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# **2020 ANNUAL NUNAVUT WATER BOARD REPORT FOR FOX-M FOR THE North Warning System**

Contract # W8485-100224/001/NX  
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**Prepared for**  
**North Warning System & Assoc. Projects**  
Aerospace Equipment Program Directorate  
455 Blvd de la Carrière  
11<sup>th</sup> Floor  
Gatineau, Québec  
K1A 0K2

**Prepared by**



400 Cooper Street  
Suite 3000  
Ottawa, ON, K2P 2H8

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## EXECUTIVE SUMMARY IN ENGLISH FOLLOWS

[illegible]

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## EXECUTIVE SUMMARY

This 2020 Annual Report for the Nunavut Water Board (NWB) has been prepared by Raytheon Canada (RC) for the Department of National Defence in order to meet the requirements of Part B "General Conditions", paragraph 1 of its licence 8BC-FOH1929 issued 01 September 2019. This report covers 01 January to 31 December 2020.

RC is the Operation and Maintenance Contractor for the North Warning System (NWS), including FOX-M, the attended (manned) NWS radar site located at Sanirajak (Hall Beach), Nunavut.

The water usage at FOX-M in 2020 was 721.7 cubic metres, which is an average of 2.0 cubic metres per day. There is no water usage limit in the licence for FOX-M because water is drawn from an artificial (man-made) reservoir and not from a natural source.

Sewage at FOX-M was processed by the tertiary wastewater treatment system. Some of the treated effluent is recycled as on site urinal/toilet flush water. The treated effluent is of potable water quality. The treated sewage was sampled monthly. The sample collected in May was delayed in transit and did not reach the laboratory until July. The May sample was, therefore, not analyzed.

Samples of the water contained in the berms of fuel storage facilities was tested on-site using hydrocarbon test strips and confirmed to be within effluent quality limits of the NWB licence before the water was discharged.

Hazardous waste, including waste oil, was sent to an approved hazardous waste disposal site outside of Nunavut as required by the licence. The hazardous waste was shipped to Qikiqtaaluk Environmental, through their subcontractor Veolia, 2630, boul. Industriel, Chambly, QC J3L 4V2. The hazardous waste consisted of 98 drums of assorted waste (oil, fuel, glycol, etc.), three crates of waste batteries, two crates of PCB-containing material, one Quatrex bag of waste asbestos-containing material and 192 pails of waste hydraulic fluid.

Non-hazardous domestic solid waste was disposed of at the local landfill through a contract with the Hamlet of Sanirajak (Hall Beach). RC has documented authorization from the community for receiving the waste.

One spill to the environment occurred at FOX-M in 2020:

- 10-Mar-2020, NT-NU Spill #20-075: A radiator released 40 L of glycol. 10 L reached the outdoors and 30 L was contained in the radiator room. The spill was stopped right away and absorbent pads were put down to contain the spill. The contaminated snow was cleaned up.

The Spill Contingency Plan was successfully implemented.

No progressive reclamation work was undertaken in 2020.



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## 1.0 INTRODUCTION

This 2020 Annual Report for the Nunavut Water Board (NWB) has been prepared by Raytheon Canada (RC) for the Department of National Defence (DND) in order to meet the requirements of Part B “General Conditions”, paragraph 1 of its licence 8BC-FOH1929 issued 01 September 2019. This report covers 01 January to 31 December 2020.

RC is the Operation and Maintenance Contractor for the North Warning System (NWS), including FOX-M. FOX-M is an attended (manned) North Warning System radar site located at Sanirajak (Hall Beach), Nunavut.

### 1.1 Report Details

Licensee: Department of National Defence, Government of Canada  
Licence: 8BC-FOH1929 – Type “B”  
Location: FOX-M North Warning System Site, Sanirajak (Hall Beach), Qikiqtani Region, Nunavut  
Report Prepared by: Alaina Leslie and reviewed by Don Beattie  
Raytheon Canada, 17-Mar-2021  
Time period covered: 01 January to 31 December 2020

## 2.0 WATER USE

The water usage at FOX-M in 2020 was 721.7 cubic metres, which is an average of 2.0 cubic metres per day. See Table 2-1 for the volume of water drawn at FOX-M each month in 2020.

There is no water usage limit in the licence for FOX-M because water is drawn from an artificial (man-made) reservoir and not from a natural source.

Table 2-1: Monthly Raw Water Usage at FOX-M in 2020

Month	Raw water usage (m <sup>3</sup> )
January	48.2
February	51
March	50
April	48.5
May	60.5
June	56.5
July	54
August	65
September	98
October	66.5
November	57
December	66.5
<b>TOTAL</b>	<b>721.7</b>



### 3.0 TREATED SEWAGE DISCHARGE

At FOX-M, the sewage and grey water were both processed through a Cycle-let® advanced tertiary wastewater treatment system. Some of the treated water is recycled as urinal/toilet flush water; the remainder is discharged at the designated outfall and is potable water quality. See Table 3-1 for the volume of sewage and grey water treated by the Cycle-let® system. See **Section 6.0 – Monitoring Program** for details on sewage effluent monitoring.

The location and coordinates of treated sewage effluent outfall location (FOH-2) is contained in **Annex B**. Sewage sample analytical results and certificates of analysis are contained in **Annex C**.

Table 3-1: Monthly and Annual Volume of Sewage and Grey Water Treated at FOX-M in 2020

Month	Volume of sewage and greywater treated then discharged or recycled (m³)
January	48.2
February	51.0
March	50.0
April	48.5
May	60.5
June	56.5
July	54.0
August	65.0
September	98.0
October	66.5
November	57.0
December	66.5
<b>TOTAL</b>	<b>721.7</b>

### 4.0 HAZARDOUS WASTE AND WASTE OIL DISPOSAL

Hazardous waste, including waste oil, was sent to an approved hazardous waste disposal site outside of Nunavut as required by the licence. The hazardous waste was shipped to Qikiqtaaluk Environmental, through their subcontractor Veolia, 2630, boul. Industriel, Chambly, QC J3L 4V2. The hazardous waste consisted of 98 drums of assorted waste (oil, fuel, glycol, etc.), three crates of waste batteries, two crates of PCB-containing material, one Quatrex bag of waste asbestos-containing material and 192 pails of waste hydraulic fluid.

See Table 4-1, below, for the list of items sent for disposal. See **Annex A** for the shipping documents including the completed movement documents for waste regulated under the Transportation of Dangerous Goods Regulations (TDGR) and NWS Manifests for non-regulated waste.

Table 4-1: Hazardous Waste and Waste Oil Sent for Disposal from FOX-M in 2020

Description, TDG shipping name	Quantity	Movement Document or Manifest #
Waste hydraulic fluid	192 5 Gal Pails	NWS Manifest 42038
Not Regulated		



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Description, TDG shipping name	Quantity	Movement Document or Manifest #
Waste Activated Carbon Filter Not Regulated	4 Drums	NWS Manifest 42050
Waste Asbestos-containing Material Not TDG Regulated	16 Drums	NWS Manifest 42089, 42090, 42091, 42093
Waste Asbestos-containing Material Not TDG Regulated	1 Quatrex Bag	NWS Manifest 42204
Waste batteries, wet, filled with acid	2 Crate	Movement Document 2581531-7
Waste batteries, wet, non-spillable	1 Crate	Movement Document 2581531-7
Waste Jet A1 fuel and water mixture Waste fuel, aviation, turbine engine mixture	2 Drums	Movement Document 2581530-9
Waste fuel, aviation, turbine engine	5 Drums	Movement Document 2581530-9
Waste Jet A1 fuel fuel filters Waste solids containing flammable liquids, n.o.s (fuel, aviation, turbine engine)	2 Drums	Movement Document 2581532-5
Waste fuel contaminated soil Waste solids containing flammable liquids, n.o.s (fuel, aviation, turbine engine)	1 Drum	Movement Document 2581532-5
Waste Hydrochloric acid	2 Drums	Movement Document 2581531-7
Waste oil filters Not TDG regulated	4 Drums	NWS Manifest 42070
Waste oil Not TDG regulated	35 Drums	NWS Manifest 42047, 42048, 42051, 42053, 42057, 42058, 42059, 42060, 42063, 42064
Waste oily rags Waste solids containing flammable liquids, n.o.s (fuel, aviation, turbine engine)	6 Drums	Movement Document 2581532-5
Waste paint, flammable Waste paint	3 Drums	Movement Document 2581530-9
Waste POL soaked absorbent Waste solids containing flammable liquids, n.o.s (fuel, aviation, turbine engine)	2 Drums	Movement Document 2581532-5
Waste PCBs Waste, polychlorinated biphenyls	2 Crates	Movement Document 2581533-3
Waste sulfuric acid	3 drums	Movement Document 2581531-7

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Description, TDG shipping name	Quantity	Movement Document or Manifest #
Waste tank bottom water/ tank cleaning effluent	11 Drums	Movement Document 2581530-9
Waste fuel, aviation, turbine engine mixture		
Waste glycol	2 Drums	NWS Manifest 42062
Not TDG regulated		

## 5.0 NON-HAZARDOUS SOLID WASTE DISPOSAL

Non-hazardous domestic solid waste was disposed of at the local landfill through a contract with the Municipality of Sanirajak (Hall Beach). RC has documented authorization from the community for receiving the waste. See Table 5-1, below, for the quantity of non-hazardous waste generated.

Table 5-1: Non-hazardous Domestic Solid Waste Sent for Disposal from FOX-M in 2020

Month	Waste Generated (kg)
January	1277
February	587
March	923
April	1159
May	1195
June	1168
July	1057
August	3833
September	2184
October	1156
November	826
December	737
<b>TOTAL</b>	<b>16,102</b>

## 6.0 MONITORING PROGRAM

In 2020, a monitoring program was implemented at FOX-M as required by the water licence. The monitoring program included the following:

1. Volume of raw water drawn from the reservoir (FOH-1). The raw water monitoring information is shown in **Section 2.0 Water Use**.
2. Quality of sewage discharged from the final discharge point of the sewage treatment facility (FOH-2). The location of the sewage effluent outfall is shown in **Annex B**, including coordinates. The treated sewage was sampled monthly. The sample collected in May was delayed in transit and did not reach the laboratory until July. The May sample was, therefore, not analyzed. The results of the analyses are shown in **Annex C**.
3. Quality of the water contained in the berms of fuel storage facilities prior to discharge (FOH-3) was analyzed using hydrocarbon test strips and confirmed within the effluent quality limits listed in the water licence, Part D. The coordinates and the results of the analysis are shown in **Annex D**. All samples met the effluent requirements of the water licence, Part D.

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4. Final Discharge Point from the Landfarm (FOH-4). No landfarm has been established at FOX-M, so this monitoring station remains inactive.

## 7.0 SPILLS (UNAUTHORIZED DISCHARGES)

One spill to the environment occurred at FOX-M in 2020 which consisted of 40 L of 50% ethylene glycol solution. Table 7-1, below, describes the spill (unauthorized discharge) details.

The Spill Contingency Plan was successfully implemented.

Table 7-1: Unauthorized Discharges at FOX-M in 2020

Date, NT-NU Spill #	Product	Quantity	Cause and follow-up action	On-site location
10-Mar-2020, Spill # 20-075	50% Ethylene glycol solution	40 L (only 10 L reached the environment)	<p>On 10-Mar-2020, the radiator on a generator on-site failed, resulting in a spill of 40 L of glycol. 10 L reached the outdoors and 30 L was contained in the radiator room.</p> <p>The technicians shut down the generator right away, stopping the spill. Absorbent Pads were put down to contain the spill. The contaminated snow has been cleaned up. The cause of the spill was determined to be a dirty Automatic Vent Valve. The valve was subsequently cleaned.</p>	Inside and Outside of Radiator Room (68°45'41.38"N, 81°13'28.11"W)

## 8.0 REVISIONS TO THE SPILL CONTINGENCY PLAN

The Spill Contingency Plan was updated on 6-Jan-2021. An updated copy of the Spill Contingency Plan has been submitted to the NWB with this annual report.

## 9.0 PROGRESSIVE RECLAMATION WORK UNDERTAKEN

No progressive reclamation work was undertaken in 2020.

## 10.0 ACRONYMS

Table 10-1: Acronyms

Acronym	Definition
n.o.s	Not Otherwise Specified
NWB	Nunavut Water Board
NWS	North Warning System
PCB	Polychlorinated Biphenyl
RC	Raytheon Canada
TDGR	Transportation of Dangerous Goods Regulations

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## **ANNEX A. HAZARDOUS WASTE AND WASTE OIL DISPOSAL IN 2020**

The 2020 Movement Document for TDG Regulated waste and NWS Manifests for non-TDG Regulated waste (as previously described in Table 4-1) are included in the following pages.

The following documents are enclosed:

1. Movement Document 2581530-9
2. Movement Document 2581531-7
3. Movement Document 2581532-5
4. Movement Document 2581533-3
5. NWS Manifest 42038
6. NWS Manifest 42047
7. NWS Manifest 42048
8. NWS Manifest 42050
9. NWS Manifest 42051
10. NWS Manifest 42053
11. NWS Manifest 42057
12. NWS Manifest 42058
13. NWS Manifest 42059
14. NWS Manifest 42060
15. NWS Manifest 42062
16. NWS Manifest 42063
17. NWS Manifest 42064
18. NWS Manifest 42070
19. NWS Manifest 42089
20. NWS Manifest 42090
21. NWS Manifest 42091
22. NWS Manifest 42093
23. NWS Manifest 42129
24. NWS Manifest 42204

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# MOVEMENT DOCUMENT / MANIFEST DOCUMENT DE MOUVEMENT / MANIFESTE

This Movement document/manifest conforms to all federal and provincial transport and environmental legislation.  
Ce document de mouvement/manifeste est conforme aux législations fédérale et provinciale sur l'environnement et le transport.

2581530-9

Movement Document / Manifest Reference No.  
N° de référence du document de mouvement/manifeste

<b>A Generator / consignator</b> <b>Producteur / expéditeur</b> Registration No. / Provincial ID No. N° d'immatriculation - d'id. provincial <p style="text-align: center; font-size: 1.2em;">NU6 100003</p>		<b>B Carrier</b> <b>Transporteur</b> Registration No. / Provincial ID No. N° d'immatriculation - d'id. provincial <p style="text-align: center; font-size: 1.2em;">NEAS INC</p>		Reference Nos. of other movement document(s)/manifest(s) used / N° de référence des autres documents de mouvement/manifestes utilisés <p style="text-align: center; font-size: 1.2em;">25</p>	
Company name / Nom de l'entreprise <p style="font-size: 1.2em;">DEPARTMENT OF NATIONAL DEFENCE c/o RCL</p> Mailing address / Adresse postale <p style="font-size: 1.2em;">22 WING BLDG 109 HORNEILL HEIGHTS ON RDH IP3</p> E-mail / Courriel électronique <p style="font-size: 1.2em;">705 494-2011 EXT 2861</p>		Company name / Nom de l'entreprise <p style="font-size: 1.2em;">2100 Av Pierre-Dupuy MONTREAL QC H3C3R5</p> E-mail / Courriel électronique <p style="font-size: 1.2em;">1 877 225 6337</p>		<b>C Receiver / consignee</b> <b>Réceptionnaire / destinataire</b> Registration No. / Provincial ID No. N° d'immatriculation - d'id. provincial <p style="text-align: center; font-size: 1.2em;">26</p>	
Shipping site address / Adresse du lieu de l'expédition <p style="font-size: 1.2em;">NWS LSS HALL BEACH PO BOX 46</p> City / Ville <p style="font-size: 1.2em;">HALL BEACH NU X0A 0K0</p>		Vehicle / Véhicule Trailer - Rail car No. 1 1 <sup>re</sup> remorque - wagon Trailer - Rail car No. 2 2 <sup>e</sup> remorque - wagon Registration No. / N° d'immatriculation <p style="text-align: center; font-size: 1.2em;">24</p>		Receiver / consignee information same as in Part A Les renseignements du réceptionnaire / destinataire sont les mêmes qu'à la Partie A <input type="checkbox"/> Yes / Oui <input type="checkbox"/> No, complete the box below / Non, remplir la case ci-dessous 	
Intended Receiver / consignee Réceptionnaire / destinataire prévu Registration No. / Provincial ID No. N° d'immatriculation - d'id. provincial <p style="font-size: 1.2em;">910-16-348154</p>		Port of entry Point d'entrée International use only Port of exit Point de sortie International use only <p style="text-align: center; font-size: 1.2em;">25</p>		Company name / Nom de l'entreprise Mailing address / Adresse postale City / Ville Province Postal code / Code postal E-mail / Courriel électronique Tel. No. / N° de tél. Receiving site address / Adresse du lieu de destination <p style="text-align: center; font-size: 1.2em;">26</p>	
Mailing address / Adresse postale City / Ville Province Postal code / Code postal <p style="font-size: 1.2em;">9935 DECHATEAUHEUF ENTRANCE 1 SUIT 200</p>		Carrier Certification: I certify that I have received waste or recyclable material from the generator / consignator for delivery to the receiver / consignee as set out in Part A and that the information contained in Part B is complete and correct. Attestation du transporteur: J'atteste avoir reçu les déchets ou matières recyclables du producteur / expéditeur en vue de leur livraison au réceptionnaire / destinataire, tels qu'ils figurent à la partie A et que les renseignements inscrits à la partie B sont exacts et complets. Name of authorized person (print): Nom de l'agent autorisé (caractères d'imprimerie): <p style="font-size: 1.2em;">QUENTIN BRENEUR</p>		Date received / Date de réception Year / Année Month / Mois Day / Jour Time / Heure <input type="checkbox"/> A.M. <input type="checkbox"/> P.M. <p style="text-align: center; font-size: 1.2em;">27</p>	
Receiving site address / Adresse du lieu de destination City / Ville Province Postal code / Code postal <p style="font-size: 1.2em;">VEOLIA 2630 BOUL INDUSTRIAL</p>		Year / Année Month / Mois Day / Jour Signature <p style="font-size: 1.2em;">20 08 21</p>		If waste or recyclable material to be transferred, specify intended company name / Si les déchets ou matières recyclables doivent être transférés, préciser le nom du destinataire Registration No. / Provincial ID No. N° d'immatriculation / d'id provincial <p style="text-align: center; font-size: 1.2em;">28</p>	
Prov. code Code prov. <p style="text-align: center; font-size: 1.2em;">3</p>		Shipping name Appellation réglementaire <p style="font-size: 1.2em;">WASTE FUEL, AVIATION TURBINE MIXTURE</p>		Class / Classe Sub. class(es) Classe(s) sub. <p style="text-align: center; font-size: 1.2em;">3</p>	
UN No. N° NU <p style="text-align: center; font-size: 1.2em;">1863</p>		Packing / risk gr. Gr. d'emballage / de risque <p style="text-align: center; font-size: 1.2em;">III</p>		Quantity shipped Quantité expédiée <p style="text-align: center; font-size: 1.2em;">2600</p>	
Units L or / ou Kg Unités <p style="text-align: center; font-size: 1.2em;">L</p>		Packaging/Contentant Codes Int - ext <p style="text-align: center; font-size: 1.2em;">13 01</p>		Phys. state Etat phys. <p style="text-align: center; font-size: 1.2em;">L</p>	
(i) * WASTE FUEL, AVIATION TURBINE MIXTURE (ii) ** WASTE FUEL, AVIATION TURBINE, ENGINE (iii) *** WASTE, PAINT RELATED MATERIAL (iv)		(i) 3 4N 1863 III 2600 L 13 01 L (ii) 3 4N 1863 III 1000 L 5 01 L (iii) 3 4N 1263 III 273 KG 3 01 S (iv)		Quantity received Quantité reçue Units L or / ou kg Unités Comments Commentaires Handling Code / Code de manutention Shipment / Envoi Accepted / Refused Accepté / Refusé Decont. Cont. / Veh. Cont. / Veh.	
Notice No. N° de notification Notice Line No. N° de ligne de la notification Shipment Envoi Of / De D or R code Code D ou R C code Code C		Basel Annex VIII or OECD Code Annexe VIII de Bâle ou Code OCDE H code Code H Y code Code Y Export Exportation Import Importation Customs code(s) Code(s) de douanes		National code in country of / Code du pays If handling code "Other" (specify) Si code de manutention « autre » (spécifier) Receiver / consignee certification: I certify that the information contained in Part C is correct and complete. / Attestation du réceptionnaire / destinataire: J'atteste que tous les renseignements à la partie C sont exacts et complets. Name of authorized person (print) Nom de l'agent autorisé (caractères d'imprimerie) Signature Tel. No. / N° de tél. ( )	
(i) * FLASH POINT 38°C (ii) ** FLASH POINT 38°C (iii) *** FLASH POINT 40°C (iv)		(i) * FLASH POINT 38°C (ii) ** FLASH POINT 38°C (iii) *** FLASH POINT 40°C (iv)		Special handling / Manutention spéciale <input type="checkbox"/> Attached / Ci-joint: <input type="checkbox"/> As follows / Ci-contre: <p style="text-align: center; font-size: 1.2em;">22</p>	
EMERGENCY CONTACT #24-HOUR CANYTEC 1(613) 996-6666 Generator / consignator certification: I certify that the information contained in Part A is correct and complete. I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. Attestation du producteur / expéditeur: J'atteste que tous les renseignements à la partie A sont exacts et complets. Je déclare que le contenu de ce chargement est décrit ci-dessus de façon complète et exacte par la désignation officielle de transport et qu'il est convenablement classé, emballé, marqué, étiqueté, muni de plaques-étiquettes et à tous égards bien conditionné pour être transporté conformément aux réglementations internationales et nationales applicables.		Name of authorized person (print) Nom de l'agent autorisé (caractères d'imprimerie) Signature Tel. No. / N° de tél. ( )		Date shipped / Date d'expédition Year / Année Month / Mois Day / Jour Time / Heure <input type="checkbox"/> A.M. <input type="checkbox"/> P.M. Scheduled arrival date / Date d'arrivée prévue Year / Année Month / Mois Day / Jour	

Instructions on reverse  
Instructions au verso

Copy / Copie 1 (white / blanche)



# MOVEMENT DOCUMENT / MANIFEST DOCUMENT DE MOUVEMENT / MANIFESTE

This Movement document/manifest conforms to all federal and provincial transport and environmental legislation.  
Ce document de mouvement/manifeste est conforme aux législations fédérale et provinciale sur l'environnement et le transport.

2581531-7

Movement Document / Manifest Reference No.  
N° de référence du document de mouvement/manifeste

<b>A Generator / consigneur</b> <b>Producteur / expéditeur</b> Registration No. / Provincial ID No. N° d'immatriculation - d'id. provincial <p style="text-align: center; font-size: 1.2em;">NUG 100063</p> Company name / Nom de l'entreprise DEPARTMENT OF NATIONAL DEFENCE C/O RCL Mailing address / Adresse postale City / Ville Province Postal code / Code postal 22 WING BLDG 109 HORVEIL HEIGHTS ON RDH 1P3 E-mail / Courriel électronique Tel. No. / N° de tél. 705 494-2011 EXT 2861 Shipping site address / Adresse du lieu de l'expédition NUOS LSS HALL BEACH PO Box 46 City / Ville Province Postal code / Code postal HALL BEACH NU X0A 0K0 Intended Receiver / consignee Réceptionnaire / destinataire prévu QIKIQTAA LUK ENVIRONMENTAL Mailing address / Adresse postale City / Ville Province Postal code / Code postal 9935 DECHATEAUVEU ENTRANCE 1 SUITE 200 E-mail / Courriel électronique Tel. No. / N° de tél. BROSSARD QC J4Z 3V4 1-866-634-6367 Receiving site address / Adresse du lieu de destination VEOLIA 2630 BOUL INDUSTRIAL City / Ville Province Postal code / Code postal CHAMBLY QC J3L 4V2		<b>B Carrier</b> <b>Transporteur</b> Registration No. / Provincial ID No. N° d'immatriculation - d'id. provincial Company name / Nom de l'entreprise NGAS INC Mailing address / Adresse postale City / Ville Province Postal code / Code postal 2100 LA PIERRE - DUPUY MONTREAL QC H3C 3R5 E-mail / Courriel électronique Tel. No. / N° de tél. 1 877 225 6337 Vehicle / Véhicule Trailer - Rail car No. 1 1 <sup>re</sup> remorque - wagon Trailer - Rail car No. 2 2 <sup>e</sup> remorque - wagon Port of entry / Point d'entrée International use only Port of exit / Point de sortie International use only Carrier Certification: I certify that I have received waste or recyclable material from the generator / consigneur for delivery to the receiver / consignee as set out in Part A and that the information contained in Part B is complete and correct. Attestation du transporteur: J'atteste avoir reçu les déchets ou matières recyclables du producteur / expéditeur en vue de leur livraison au réceptionnaire / destinataire, tels qu'ils figurent à la partie A et que les renseignements inscrits à la partie B sont exacts et complets. Name of authorized person (print): Nom de l'agent autorisé (caractères d'imprimerie): QUENTIN BRENNER Tel. No. / N° de tél. 438 334 4166 Year / Année Month / Mois Day / Jour Signature 2008 21		<b>C Receiver / consignee</b> <b>Réceptionnaire / destinataire</b> Registration No. / Provincial ID No. N° d'immatriculation - d'id. provincial Receiver / consignee information same as in Part A Les renseignements du réceptionnaire / destinataire sont les mêmes qu'à la Partie A <input type="checkbox"/> Yes / Oui <input type="checkbox"/> No, complete the box below / Non, remplir la case ci-dessous Company name / Nom de l'entreprise Mailing address / Adresse postale City / Ville Province Postal code / Code postal E-mail / Courriel électronique Tel. No. / N° de tél. Receiving site address / Adresse du lieu de destination Date received / Date de réception Year / Année Month / Mois Day / Jour Time / Heure <input type="checkbox"/> A.M. <input type="checkbox"/> P.M. If waste or recyclable material to be transferred, specify intended company name / Si les déchets ou matières recyclables doivent être transférés, préciser le nom du destinataire Registration No. / Provincial ID No. N° d'immatriculation / d'id. provincial Quantity received / Quantité reçue Units / Unités L or / ou kg Comments / Commentaires Handling Code / Code de manutention Shipment / Envoi Accepted / Accepté Refused / Refusé Decont. / Décont. Pack. / Veh. Cont. / Veh. If handling code "Other" (specify) Si code de manutention « autre » (spécifier) Receiver / consignee certification: I certify that the information contained in Part C is correct and complete. Attestation du réceptionnaire / destinataire: J'atteste que tous les renseignements à la partie C sont exacts et complets. Name of authorized person (print) Nom de l'agent autorisé (caractères d'imprimerie) Signature Tel. No. / N° de tél. Special handling / Manutention spéciale <input type="checkbox"/> Attached / Ci-joint: <input type="checkbox"/> As follows / Ci-contre:	
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Prov. code Code prov.	Shipping name Appellation réglementaire	Class / Classe Sub. class(es) Classes(s) sub.	UN No. N° NU	Packing / risk gr. Gr. d'emballage/ de risque	Quantity shipped Quantité expédiée	Units L or / ou Kg Unités	Packaging/Container No. / N° Codes Int - ext.	Phys. state Etat phys.
(i)	WASTE HYDROCHLORIC ACID	8	UN 1789	III	160	L	2 01 L	
(ii)	WASTE SULFURIC ACID	8	UN 1830	II	130	L	3 01 L	
(iii)	* WASTE BATTERIES, WET NON-Spillable	8	UN 2800		205	KG	1 01 S	
(iv)	** WASTE BATTERIES WET FILLED WITH ACID	8	UN 2794		1409	KG	2 07 S	

Notice No. N° de notification	Notice Line No. N° de ligne de la notification	Shipment Envoi	Of / De	D or R code Code D ou R	C code Code C	Base/Annex VIII or OECD Code Annexe VIII de Bâle ou Code CODE	H code Code H	Y code Code Y	Export Exportation	Import Importation	Customs code(s) Code(s) de douanes
(i)	* 15 BATTERIES IN PALLETIZED DRUM										
(ii)	** 26 BATTERIES IN TWO WOOD CRATE.										
International use only											
(iv)	EMERGENCY CONTACT #24-Hour CANUTEC 1 (613) 996-6666										

**Generator / consigneur certification:** I certify that the information contained in Part A is correct and complete. I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.  
**Attestation du producteur / expéditeur:** J'atteste que tous les renseignements à la partie A sont exacts et complets. Je déclare que le contenu de ce chargement est décrit ci-dessus de façon complète et exacte par la désignation officielle de transport et qu'il est convenablement classé, emballé, marqué, étiqueté, muni de plaques-étiquettes et à tous égards bien conditionné pour le transport conformément aux réglementations internationales et nationales applicables.

Name of authorized person (print)  
 Nom de l'agent autorisé (caractères d'imprimerie):  
 CRAIG IVANY  
 1-705-494-2011 EXT 2861  
 Signature

Instructions on reverse  
Instructions au verso

Copy / Copie 1 (white / blanche)



# MOVEMENT DOCUMENT / MANIFEST DOCUMENT DE MOUVEMENT / MANIFESTE

This Movement document/manifest conforms to all federal and provincial transport and environmental legislation.  
Ce document de mouvement/manifeste est conforme aux législations fédérale et provinciale sur l'environnement et le transport.

2581532-5

Movement Document / Manifest Reference No.  
N° de référence du document de mouvement/manifeste

<b>A Generator / consigneur</b> <b>Producteur / expéditeur</b>  Registration No. / Provincial ID No. N° d'immatriculation - d'id. provincial <b>NUG 100063</b>		<b>B Carrier</b> <b>Transporteur</b>  Registration No. / Provincial ID No. N° d'immatriculation - d'id. provincial  Company name / Nom de l'entreprise <b>NEAS INC</b> Mailing address / Adresse postale City / Ville Province Postal code / Code postal <b>2100 AV PIERRE-DUPUY MONTREAL, QC, H3C 3R5</b> E-mail / Courriel électronique Tel. No. / N° de tél. <b>1877 225 6337</b>		Reference Nos. of other movement document(s)/manifest(s) used / N° de référence des autres documents de mouvement/manifestes utilisés  <b>C Receiver / consignee</b> <b>Réceptionnaire / destinataire</b>  Registration No. / Provincial ID No. N° d'immatriculation - d'id. provincial  Receiver / consignee information same as in Part A Les renseignements du réceptionnaire / destinataire sont les mêmes qu'à la Partie A <input type="checkbox"/> Yes / Oui <input type="checkbox"/> No, complete the box below / Non, remplir la case ci-dessous  Company name / Nom de l'entreprise  Mailing address / Adresse postale  City / Ville Province Postal code / Code postal  E-mail / Courriel électronique Tel. No. / N° de tél. ( ) Receiving site address / Adresse du lieu de destination  Date received / Date de réception Year / Année Month / Mois Day / Jour Time / Heure <input type="checkbox"/> A.M. <input type="checkbox"/> P.M. If waste or recyclable material to be transferred, specify intended company name/ Si les déchets ou matières recyclables doivent être transférés, préciser le nom du destinataire 30 Registration No./Provincial ID No. N° d'immatriculation/d'id provincial  Quantity received / Quantité reçue Units 31 L or / ou kg Unités Comments 32 Commentaires Handling Code / Code de manutention 33 Shipment / Envoi 34 Accepted / Refused / Refusé / Accepté Decont. 35 Pack. / Veh. Cont. / Veh.  If handling code "Other" (specify) Si code de manutention « autre » (spécifier)  <b>Receiver / consignee certification:</b> I certify that the information contained in Part C is correct and complete. / <b>Attestation du réceptionnaire / destinataire:</b> J'atteste que tous les renseignements à la partie C sont exacts et complets.  Name of authorized person (print) Nom de l'agent autorisé (caractères d'imprimerie)  Signature Tel. No. / N° de tél. ( )  Special handling / Manutention spéciale <input type="checkbox"/> Attached / Ci-joint <input type="checkbox"/> As follows / Ci-contre :  Date shipped / Date d'expédition Year / Année Month / Mois Day / Jour Time / Heure <input type="checkbox"/> A.M. <input type="checkbox"/> P.M. Scheduled arrival date / Date d'arrivée prévue Year / Année Month / Mois Day / Jour	
Company name / Nom de l'entreprise <b>DEPARTMENT OF NATIONAL DEFENCE c/o. RCL</b> Mailing address / Adresse postale City / Ville Province Postal code / Code postal <b>22 WING BLDG 109 NORNEIL HEIGHTS ONTARIO</b> E-mail / Courriel électronique Tel. No. / N° de tél. <b>705 494-2011 EXT 2861</b> Shipping site address / Adresse du lieu de l'expédition <b>NWS LSS HALL BEACH PO Box 46</b> City / Ville Province Postal code / Code postal <b>HALL BEACH NU X0A 0K0</b> Intended Receiver / consignee Réceptionnaire / destinataire prévu Registration No. / Provincial ID No. N° d'immatriculation - d'id. provincial <b>GIKIQTAALUK ENVIROUMETAL 7010-46-348154</b> Mailing address / Adresse postale City / Ville Province Postal code / Code postal <b>9935 DECHATEAU 4F ENTRANC 1 SUIT 200</b> E-mail / Courriel électronique Tel. No. / N° de tél. <b>BROSSARD QC J4Z 3V4 1-866-634-6367</b> Receiving site address / Adresse du lieu de destination <b>VEOLIA 2630 BOUL INDUSTRIAL</b> City / Ville Province Postal code / Code postal <b>CHAMBLY QC J3L 4V2</b>		Vehicle / Véhicule Trailer - Rail car No. 1 1 <sup>re</sup> remorque - wagon Trailer - Rail car No. 2 2 <sup>e</sup> remorque - wagon Registration No. / N° d'immatriculation Prov. 24  Port of entry / Point d'entrée International use only Port of exit / Point de sortie International use only 25 Carrier Certification: I certify that I have received waste or recyclable material from the generator / consigneur for delivery to the receiver / consignee as set out in Part A and that the information contained in Part B is complete and correct. Attestation du transporteur: J'atteste avoir reçu les déchets ou matières recyclables du producteur / expéditeur en vue de leur livraison au réceptionnaire / destinataire, tels qu'ils figurent à la partie A et que les renseignements inscrits à la partie B sont exacts et complets. Name of authorized person (print): Nom de l'agent autorisé (caractères d'imprimerie): <b>QUENTIN BRENEUR</b> Tel. No. / N° de tél. <b>438 334 4166</b> Year / Année Month / Mois Day / Jour Signature <b>2008 21</b>		Prov. code Code prov. 3 Shipping name Appellation réglementaire 4 Class / Classe Sub. class(es) UN No. N° NU 5 Packing / risk gr. Gr. d'emballage / de risque 6 Quantity shipped Quantité expédiée 7 Units L or / ou kg Unités 8 Packaging/Contenant No. / N° Codes Int-ext 9 Phys. state Etat phys. 10 (i) WASTE SOLIDS CONTAINING FLAMMABLE LIQUIDS 4.1 UN 3125 II 1182 KG 11 01 S (ii) N.O.S. FUEL AVIATION (iii) TURBINE ENGINE (iv)	
Notice No. N° de notification Notice Line No. N° de ligne de la notification Shipment Envoi Of / De D or R code Code D ou R C code Code C Basel Annex VIII or OECD Code Annexe VIII de Bâle ou Code OCDE H code Code H Y code Code Y National code in country of / Code du pays Export Import Customs code(s) Code(s) de douanes (i) (ii) (iii) (iv)		International use only EMERGENCY CONTACT #24 HOUR CANUTEC 1 (613) 996-6666 Generator / consigneur certification: I certify that the information contained in Part A is correct and complete. I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. Attestation du producteur / expéditeur: J'atteste que tous les renseignements à la partie A sont exacts et complets. Je déclare que le contenu de ce chargement est décrit ci-dessus de façon complète et exacte par la désignation officielle de transport et qu'il est convenablement classé, emballé, marqué, étiqueté, muni de plaques-étiquettes et à tous égards bien conditionné pour le transport conformément aux réglementations internationales et nationales applicables. Name of authorized person (print) Nom de l'agent autorisé (caractères d'imprimerie) <b>CRANFORD</b> Tel. No. / N° de tél. <b>705 494-2011 EXT 2861</b> Signature <b>ROM DUBEAU</b>		Instructions on reverse Instructions au verso Copy / Copie 1 (white / blanche)	



# MOVEMENT DOCUMENT / MANIFEST DOCUMENT DE MOUVEMENT / MANIFESTE

This Movement document/manifest conforms to all federal and provincial transport and environmental legislation.  
Ce document de mouvement/manifeste est conforme aux législations fédérale et provinciale sur l'environnement et le transport.

2581533-3

Movement Document / Manifest Reference No.  
N° de référence du document de mouvement/manifeste

<b>A Generator / consigneur</b> <b>Producteur / expéditeur</b> Registration No. / Provincial ID No. N° d'immatriculation - d'id. provincial <p style="text-align: center; font-size: 1.2em;">NUG 100003</p>		<b>B Carrier</b> <b>Transporteur</b> Registration No. / Provincial ID No. N° d'immatriculation - d'id. provincial <p style="text-align: center; font-size: 1.2em;">NEAS INC</p>		Reference Nos. of other movement document(s)/manifest(s) used / N° de référence des autres documents de mouvement/manifestes utilisés <p style="text-align: center; font-size: 1.2em;">27</p>	
Company name / Nom de l'entreprise DEPARTMENT OF NATIONAL DEFENCE C/O RCL Mailing address / Adresse postale City / Ville Province Postal code / Code postal 22 WING BLOC 109 HORVELL HEIGHTS RD PMB 1P3 E-mail / Courriel électronique Tel. No. / N° de tél. 705 494-2011 EXT 2861		Company name / Nom de l'entreprise NEAS INC Mailing address / Adresse postale City / Ville Province Postal code / Code postal 2100 AV PIERRE-DUPOY, MONTREAL, QC H3C 3R5 E-mail / Courriel électronique Tel. No. / N° de tél. 1 877 225 6337		<b>C Receiver / consignee</b> <b>Réceptionnaire / destinataire</b> Registration No. / Provincial ID No. N° d'immatriculation - d'id. provincial <p style="text-align: center; font-size: 1.2em;">28</p>	
Shipping site address / Adresse du lieu de l'expédition HWY 155 HALL BEACH RD BOX 46 City / Ville Province Postal code / Code postal HALL BEACH NU X0A 0K0		Vehicle / Véhicule Trailer - Rail car No. 1 1 <sup>re</sup> remorque - wagon Trailer - Rail car No. 2 2 <sup>e</sup> remorque - wagon Registration No. / N° d'immatriculation Prov. 24		Receiver / consignee information same as in Part A Les renseignements du réceptionnaire / destinataire sont les mêmes qu'à la Partie A <input type="checkbox"/> Yes / Oui <input type="checkbox"/> No, complete the box below / Non, remplir la case ci-dessous	
Intended Receiver / consignee Réceptionnaire / destinataire prévu GIKIQTAAUK ENVIRONMETAL Mailing address / Adresse postale City / Ville Province Postal code / Code postal 9935 DERHATENEUF ENTRANC 15th 200 E-mail / Courriel électronique Tel. No. / N° de tél. BROSSARD QC J4Z 3V4 1-866-634-6367 Receiving site address / Adresse du lieu de destination VEOLIA 2630 BOUL INDUSTRIAL City / Ville Province Postal code / Code postal CHAMBLY QC J3L 4V2		Port of entry / Point d'entrée International use only Port of exit / Point de sortie International use only Carrier Certification: I certify that I have received waste or recyclable material from the generator / consigneur for delivery to the receiver / consignee as set out in Part A and that the information contained in Part B is complete and correct. Attestation du transporteur: J'atteste avoir reçu les déchets ou matières recyclables du producteur / expéditeur en vue de leur livraison au réceptionnaire / destinataire, tels qu'ils figurent à la partie A et que les renseignements inscrits à la partie B sont exacts et complets. Name of authorized person (print): Nom de l'agent autorisé (caractères d'imprimerie): QUENTIN BRENEUR Tel. No. / N° de tél. 438 334 4166		Date received / Date de réception Year / Année Month / Mois Day / Jour Time / Heure <input type="checkbox"/> A.M. <input type="checkbox"/> P.M.	
Prov. code Code prov.		Shipping name Appellation réglementaire WASTE, POLYCHLORINATED BIPHENYLS, SOLID Class / Classe Sub. class(es) Classes(s) sub. 9 UN No. N° NU 3432 Packing / risk gr. Gr. d'emballage / de risque II Quantity shipped Quantité expédiée 3091 Units L or / ou Kg Unités KG Packaging/Contenant No. / N° 2 Codes Int-ext 07 Phys. state État phys. S		Quantity received Quantité reçue Units L or / ou Kg Unités Comments Commentaires Handling Code / Code de manutention Shipment / Envoi Accepted / Refused Accepté / Refusé Decont. Veh. Cont.	
Notice No. N° de notification Notice Line No. N° de ligne de la notification Shipment Envoi Of / De D or R code Code D ou R C code Code C Basel Annex VIII or OECD Code Annexe VIII de Bâle ou Code OCDE H code Code H Y code Code Y National code in country of / Code du pays Export Exportation Import Importation Customs code(s) Code(s) de douanes		If handling code "Other" (specify) Si code de manutention « autre » (spécifier) Receiver / consignee certification: I certify that the information contained in Part C is correct and complete. / Attestation du réceptionnaire / destinataire: J'atteste que tous les renseignements à la partie C sont exacts et complets. Name of authorized person (print) Nom de l'agent autorisé (caractères d'imprimerie) Signature Tel. No. / N° de tél. ( )		Special handling / Manutention spéciale <input type="checkbox"/> Attached / Ci-joint <input type="checkbox"/> As follows / Ci-contre:	
EMERGENCY CONTACT #24-HOUR CANTUEC 1 (613) 996-6666 Generator / consigneur certification: I certify that the information contained in Part A is correct and complete. I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. Attestation du producteur / expéditeur: J'atteste que tous les renseignements à la partie A sont exacts et complets. Je déclare que le contenu de ce chargement est décrit ci-dessus de façon complète et exacte par la désignation officielle de transport et qu'il est convenablement classé, emballé, marqué, étiqueté, muni de plaques-étiquettes et à tous égards en condition pour le transport conformément aux réglementations internationales et nationales applicables.		Name of authorized person (print) Nom de l'agent autorisé (caractères d'imprimerie) CRAIG WILSON Tel. No. / N° de tél. 705-494-2011 EXT 2861 Signature ROY DUBEAU		Date shipped / Date d'expédition Year / Année Month / Mois Day / Jour Time / Heure <input type="checkbox"/> A.M. <input type="checkbox"/> P.M. Scheduled arrival date / Date d'arrivée prévue Year / Année Month / Mois Day / Jour	

Instructions on reverse  
Instructions au verso

Copy / Copie 1 (white / blanche)



# SHIPPING MANIFEST

Suite 3000, 400 Cooper Street, Ottawa, ON K2P 2H8

**NON NEGOTIABLE**

Filled By: <b>RDUBEAU</b>	Date: <b>Aug 10, 2020, 9:43 AM</b>	Project ID:	Task ID: <b>TCN-42038</b>
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Ship To: QIKIQTAAALUK ENVIRONMENTAL (QE) C/O VEOLIA 2630, BOUL. INDUSTRIEL CHAMBLY, QC, J3L 4V2 1-866-634-6367	From: LSS-F/FOX-M, HALL BEACH, DND Storeroom Raytheon Canada Limited, LSS Hall Beach: P.O. Box 46 Hall Beach, NU, X0A 0K0 867-928-8987	Priority <b>12</b>
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Attention:		Attention:	
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Carrier: NEAS	Routing: HALL BEACH/VALLEYFIELD/CHAMBLY	Waybill #:	Total Pcs. 7	Total Weight: 7476 LBS
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QTY Order	Type	Line Weight	Item	Description	WO or PO	B/Code or S/N	Remarks
1	PALLET		4001427	OIL, JOHN DEERE HYDRAU HYDRAUL	PALLET # 1		48 18.9 L PLASTIC PAIL ON WOOD PALLET 48" X 48" X 48"
1	PALLET		4001427	OIL, JOHN DEERE HYDRAU HYDRAUL	PALLET # 2		24 18.9 L PLASTIC PAIL ON WOOD PALLET 48" X 40" X 34"
1	PALLET		4001427	OIL, JOHN DEERE HYDRAU HYDRAUL	PALLET # 3		24 18.9 L PLASTIC PAIL ON WOOD PALLET 48" X 40" X 34"
1	PALLET		4001427	OIL, JOHN DEERE HYDRAU HYDRAUL	PALLET # 4		24 18.9 L PLASTIC PAIL ON WOOD PALLET 48" X 40" X 34"
1	PALLET		4001427	OIL, JOHN DEERE HYDRAU HYDRAUL	PALLET # 5		24 18.9 L PLASTIC PAIL ON WOOD PALLET 48" X 40" X 34"
1	PALLET		4001427	OIL, JOHN DEERE HYDRAU HYDRAUL	PALLET # 6		24 18.9 L PLASTIC PAIL ON WOOD PALLET 48" X 40" X 34"
1	PALLET		4001427	OIL, JOHN DEERE HYDRAU HYDRAUL	PALLET # 7		24 18.9 L PLASTIC PAIL ON WOOD PALLET 48" X 40" X 34"

**NOTE: All claims related to this shipment have to be filled with Raytheon within 45 hours of receipt.**

Received By:	Date
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Received By:	Date
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## SHIPPING MANIFEST

Suite 3000, 400 Cooper Street, Ottawa, ON K2P 2H8

**NON NEGOTIABLE**

Filled By: <b>RDUBEAU</b>	Date: <b>Aug 10, 2020, 5:25 PM</b>	Project ID:	Task ID: <b>TCN-42047</b>
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Ship To: QIKIQTAAALUK ENVIRONMENTAL (QE) C/O VEOLIA 2630, BOUL. INDUSTRIEL CHAMBLY, QC, J3L 4V2 1-866-634-6367	From: LSS-F/FOX-M, HALL BEACH, DND Storeroom Raytheon Canada Limited, LSS Hall Beach: P.O. Box 46 Hall Beach, NU, X0A 0K0 867-928-8987	Priority <b>12</b>
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Attention:		Attention:	
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Carrier:	Routing:	Waybill #:	Total Pcs.	Total Weight:
NEAS	HALL BEACH/VALLEYFIELD/CHAMBLY		1	1700 LBS

QTY Order	Type	Line Weight	Item	Description	WO or PO	B/Code or S/N	Remarks
1	PALLET	1700 LBS	2002406	WASTE - OIL, 45 GAL	PALLET # 8		ASSETS, 3541327,3541368,354140,354141 48" X 48" X 43"

**NOTE: All claims related to this shipment have to be filled with Raytheon within 45 hours of receipt.**

Received By:	Date
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Received By:	Date
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## SHIPPING MANIFEST

Suite 3000, 400 Cooper Street, Ottawa, ON K2P 2H8

**NON NEGOTIABLE**

Filled By: <b>RDUBEAU</b>	Date: <b>Aug 10, 2020, 5:41 PM</b>	Project ID:	Task ID: <b>TCN-42048</b>
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Ship To: QIKIQTAAALUK ENVIRONMENTAL (QE) C/O VEOLIA 2630, BOUL. INDUSTRIEL CHAMBLY, QC, J3L 4V2 1-866-634-6367	From: LSS-F/FOX-M, HALL BEACH, DND Storeroom Raytheon Canada Limited, LSS Hall Beach: P.O. Box 46 Hall Beach, NU, X0A 0K0 867-928-8987	Priority <b>12</b>
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Attention:		Attention:	
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<b>Carrier:</b>	<b>Routing:</b>	<b>Waybill #:</b>	<b>Total Pcs.</b>	<b>Total Weight:</b>
NEAS	HALL BEACH /VALLEYFIELD/ CHAMBLY		1	1700 LBS

QTY Order	Type	Line Weight	Item	Description	WO or PO	B/Code or S/N	Remarks
1	PALLET	1700 LBS	2002406	WASTE - OIL, 45 GAL	PALLET # 9		ASSETS 354139,354135,354134,354136 48"X 48" X 44"

**NOTE: All claims related to this shipment have to be filled with Raytheon within 45 hours of receipt.**

Received By:	Date
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Received By:	Date
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## SHIPPING MANIFEST

Suite 3000, 400 Cooper Street, Ottawa, ON K2P 2H8

**NON NEGOTIABLE**

Filled By: <b>RDUBEAU</b>	Date: <b>Aug 10, 2020, 5:51 PM</b>	Project ID:	Task ID: <b>TCN-42050</b>
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Ship To: QIKIQTAAALUK ENVIRONMENTAL (QE) C/O VEOLIA 2630, BOUL. INDUSTRIEL CHAMBLY, QC, J3L 4V2 1-866-634-6367	From: LSS-F/FOX-M, HALL BEACH, DND Storeroom Raytheon Canada Limited, LSS Hall Beach: P.O. Box 46 Hall Beach, NU, X0A 0K0 867-928-8987	Priority: <b>12</b>
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Attention:		Attention:	
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<b>Carrier:</b>	<b>Routing:</b>	<b>Waybill #:</b>	<b>Total Pcs.</b>	<b>Total Weight:</b>
NEAS	HALL BEACH/ VALLEYFIELD/ CHAMBLY		1	1400 LBS

QTY Order	Type	Line Weight	Item	Description	WO or PO	B/Code or S/N	Remarks
1	PALLET	1400 LBS	2002351	WASTE - ACTIVATED CARBON FILTE	PALLET # 10		ASSET 354089,352360,352505,355615 46" X 46" X 41"

**NOTE: All claims related to this shipment have to be filled with Raytheon within 45 hours of receipt.**

Received By:	Date
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Received By:	Date
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# SHIPPING MANIFEST

Suite 3000, 400 Cooper Street, Ottawa, ON K2P 2H8

**NON NEGOTIABLE**

Filled By: <b>RDUBEAU</b>	Date: <b>Aug 10, 2020, 6:03 PM</b>	Project ID:	Task ID: <b>TCN-42051</b>
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Ship To: QIKIQTAAALUK ENVIRONMENTAL (QE) C/O VEOLIA 2630, BOUL. INDUSTRIEL CHAMBLY, QC, J3L 4V2 1-866-634-6367	From: LSS-F/FOX-M, HALL BEACH, DND Storeroom Raytheon Canada Limited, LSS Hall Beach: P.O. Box 46 Hall Beach, NU, X0A 0K0 867-928-8987	Priority: <b>12</b>
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Attention:		Attention:	
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Carrier: NEAS	Routing: HALL BEACH/ VALLEYFIELD/ CHAMBLY	Waybill #:	Total Pcs. 1	Total Weight: 1700 LBS
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QTY Order	Type	Line Weight	Item	Description	WO or PO	B/Code or S/N	Remarks
1	PALLET	1700 LBS	2002406	WASTE - OIL, 45 GAL	PALLET # 11		ASSETS 352352,345522,355616,355617 48"X 40" X 43

**NOTE: All claims related to this shipment have to be filled with Raytheon within 45 hours of receipt.**

Received By:	Date
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Received By:	Date
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## SHIPPING MANIFEST

Suite 3000, 400 Cooper Street, Ottawa, ON K2P 2H8

**NON NEGOTIABLE**

Filled By: <b>RDUBEAU</b>	Date: <b>Aug 10, 2020, 6:17 PM</b>	Project ID:	Task ID: <b>TCN-42053</b>
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Ship To: QIKIQTAAALUK ENVIRONMENTAL (QE) C/O VEOLIA 2630, BOUL. INDUSTRIEL CHAMBLY, QC, J3L 4V2 1-866-634-6367	From: LSS-F/FOX-M, HALL BEACH, DND Storeroom Raytheon Canada Limited, LSS Hall Beach: P.O. Box 46 Hall Beach, NU, X0A 0K0 867-928-8987	Priority <b>12</b>
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Attention:		Attention:	
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<b>Carrier:</b>	<b>Routing:</b>	<b>Waybill #:</b>	<b>Total Pcs.</b>	<b>Total Weight:</b>
NEAS	HALL BEACH/VALLEYFIELD		1	1750 LBS

QTY Order	Type	Line Weight	Item	Description	WO or PO	B/Code or S/N	Remarks
1	PALLET	1750 LBS	2002406	WASTE - OIL, 45 GAL	PALLET # 13		ASSETS 339424,334867,352375,351999 48" X 48" X 43"

**NOTE: All claims related to this shipment have to be filled with Raytheon within 45 hours of receipt.**

Received By:	Date
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Received By:	Date
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## SHIPPING MANIFEST

Suite 3000, 400 Cooper Street, Ottawa, ON K2P 2H8

**NON NEGOTIABLE**

Filled By: <b>RDUBEAU</b>	Date: <b>Aug 11, 2020, 10:52 AM</b>	Project ID:	Task ID: <b>TCN-42057</b>
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Ship To: QIKIQTAAALUK ENVIRONMENTAL (QE) C/O VEOLIA 2630, BOUL. INDUSTRIEL CHAMBLY, QC, J3L 4V2 1-866-634-6367	From: LSS-F/FOX-M, HALL BEACH, DND Storeroom Raytheon Canada Limited, LSS Hall Beach: P.O. Box 46 Hall Beach, NU, X0A 0K0 867-928-8987	Priority <b>12</b>
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Attention:		Attention:	
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Carrier:	Routing:	Waybill #:	Total Pcs.	Total Weight:
NEAS	HALL BEACH/VALLEYFIELD/CHAMBLY		1	1600 LBS

QTY Order	Type	Line Weight	Item	Description	WO or PO	B/Code or S/N	Remarks
1	PALLET	1600 LBS	2002406	WASTE - OIL, 45 GAL	PALLET # 14		ASSETS 352514,352035,352935,3556635 48" X 48" X 31"

**NOTE: All claims related to this shipment have to be filled with Raytheon within 45 hours of receipt.**

Received By:	Date
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Received By:	Date
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# SHIPPING MANIFEST

Suite 3000, 400 Cooper Street, Ottawa, ON K2P 2H8

**NON NEGOTIABLE**

Filled By: <b>RDUBEAU</b>	Date: <b>Aug 11, 2020, 10:59 AM</b>	Project ID:	Task ID: <b>TCN-42058</b>
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Ship To: QIKIQTAAALUK ENVIRONMENTAL (QE) C/O VEOLIA 2630, BOUL. INDUSTRIEL CHAMBLY, QC, J3L 4V2 1-866-634-6367	From: LSS-F/FOX-M, HALL BEACH, DND Storeroom Raytheon Canada Limited, LSS Hall Beach: P.O. Box 46 Hall Beach, NU, X0A 0K0 867-928-8987	Priority <b>12</b>
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Attention:		Attention:	
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Carrier:	Routing:	Waybill #:	Total Pcs.	Total Weight:
NEAS	HALL BEACH/VALLEYFIELD/CHAMBLY	TM10522	1	771 Kg

QTY Order	Type	Line Weight	Item	Description	WO or PO	B/Code or S/N	Remarks
1	PALLET	771 KG	2002406	WASTE - OIL, 45 GAL	PALLET # 15		ASSETS 355088,354034,352926,354030 48"X 48" X 41"

**NOTE: All claims related to this shipment have to be filled with Raytheon within 45 hours of receipt.**

Received By:	Date
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Received By:	Date
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# SHIPPING MANIFEST

Suite 3000, 400 Cooper Street, Ottawa, ON K2P 2H8

**NON NEGOTIABLE**

Filled By: <b>RDUBEAU</b>	Date: <b>Aug 11, 2020, 11:08 AM</b>	Project ID:	Task ID: <b>TCN-42059</b>
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Ship To: QIKIQTAAALUK ENVIRONMENTAL (QE) C/O VEOLIA 2630, BOUL. INDUSTRIEL CHAMBLY, QC, J3L 4V2 1-866-634-6367	From: LSS-F/FOX-M, HALL BEACH, DND Storeroom Raytheon Canada Limited, LSS Hall Beach: P.O. Box 46 Hall Beach, NU, X0A 0K0 867-928-8987	Priority <b>12</b>
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Attention:		Attention:	
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Carrier:	Routing:	Waybill #:	Total Pcs.	Total Weight:
NEAS	HALL BEACH/VALLEYFIELD/CHAMBLY		1	800 LBS

QTY Order	Type	Line Weight	Item	Description	WO or PO	B/Code or S/N	Remarks
1	PALLET	800 LBS	2002406	WASTE - OIL, 45 GAL	PALLET # 16		ASSET 352037,355636 48" X 40" X 44"

**NOTE: All claims related to this shipment have to be filled with Raytheon within 45 hours of receipt.**

Received By:	Date
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Received By:	Date
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## SHIPPING MANIFEST

Suite 3000, 400 Cooper Street, Ottawa, ON K2P 2H8

**NON NEGOTIABLE**

Filled By: <b>RDUBEAU</b>	Date: <b>Aug 11, 2020, 11:21 AM</b>	Project ID:	Task ID: <b>TCN-42060</b>
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Ship To: QIKIQTAAALUK ENVIRONMENTAL (QE) C/O VEOLIA 2630, BOUL. INDUSTRIEL CHAMBLY, QC, J3L 4V2 1-866-634-6367	From: LSS-F/FOX-M, HALL BEACH, DND Storeroom Raytheon Canada Limited, LSS Hall Beach: P.O. Box 46 Hall Beach, NU, X0A 0K0 867-928-8987	Priority <b>12</b>
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Attention:		Attention:	
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Carrier:	Routing:	Waybill #:	Total Pcs.	Total Weight:
NEAS	HALLBEACH/VALLEYFIELD/CHAMBLY		1	1900 LBS

QTY Order	Type	Line Weight	Item	Description	WO or PO	B/Code or S/N	Remarks
1	PALLET	1900 LBS	2002406	WASTE - OIL, 45 GAL	PALLET # 17		ASSETS 349164,344582,355637,355639 48" X 48" X 41"

**NOTE: All claims related to this shipment have to be filled with Raytheon within 45 hours of receipt.**

Received By:	Date
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Received By:	Date
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## SHIPPING MANIFEST

Suite 3000, 400 Cooper Street, Ottawa, ON K2P 2H8

**NON NEGOTIABLE**

Filled By: <b>RDUBEAU</b>	Date: <b>Aug 11, 2020, 1:07 PM</b>	Project ID:	Task ID: <b>TCN-42062</b>
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Ship To: QIKIQTAAALUK ENVIRONMENTAL (QE) C/O VEOLIA 2630, BOUL. INDUSTRIEL CHAMBLY, QC, J3L 4V2 1-866-634-6367	From: LSS-F/FOX-M, HALL BEACH, DND Storeroom Raytheon Canada Limited, LSS Hall Beach: P.O. Box 46 Hall Beach, NU, X0A 0K0 867-928-8987	Priority <b>12</b>
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Attention:		Attention:	
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Carrier:	Routing:	Waybill #:	Total Pcs.	Total Weight:
NEAS	HALL BEACH/VALLEYFIELD/CHAMBLY		1	700 LBS

QTY Order	Type	Line Weight	Item	Description	WO or PO	B/Code or S/N	Remarks
0	1	700 LBS	2002344	WASTE - GLYCOL (DRUM)	PALLET # 30		ASSETS 347766,339894 48"X 40" X 41"

**NOTE: All claims related to this shipment have to be filled with Raytheon within 45 hours of receipt.**

Received By:	Date
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Received By:	Date
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# SHIPPING MANIFEST

Suite 3000, 400 Cooper Street, Ottawa, ON K2P 2H8

**NON NEGOTIABLE**

Filled By: <b>RDUBEAU</b>	Date: <b>Aug 11, 2020, 1:11 PM</b>	Project ID:	Task ID: <b>TCN-42063</b>
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Ship To: QIKIQTAAALUK ENVIRONMENTAL (QE) C/O VEOLIA 2630, BOUL. INDUSTRIEL CHAMBLY, QC, J3L 4V2 1-866-634-6367	From: LSS-F/FOX-M, HALL BEACH, DND Storeroom Raytheon Canada Limited, LSS Hall Beach: P.O. Box 46 Hall Beach, NU, X0A 0K0 867-928-8987	Priority <b>12</b>
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Attention:		Attention:	
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Carrier:	Routing:	Waybill #:	Total Pcs.	Total Weight:
NEAS	HALL BEACH/VALLEYFIELD/CHAMBLY		1	1400 LBS

QTY Order	Type	Line Weight	Item	Description	WO or PO	B/Code or S/N	Remarks
1	PALLET	1400 LBS	2002406	WASTE - OIL, 45 GAL	PALLET # 39		ASSETS 352822,339438,355661 48" X 48" X 41"

**NOTE: All claims related to this shipment have to be filled with Raytheon within 45 hours of receipt.**

Received By:	Date
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Received By:	Date
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# SHIPPING MANIFEST

Suite 3000, 400 Cooper Street, Ottawa, ON K2P 2H8

**NON NEGOTIABLE**

Filled By: <b>RDUBEAU</b>	Date: <b>Aug 11, 2020, 1:15 PM</b>	Project ID:	Task ID: <b>TCN-42064</b>
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Ship To: QIKIQTAAALUK ENVIRONMENTAL (QE) C/O VEOLIA 2630, BOUL. INDUSTRIEL CHAMBLY, QC, J3L 4V2 1-866-634-6367	From: LSS-F/FOX-M, HALL BEACH, DND Storeroom Raytheon Canada Limited, LSS Hall Beach: P.O. Box 46 Hall Beach, NU, X0A 0K0 867-928-8987	Priority <b>12</b>
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Attention:		Attention:	
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Carrier:	Routing:	Waybill #:	Total Pcs.	Total Weight:
NEAS	HALL BEACH/VALLEYFIELD/CHAMBLY		1	950 LBS

QTY Order	Type	Line Weight	Item	Description	WO or PO	B/Code or S/N	Remarks
1	PALLET	950 LBS	2002406	WASTE - OIL, 45 GAL	PALLET # 40		ASSETS 331754,355645 48" X 40" X 41"

**NOTE: All claims related to this shipment have to be filled with Raytheon within 45 hours of receipt.**

Received By:	Date
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Received By:	Date
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## SHIPPING MANIFEST

Suite 3000, 400 Cooper Street, Ottawa, ON K2P 2H8

**NON NEGOTIABLE**

Filled By: <b>RDUBEAU</b>	Date: <b>Aug 11, 2020, 4:53 PM</b>	Project ID:	Task ID: <b>TCN-42070</b>
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Ship To: QIKIQTAAALUK ENVIRONMENTAL (QE) C/O VEOLIA 2630, BOUL. INDUSTRIEL CHAMBLY, QC, J3L 4V2 1-866-634-6367	From: LSS-F/FOX-M, HALL BEACH, DND Storeroom Raytheon Canada Limited, LSS Hall Beach: P.O. Box 46 Hall Beach, NU, X0A 0K0 867-928-8987	Priority <b>12</b>
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Attention:		Attention:	
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Carrier:	Routing:	Waybill #:	Total Pcs.	Total Weight:
NEAS	HALL BEACH/VALLEYFIELD/CHAMBLY		1	700 LBS

QTY Order	Type	Line Weight	Item	Description	WO or PO	B/Code or S/N	Remarks
1	PALLET	700 LBS	2002356	WASTE - OIL FILTERS	PALLET # 26		ASSETS 350552,322865,344585,347298 (NON-REG) 56" X 56" X 46"

**NOTE: All claims related to this shipment have to be filled with Raytheon within 45 hours of receipt.**

Received By:	Date
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Received By:	Date
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# SHIPPING MANIFEST

Suite 3000, 400 Cooper Street, Ottawa, ON K2P 2H8

**NON NEGOTIABLE**

Filled By: <b>RDUBEAU</b>	Date: <b>Aug 12, 2020, 4:56 PM</b>	Project ID:	Task ID: <b>TCN-42089</b>
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Ship To: QIKIQTAAALUK ENVIRONMENTAL (QE) C/O VEOLIA 2630, BOUL. INDUSTRIEL CHAMBLY, QC, J3L 4V2 1-866-634-6367	From: LSS-F/FOX-M, HALL BEACH, DND Storeroom Raytheon Canada Limited, LSS Hall Beach: P.O. Box 46 Hall Beach, NU, X0A 0K0 867-928-8987	Priority <b>12</b>
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Attention:		Attention:	
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Carrier:	Routing:	Waybill #:	Total Pcs.	Total Weight:
NEAS	HALL BEACH/VALLEYFIELD/CHAMBLY	TM10546	1	181 KG

QTY Order	Type	Line Weight	Item	Description	WO or PO	B/Code or S/N	Remarks
1	PALLET	181 kg	4004961	WASTE - Asbestos Containing Ma	PALLET # 18		ASSETS 353220,353223,353218,353224 56"X 56" X 45"

**NOTE: All claims related to this shipment have to be filled with Raytheon within 45 hours of receipt.**

Received By:	Date
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Received By:	Date
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# SHIPPING MANIFEST

Suite 3000, 400 Cooper Street, Ottawa, ON K2P 2H8

**NON NEGOTIABLE**

Filled By: <b>RDUBEAU</b>	Date: <b>Aug 12, 2020, 5:01 PM</b>	Project ID:	Task ID: <b>TCN-42090</b>
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Ship To: QIKIQTAAALUK ENVIRONMENTAL (QE) C/O VEOLIA 2630, BOUL. INDUSTRIEL CHAMBLY, QC, J3L 4V2 1-866-634-6367	From: LSS-F/FOX-M, HALL BEACH, DND Storeroom Raytheon Canada Limited, LSS Hall Beach: P.O. Box 46 Hall Beach, NU, X0A 0K0 867-928-8987	Priority <b>12</b>
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Attention:		Attention:	
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<b>Carrier:</b>	<b>Routing:</b>	<b>Waybill #:</b>	<b>Total Pcs.</b>	<b>Total Weight:</b>
NEAS	HALL BEACH/VALLEYFILKED/ CHAMBLY	TM10546	1	181 kg

QTY Order	Type	Line Weight	Item	Description	WO or PO	B/Code or S/N	Remarks
1	PALLET	181 kg	4004961	WASTE - Asbestos Containing Ma	PALLET # 19		ASSETS 353221,353217,345888,353216 56" X 56" X 45"

**NOTE: All claims related to this shipment have to be filled with Raytheon within 45 hours of receipt.**

Received By:	Date
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Received By:	Date
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# SHIPPING MANIFEST

Suite 3000, 400 Cooper Street, Ottawa, ON K2P 2H8

**NON NEGOTIABLE**

Filled By: <b>RDUBEAU</b>	Date: <b>Aug 12, 2020, 5:05 PM</b>	Project ID:	Task ID: <b>TCN-42091</b>
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Ship To: QIKIQTAAALUK ENVIRONMENTAL (QE) C/O VEOLIA 2630, BOUL. INDUSTRIEL CHAMBLY, QC, J3L 4V2 1-866-634-6367	From: LSS-F/FOX-M, HALL BEACH, DND Storeroom Raytheon Canada Limited, LSS Hall Beach: P.O. Box 46 Hall Beach, NU, X0A 0K0 867-928-8987	Priority <b>12</b>
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Attention:		Attention:	
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Carrier:	Routing:	Waybill #:	Total Pcs.	Total Weight:
NEAS	HALL BEACH/VALLEYFIELD/CHAMBLY	TM10546	1	181 KG

QTY Order	Type	Line Weight	Item	Description	WO or PO	B/Code or S/N	Remarks
1	PALLET	181 KG	4004961	WASTE - Asbestos Containing Ma	PALLET # 20		ASSETS 353222,353225,353219,353226 56" X 56" X 45"

**NOTE: All claims related to this shipment have to be filled with Raytheon within 45 hours of receipt.**

Received By:	Date
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Received By:	Date
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# SHIPPING MANIFEST

Suite 3000, 400 Cooper Street, Ottawa, ON K2P 2H8

**NON NEGOTIABLE**

Filled By: <b>RDUBEAU</b>	Date: <b>Aug 12, 2020, 5:09 PM</b>	Project ID:	Task ID: <b>TCN-42093</b>
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Ship To: QIKIQTAAALUK ENVIRONMENTAL (QE) C/O VEOLIA 2630, BOUL. INDUSTRIEL CHAMBLY, QC, J3L 4V2 1-866-634-6367	From: LSS-F/FOX-M, HALL BEACH, DND Storeroom Raytheon Canada Limited, LSS Hall Beach: P.O. Box 46 Hall Beach, NU, X0A 0K0 867-928-8987	Priority <b>12</b>
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Attention:		Attention:	
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Carrier:	Routing:	Waybill #:	Total Pcs.	Total Weight:
NEAS	HALL BEACH/VALLEYFIELD/CHAMBLY	TM10546	1	181 kg

QTY Order	Type	Line Weight	Item	Description	WO or PO	B/Code or S/N	Remarks
1	PALLET	181 kg	4004961	WASTE - Asbestos Containing Ma	PALLET # 21		ASSETS 353215,353213,353214,353212 56" X 56" X 45"

**NOTE: All claims related to this shipment have to be filled with Raytheon within 45 hours of receipt.**

Received By:	Date
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Received By:	Date
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# SHIPPING MANIFEST

Suite 3000, 400 Cooper Street, Ottawa, ON K2P 2H8

**NON NEGOTIABLE**

Filled By: <b>RDUBEAU</b>	Date: <b>Aug 20, 2020, 6:27 PM</b>	Project ID:	Task ID: <b>TCN-42204</b>
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Ship To: QIKIQTAAALUK ENVIRONMENTAL (QE) C/O VEOLIA 2630, BOUL. INDUSTRIEL CHAMBLY, QC, J3L 4V2 1-866-634-6367	From: LSS-F/FOX-M, HALL BEACH, DND Storeroom Raytheon Canada Limited, LSS Hall Beach: P.O. Box 46 Hall Beach, NU, X0A 0K0 867-928-8987	Priority <b>12</b>
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Attention:		Attention:	
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<b>Carrier:</b>	<b>Routing:</b>	<b>Waybill #:</b>	<b>Total Pcs.</b>	<b>Total Weight:</b>
NEAS	HALL B EACH/VALLEYFIELD/ CHAMBLY	TM10546	1	68 KG

QTY Order	Type	Line Weight	Item	Description	WO or PO	B/Code or S/N	Remarks
1	QUATRI 68 KG BAG	4004961	WASTE - Asbestos Containing Ma		PALLET # 41		ASSET 355787 48" X 40" X 42 (NON-REG)

**NOTE: All claims related to this shipment have to be filled with Raytheon within 45 hours of receipt.**

Received By:	Date
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Received By:	Date
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UNCLASSIFIED

SOW Ref: 16.F.5.d

## ANNEX B. TREATED SEWAGE EFFLUENT OUTFALL (FOH-2) LOCATION WITH COORDINATES



Figure 1: Location and coordinates of sewage treatment outfall: 68° 45'39.50" N, 81°13'28.40" W

UNCONTROLLED WHEN PRINTED



UNCLASSIFIED

SOW Ref: 16.F.5.d

**ANNEX C. ANALYSIS OF TREATED SEWAGE EFFLUENT**

Table C-1 contains the results of sampling analysis of treated sewage effluent. Samples were collected monthly. The sample collected 5 May 2020 was not analyzed as it was delayed in transit and did not reach the laboratory until 9 July 2020. The laboratory certificates of analysis are included in the pages which follow.

**Table C-2: Summary of Analysis of Treated Sewage Effluent at FOX-M in 2020**

Sample Date	Parameter				
	pH	Oil and Grease (Present - P / Absent - A)	Biological Oxygen Demand (mg/L)	Total Suspended Solids (mg/L)	Faecal Coliforms <sup>1</sup>
Maximum Concentration	6.0 to 9.0 (pH units)	No visible sheen	120 mg/L	180 mg/L	10,000 CFU/100 mL
6-Jan-20	7.26	A	1	<2	0.00
19-Feb-20	7.52	A	4	<2	2.00
3-Mar-20	7.26	A	4	<2	98.67
16-Apr-20	7.73	A	1	3	0.00
5-May-20	Not Analyzed				
9-Jun-20	8.00	A	2	<2	6.00
8-Jul-20	6.04	A	3	<2	24.33
13-Aug-20	6.82	A	<1	<2	352.67
15-Sep-20	6.65	A	10	<2	161.67
21-Oct-20	6.85	A	3	<2	12.00
6-Nov-20	6.97	A	3	3	1.67
3-Dec-20	6.90	A	20	<2	112.00

The following documents are enclosed:

1. Eurofins Certificate of Analysis 6-Jan-20
2. Eurofins Certificate of Analysis 19-Feb-20
3. Eurofins Certificate of Analysis 3-Mar-20
4. Eurofins Certificate of Analysis 16-Apr-20
5. Eurofins Certificate of Analysis 9-Jun-20
6. Eurofins Certificate of Analysis 8-Jul-20
7. Eurofins Certificate of Analysis 13-Aug-20
8. Eurofins Certificate of Analysis 15-Sep-20
9. Eurofins Certificate of Analysis 21-Oct-20
10. Eurofins Certificate of Analysis 6-Nov-20
11. Eurofins Certificate of Analysis 3-Dec-20

<sup>1</sup> This column contains the average of the Cyclet 1A, Cyclet 1B, and Cyclet 1C

**UNCONTROLLED WHEN PRINTED**

Client: Raytheon Canada Limited Ottawa  
400 Cooper St.  
Ottawa, ON  
K2P 2H8  
Attention: Mr. Will Wyman  
PO#: 004438-OT  
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1925335  
Date Submitted: 2020-02-11  
Date Reported: 2020-02-13  
Project:  
COC #: 207962

Page 1 of 3

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**Dear Will Wyman:**

**Please find attached the analytical results for your samples. If you have any questions regarding this report, please do not hesitate to call (613-727-5692).**

Report Comments:



Rebecca Koshy  
2020.03.10  
08:53:25 -04'00'

APPROVAL:

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Rebecca Koshy, Project Manager

All analysis is completed at Eurofins Environment Testing Canada Inc. (Ottawa, Ontario) unless otherwise indicated.

Eurofins Environment Testing Canada Inc. (Ottawa, Ontario) is accredited by CALA, Canadian Association for Laboratory Accreditation to ISO/IEC 17025 for tests which appear on the scope of accreditation. The scope is available at: <http://www.cala.ca/scopes/2602.pdf>.

Eurofins Environment Testing Canada Inc. (Ottawa, Ontario) is licensed by the Ontario Ministry of the Environment, Conservation, and Parks (MECP) for specific tests in drinking water (license #2318). A copy of the license is available upon request.

Eurofins Environment Testing Canada Inc. (Ottawa, Ontario) is accredited by the Ontario Ministry of Agriculture, Food, and Rural Affairs for specific tests in agricultural soils.

Please note: Field data, where presented on the report, has been provided by the client and is presented for informational purposes only. Guideline values listed on this report are provided for ease of use (informational purposes) only. Eurofins recommends consulting the official provincial or federal guideline as required. Unless otherwise stated, measurement uncertainty is not taken into account when determining guideline or regulatory exceedances.

## Certificate of Analysis

Client: Raytheon Canada Limited Ottawa  
400 Cooper St.  
Ottawa, ON  
K2P 2H8  
Attention: Mr. Will Wyman  
PO#: 004438-OT  
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1925335  
Date Submitted: 2020-02-11  
Date Reported: 2020-02-13  
Project:  
COC #: 207962

Group	Analyte	MRL	Units	Guideline	Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.	1479155 Sewage  2020-01-06 Fox-Main Cycle-Let - A	1479156 Sewage  2020-01-06 Fox-Main Cycle-Let - B	1479157 Sewage  2020-01-06 Fox-Main Cycle-Let - C
Microbiology	Faecal Coliforms	0	ct/100mL			0	0	0

**Guideline =**                      **\* = Guideline Exceedence**

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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

## Certificate of Analysis

Client: Raytheon Canada Limited Ottawa  
400 Cooper St.  
Ottawa, ON  
K2P 2H8  
Attention: Mr. Will Wyman  
PO#: 004438-OT  
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1925335  
Date Submitted: 2020-02-11  
Date Reported: 2020-02-13  
Project:  
COC #: 207962

### QC Summary

Analyte	Blank	QC % Rec	QC Limits
<b>Run No</b> 379478 <b>Analysis/Extraction Date</b> 2020-02-12 <b>Analyst</b> DRA <b>Method</b> AMBCOLM1			
Faecal Coliforms			

**Guideline =**                      \* = **Guideline Exceedence**

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Client: Raytheon Canada Limited Ottawa  
400 Cooper St.  
Ottawa, ON  
K2P 2H8  
Attention: Mr. Will Wyman  
PO#: 004438-OT  
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1925360  
Date Submitted: 2020-02-11  
Date Reported: 2020-02-18  
Project:  
COC #: 207962

Page 1 of 3

---

**Dear Will Wyman:**

**Please find attached the analytical results for your samples. If you have any questions regarding this report, please do not hesitate to call (613-727-5692).**

Report Comments:



Addrine  
Thomas  
2020.02.18  
14:11:47 -05'00'

APPROVAL:

---

Addrine Thomas, Inorganics Supervisor

All analysis is completed at Eurofins Environment Testing Canada Inc. (Ottawa, Ontario) unless otherwise indicated.

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## Certificate of Analysis

Client: Raytheon Canada Limited Ottawa  
400 Cooper St.  
Ottawa, ON  
K2P 2H8  
Attention: Mr. Will Wyman  
PO#: 004438-OT  
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1925360  
Date Submitted: 2020-02-11  
Date Reported: 2020-02-18  
Project:  
COC #: 207962

					Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.
					1479258 Sewage  2020-01-06 FOX-MAIN-Cycle-Let
Group	Analyte	MRL	Units	Guideline	
General Chemistry	BOD5	1	mg/L		1
	pH	1.00			7.26
	Total Suspended Solids	2	mg/L		<2
Oil and Grease	Oil & Grease - Mineral	1	mg/L		<1
	Oil & Grease - Non-mineral	1	mg/L		<1
	Oil & Grease - Total	1	mg/L		<1
	Visible Sheen		P/A		A

**Guideline =**                      **\* = Guideline Exceedence**

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# Certificate of Analysis

Client: Raytheon Canada Limited Ottawa  
400 Cooper St.  
Ottawa, ON  
K2P 2H8  
Attention: Mr. Will Wyman  
PO#: 004438-OT  
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1925360  
Date Submitted: 2020-02-11  
Date Reported: 2020-02-18  
Project:  
COC #: 207962

## QC Summary

Analyte	Blank	QC % Rec	QC Limits
<b>Run No</b> 208523 <b>Analysis/Extraction Date</b> 2020-02-12 <b>Analyst</b> C M <b>Method</b> SHEEN			
Visible Sheen			
<b>Run No</b> 379582 <b>Analysis/Extraction Date</b> 2020-02-13 <b>Analyst</b> AET <b>Method</b> SM2320,2510,4500H/F			
pH		99	90-110
<b>Run No</b> 379593 <b>Analysis/Extraction Date</b> 2020-02-18 <b>Analyst</b> Z S <b>Method</b> SM 5210B			
BOD5	<1 mg/L	100	75-125
<b>Run No</b> 379628 <b>Analysis/Extraction Date</b> 2020-02-13 <b>Analyst</b> SKH <b>Method</b> C SM2540			
Total Suspended Solids	<2 mg/L	98	90-110
<b>Run No</b> 379657 <b>Analysis/Extraction Date</b> 2020-02-14 <b>Analyst</b> TJB <b>Method</b> MOE E3421			
Oil & Grease - Mineral	<1 mg/L	89	60-120
Oil & Grease - Non-mineral	<1 mg/L		60-120
Oil & Grease - Total	<1 mg/L	90	60-120

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Certificate of Analysis

Client: Raytheon Canada Limited Ottawa  
400 Cooper St.  
Ottawa, ON  
K2P 2H8  
Attention: Mr. Will Wyman  
PO#: 004438-OT  
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1926735  
Date Submitted: 2020-03-06  
Date Reported: 2020-03-09  
Project:  
COC #: 207963

Page 1 of 2

Dear Will Wyman:

Please find attached the analytical results for your samples. If you have any questions regarding this report, please do not hesitate to call (613-727-5692).

Report Comments:

APPROVAL:

Dragana  
Dzeletovic  
*Dragana Dzeletovic*  
2020.03.09  
09:32:59  
-04'00'  
\_\_\_\_\_  
Dragana Dzeletovic-Andic, Microbiology

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## Environment Testing

### Certificate of Analysis

Client: Raytheon Canada Limited Ottawa  
400 Cooper St.  
Ottawa, ON  
K2P 2H8  
Attention: Mr. Will Wyman  
PO#: 004438-OT  
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1926735  
Date Submitted: 2020-03-06  
Date Reported: 2020-03-09  
Project:  
COC #: 207963

					Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.	1483585 Sewage  2020-02-19 Fox-Main CYCLE-LET A	1483586 Sewage  2020-02-19 Fox-Main CYCLE-LET B	1483587 Sewage  2020-02-19 Fox-Main CYCLE-LET C
Group	Analyte	MRL	Units	Guideline				
Microbiology	Faecal Coliforms	0	ct/100mL			1	1	4

**Guideline =**                      \* = **Guideline Exceedence**

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**Analytical Method: AMBCOLM1**

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

Certificate of Analysis

Client: Raytheon Canada Limited Ottawa  
400 Cooper St.  
Ottawa, ON  
K2P 2H8  
Attention: Mr. Will Wyman  
PO#: 004438-OT  
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1926733  
Date Submitted: 2020-03-06  
Date Reported: 2020-03-16  
Project:  
COC #: 207963


Page 1 of 3

---

**Dear Will Wyman:**

**Please find attached the analytical results for your samples. If you have any questions regarding this report, please do not hesitate to call (613-727-5692).**


Report Comments:

Sarah  
Horner  
  
2020.03.1  
6 15:17:49  
-04'00'

APPROVAL:

---

Sarah Horner, Inorganics Technician

Charlie  
Long Qu  
  
2020.03.1  
6 14:46:29  
-04'00'

APPROVAL:

---

Long Qu, Organics Supervisor

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# Certificate of Analysis

Client: Raytheon Canada Limited Ottawa  
400 Cooper St.  
Ottawa, ON  
K2P 2H8  
Attention: Mr. Will Wyman  
PO#: 004438-OT  
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1926733  
Date Submitted: 2020-03-06  
Date Reported: 2020-03-16  
Project:  
COC #: 207963

					Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.
Group	Analyte	MRL	Units	Guideline	1483583 Sewage  2020-02-19 Fox-Main CYCLE-LET
General Chemistry	BOD5	1	mg/L		4
	pH	1.00			7.52
	Total Suspended Solids	2	mg/L		<2
Oil and Grease	Oil & Grease - Mineral	1	mg/L		<1
	Oil & Grease - Non-mineral	1	mg/L		<1
	Oil & Grease - Total	1	mg/L		<1
	Visible Sheen		P/A		A

**Guideline =**                      **\* = Guideline Exceedence**

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Methods references and/or additional QA/QC information available on request.

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Client: Raytheon Canada Limited Ottawa  
400 Cooper St.  
Ottawa, ON  
K2P 2H8  
Attention: Mr. Will Wyman  
PO#: 004438-OT  
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1926733  
Date Submitted: 2020-03-06  
Date Reported: 2020-03-16  
Project:  
COC #: 207963

**QC Summary**

Analyte	Blank	QC % Rec	QC Limits
<b>Run No</b> 380590 <b>Analysis/Extraction Date</b> 2020-03-16 <b>Analyst</b> Z S <b>Method</b> SM 5210B			
BOD5	<1 mg/L	115	75-125
<b>Run No</b> 380601 <b>Analysis/Extraction Date</b> 2020-03-11 <b>Analyst</b> TJB <b>Method</b> MOE E3421			
Oil & Grease - Mineral	<1 mg/L	95	60-120
Oil & Grease - Non-mineral	<1 mg/L		60-120
Oil & Grease - Total	<1 mg/L	95	60-120
Visible Sheen			
<b>Run No</b> 380627 <b>Analysis/Extraction Date</b> 2020-03-11 <b>Analyst</b> SKH <b>Method</b> C SM2540			
Total Suspended Solids	<2 mg/L	97	90-110
<b>Run No</b> 380689 <b>Analysis/Extraction Date</b> 2020-03-11 <b>Analyst</b> H D <b>Method</b> SM2320,2510,4500H/F			
pH		100	90-110

**Guideline =**      \* = **Guideline Exceedence**

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Client: Raytheon Canada Limited Ottawa  
400 Cooper St.  
Ottawa, ON  
K2P 2H8  
Attention: Mr. Will Wyman  
PO#: 004438-OT  
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1926960  
Date Submitted: 2020-03-11  
Date Reported: 2020-03-12  
Project:  
COC #: 207954

Page 1 of 2

---

**Dear Will Wyman:**

**Please find attached the analytical results for your samples. If you have any questions regarding this report, please do not hesitate to call (613-727-5692).**

Report Comments:

Steven  
Tosh  
2020.03.12  
17:18:34  
-04'00'

APPROVAL:

---

Steven Tosh, Operations Manager

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## Certificate of Analysis

Client: Raytheon Canada Limited Ottawa  
400 Cooper St.  
Ottawa, ON  
K2P 2H8  
Attention: Mr. Will Wyman  
PO#: 004438-OT  
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1926960  
Date Submitted: 2020-03-11  
Date Reported: 2020-03-12  
Project:  
COC #: 207954

Group	Analyte	MRL	Units	Guideline	Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.	1484439 Sewage  2020-03-03 Fox-Main Cycle-Let 1 A	1484440 Sewage  2020-03-03 Fox-Main Cycle-Let 1 B	1484441 Sewage  2020-03-03 Fox-Main Cycle-Let 1 C
Microbiology	Faecal Coliforms	0	ct/100mL			91	132	73

Guideline = \* = Guideline Exceedence

Results relate only to the parameters tested on the samples submitted.

**Analytical Method: AMBCOLM1**

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



Client: Raytheon Canada Limited Ottawa  
400 Cooper St.  
Ottawa, ON  
K2P 2H8  
Attention: Mr. Will Wyman  
PO#: 004438-OT  
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1926955  
Date Submitted: 2020-03-11  
Date Reported: 2020-03-19  
Project:  
COC #: 207954

Page 1 of 3

---

**Dear Will Wyman:**

**Please find attached the analytical results for your samples. If you have any questions regarding this report, please do not hesitate to call (613-727-5692).**

Report Comments:



Addrine Thomas  
2020.03.19  
13:55:46 -04'00'

APPROVAL:

---

Addrine Thomas, Inorganics Supervisor

Charlie  
Long Qu  
2020.03.1  
9 11:51:20  
-04'00'

APPROVAL:

---

Long Qu, Organics Supervisor

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## Certificate of Analysis

Client: Raytheon Canada Limited Ottawa  
400 Cooper St.  
Ottawa, ON  
K2P 2H8  
Attention: Mr. Will Wyman  
PO#: 004438-OT  
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1926955  
Date Submitted: 2020-03-11  
Date Reported: 2020-03-19  
Project:  
COC #: 207954

					Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.
					1484431 Sewage  2020-03-03 Fox-Main Cycle-Let
Group	Analyte	MRL	Units	Guideline	
General Chemistry	BOD5	1	mg/L		4
	pH	1.00			7.26
	Total Suspended Solids	2	mg/L		<2
Oil and Grease	Oil & Grease - Mineral	1	mg/L		<1
	Oil & Grease - Non-mineral	1	mg/L		<1
	Oil & Grease - Total	1	mg/L		<1
	Visible Sheen		P/A		A

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Client: Raytheon Canada Limited Ottawa  
400 Cooper St.  
Ottawa, ON  
K2P 2H8  
Attention: Mr. Will Wyman  
PO#: 004438-OT  
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1926955  
Date Submitted: 2020-03-11  
Date Reported: 2020-03-19  
Project:  
COC #: 207954

**QC Summary**

Analyte	Blank	QC % Rec	QC Limits
<b>Run No</b> 380689 <b>Analysis/Extraction Date</b> 2020-03-13 <b>Analyst</b> H D <b>Method</b> SM2320,2510,4500H/F			
pH		100	90-110
<b>Run No</b> 380714 <b>Analysis/Extraction Date</b> 2020-03-18 <b>Analyst</b> Z S <b>Method</b> SM 5210B			
BOD5	<1 mg/L	101	75-125
<b>Run No</b> 380817 <b>Analysis/Extraction Date</b> 2020-03-16 <b>Analyst</b> TJB <b>Method</b> MOE E3421			
Oil & Grease - Mineral	<1 mg/L	95	60-120
Oil & Grease - Non-mineral	<1 mg/L		60-120
Oil & Grease - Total	<1 mg/L	95	60-120
<b>Run No</b> 380856 <b>Analysis/Extraction Date</b> 2020-03-17 <b>Analyst</b> SKH <b>Method</b> C SM2540			
Total Suspended Solids	<2 mg/L	98	90-110
<b>Run No</b> 380986 <b>Analysis/Extraction Date</b> 2020-03-19 <b>Analyst</b> TJB <b>Method</b> SHEEN			
Visible Sheen			

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Certificate of Analysis

Client: Raytheon Canada Limited Ottawa  
400 Cooper St.  
Ottawa, ON  
K2P 2H8  
Attention: Mr. Will Wyman  
PO#: 004438-OT  
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1928864  
Date Submitted: 2020-04-21  
Date Reported: 2020-04-22  
Project:  
COC #: 207958

Page 1 of 3

Dear Will Wyman:

Please find attached the analytical results for your samples. If you have any questions regarding this report, please do not hesitate to call (613-727-5692).

Report Comments:

Dragana  
Dzeletovic  
*Dragana Dzeletovic*  
2020.04.22  
11:34:10  
-04'00'  
APPROVAL: \_\_\_\_\_  
Dragana Dzeletovic-Andic, Microbiology

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## Certificate of Analysis

Client: Raytheon Canada Limited Ottawa  
400 Cooper St.  
Ottawa, ON  
K2P 2H8  
Attention: Mr. Will Wyman  
PO#: 004438-OT  
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1928864  
Date Submitted: 2020-04-21  
Date Reported: 2020-04-22  
Project:  
COC #: 207958

Group	Analyte	MRL	Units	Guideline	Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.	1489679 Sewage  2020-04-16 Fox-Main Cycle-Let 1A	1489680 Sewage  2020-04-16 Fox-Main Cycle-Let 1B	1489681 Sewage  2020-04-16 Fox-Main Cycle-Let 1C
Microbiology	Faecal Coliforms	0	ct/100mL			0	0	0

Guideline = \* = Guideline Exceedence

Results relate only to the parameters tested on the samples submitted.

**Analytical Method: AMBCOLM1**

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

Certificate of Analysis

Client: Raytheon Canada Limited Ottawa  
400 Cooper St.  
Ottawa, ON  
K2P 2H8  
Attention: Mr. Will Wyman  
PO#: 004438-OT  
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1928864  
Date Submitted: 2020-04-21  
Date Reported: 2020-04-22  
Project:  
COC #: 207958

---

**Sample Comment Summary**

Sample ID: 1489679   Fox-Main Cycle-Let 1A   Deviation from standard protocol. All samples on report past hold time.
--

**Guideline =**                      **\* = Guideline Exceedence**

Results relate only to the parameters tested on the samples submitted.

**Analytical Method: AMBCOLM1**

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

Client: Raytheon Canada Limited Ottawa  
400 Cooper St.  
Ottawa, ON  
K2P 2H8  
Attention: Mr. Will Wyman  
PO#: 004438-OT  
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1928869  
Date Submitted: 2020-04-21  
Date Reported: 2020-04-28  
Project:  
COC #: 207958

Page 1 of 3


---

**Dear Will Wyman:**

**Please find attached the analytical results for your samples. If you have any questions regarding this report, please do not hesitate to call (613-727-5692).**

Report Comments:

APPROVAL:

  
Addrine  
Thomas  
2020.04.28  
13:42:11 -04'00'  
\_\_\_\_\_  
Addrine Thomas, Inorganics Supervisor

All analysis is completed at Eurofins Environment Testing Canada Inc. (Ottawa, Ontario) unless otherwise indicated.

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## Certificate of Analysis

Client: Raytheon Canada Limited Ottawa  
400 Cooper St.  
Ottawa, ON  
K2P 2H8  
Attention: Mr. Will Wyman  
PO#: 004438-OT  
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1928869  
Date Submitted: 2020-04-21  
Date Reported: 2020-04-28  
Project:  
COC #: 207958

					Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.
Group	Analyte	MRL	Units	Guideline	
General Chemistry	BOD5	1	mg/L		1
	pH	1.00			7.73
	Total Suspended Solids	2	mg/L		3
Oil and Grease	Oil & Grease - Mineral	1	mg/L		<1
	Oil & Grease - Non-mineral	1	mg/L		<1
	Oil & Grease - Total	1	mg/L		<1
	Visible Sheen		P/A		A

**Guideline =**                      **\* = Guideline Exceedence**

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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



Client: Raytheon Canada Limited Ottawa  
400 Cooper St.  
Ottawa, ON  
K2P 2H8  
Attention: Mr. Will Wyman  
PO#: 004438-OT  
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1928869  
Date Submitted: 2020-04-21  
Date Reported: 2020-04-28  
Project:  
COC #: 207958

**QC Summary**

Analyte	Blank	QC % Rec	QC Limits
<b>Run No</b> 382294 <b>Analysis/Extraction Date</b> 2020-04-27 <b>Analyst</b> Z S <b>Method</b> SM 5210B			
BOD5	<1 mg/L	85	75-125
<b>Run No</b> 382391 <b>Analysis/Extraction Date</b> 2020-04-24 <b>Analyst</b> AET <b>Method</b> SM2320,2510,4500H/F			
pH		100	90-110
<b>Run No</b> 382434 <b>Analysis/Extraction Date</b> 2020-04-27 <b>Analyst</b> TJB <b>Method</b> SHEEN			
Visible Sheen			
<b>Run No</b> 382435 <b>Analysis/Extraction Date</b> 2020-04-25 <b>Analyst</b> TJB <b>Method</b> MOE E3421			
Oil & Grease - Mineral	<1 mg/L	88	60-120
Oil & Grease - Non-mineral	<1 mg/L		60-120
Oil & Grease - Total	<1 mg/L	95	60-120
<b>Run No</b> 382446 <b>Analysis/Extraction Date</b> 2020-04-27 <b>Analyst</b> SKH <b>Method</b> C SM2540			
Total Suspended Solids	<2 mg/L	98	90-110

**Guideline =**      \* = **Guideline Exceedence**

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Client: Raytheon Canada Limited Ottawa  
400 Cooper St.  
Ottawa, ON  
K2P 2H8  
Attention: Mr. Will Wyman  
PO#: 004438-OT  
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1932475  
Date Submitted: 2020-06-18  
Date Reported: 2020-06-19  
Project:  
COC #: 207976

Page 1 of 3


---

**Dear Will Wyman:**

**Please find attached the analytical results for your samples. If you have any questions regarding this report, please do not hesitate to call (613-727-5692).**

Report Comments:

APPROVAL:

Steven  
Tosh  
  
2020.06.19  
13:54:34  
-04'00'

---

Steven Tosh, Operations Manager

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## Certificate of Analysis

Client: Raytheon Canada Limited Ottawa  
400 Cooper St.  
Ottawa, ON  
K2P 2H8  
Attention: Mr. Will Wyman  
PO#: 004438-OT  
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1932475  
Date Submitted: 2020-06-18  
Date Reported: 2020-06-19  
Project:  
COC #: 207976

Group	Analyte	MRL	Units	Guideline	Lab I.D.	Sample Matrix	Sample Type	Sampling Date	Sample I.D.
					1499720	Sewage		2020-06-09	Fox-Main Cycle-Let A
Microbiology	Faecal Coliforms	0	ct/100mL		1499721	Sewage		2020-06-09	Fox-Main Cycle-Let B
					1499722	Sewage		2020-06-09	Fox-Main Cycle-Let C
					8			7	3

Guideline = \* = Guideline Exceedence

Results relate only to the parameters tested on the samples submitted.

**Analytical Method: AMBCOLM1**

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

Certificate of Analysis

Client: Raytheon Canada Limited Ottawa  
400 Cooper St.  
Ottawa, ON  
K2P 2H8  
Attention: Mr. Will Wyman  
PO#: 004438-OT  
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1932475  
Date Submitted: 2020-06-18  
Date Reported: 2020-06-19  
Project:  
COC #: 207976

---

**Sample Comment Summary**

Sample ID: 1499720 Fox-Main Cycle-Let A Deviation from standard protocol. All samples on report have exceeded the hold time for bacteria analysis.
--

**Guideline =**                      **\* = Guideline Exceedence**

Results relate only to the parameters tested on the samples submitted.

**Analytical Method: AMBCOLM1**

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

Client: Raytheon Canada Limited Ottawa  
400 Cooper St.  
Ottawa, ON  
K2P 2H8  
Attention: Mr. Will Wyman  
PO#: 17-00919  
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1932445  
Date Submitted: 2020-06-18  
Date Reported: 2020-06-24  
Project:  
COC #: 207976

Page 1 of 3

---

**Dear Will Wyman:**

**Please find attached the analytical results for your samples. If you have any questions regarding this report, please do not hesitate to call (613-727-5692).**

Report Comments:



Addrine  
Thomas  
2020.06.24  
15:34:55 -04'00'

APPROVAL:

---

Addrine Thomas, Inorganics Supervisor

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## Certificate of Analysis

Client: Raytheon Canada Limited Ottawa  
400 Cooper St.  
Ottawa, ON  
K2P 2H8  
Attention: Mr. Will Wyman  
PO#: 17-00919  
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1932445  
Date Submitted: 2020-06-18  
Date Reported: 2020-06-24  
Project:  
COC #: 207976

					Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.
					1499654 Sewage  2020-06-09 Fox-Main Cycle-Let 1
Group	Analyte	MRL	Units	Guideline	
General Chemistry	BOD5	1	mg/L		2
	pH	1.00			8.00
	Total Suspended Solids	2	mg/L		<2
Oil and Grease	Oil & Grease - Mineral	1	mg/L		<1
	Oil & Grease - Non-mineral	1	mg/L		<1
	Oil & Grease - Total	1	mg/L		<1
	Visible Sheen		P/A		A

**Guideline =**                      **\* = Guideline Exceedence**

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# Certificate of Analysis

Client: Raytheon Canada Limited Ottawa  
400 Cooper St.  
Ottawa, ON  
K2P 2H8  
Attention: Mr. Will Wyman  
PO#: 17-00919  
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1932445  
Date Submitted: 2020-06-18  
Date Reported: 2020-06-24  
Project:  
COC #: 207976

## QC Summary

Analyte	Blank	QC % Rec	QC Limits
<b>Run No</b> 208523 <b>Analysis/Extraction Date</b> 2020-06-18 <b>Analyst</b> C M <b>Method</b> SHEEN			
Visible Sheen			
<b>Run No</b> 385087 <b>Analysis/Extraction Date</b> 2020-06-19 <b>Analyst</b> MOS <b>Method</b> C SM2540			
Total Suspended Solids	<2 mg/L	97	90-110
<b>Run No</b> 385117 <b>Analysis/Extraction Date</b> 2020-06-24 <b>Analyst</b> AG <b>Method</b> SM 5210B			
BOD5	<1 mg/L	80	75-125
<b>Run No</b> 385127 <b>Analysis/Extraction Date</b> 2020-06-17 <b>Analyst</b> E P <b>Method</b> MOE E3421			
Oil & Grease - Mineral	<1 mg/L	99	60-120
Oil & Grease - Non-mineral	<1 mg/L		60-120
Oil & Grease - Total	<1 mg/L	100	60-120
<b>Run No</b> 385247 <b>Analysis/Extraction Date</b> 2020-06-22 <b>Analyst</b> QT <b>Method</b> SM2320,2510,4500H/F			
pH		100	90-110

**Guideline =**      \* = **Guideline Exceedence**

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Client: Raytheon Canada Limited Ottawa  
400 Cooper St.  
Ottawa, ON  
K2P 2H8  
Attention: Mr. Will Wyman  
PO#: 004438-OT  
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1934271  
Date Submitted: 2020-07-14  
Date Reported: 2020-07-21  
Project:  
COC #: 210201

Page 1 of 3


---

**Dear Will Wyman:**

**Please find attached the analytical results for your samples. If you have any questions regarding this report, please do not hesitate to call (613-727-5692).**

Report Comments:

APPROVAL:

  
Addrine  
Thomas  
2020.07.21  
15:47:12 -04'00'  
\_\_\_\_\_  
Addrine Thomas, Inorganics Supervisor

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## Certificate of Analysis

Client: Raytheon Canada Limited Ottawa  
400 Cooper St.  
Ottawa, ON  
K2P 2H8  
Attention: Mr. Will Wyman  
PO#: 004438-OT  
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1934271  
Date Submitted: 2020-07-14  
Date Reported: 2020-07-21  
Project:  
COC #: 210201

					Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.
					1504069 Sewage  2020-07-08 Fox-Main Cycle-Let
Group	Analyte	MRL	Units	Guideline	
General Chemistry	BOD5	1	mg/L		3
	pH	1.00			6.04
	Total Suspended Solids	2	mg/L		<2
Oil and Grease	Oil & Grease - Mineral	1	mg/L		<1
	Oil & Grease - Non-mineral	1	mg/L		<1
	Oil & Grease - Total	1	mg/L		<1
	Visible Sheen		P/A		A

**Guideline =**                      **\* = Guideline Exceedence**

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Client: Raytheon Canada Limited Ottawa  
400 Cooper St.  
Ottawa, ON  
K2P 2H8  
Attention: Mr. Will Wyman  
PO#: 004438-OT  
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1934271  
Date Submitted: 2020-07-14  
Date Reported: 2020-07-21  
Project:  
COC #: 210201

**QC Summary**

Analyte	Blank	QC % Rec	QC Limits
<b>Run No</b> 208523 <b>Analysis/Extraction Date</b> 2020-07-21 <b>Analyst</b> C M <b>Method</b> SHEEN			
Visible Sheen			
<b>Run No</b> 386283 <b>Analysis/Extraction Date</b> 2020-07-15 <b>Analyst</b> QT <b>Method</b> SM2320,2510,4500H/F			
pH		100	90-110
<b>Run No</b> 386307 <b>Analysis/Extraction Date</b> 2020-07-21 <b>Analyst</b> AG <b>Method</b> SM 5210B			
BOD5	<1 mg/L	75	75-125
<b>Run No</b> 386333 <b>Analysis/Extraction Date</b> 2020-07-15 <b>Analyst</b> E P <b>Method</b> MOE E3421			
Oil & Grease - Mineral	<1 mg/L	101	60-120
Oil & Grease - Non-mineral	<1 mg/L		60-120
Oil & Grease - Total	<1 mg/L	85	60-120
<b>Run No</b> 386348 <b>Analysis/Extraction Date</b> 2020-07-17 <b>Analyst</b> MOS <b>Method</b> C SM2540			
Total Suspended Solids	<2 mg/L	97	90-110

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Client: Raytheon Canada Limited Ottawa  
400 Cooper St.  
Ottawa, ON  
K2P 2H8  
Attention: Mr. Gabe Landry  
PO#: 004438-OT  
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1934290  
Date Submitted: 2020-07-14  
Date Reported: 2020-07-15  
Project:  
COC #: 210201

Page 1 of 2

---

**Dear Gabe Landry:**

**Please find attached the analytical results for your samples. If you have any questions regarding this report, please do not hesitate to call (613-727-5692).**

Report Comments:

Steven  
Tosh  
2020.07.1  
5 14:25:38  
-04'00'

APPROVAL:

---

Steven Tosh, Operations Manager

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Certificate of Analysis

Client: Raytheon Canada Limited Ottawa  
400 Cooper St.  
Ottawa, ON  
K2P 2H8  
Attention: Mr. Gabe Landry  
PO#: 004438-OT  
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1934290  
Date Submitted: 2020-07-14  
Date Reported: 2020-07-15  
Project:  
COC #: 210201

					Lab I.D.	Sample Matrix	Sample Type	Sampling Date	Sample I.D.
Group	Analyte	MRL	Units	Guideline	1504101	1504102	1504103		
Microbiology	Faecal Coliforms	0	ct/100mL		Sewage	Sewage	Sewage		
					2020-07-08	2020-07-08	2020-07-08		
					Fox-Main Cycle-Let	Fox-Main Cycle-Let - 2	Fox-Main Cycle-Let - 3		
					28	22	23		

Guideline = \* = Guideline Exceedence

Results relate only to the parameters tested on the samples submitted.

**Analytical Method: AMBCOLM1**

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

Certificate of Analysis

Client: Raytheon Canada Limited Ottawa  
400 Cooper St.  
Ottawa, ON  
K2P 2H8  
Attention: Mr. Don Beattie  
PO#: 007264-OT  
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1937903  
Date Submitted: 2020-09-02  
Date Reported: 2020-09-10  
Project:  
COC #: 210206


Page 1 of 3

---

**Dear Don Beattie:**

**Please find attached the analytical results for your samples. If you have any questions regarding this report, please do not hesitate to call (613-727-5692).**

Report Comments:

  
Charlie  
Long Qu  
2020.09.1  
0 18:09:09  
-04'00'

APPROVAL:

---

Long Qu, Organics Supervisor

All analysis is completed at Eurofins Environment Testing Canada Inc. (Ottawa, Ontario) unless otherwise indicated.

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## Certificate of Analysis

Client: Raytheon Canada Limited Ottawa  
400 Cooper St.  
Ottawa, ON  
K2P 2H8  
Attention: Mr. Don Beattie  
PO#: 007264-OT  
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1937903  
Date Submitted: 2020-09-02  
Date Reported: 2020-09-10  
Project:  
COC #: 210206

					Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.
					1514319 Sewage  2020-08-13 FOX-Main Cycle-Let
Group	Analyte	MRL	Units	Guideline	
General Chemistry	BOD5	1	mg/L		<1
	pH	1.00			6.82
	Total Suspended Solids	2	mg/L		<2
Oil and Grease	Oil & Grease - Mineral	1	mg/L		<1
	Oil & Grease - Non-mineral	1	mg/L		<1
	Oil & Grease - Total	1	mg/L		<1
	Visible Sheen		P/A		A

**Guideline =**                      **\* = Guideline Exceedence**

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# Certificate of Analysis

Client: Raytheon Canada Limited Ottawa  
400 Cooper St.  
Ottawa, ON  
K2P 2H8  
Attention: Mr. Don Beattie  
PO#: 007264-OT  
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1937903  
Date Submitted: 2020-09-02  
Date Reported: 2020-09-10  
Project:  
COC #: 210206

## QC Summary

Analyte	Blank	QC % Rec	QC Limits
<b>Run No</b> 208523 <b>Analysis/Extraction Date</b> 2020-09-10 <b>Analyst</b> C M <b>Method</b> SHEEN			
Visible Sheen			
<b>Run No</b> 388772 <b>Analysis/Extraction Date</b> 2020-09-04 <b>Analyst</b> MOS <b>Method</b> C SM2540			
Total Suspended Solids	<2 mg/L	96	90-110
<b>Run No</b> 388842 <b>Analysis/Extraction Date</b> 2020-09-09 <b>Analyst</b> AG <b>Method</b> SM 5210B			
BOD5	1 mg/L	80	75-125
<b>Run No</b> 388854 <b>Analysis/Extraction Date</b> 2020-09-04 <b>Analyst</b> A A <b>Method</b> MOE E3421			
Oil & Grease - Mineral	<1 mg/L	99	60-120
Oil & Grease - Non-mineral	<1 mg/L		60-120
Oil & Grease - Total	<1 mg/L	100	60-120
<b>Run No</b> 388951 <b>Analysis/Extraction Date</b> 2020-09-08 <b>Analyst</b> QT <b>Method</b> SM2320,2510,4500H/F			
pH		100	90-110

**Guideline =**      **\* = Guideline Exceedence**

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

Client: Raytheon Canada Limited Ottawa  
400 Cooper St.  
Ottawa, ON  
K2P 2H8  
Attention: Mr. Don Beattie  
PO#: 007264-OT  
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1937946  
Date Submitted: 2020-09-02  
Date Reported: 2020-09-04  
Project:  
COC #: 210206

Page 1 of 3

---

**Dear Don Beattie:**

**Please find attached the analytical results for your samples. If you have any questions regarding this report, please do not hesitate to call (613-727-5692).**

Report Comments:



Steven Tosh  
2020.09.04  
14:41:01  
-04'00'

APPROVAL:

---

Steven Tosh, Operations Manager

All analysis is completed at Eurofins Environment Testing Canada Inc. (Ottawa, Ontario) unless otherwise indicated.

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## Certificate of Analysis

Client: Raytheon Canada Limited Ottawa  
400 Cooper St.  
Ottawa, ON  
K2P 2H8  
Attention: Mr. Don Beattie  
PO#: 007264-OT  
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1937946  
Date Submitted: 2020-09-02  
Date Reported: 2020-09-04  
Project:  
COC #: 210206

Group	Analyte	MRL	Units	Guideline	Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.	1514428 Sewage  2020-08-13 FOX-Main Cycle-Let A	1514429 Sewage  2020-08-13 FOX-Main Cycle-Let B	1514430 Sewage  2020-08-13 FOX-Main Cycle-Let C
Microbiology	Faecal Coliforms	0	ct/100mL			375	303	380

**Guideline =**                      **\* = Guideline Exceedence**

Results relate only to the parameters tested on the samples submitted.

**Analytical Method: AMBCOLM1**

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

Certificate of Analysis

Client: Raytheon Canada Limited Ottawa  
400 Cooper St.  
Ottawa, ON  
K2P 2H8  
Attention: Mr. Don Beattie  
PO#: 007264-OT  
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1937946  
Date Submitted: 2020-09-02  
Date Reported: 2020-09-04  
Project:  
COC #: 210206

---

**Sample Comment Summary**

Sample ID: 1514428 FOX-Main Cycle-Let A Deviation from standard protocol. All bacteria samples on this report are past hold time.
---

**Guideline =**                      **\* = Guideline Exceedence**

Results relate only to the parameters tested on the samples submitted.

**Analytical Method: AMBCOLM1**

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

Certificate of Analysis

Client: Raytheon Canada Limited Ottawa  
400 Cooper St.  
Ottawa, ON  
K2P 2H8  
Attention: Mr. Don Beattie  
PO#: 007264-OT  
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1939704  
Date Submitted: 2020-09-30  
Date Reported: 2020-10-06  
Project:  
COC #: 210203

Page 1 of 3

---

**Dear Don Beattie:**

**Please find attached the analytical results for your samples. If you have any questions regarding this report, please do not hesitate to call (613-727-5692).**

Report Comments:

Charlie  
Long Qu  
2020.10.0  
6 15:28:30  
-04'00'

APPROVAL:

---

Long Qu, Organics Supervisor

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## Certificate of Analysis

Client: Raytheon Canada Limited Ottawa  
400 Cooper St.  
Ottawa, ON  
K2P 2H8  
Attention: Mr. Don Beattie  
PO#: 007264-OT  
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1939704  
Date Submitted: 2020-09-30  
Date Reported: 2020-10-06  
Project:  
COC #: 210203

					Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.
Group	Analyte	MRL	Units	Guideline	
General Chemistry	BOD5	1	mg/L		1519253 Sewage
	pH	1.00			2020-09-15 Fox-Main Cycle-Let
	Total Suspended Solids	2	mg/L		
Oil and Grease	Oil & Grease - Mineral	1	mg/L		
	Oil & Grease - Non-mineral	1	mg/L		
	Oil & Grease - Total	1	mg/L		
	Visible Sheen	A	P/A		

Guideline = \* = Guideline Exceedence

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Methods references and/or additional QA/QC information available on request.

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Client: Raytheon Canada Limited Ottawa  
400 Cooper St.  
Ottawa, ON  
K2P 2H8  
Attention: Mr. Don Beattie  
PO#: 007264-OT  
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1939704  
Date Submitted: 2020-09-30  
Date Reported: 2020-10-06  
Project:  
COC #: 210203

**QC Summary**

Analyte	Blank	QC % Rec	QC Limits
<b>Run No</b> 390145 <b>Analysis/Extraction Date</b> 2020-10-05 <b>Analyst</b> AG <b>Method</b> SM 5210B			
BOD5	<1 mg/L	97	75-125
<b>Run No</b> 390189 <b>Analysis/Extraction Date</b> 2020-09-30 <b>Analyst</b> N C <b>Method</b> SHEEN			
Visible Sheen			
<b>Run No</b> 390194 <b>Analysis/Extraction Date</b> 2020-10-01 <b>Analyst</b> N C <b>Method</b> MOE E3421			
Oil & Grease - Mineral	<1 mg/L	104	60-120
Oil & Grease - Non-mineral	<1 mg/L		60-120
Oil & Grease - Total	<1 mg/L	100	60-120
<b>Run No</b> 390256 <b>Analysis/Extraction Date</b> 2020-10-02 <b>Analyst</b> MOS <b>Method</b> C SM2540			
Total Suspended Solids	<2 mg/L	98	90-110
<b>Run No</b> 390263 <b>Analysis/Extraction Date</b> 2020-10-01 <b>Analyst</b> QT <b>Method</b> SM2320,2510,4500H/F			
pH		99	90-110

**Guideline =**      \* = **Guideline Exceedence**

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Client: Raytheon Canada Limited Ottawa  
400 Cooper St.  
Ottawa, ON  
K2P 2H8  
Attention: Mr. Don Beattie  
PO#: 007264-OT  
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1939731  
Date Submitted: 2020-09-30  
Date Reported: 2020-10-01  
Project:  
COC #: 210203

Page 1 of 3

---

**Dear Don Beattie:**

**Please find attached the analytical results for your samples. If you have any questions regarding this report, please do not hesitate to call (613-727-5692).**

Report Comments:



Jason  
Kennedy  
2020.10.0  
1 14:26:45  
-04'00'

APPROVAL:

---

Jason Kennedy, Project Manager

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## Certificate of Analysis

Client: Raytheon Canada Limited Ottawa  
400 Cooper St.  
Ottawa, ON  
K2P 2H8  
Attention: Mr. Don Beattie  
PO#: 007264-OT  
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1939731  
Date Submitted: 2020-09-30  
Date Reported: 2020-10-01  
Project:  
COC #: 210203

Group	Analyte	MRL	Units	Guideline	Lab I.D.	Sample Matrix	Sample Type	Sampling Date	Sample I.D.
					1519340	Sewage	1519341	Sewage	1519342
Microbiology	Faecal Coliforms	0	ct/100mL		2020-09-15		2020-09-15		2020-09-15
					Fox-Main Cycle-Let-A		Fox-Main Cycle-Let-B		Fox-Main Cycle-Let-C
					197		193		95

Guideline = \* = Guideline Exceedence

Results relate only to the parameters tested on the samples submitted.

**Analytical Method: AMBCOLM1**

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

Certificate of Analysis

Client: Raytheon Canada Limited Ottawa  
400 Cooper St.  
Ottawa, ON  
K2P 2H8  
Attention: Mr. Don Beattie  
PO#: 007264-OT  
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1939731  
Date Submitted: 2020-09-30  
Date Reported: 2020-10-01  
Project:  
COC #: 210203

---

**Sample Comment Summary**

Sample ID: 1519340 Fox-Main Cycle-Let-A Deviation from standard protocol. All bacteria samples are past hold time.
--

**Guideline =**                      **\* = Guideline Exceedence**

Results relate only to the parameters tested on the samples submitted.

**Analytical Method: AMBCOLM1**

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

Certificate of Analysis

Client: Raytheon Canada Limited Ottawa  
400 Cooper St.  
Ottawa, ON  
K2P 2H8  
Attention: Mr. Done Beattie  
PO#: 007264-OT  
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1941940  
Date Submitted: 2020-10-29  
Date Reported: 2020-11-05  
Project:  
COC #: 210210

Page 1 of 3

---

**Dear Done Beattie:**

**Please find attached the analytical results for your samples. If you have any questions regarding this report, please do not hesitate to call (613-727-5692).**

Report Comments:

Charlie  
Long Qu  
2020.11.  
05  
15:59:12  
-05'00'

APPROVAL:

---

Long Qu, Organics Supervisor

All analysis is completed at Eurofins Environment Testing Canada Inc. (Ottawa, Ontario) unless otherwise indicated.

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## Certificate of Analysis

Client: Raytheon Canada Limited Ottawa  
400 Cooper St.  
Ottawa, ON  
K2P 2H8  
Attention: Mr. Done Beattie  
PO#: 007264-OT  
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1941940  
Date Submitted: 2020-10-29  
Date Reported: 2020-11-05  
Project:  
COC #: 210210

					Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.
Group	Analyte	MRL	Units	Guideline	
General Chemistry	BOD5	1	mg/L		3
	pH	1.00			6.85
	Total Suspended Solids	2	mg/L		<2
Oil and Grease	Oil & Grease - Mineral	1	mg/L		<1
	Oil & Grease - Non-mineral	1	mg/L		<1
	Oil & Grease - Total	1	mg/L		<1
	Visible Sheen		P/A		A

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# Certificate of Analysis

Client: Raytheon Canada Limited Ottawa  
400 Cooper St.  
Ottawa, ON  
K2P 2H8  
Attention: Mr. Done Beattie  
PO#: 007264-OT  
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1941940  
Date Submitted: 2020-10-29  
Date Reported: 2020-11-05  
Project:  
COC #: 210210

## QC Summary

Analyte	Blank	QC % Rec	QC Limits
<b>Run No</b> 391519 <b>Analysis/Extraction Date</b> 2020-11-03 <b>Analyst</b> AG <b>Method</b> SM 5210B			
BOD5	1 mg/L	85	75-125
<b>Run No</b> 391720 <b>Analysis/Extraction Date</b> 2020-11-02 <b>Analyst</b> N C <b>Method</b> MOE E3421			
Oil & Grease - Mineral	<1 mg/L	110	60-120
Oil & Grease - Non-mineral	<1 mg/L		60-120
Oil & Grease - Total	<1 mg/L	105	60-120
<b>Run No</b> 391727 <b>Analysis/Extraction Date</b> 2020-11-02 <b>Analyst</b> QT <b>Method</b> SM2320,2510,4500H/F			
pH		101	90-110
Visible Sheen			
<b>Run No</b> 391732 <b>Analysis/Extraction Date</b> 2020-11-03 <b>Analyst</b> MOS <b>Method</b> C SM2540			
Total Suspended Solids	<2 mg/L	100	90-110

**Guideline =**      **\* = Guideline Exceedence**

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Methods references and/or additional QA/QC information available on request.

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Certificate of Analysis

Client: Raytheon Canada Limited Ottawa  
400 Cooper St.  
Ottawa, ON  
K2P 2H8  
Attention: Mr. Don Beattie  
PO#: 007264-OT  
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1941955  
Date Submitted: 2020-10-29  
Date Reported: 2020-10-30  
Project:  
COC #: 210210

Page 1 of 2

---

**Dear Don Beattie:**

**Please find attached the analytical results for your samples. If you have any questions regarding this report, please do not hesitate to call (613-727-5692).**

Report Comments:



Dragana  
Dzeletovic  
2020.10.30  
10:42:21 -04'00'

APPROVAL: \_\_\_\_\_  
Dragana Dzeletovic-Andric, Microbiology Team Lead

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## Certificate of Analysis

Client: Raytheon Canada Limited Ottawa  
400 Cooper St.  
Ottawa, ON  
K2P 2H8  
Attention: Mr. Don Beattie  
PO#: 007264-OT  
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1941955  
Date Submitted: 2020-10-29  
Date Reported: 2020-10-30  
Project:  
COC #: 210210

					Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.	1525388 Sewage  2020-10-21 Fox-Main CYCLE-LET - A	1525389 Sewage  2020-10-21 Fox-Main CYCLE-LET - B	1525390 Sewage  2020-10-21 Fox-Main CYCLE-LET - C
Group	Analyte	MRL	Units	Guideline				
Microbiology	Faecal Coliforms	0	ct/100mL			7	13	16

Guideline = \* = Guideline Exceedence

Results relate only to the parameters tested on the samples submitted.

**Analytical Method: AMBCOLM1**

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

Client: Raytheon Canada Limited Ottawa  
400 Cooper St.  
Ottawa, ON  
K2P 2H8  
Attention: Mr. Don Beattie  
PO#: 002160-OT  
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1943638  
Date Submitted: 2020-11-25  
Date Reported: 2020-12-06  
Project:  
COC #: 867304

Page 1 of 3

---

**Dear Don Beattie:**

**Please find attached the analytical results for your samples. If you have any questions regarding this report, please do not hesitate to call (613-727-5692).**

Report Comments:



Rebecca Koshy  
2020.12.06  
22:00:53 -05'00'

APPROVAL:

---

Rebecca Koshy, Project Manager

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## Certificate of Analysis

Client: Raytheon Canada Limited Ottawa  
400 Cooper St.  
Ottawa, ON  
K2P 2H8  
Attention: Mr. Don Beattie  
PO#: 002160-OT  
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1943638  
Date Submitted: 2020-11-25  
Date Reported: 2020-12-06  
Project:  
COC #: 867304

					Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.
Group	Analyte	MRL	Units	Guideline	1530665 Sewage  2020-11-06 Fox-Main Cyclet
General Chemistry	BOD5	1	mg/L		3
	pH	1.00			6.97
	Total Suspended Solids	2	mg/L		3
Oil and Grease	Oil & Grease - Mineral	1	mg/L		<1
	Oil & Grease - Non-mineral	1	mg/L		1
	Oil & Grease - Total	1	mg/L		1
	Visible Sheen		P/A		ABSENT

**Guideline =**                      **\* = Guideline Exceedence**

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Methods references and/or additional QA/QC information available on request.

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Client: Raytheon Canada Limited Ottawa  
400 Cooper St.  
Ottawa, ON  
K2P 2H8  
Attention: Mr. Don Beattie  
PO#: 002160-OT  
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1943638  
Date Submitted: 2020-11-25  
Date Reported: 2020-12-06  
Project:  
COC #: 867304

**QC Summary**

Analyte	Blank	QC % Rec	QC Limits
<b>Run No</b> 392904 <b>Analysis/Extraction Date</b> 2020-11-30 <b>Analyst</b> AG <b>Method</b> SM 5210B			
BOD5	<1 mg/L	87	75-125
<b>Run No</b> 393078 <b>Analysis/Extraction Date</b> 2020-11-27 <b>Analyst</b> QT <b>Method</b> SM2320,2510,4500H/F			
pH		100	90-110
<b>Run No</b> 393103 <b>Analysis/Extraction Date</b> 2020-12-01 <b>Analyst</b> MOS <b>Method</b> C SM2540			
Total Suspended Solids	<2 mg/L	97	90-110
<b>Run No</b> 393212 <b>Analysis/Extraction Date</b> 2020-12-01 <b>Analyst</b> N C <b>Method</b> MOE E3421			
Oil & Grease - Mineral	<1 mg/L	60	60-120
Oil & Grease - Non-mineral	<1 mg/L		60-120
Oil & Grease - Total	<1 mg/L	75	60-120
<b>Run No</b> 393442 <b>Analysis/Extraction Date</b> 2020-12-02 <b>Analyst</b> R K <b>Method</b> SHEEN			
Visible Sheen			

**Guideline =**      **\* = Guideline Exceedence**

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

Client: Raytheon Canada Limited Ottawa  
400 Cooper St.  
Ottawa, ON  
K2P 2H8  
Attention: Mr. Don Beattie  
PO#: 007264-OT  
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1943654  
Date Submitted: 2020-11-25  
Date Reported: 2020-11-26  
Project:  
COC #: 867304


Page 1 of 3

---

**Dear Don Beattie:**

**Please find attached the analytical results for your samples. If you have any questions regarding this report, please do not hesitate to call (613-727-5692).**

Report Comments:

Steven  
Tosh  
  
2020.11.2  
6 13:36:38  
-05'00'

APPROVAL:

---

Steven Tosh, Operations Manager

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## Certificate of Analysis

Client: Raytheon Canada Limited Ottawa  
400 Cooper St.  
Ottawa, ON  
K2P 2H8  
Attention: Mr. Don Beattie  
PO#: 007264-OT  
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1943654  
Date Submitted: 2020-11-25  
Date Reported: 2020-11-26  
Project:  
COC #: 867304

					Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.	1530732 WW  2020-11-06 Fox-Main Cyclet A	1530733 WW  2020-11-06 Fox-Main Cyclet B	1530734 WW  2020-11-06 Fox-Main Cyclet C
Group	Analyte	MRL	Units	Guideline				
Microbiology	Faecal Coliforms	0	ct/100mL			1	1	3

Guideline = \* = Guideline Exceedence

Results relate only to the parameters tested on the samples submitted.

**Analytical Method: AMBCOLM1**

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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Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1943654  
Date Submitted: 2020-11-25  
Date Reported: 2020-11-26  
Project:  
COC #: 867304

---

**Sample Comment Summary**

Sample ID: 1530732 Fox-Main Cyclet A Deviation from standard protocol. All bacteria samples on report are past hold time.
---

**Guideline =**                      **\* = Guideline Exceedence**

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**Analytical Method: AMBCOLM1**

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

Client: Raytheon Canada Limited Ottawa  
400 Cooper St.  
Ottawa, ON  
K2P 2H8  
Attention: Mr. Don Beattie  
PO#: 007264-OT  
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1945091  
Date Submitted: 2020-12-17  
Date Reported: 2020-12-18  
Project:  
COC #: 210202


Page 1 of 3

---

**Dear Don Beattie:**

**Please find attached the analytical results for your samples. If you have any questions regarding this report, please do not hesitate to call (613-727-5692).**

Report Comments:

Steven  
Tosh  
  
2020.12.1  
8 10:54:19  
-05'00'

APPROVAL:

---

Steven Tosh, Operations Manager

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## Certificate of Analysis

Client: Raytheon Canada Limited Ottawa  
400 Cooper St.  
Ottawa, ON  
K2P 2H8  
Attention: Mr. Don Beattie  
PO#: 007264-OT  
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1945091  
Date Submitted: 2020-12-17  
Date Reported: 2020-12-18  
Project:  
COC #: 210202

					Lab I.D.	1535111	1535112	1535113
					Sample Matrix	Sewage	Sewage	Sewage
					Sample Type			
					Sampling Date	2020-12-03	2020-12-03	2020-12-03
					Sample I.D.	Fox-Main Cycle-Let A	Fox-Main Cycle-Let B	Fox-Main Cycle-Let C
Group	Analyte	MRL	Units	Guideline				
Microbiology	Faecal Coliforms	0	ct/100mL		11	54	47	

Guideline = \* = Guideline Exceedence

Results relate only to the parameters tested on the samples submitted.

**Analytical Method: AMBCOLM1**

additional QA/QC information available on request.

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Certificate of Analysis

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400 Cooper St.  
Ottawa, ON  
K2P 2H8  
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Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1945091  
Date Submitted: 2020-12-17  
Date Reported: 2020-12-18  
Project:  
COC #: 210202

---

**Sample Comment Summary**

Sample ID: 1535111   Fox-Main Cycle-Let A   Deviation from standard protocol. All bacteria samples on report are past hold time.
--

**Guideline =**                      **\* = Guideline Exceedence**

Results relate only to the parameters tested on the samples submitted.

**Analytical Method: AMBCOLM1**

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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Attention: Mr. Don Beattie  
PO#: 007264-OT  
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1945095  
Date Submitted: 2020-12-17  
Date Reported: 2020-12-24  
Project:  
COC #: 210202


Page 1 of 3

---

**Dear Don Beattie:**

**Please find attached the analytical results for your samples. If you have any questions regarding this report, please do not hesitate to call (613-727-5692).**

Report Comments:



Charlie Long Qu  
2020.12.24  
12:05:44 -05'00'

APPROVAL:

---

Long Qu, Organics Supervisor

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400 Cooper St.  
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K2P 2H8  
Attention: Mr. Don Beattie  
PO#: 007264-OT  
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1945095  
Date Submitted: 2020-12-17  
Date Reported: 2020-12-24  
Project:  
COC #: 210202

					Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.
					1535122 Sewage  2020-12-03 Fox-Main Cycle-Let
Group	Analyte	MRL	Units	Guideline	
General Chemistry	BOD5	1	mg/L		20
	pH	1.00			6.90
	Total Suspended Solids	2	mg/L		<2
Oil and Grease	Oil & Grease - Mineral	1	mg/L		<1
	Oil & Grease - Non-mineral	1	mg/L		<1
	Oil & Grease - Total	1	mg/L		<1
	Visible Sheen		P/A		A

**Guideline =**                      **\* = Guideline Exceedence**

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PO#: 007264-OT  
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1945095  
Date Submitted: 2020-12-17  
Date Reported: 2020-12-24  
Project:  
COC #: 210202

## QC Summary

Analyte	Blank	QC % Rec	QC Limits
<b>Run No</b> 208523 <b>Analysis/Extraction Date</b> 2020-12-18 <b>Analyst</b> C M <b>Method</b> SHEEN			
Visible Sheen			
<b>Run No</b> 394074 <b>Analysis/Extraction Date</b> 2020-12-17 <b>Analyst</b> AET <b>Method</b> C SM2540			
Total Suspended Solids	<2 mg/L	100	90-110
<b>Run No</b> 394079 <b>Analysis/Extraction Date</b> 2020-12-22 <b>Analyst</b> AG <b>Method</b> SM 5210B			
BOD5	<1 mg/L	81	75-125
<b>Run No</b> 394200 <b>Analysis/Extraction Date</b> 2020-12-18 <b>Analyst</b> QT <b>Method</b> SM2320,2510,4500H/F			
pH		102	90-110
<b>Run No</b> 394440 <b>Analysis/Extraction Date</b> 2020-12-22 <b>Analyst</b> N C <b>Method</b> MOE E3421			
Oil & Grease - Mineral	<1 mg/L	80	60-120
Oil & Grease - Non-mineral	<1 mg/L		60-120
Oil & Grease - Total	<1 mg/L	75	60-120

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UNCLASSIFIED

SOW Ref: 16.F.5.d

## ANNEX D. LOCATION OF BERMED FUEL STORAGE FACILITIES

Table D-1 contains the locations and sampling dates for the wastewater discharged from the bermed fuel storage facilities.

Table D-3: Location of Bermed Fuel Storage Facilities and Date Sampled in 2020

Berm	Location on-site	Discharge Latitude <sup>2</sup>	Discharge Longitude	Date
HAL W20B	Beach	68°46'23.93"N	81°12'51.11"W	17-Jun-2020
HAL W20D&E	Airstrip	68°46'15.85"N	81°13'58.33"W	17-Jun-2020
HAL W20F	Beach	68°46'23.75"N	81°12'46.12"W	17-Jun-2020
HAL W22A	Summit	68°45'42.24"N	81°13'25.04"W	17-Jun-2020
HAL W22B	Summit	68°45'43.00"N	81°13'27.27"W	17-Jun-2020

<sup>2</sup> Final discharge point of bermed fuel storage facility

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SOW Ref: 16.F.5.d

## **ANNEX E. ANALYSIS OF BERM WATER <sup>3</sup>**

The berms at FOX-M were sampled using hydrocarbon test strips as per the approved QA/QC Plan for Berm Water Sampling as stated in the water licence 8BC-FOH1929, PART D, Item 11. The photo log of the hydrocarbon test strips is included in pages which follow.

The following documents are enclosed:

1. Hydrocarbon Test Strip Photo Log

---

<sup>3</sup> Effluent from bermed fuel storage facilities.

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SOW Ref: 16.F.5.d

## Photo Log of Hydrocarbon Test Strips

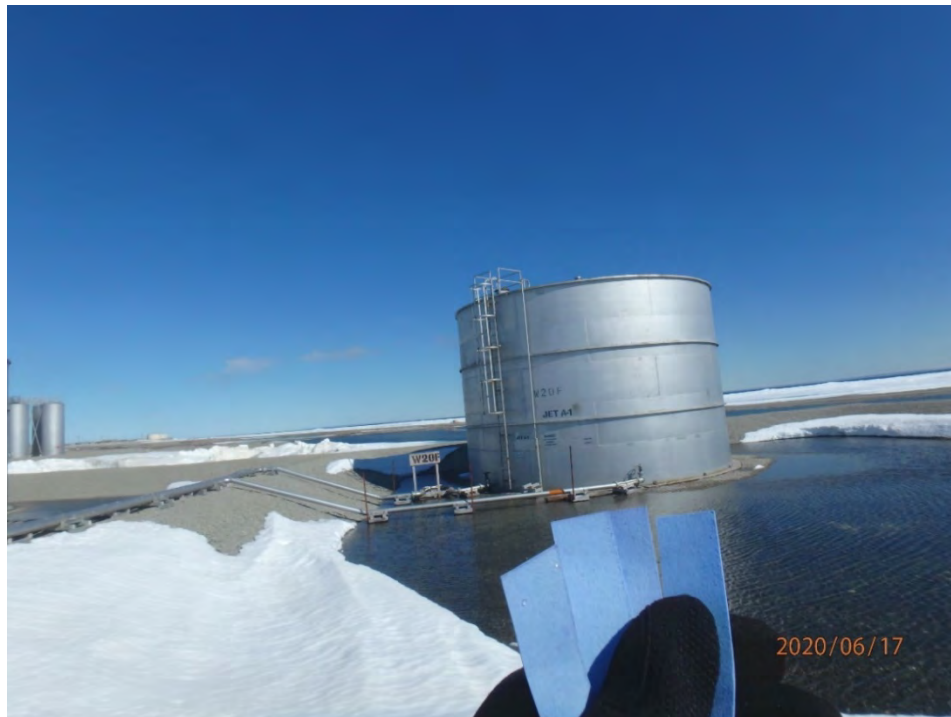


Photo E 1: Hydrocarbon test strips used in berm of tank W20F (17-Jun-2020)

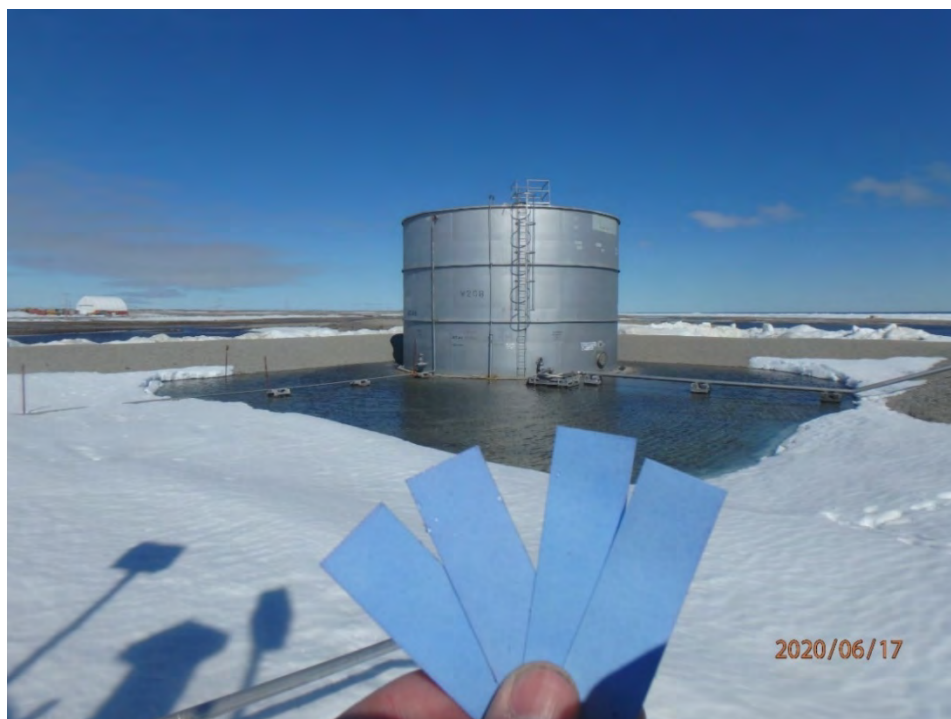


Photo E 2: Hydrocarbon test strips used in berm of tank W20B (17-Jun-2020)

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SOW Ref: 16.F.5.d



Photo E 3: Hydrocarbon test strips used in berm of tank W20D (17-Jun-2020)



Photo E 4: Hydrocarbon test strips used in berm of tank W22A (17-Jun-2020)

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SOW Ref: 16.F.5.d

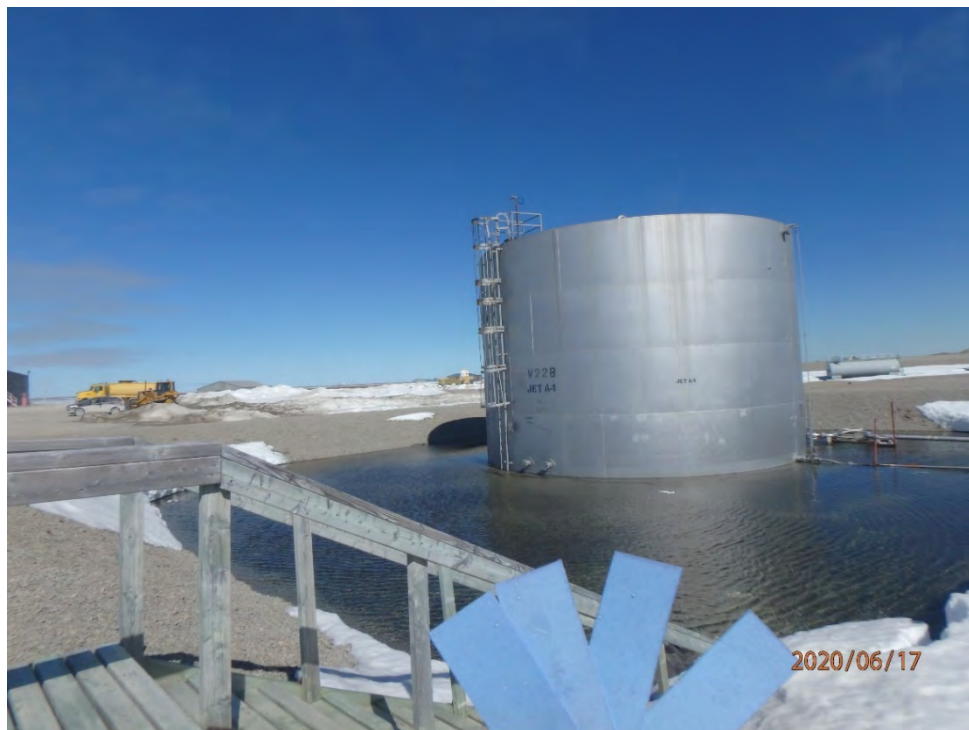


Photo E 5: Hydrocarbon test strips used in berm of tank W22B (17-Jun-2020)

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