this time. (Tank house, power house, new garage, new	Pau	complete	
30	Part G.5				сопрівк)	Matalla		
31	Part H. I		Addendum required for Sp# Contingency Plan		Need original that was sent to water board. To moude (revisions sen licence requirements)	Natalle		

37 Part 1.2	36 Poort J. 1	35 Part I.7	3c 9ar LI	33 Part H.4	32 Part H 3	Item# Ite
iā	<u> </u>	.7	Conditions, abo ying to abandenment and restoration	4.4	Conditions appying to spill contingercy planning	Item Section Title
Measure in culin monthly fresh water quantity used for facilities operations	Messure daily quantities of water pumped from Station Cresk during annual recharge of fresh water lagoon	West Airstrip Landfill	Provide Interim Abandon nant and Restoration Plan	All sumpliand fue caches shall be located a minimum of 30m above ordinary high water mark of water bodies and inspected regularly	Review spill concreency plan annuelly	NWB Description and Details
Meters noved in the imake facilities during inspection (al) Meter installed where? Monthly water are available for review consumption logs available?					As per section 1 (i through xi) The Joensee was to reve sumitted to the Nuravut Water Board, within 50 days of the issuance of the currert idense an addendum to address deficiencies in the filled report. The review could not locate the required addendum or a sectific approval from the Nuravut Water Board indicating acceptance of any further documents from the Incersee. The Licensee is remarked that as per section 4 of this Part, the Licensee is remarked that as per section 4 of the Part, the Licensee is remarked that as per section 4 of the Part, the Licensee is remarked that as per section 5 the first body. There are connected within 30 meters of the critinary high water mark of any water body. There are connected within 10 meters of the critinary high water of within the required 30 meters settack. The Licensee is required 30 meters settack. The Licensee is required 40 submit a detailed report to the inspection on each spill occurrence no laker than 50 days following the initial event.	INAC Inspection / Requirements
Fresh water lagoon filled twice per year (spring and fail). Meter installed where? Monthly water consumption logs available?		Provide a Report on the Reclamation of the West Airstrip Landfill.	A review of the *\unavaut Waber Board FTP side could not locate the any documentation relating to the abar-domment or resolvation of the Eureks afte. The Licensee was to have submitted the required theirm (Licensee was to have submitted the required theirm (Licensee was to have submitted the required theirm (Licensee was to have submitted the required their (Licensee was to have submitted to provide the report within 9 morths of the issuance of the current sile (description of remediation objectives and measures or eaching, description of final desired report on the Reciamation of "ne' Wast Allistrip report was also due within 9 months of the clockure methods in case of premeture issuance of the current licensee."	Maybe use secondary containment? inspect regurlarly. Natalie	Annually	Status/ Action taken
Ra:	Zatalie	Paul	Paul	Natalie	n ac E	Ву
Ongoing		Report not available				Date Completed
	Satisfactory to inspector?					Comments

	NA. HE		44 Part / 12	4.2 Part J 8	42 Part J 7	41 Part J.5 Io	11: Part J 5	าง P <u>ม</u> ส] 4	19 Part J 3	ltem # Item Section Title
	Hazardous Materials Management		7	w0m7047m		ns appl ying Ontorng				
	These issues required correct ve action to be undertalen prior to the date of the next inspection. The submission of a record unclosing the successful completion of the activity was requested at the time of the inspection.	Other IN	Revisions to Monitoring Program outlined in table †	EUR-1 Raw water supply prior to treatment flow measurement monthly. EUR-2 nunch from the solid waste disposal facilities SS, ph and conductivity, cations, rutriants, sulphates, O&G, phenois, meads, mercury (during flow percos). EUR-3 discharge from sewage lagoon conductivity, cations, nutriants, sulphates, O&G, phenois, eswage solids removed from sewage lagoon.	Quality Assurence/Quality Control Plan based on the principate of the "INAC QA/QC Guidelines for licensess" that adresses the field and laboratory procedures and requirements needed to carry out manitoring program.	Post signs to identify monitoring program	GPS co-ordinates (deg min. sec of lat and long) of all locations where waste are deposited.	GPS co-ordinates (deg min, sec of at and long) of all locations where sources of water are utilized	Measure daily quantities of efficient pumped from	NWB Description and Details
Obvious fuel spills were noted at the fuel transfer area on the Aistrip. Transcess had been dug and absorbert booms were viable on site. Information collected during the inspection of that the spilled product originated from a badder on site owned by DND, No spill report can be located and clean up work was not compete.	-Very little secondary containment for drummed and stored fixel product was found on-site. -drummed product was found on-site. -drummed product from the Government of Nunavut and other agencies was noted on site without any secondary containment. secondary containment at fuel transfer areas [helicopter and vehicle) was noted.	Other INAC Observations	A review of the Nunavul Water Board FTP site could not locate a request or review from the licensee regarding any changes to the proposed monitoring plan.						No meters of other means were in use to record quantities of effluent deposited in the lagoon.	INAC Inspection / Requirements
HIN IN MOU	uel s.o. age (baine s, require secondary containment		EUREKA - Proposal for revision and update of the surve liance network monitoring program	No mariers or other means were in use to record quantities of efficient deposited in the lagran.	Copy of guidelines required. EUREKA - Quality assurance (QA) and Quality Control (QC) Program submitted	Done.	Available on shared drive (Determine if submitted to Ny Rai	Available on shared drive (Determine if submitted to NVVB)	Done at specific times of year.	Status/ Action taken
S S			Natalie		Ta a L	Natalie	VRai .	Rai	Rad	Ву
			November 23/2007		November 23/2007					Date Completed
						inspector.	Submitted?	Submitted*		Comments

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			Item #	
			Item	
			Section Title	
	!		NWB Description and Details	
Location and verification of restment for land farming of hydrocarbon contaminated materials	Land fillings practice of crushing and aurying 0 of drums should be reviewed and a plan submitted to whoever supplies to address the numerous bury sites in the general area. Dernets back sound	Large bulk wastes are being deposited over the edge of a fill at the Stazion Creek Oranege bashin. Braterials noted on site included insulation, barrels, tires, old fuel tanks. Burne duel and oil filters. Barrels and other hazardous make rails. The Libensee is re-inded to include in the 2007 annual report due on March 3 st 2006 a list of hazardous materials shipped out of the camp, the treatment received, and the location of the approved treatment facility to which they were sent. All of the foregoing is required so long as the records are available for inspection during the 2008 inspection season	INAC Inspection / Requirements	
Determine degree of contamination in land fermistatus of hydrocarbon remediation.	Develop plan to ensure drums are returned by whoever supplies fixed-including strategy to ship five to barrels back sourn	Large bulk wastes are being deposited over the edge of a hill at the Sazor. Creek Oranege basin. Materials noted on size include in resultation, barrels, times, odd fuel tanks, Burned Suel and of fisers, times, odd fuel tanks, Burned Suel and of fisers, times, odd fuel tanks, Burned Suel and of fisers, and the formation of the carry, the treatment aport due on March 31st 2006 a list of hazardous materials shlobed out of the carry, the treatment and the focation of the approved treatment facility to which they were sent. All of the Streeping is horroraled scored section, and approved required information to be included in the annual report. Shipping and receiving invoices are not exquired so long as the resort is are available for exampled to result the streeping is considered and size are shipped. Hazardous wastes generated on size are shipped in spection during the 2008 inspection season site.	Status/ Action taken	
			Ву	Þ
			Date Completed	Actioned
Information available in Eureka Site Visit Report conducted June 7, 2007 by Joan La Rue- van.			Comments	