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2014 ANNUAL NUNAVUT WATER BOARD REPORT FOR DYE-M

FOR THE

North Warning System

Contract # W8485-100224/001/NX
CDRL 16.F.5.d

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Prepared for

North Warning System & Assoc. Projects
Aerospace Equipment Program Directorate
455 Blvd de la Carrière
11th floor
Gatineau, Québec
K1A 0K2

Prepared by

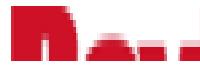
Raytheon
Canada Limited
400 Cooper Street
Suite 3000
Ottawa, ON, K2P 2H8

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CHANGE HISTORY

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Page: ii - vi

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EXECUTIVE SUMMARY

This 2014 Annual Report for the Nunavut Water Board (NWB) has been prepared by Raytheon Canada Limited (RCL) for the Department of National Defence in order to meet the requirements of the licence issued 10 September 2009 3BC-DYE0919 – Type “B”, Part B. General Conditions, paragraph 1. This report covers the period of 01 January to 31 December 2014.

The Operation and Maintenance (O&M) Contractor for the North Warning System (NWS) changed in 2014. Nasittuq was the O&M Contractor of the NWS from 01 January to 31 July 2014 and had Care, Custody, and Control (CC&C) of the site. On 01 August 2014, RCL became the O&M Contractor and took over CC&C of the NWS sites, including the DYE-M Long Range Radar site.

DYE-M is an unattended (unmanned) North Warning System radar site located at Cape Dyer, Nunavut. The site is visited quarterly for preventive maintenance inspections and as required for other work by O&M Contractor staff based out of the Logistics Support Site – Iqaluit (LSS-Q), Iqaluit, Nunavut.

A total of 86.8 cubic meters was drawn from the raw water sources. 32.7 cubic meters were from the water lake, DYE-1(a), and 54.7 cubic meters were from the melt-water water source, DYE-1(b). This is below the annual maximum of 1,440 cubic meters allowed by the licence.

The water contained in the berms of fuel storage facilities was sent for laboratory analysis and confirmed to be within effluent quality limits before the water was pumped out of the berms.

No hazardous waste and waste oil were disposed of in 2014.

Non-hazardous domestic solid waste was flown out to the Logistics Support Site – Iqaluit and disposed of at Iqaluit’s landfill. RCL has documented authorization from the community for receiving the waste.

One outdoor spill occurred. The spill was:

- a. NT-NU Spill Line Report # 14-295. On 10 August 2014, 4 litres of Jet A1 fuel leaked from a valve with loose packing into the berm around tank W20A. The technicians tightened the valve packing, stopping the leak. The fuel sheen was soaked up using absorbent pads. The sorbent pads were placed in drums for disposal at a registered hazardous waste facility outside of Nunavut.

The Spill Contingency Plan was successfully implemented.

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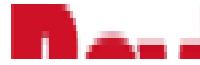
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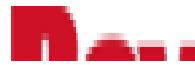
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1.0 INTRODUCTION

This 2014 Annual Report for the Nunavut Water Board (NWB) has been prepared by Raytheon Canada Limited (RCL) for the Department of National Defence in order to meet the requirements of the licence issued 10 September 2009 3BC-DYE0919 – Type “B”, Part B. General Conditions, paragraph 1. This report covers the period from 01 January to 31 December 2014.

The Operation and Maintenance (O&M) Contractor for the North Warning System (NWS) changed in 2014. Nasittuq was the O&M Contractor of the NWS from 01 January to 31 July 2014 and had Care, Custody, and Control (CC&C) of the site. On 01 August 2014, RCL became the O&M Contractor and took over CC&C of the NWS sites, including DYE-M Long Range Radar site.

DYE-M is an unattended (unmanned) North Warning System radar site located at Cape Dyer, Nunavut. The site is visited quarterly for preventive maintenance inspections and as required for other work by O&M Contractor staff based out of the Logistics Support Site – Iqaluit (LSS-Q), Iqaluit, Nunavut.

1.1 REPORT DETAILS

Licensee: Department of National Defence, Government of Canada
Licence: 3BC-DYE0919 – Type “B”
Location: DYE-M North Warning System Site,
Cape Dyer, Qikiqtani Region, Nunavut
Report prepared by: Raytheon Canada Limited, 16-Mar-2015
Time Period Covered: 01 January to 31 December 2014

2.0 WATER USE

A total of 86.8 cubic meters was drawn from the raw water sources. 32.7 cubic meters were from the water lake, DYE-1(a), and 54.1 cubic meters were from the melt-water water source, DYE-1(b). This is below the annual maximum of 1,440 cubic meters allowed by the licence. See Table 2-1 for the volume of raw water drawn.

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Table 2-1 Monthly Raw Water Usage at DYE-M in 2014

| Month | Raw water drawn in cubic meters (m ³) from the water lake, DYE-1(a) | Raw water drawn in cubic meters (m ³) from the melt-water water source, DYE-1(b) | Company with CC&C of the site |
|-------------------------|---|--|-------------------------------|
| January | 0 | 0 | Nasittuq Corporation |
| February | 0 | 0 | Nasittuq Corporation |
| March | 0 | 0 | Nasittuq Corporation |
| April | 0 | 0 | Nasittuq Corporation |
| May | 32.7 | 0 | Nasittuq Corporation |
| June | 0 | 17.0 | Nasittuq Corporation |
| July | 0 | 19.0 | Nasittuq Corporation |
| August | 0 | 18.1 | RCL |
| September | 0 | 0 | RCL |
| October | 0 | 0 | RCL |
| November | 0 | 0 | RCL |
| December | 0 | 0 | RCL |
| TOTAL per source | 32.7 | 54.1 | N/A |
| SITE TOTAL | | 86.8 | |

3.0 HAZARDOUS WASTE AND WASTE OIL DISPOSAL

No hazardous waste and waste oil were disposed of in 2014. Therefore Table 3-1 is blank and Annex A for the shipping documents is blank. (Shipping documents include the completed movement documents for waste regulated under the Transportation of Dangerous Goods Regulations (TDGR) and Manifests for non-regulated waste).

Table 3-1 Hazardous Waste and Waste Oil Sent for Disposal from DYE-M in 2014

| Site | Description, TDG shipping name | Quantity | Movement Document or Manifest # |
|-------|--|----------|---------------------------------|
| DYE-M | No hazardous waste or waste oil was disposed of in 2014. | 0 | N/A |

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4.0 NON-HAZARDOUS SOLID WASTE DISPOSAL

Non-hazardous domestic solid waste was flown out to the Logistics Support Site – Iqaluit and disposed of at Iqaluit's landfill. RCL has documented authorization from the community for receiving the waste. See Table 4-1 for the quantity of waste generated.

Table 4-1 Non-hazardous Domestic Solid Waste Sent for Disposal from DYE-M 2014

| Month | Waste Generated (kg) | Company with CC&C of the site |
|--------------|----------------------|-------------------------------|
| January | 187 | Nasittuq Corporation |
| February | 416 | Nasittuq Corporation |
| March | 639 | Nasittuq Corporation |
| April | 140 | Nasittuq Corporation |
| May | 150 | Nasittuq Corporation |
| June | 534 | Nasittuq Corporation |
| July | 136 | Nasittuq Corporation |
| August | 454 | RCL |
| September | 0 | RCL |
| October | 0 | RCL |
| November | 0 | RCL |
| December | 635 | RCL |
| Total | 3,291 | |

5.0 MONITORING PROGRAM

See **Annex B** for the location of the sewage effluent outfall, DYE-2, with co-ordinates. A sump for the sewage outfall was built in 2010.

See **Annex C** is blank. The sump for the sewage outfall was not pumped out therefore no samples were taken for laboratory analysis.

See **Annex D** for the list of bermed fuel storage facilities, DYE-3, with co-ordinates.

See **Annex E** for analysis of berm water (water contained in the berms of fuel storage facilities). The results were confirmed to be within effluent quality limits of the NWB licence 3BC-DYE0919, Part D, item 10 before the water was pumped out of the berms.

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6.0 SPILLS (UNAUTHORIZED DISCHARGES)

One outdoor spill occurred. See Table 6-1 for details.

Table 6-1 Outdoor Spills Reported at DYE-M in 2014

| Date, Spill # | Product | Quantity | Cause and follow-up action | Location at DYE-M |
|----------------------------------|-------------|----------|---|-----------------------|
| 10 Aug 2014 Spill # 14-295 | Jet A1 Fuel | 4 liters | Technicians were on-site doing preventive maintenance and had transferred fuel from tank W20A days before with no sign of a leak. On 10 August, the technicians noticed a fuel sheen on the water in the berm around tank W20A and determined that the source of the spill was fuel dripping from a valve directly into the water in the berm. The technicians tightened the valve packing, stopping the leak. The fuel sheen was soaked up using absorbent pads. The sorbent pads were placed in drums for disposal at a registered hazardous waste facility outside of Nunavut. | Berm of Tank W20A. |

7.0 REVISIONS TO THE SPILL CONTINGENCY PLAN

The Spill Contingency Plan was successfully implemented.

8.0 PROGRESSIVE RECLAMATION WORK UNDERTAKEN

None undertaken.

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9.0 ACRONYMS

| Acronym | Definition |
|---------|---|
| CC&C | Care, Custody, and Control |
| DEG | Diesel Engine Generator |
| DND | Department of National Defence |
| NWB | Nunavut Water Board |
| NWS | North Warning System |
| NWSO | North Warning System Office |
| O&M | Operations and Maintenance |
| PCB | Polychlorinated Biphenyl |
| RCL | Raytheon Canada Limited |
| TDGR | Transportation of Dangerous Goods Regulations |

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ANNEX A - DYE-M - HAZARDOUS WASTE AND WASTE OIL DISPOSAL IN 2014

This annex has been left blank as no hazardous waste or waste oil were disposed of in 2014. Therefore there are no shipping documents for Annex A.

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ANNEX B - DYE-M - SEWAGE OUTFALL LOCATION (DYE-2) WITH CO-ORDINATES



Coordinates of Sewage Outfall Location (DYE-2): 66° 39' 51.26"N, 61° 21' 16.54"W

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ANNEX D - DYE-M - ANALYSIS OF SEWAGE EFFLUENT

The sump of the sewage outfall was not pumped out therefore no samples were taken for laboratory analysis. This Annex has been left blank because there are no results to report.

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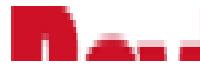
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ANNEX E - DYE-M - LOCATION OF BERMED FUEL STORAGE FACILITIES WITH CO-ORDINATES

| Licence | Location | Monitoring Station # (Final discharge point of bermed fuel storage facility) | Berm's location on- site | Berm's co-ordinates |
|-----------------------------|---|---|--|--------------------------------|
| 3BC- DYE0919 Type "B" | DYE-M North Warning System Site, Cape Dyer, Qikiqtani Region, Nunavut | DYE-3 | Summit (behind PGS building), berm of tank W20A | 68° 40' 00" N 61° 21' 27" W |
| | | | Summit (behind B- Train), berm of tanks W22K, W22J, W22I and W20B | 68° 39' 54" N 61° 21' 25" W |

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ANNEX F - DYE-M - ANALYSIS OF BERM WATER (EFFLUENT FROM BERMED FUEL STORAGE FACILITIES)

Table E-1 Analysis of Berm Water at DYE-M in 2014

| Site Berm Date | Maximum Concentration of any Grab Sample ($\mu\text{g/L}$) | DYE-M | DYE-M |
|--|--|------------------|---|
| | | W20A 2-Jul-14 | W22K, W22J, W22I and W20B 2-Jul-14 |
| pH | 6 to 9 | 6.29 | 6.63 |
| Oil and Grease ($\mu\text{g/L}$) | 5000 | 1000 | <1000 |
| Arsenic (total) ($\mu\text{g/L}$) | 100 | <20 | <20 |
| Cadmium (dissolved) ($\mu\text{g/L}$) | 10 | 0.3 | <0.1 |
| Chromium (dissolved) ($\mu\text{g/L}$) | 100 | <1 | <1 |
| Cobalt (dissolved) ($\mu\text{g/L}$) | 50 | 0.3 | <0.2 |
| Copper (dissolved) ($\mu\text{g/L}$) | 200 | 7 | 3 |
| Lead (dissolved) ($\mu\text{g/L}$) | 50 | <1 | <1 |
| Mercury (total) ($\mu\text{g/L}$) | 0.6 | <0.1 | <0.1 |
| Nickel (dissolved) ($\mu\text{g/L}$) | 200 | <5 | <5 |
| PCB (total) ($\mu\text{g/L}$) | 1000 | <0.1 | <0.1 |
| Phenols ($\mu\text{g/L}$) | 20 | <1 | <1 |
| Zinc (total) ($\mu\text{g/L}$) | 500 | 220 | <40 |
| Benzene ($\mu\text{g/L}$) | 370 | <0.5 | <0.5 |
| Toluene ($\mu\text{g/L}$) | 2 | 0.7 | <0.5 |
| Ethyl benzene ($\mu\text{g/L}$) | 90 | <0.5 | <0.5 |

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02 July 2014

Summit (behind PGS building), Berm of Tank W20A

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EXOVA OTTAWA

Certificate of Analysis

Exova

Client: Nasituuq Corp. (Ottawa)
160 Elgin Street, Suite 400
Ottawa, ON
K2P 2C4
Attention: Ms. Barb Thomson
PO#:
Invoice to: Nasituuq Corp. (Ottawa)

Report Number: 1414151
Date Submitted: 2014-07-10
Date Reported: 2014-07-11
Project:
COC #: 176108

| Group | Analyte | MRL | Units | Lab I.D. | 1118248 Wastewater - 2014-07-02 W20A |
|--------|---------|--------|-------|-----------|--|
| | | | | Guideline | |
| Metals | Cd | 0.0001 | mg/L | 0.0003 | |
| | Co | 0.0002 | mg/L | 0.0003 | |
| | Cr | 0.001 | mg/L | <0.001 | |
| | Cu | 0.001 | mg/L | 0.007 | |
| | Ni | 0.005 | mg/L | <0.005 | |
| | Pb | 0.001 | mg/L | <0.001 | |

Guideline = * = Guideline Exceedence

** = Analysis completed at Mississauga, Ontario.

Results relate only to the parameters tested on the samples submitted.
Methods references and/or additional QA/QC information available on request.

MRL = Method Reporting Limit, AO = Aesthetic Objective, OG = Operational Guideline,
MAC = Maximum Acceptable Concentration, IMAC = Interim Maximum Acceptable
Concentration, STD = Standard, PWQO = Provincial Water Quality Guideline, IPWQO
= Interim Provincial Water Quality Objective, TDR = Typical Desired Range

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SOW REF: 16.F.5.d

02 July 2014

Summit (behind PGS building), Berm of Tank W20A

Page 2 of 2

EXOVA OTTAWA

Certificate of Analysis

Exova

Client: Nasituq Corp. (Ottawa)
160 Elgin Street, Suite 400
Ottawa, ON
K2P 2C4
Attention: Ms. Barb Thomson
PO#:
Invoice to: Nasituq Corp. (Ottawa)

Report Number: 1414149
Date Submitted: 2014-07-10
Date Reported: 2014-07-14
Project:
COC #: 176108

| Group | Analyte | MRL | Units | Guideline | Lab I.D. | Sample Matrix | Sample Type | Sampling Date | Sample I.D. |
|---------------------|----------------------------------|--------|-------|-----------|----------|---------------|-------------|---------------|-------------|
| General Chemistry | pH | 1.00 | | | 1118246 | Wastewater | - | | |
| Mercury | Hg | 0.0001 | mg/L | | | | | <0.0001 | |
| Metals | Aqua-Regia Digest | | | | | | | Y | |
| | As | 0.02 | mg/L | | | | | <0.02 | |
| | Zn | 0.04 | mg/L | | | | | 0.22 | |
| Nutrients | Phenols | 0.001 | mg/L | | | | | <0.001 | |
| Oil & Grease | Oil & Grease - Total | 1 | mg/L | | | | | 1 | |
| PCBs | Polychlorinated Biphenyls (PCBs) | 0.1 | ug/L | | | | | <0.1 | |
| VOCs | Benzene | 0.5 | ug/L | | | | | <0.5 | |
| | Ethylbenzene | 0.5 | ug/L | | | | | <0.5 | |
| | Toluene | 0.5 | ug/L | | | | | 0.7 | |
| VOCs Surrogates (%) | Toluene-d8 | 0 | % | | | | | 99 | |

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02 July 2014

Summit (behind B-Train), berm of tanks W22K, W22J, W22I and W20B

Page 1 of 2

EXOVA OTTAWA

Certificate of Analysis

Exova

Client: Nasiliq Corp. (Ottawa)
160 Elgin Street, Suite 400
Ottawa, ON
K2P 2C4
Attention: Ms. Barb Thomson
PO#:
Invoice to: Nasiliq Corp. (Ottawa)

Report Number: 1414150
Date Submitted: 2014-07-10
Date Reported: 2014-07-11
Project:
COC #: 176107

| Group | Analyte | MRL | Units | Guideline |
|--------|---------|--------|-------|-----------|
| Metals | Cd | 0.0001 | mg/L | <0.0001 |
| | Co | 0.0002 | mg/L | <0.0002 |
| | Cr | 0.001 | mg/L | <0.001 |
| | Cu | 0.001 | mg/L | 0.003 |
| | Ni | 0.005 | mg/L | <0.005 |
| | Pb | 0.001 | mg/L | <0.001 |

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Summit (behind B-Train), berm of tanks W22K, W22J, W22I and W20B

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Certificate of Analysis

Exova 

Client: Nasituq Corp. (Ottawa)
160 Elgin Street, Suite 400
Ottawa, ON
K2P 2C4
Attention: Ms. Barb Thomson
PO#:
Invoice to: Nasituq Corp. (Ottawa)

Report Number: 1414148
Date Submitted: 2014-07-10
Date Reported: 2014-07-15
Project:
COC #: 176107

| Group | Analyte | MRL | Units | Guideline | Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D. |
|---------------------|----------------------------------|--------|-------|-----------|--|
| General Chemistry | pH | 1.00 | | 6.63 | |
| Mercury | Hg | 0.0001 | mg/L | <0.0001 | |
| Metals | Aqua-Regia Digest | | | Y | |
| | As | 0.02 | mg/L | <0.02 | |
| | Zn | 0.04 | mg/L | <0.04 | |
| Nutrients | Phenols | 0.001 | mg/L | <0.001 | |
| Oil & Grease | Oil & Grease - Total | 1 | mg/L | <1 | |
| PCBs | Polychlorinated Biphenyls (PCBs) | 0.1 | ug/L | <0.1 | |
| VOCs | Benzene | 0.5 | ug/L | <0.5 | |
| | Ethylbenzene | 0.5 | ug/L | <0.5 | |
| | Toluene | 0.5 | ug/L | <0.5 | |
| VOCs Surrogates (%) | Toluene-d8 | 0 | % | 95 | |

Guideline = * = Guideline Exceedence

** = Analysis completed at Mississauga, Ontario.

Results relate only to the parameters tested on the samples submitted.
Methods, references and/or additional QA/QC information available on request.

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