



BAFFINLAND IRON MINES CORPORATION
MARY RIVER PROJECT

2014 QIKIQTANI INUIT ASSOCIATION (QIA) AND NUNAVUT WATER BOARD (NWB) ANNUAL
REPORT

Rev. No.	Revision	Date	Approved
0	Issued in Final	March 31, 2015	J. Millard

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EXECUTIVE SUMMARY

In 2014, Baffinland's Project activities and monitoring were conducted under the following water licences: Type A Water Licence 2AM-MRY1325, the expired bulk sampling/exploration Type B Water Licence 2BB-MRY114, the new exploration Type B Water Licence 2BE-MRY1421, the expired construction Type B Water Licence 8BC-MRY1314, and the new construction Type B Water Licence 8BC-MRY1416.

This report to the Nunavut Water Board (NWB) and the Qikiqtani Inuit Association (QIA) has been prepared to address the reporting requirements set forth in the referenced Water Licences and as agreed upon by the Qikiqtani Inuit Association in the Commercial Lease No. Q13C301.

Baffinland Iron Mines Corporation's (Baffinland) Water Licences include sampling programs that involve recording the volume of water extracted for any purpose, testing of any effluents (e.g., treated sewage effluents) discharged to the environment, and monitoring water quality within specific project areas (e.g., surface discharge downstream of construction areas, storm water from engineered containment structures, sewage and oily water effluent, etc.).

This information is summarized on the completed NWB Annual Report Forms, included as Appendix B, and is described in greater detail throughout this report. Based on a review of water licence effluent results reported as part of the water licence monitoring programs, effluent discharged to the receiving environment did not exceed water licence effluent criteria for the Type A and Type B Water Licences during 2014. In addition, there were no exceedances of the water volume withdrawal limit for camp use while under any of the referenced Water Licences for the Mine Site or Milne Port camps for domestic and construction or industrial purposes. The Steensby Port Camp was unoccupied for all of 2014.

There were four exceedances of runoff water quality criteria from samples collected during the 2014 open water season:

- On May 31, 2014, an exceedance of total suspended solids (TSS) was recorded at monitoring location MS-C-E at the Mine Site. This exceedance was likely caused by runoff from the first melt of Tote Road snow banks that may have been entrained with some sediment.
- Sample Station MP-Q1-02 (Milne Port quarry runoff) showed an exceedance for total suspended solids on June 30, 2014. Silt fences erected and upstream work was completed to minimize impacts and to decrease TSS levels to below referenced criteria.
- On July 7, 2014, an exceedance of total suspended solids (TSS) was recorded at monitoring location MP-C-A at Milne Port. Location was directly downstream of the ore dock which was being constructed at that time. The silt curtain in place during construction limited release of sediment to the receiving environment.
- On July 14, 2014, an exceedance of total suspended solids (TSS) was recorded at monitoring location MS-MRY-13a. This exceedance was either attributed to high freshet flows observed at this time, or possibly due to disturbance of the stream bottom during sampling.

No other discharge and/or runoff water quality exceedances of water licence quality criteria were reported from samples collected during the 2014 open water season, where flow or discharge was to the receiving environment.

The Type A Water Licence (2AM-MRY1325) allows for mining operations in accordance with the Nunavut Waters Regulations and authorizes Baffinland to use water and deposit waste in relation to the construction, operation, closure and reclamation of its Deposit No. 1 iron ore mine, as permitted under amended NIRB Project Certificate No. 005. In addition, the receipt of the Commercial Lease No.Q13C301 from QIA for Inuit Owned Lands (IOL) on September 6, 2013 provided the basis for the activities permitted under the Project Certificate to proceed on IOL. During 2014, the Mary River Project was in both construction phase and operations phase with the commencement of mining, crushing, and ore hauling in September.

Ongoing environmental field, engineering studies, involving baseline and engineering data collection were conducted during 2014 in accordance with the commitments made in the ERP, and the Final Environmental Impact Statement (FEIS) approved under the amended Project Certificate.

Other areas of importance during 2014 included ongoing compliance with applicable regulatory permits as well as continued progressive reclamation of areas of current and past use in association with the past exploration programs. The 2014 environmental and engineering studies field programs were mainly executed during the late spring and open water season (May to September).

A description of the various activities associated with the Project as executed under the Type A water Licence 2AM-MRY1325 and the QIA Lease No. Q13C301, presented by site areas and component activities are provided below.

Mary River Mine Site

At the Mary River Mine Site, the key Project activities included:

- Commencement of mining of Deposit No. 1 on September 9, 2014, and the crushing and stockpiling of ore at the ore crushing locations;
- Construction of the Deposit No. 1 Mine Haul Road to facilitate pit development and mining.
- On-going extraction of rock material at Quarry QMR2 and other locations that were authorized by QIA under the Commercial Lease;
- Continued deposition of non-hazardous wastes into the constructed landfill at the Mine Site in accordance with current protocols;
- Construction, installation and commissioning of Project infrastructure, including;
 - ♦ Laydowns, parking areas, the explosives facility, warehouse, maintenance shop, welding shop, power generation systems, Arctic diesel fuel dispensing module, Mary River Airstrip, raw water jetty and utility berms for raw water and sewage effluent pipelines.
- Commencement of decommissioning and on-going progressive reclamation required for the Bulk Fuel Bladder Farm and other waste storage sites constructed and utilized during the exploration phase of the operation.

Tote Road

Key activities undertaken during 2014 consisted of haulage of ore on the Tote Road from the Mary River Mine Site to Milne Port for stockpiling, and the trucking of fuel and other supplies to support Project operations and construction.

Improvements were undertaken to the Tote Road to ensure ongoing compliance and safety improvements in relation to the Mine Health and Safety Act and Regulations, namely:

- Construction and installation of four (4) new bridge crossings located at km 17, km 62, km 80 and km 97.
- Consolidation and widening of the road base, localized road realignment, adjustments to the road grade where required, and on-going efforts to reduce risk at stream crossings through the implementation of the freshet management plan.

In addition, laydown areas, adjacent to the Tote Road, were developed for the storage of explosive magazines and lineup areas. Follow-up monitoring activities were undertaken as required pursuant to the Fisheries Authorization for the Tote Road No-Net-Loss and Monitoring Program, QIA lease, and AANDC land use permit).

Milne Port

Key Project activities and monitoring at Milne Port in 2014 included:

- Stockpiling of ore at the Milne Port Ore Stockpile in advance of shipping operations anticipated for the open-water season in 2015,
- On-going extraction of rock material at Quarry Q1 authorized by QIA under the Commercial Lease.
- Marine and land based spill contingency training delivered to Baffinland Emergency Response Team (ERT) members prior to fuel delivery at Milne Port by means of a combination of classroom lectures, field exercises, and tool box meetings.
- Construction and commissioning of surface infrastructure including:
 - ♦ The Milne Inlet Landfarm facility and snow containment area; additional 12ML arctic diesel fuel tank within the existing Bulk Fuel Tank Storage Facility; expansion of the existing ramp to the beach in preparation for the 2014 sealift; on-going progressive reclamation required for decommissioned Bulk Fuel Bladder Farm at Milne;
 - ♦ Construction of ore stockpile areas and associated sedimentation ponds, ore reclaiming conveyor, ship loading facilities and the permanent Ore Dock at Milne.

Decommissioning of the Milne Port bladder bulk fuel storage facility and other waste storage areas commenced in the summer 2013 and involved the removal of bladders at Milne Port, to a licensed disposal facility in Southern Canada and stockpiling the contaminated soil and geosynthetic liner from two thirds of the bulk fuel storage facility. The decommissioning of the fuel storage facility at Milne Port was completed in the summer 2014 by transferring the stockpiled contaminated soil to the Milne Port landfarm facility.

2014 Project Sealift

The 2014 Project sealift occurred between July and October 2014 and consisted of the following:

- Six (6) sealift vessels which offloaded consumables, buildings, equipment and materials required for the execution of construction and operational activities at the Mary River Mine Site, Tote Road, and Milne Port.
- The receipt of 25 ML of P-50 diesel fuel and 1.7 ML of Jet-A fuel via two (2) ship-to-shore floating hose fuel transfers in August and October to the Milne Port fuel steel tank bulk fuel storage facility.
- The shipment off-site of various waste and hazardous materials generated over the course of the previous two (2) years for disposal in approved/licensed facilities in Southern Canada via sealift to the Port of Valleyfield, Quebec, and subsequent ground transportation to final disposal facilities.

Regulatory Inspections

In 2014, Baffinland hosted numerous regulatory inspections from AANDC and QIA, as well as the WSCC Mines Inspector:

- Five (5) inspections conducted by AANDC water resource officers,
- Two (2) inspections and one (1) environmental audit were conducted by the Qikiqtani Inuit Association (QIA) under the agreement of Commercial Lease Q10C3001, and
- WSCC conducted six (6) inspections at both the Mine and Port Sites.

Community and Consultation

During 2014, Baffinland maintained and continued to operate community liaison offices in Iqaluit, Arctic Bay, Igloolik, Pond Inlet, Clyde River, and Hall Beach. In Iqaluit, Baffinland's Northern Affairs Manager oversees the Nunavut business office and the network of liaison officers.

Community and government consultation also continued with a very high level of effort in 2014. Meetings were held with the public, local hamlet officials, local HTOs, local QIA representatives, and/or others in the North Baffin communities

Updates to Plans

An annual review of the management plans developed under the water licence has also been completed. Updates to management plans have been completed:

- Air Quality and Noise Abatement Management Plan,
- Cultural and Heritage Resource Protection Plan,
- Terrestrial Environment Management and Monitoring Plan,
- Roads Management Plan,
- Shipping and Marine Wildlife Management Plan,
- Emergency Response Plan,
- Spill Contingency Plan,
- Environmental Protection Plan,
- Fresh Water, Sewage and Wastewater Management Plan,
- Hazardous Materials and Hazardous Waste Management Plan,
- Interim Abandonment and Reclamation Plan,
- Surface Water, Aquatic Ecosystems, Fish and Fish Habitat Management Plan;
- Waste Management Plan,
- Life of Mine Waste Rock Management Plan, and the
- Oil Pollution Emergency Plan – Milne Port (OPEP).

Summary of Project Plans for 2015

The 2015 Work Plan was prepared and provided to relevant parties on October 31, 2014 as required under Section 6.1 of the Commercial Lease, No. Q13C301 and under the Type A Water Licence (2AM-MRY1325), Part J, Item 3. On December 12, 2014 Baffinland submitted the 2015 Work Plan Addendum ('Addendum') which was an update to the 2015 Work Plan submitted on October 31, 2014. The purpose of this Addendum was to include additional work scope for 2015 that was not captured in the October 31, 2014 submission. The additional work scope items were required to facilitate the ongoing Project as approved under amended NIRB Project Certificate No. 005, current Type A Water Licence 2AM-MRY1325, Type B Water Licence 8BC-MRY1416, and the Type A Water Licence amendment application currently under review by the NWB.

The 2015 Work Plan describes the planned continued development and construction of infrastructure required at Milne Port, the Tote Road, and the Mary River Mine Site for the development of the Mary River Project. The 2015 Work Plan and Addendum are reproduced in Appendix C.

The continued development and construction of the site as described in the 2015 Work Plan will require a 2015 sealift. The sealifts will occur during open water (approximately between July 15th and October 15th 2014). Material, equipment, fuel and supplies required for construction activities at the Mary River Mine Site and the operation of the Mary River Mine Site facilities will be transported to the Mary River Mine Site via the Tote Road year round.

During 2015, there will be ongoing surface exploration on Baffinland's exploration lands and geotechnical drilling and surveys at project development areas, specific details with regards to scope and locations have yet to be determined. Ongoing environmental baseline data collection and engineering studies, and geophysical surveys will be undertaken to sustain the development of the Project. Seasonal occupation of Steensby Port and Mid-Rail Camps may also be required for support. Fixed wing aircraft and helicopter to support general site activities will be required.

Although the key regulatory and legal documents that relate to this report are the Commercial Lease with the QIA and the water licences issued by the NWB, this report is presented also in context of other applicable regulatory authorizations and schedules. Baffinland holds, or will soon hold, the permits and authorizations required to carry out the work for future work scope.

The Project site will continue to achieve compliance with the various regulatory requirements, and maintain community relationships. Environmental monitoring in accordance with the approved environmental management monitoring and mitigation plans will continue during 2015. Archaeological surveys at project component areas will be performed as required.

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PROJET DE LA RIVIÈRE MARY DE LA BAFFINLAND IRON MINES CORPORATION

RAPPORT ANNUEL 2014 DE LA QIKIQTANI INUIT ASSOCIATION (QIA)
ET L'OFFICE DES EAUX DU NUNAVUT (OEN)

RÉSUMÉ

En 2014, les activités et la surveillance du projet de Baffinland ont été menées dans le cadre des permis d'utilisation des eaux suivants : le permis d'utilisation des eaux de type A 2AM-MRY1325, le permis d'utilisation des eaux de type B expiré pour l'échantillonnage/exploration en vrac 2BB-MRY114, le nouveau permis d'utilisation des eaux de type B pour l'exploration 2BE-MRY1421, le permis d'utilisation des eaux de type B expiré pour la construction 8BC-MRY1314 et le nouveau permis d'utilisation des eaux de type B pour la construction 8BC-MRY1416.

Le présent rapport à l'Office des eaux du Nunavut (OEN) et à la Qikiqtani Inuit Association (QIA) a été rédigé pour répondre aux exigences de déclaration énoncées dans les permis d'utilisation des eaux mentionnés et comme convenu par la Qikiqtani Inuit Association dans le bail commercial n° Q13C301.

Les permis d'utilisation des eaux de la Baffinland Iron Mines Corporation (Baffinland) prévoient un programme d'échantillonnage qui nécessite l'enregistrement de la quantité d'eau extraite pour quelque fin que ce soit, la réalisation d'essais sur tous les effluents (p. ex., effluents d'eaux usées traitées) évacués dans l'environnement et le contrôle de la qualité de l'eau dans certains secteurs précis du Projet (p. ex., rejet de déchets en surface en aval des sites de construction, eaux pluviales recueillies au moyen d'une structure de confinement artificielle, effluents d'eaux usées et huileuses, etc.).

Ces renseignements sont résumés dans le rapport annuel complet de l'OEN, ci-inclus en Annexe B, et font l'objet d'une description plus détaillée dans le présent rapport. Selon les résultats des essais réalisés sur les effluents ciblés par les permis d'utilisation des eaux, conformément aux programmes de contrôle inclus dans les permis d'utilisation des eaux, les effluents rejetés dans l'environnement récepteur n'ont pas dépassé, en 2014, les seuils établis aux termes des permis d'utilisation des eaux de type A et B. En outre, il n'y avait aucun dépassement de la limite de prélèvement d'eau pour les besoins des camps dans le cadre de l'un des permis d'utilisation des eaux mentionnés dans le cas du site minier ou du port de Milne à des fins domestiques et de construction ou industrielles. Le camp du port de Steensby était inoccupé pendant toute l'année 2014.

Il y avait quatre dépassements liés aux critères de la qualité de l'eau de ruissellement dans les échantillons prélevés pendant la saison des eaux libres de 2014 :

- Le 31 mai 2014, un dépassement a été enregistré au chapitre du total des solides en suspension (TSS) au point de contrôle MS-C-E du site minier. Ce dépassement a probablement été causé par le ruissellement découlant de la première fonte des bancs de neige du chemin d'approvisionnement qui peuvent avoir été entraînés avec des sédiments.
- La station d'échantillonnage MP-Q1-02 (les eaux de ruissellement de la carrière du port de Milne) a montré un dépassement du total des solides en suspension, le 30 juin 2014. Des clôtures anti-érosion ont été érigées et des travaux en amont ont été réalisés afin de minimiser les répercussions et diminuer les niveaux de TSS de façon à ce qu'ils correspondent aux critères mentionnés ci-dessous.
- Le 7 juillet 2014, un dépassement a été enregistré au chapitre du total des solides en suspension (TSS) au point de contrôle MP-C-A du port de Milne. L'emplacement se situait directement en aval du quai de

minerais qui était en cours de construction à l'époque. Le filtre à limon en place pendant la construction a limité le déversement des sédiments dans l'environnement récepteur.

- Le 14 juillet 2014, un dépassement a été enregistré au chapitre du total des solides en suspension (TSS) au point de contrôle MS-MRY-13a. Ce dépassement a été attribué aux grandes crues nivales observées à ce moment ou peut-être à la perturbation du fond du cours d'eau lors de l'échantillonnage.

Aucun autre dépassement lié au déversement et/ou à la qualité de l'eau de ruissellement, aux termes des critères figurant dans les permis d'utilisation des eaux, n'a été détecté dans les échantillons prélevés pendant la période des eaux libres de 2014, sur le plan du débit ou du rejet dans l'environnement récepteur.

Le permis d'utilisation des eaux de type A (2AM-MRY1325) autorise l'exploitation minière conformément à la réglementation de l'Office des eaux du Nunavut et autorise Baffinland à utiliser de l'eau et à produire des déchets dans le cadre de la construction, l'exploitation, la fermeture et la réhabilitation de sa mine de minerai de fer Gisement n° 1, comme l'autorise le certificat de projet modifié n° 005 de la CNER. En outre, la réception du bail commercial n° Q13C301 de la QIA pour les terres inuites, le 6 septembre 2013, a servi de base à la poursuite des activités autorisées aux termes du certificat du projet sur les terres inuites. Au cours de 2014, le projet de la rivière Mary était à la fois dans la phase de construction et la phase d'exploitation et le début de l'exploitation, du broyage et du transport de minerai était prévu en septembre.

Des études d'ingénierie en cours dans le domaine de l'environnement, comprenant la collecte de données de base et d'ingénierie, ont été réalisées en 2014 conformément aux engagements pris dans le cadre de l'ÉGRA et à l'énoncé final des incidences environnementales qui a été approuvée aux termes du certificat de projet modifié.

D'autres domaines d'importance au cours de 2014 comprenaient une conformité continue aux permis réglementaires applicables ainsi que la récupération progressive continue de zones d'exploitation actuelles et passées parallèlement aux programmes d'exploration passés. Les programmes sur le terrain des études environnementales d'ingénierie ont été réalisés principalement à la fin du printemps et au cours de la saison des eaux libres (de mai à septembre).

Une description des diverses activités liées au projet, réalisées conformément au permis d'utilisation des eaux de type A 2AM-MRY1325 et au bail de la QIA n° Q13C301, présentées par zones de site et activités liées à la composante, est fournie ci-dessous.

Site minier de la rivière Mary

Au site minier de la rivière Mary, les activités principales du projet comprenaient celles-ci :

- Début de l'exploitation du gisement n° 1, le 9 septembre 2014, du broyage et du stockage du minerai aux emplacements de concassage de minerai;
- Construction de la route de transport minier du gisement n° 1 pour faciliter le développement de puits et l'exploitation minière;
- Extraction en cours de matériaux rocheux à la carrière QMR2 et à d'autres endroits qui ont été autorisés par la QIA dans le cadre du bail commercial;
- Dépôt continu de déchets non dangereux dans le site d'enfouissement prévu à cette fin au site minier conformément aux protocoles actuels;
- Construction, installation et mise en service des infrastructures du projet, y compris ce qui suit :
 - ♦ aires de dépôt, aires de stationnement, installation d'explosifs, entrepôt, atelier d'entretien, atelier de soudure, systèmes de production d'énergie, modules de distribution de carburant diesel pour l'Arctique,

piste d'atterrissage de la rivière Mary, digue de stockage d'eaux brutes et bermes de services publics pour les canalisations d'évacuation d'eaux brutes et d'eaux usées.

- Début du déclassement et de la remise en état progressive requis pour le réservoir de carburant en vrac souple et d'autres sites de stockage de déchets construits et utilisés pendant la phase d'exploration du projet.

Chemin d'approvisionnement

Les principales activités menées au cours de 2014 se composaient du transport de minerai sur le cheminement d'approvisionnement, du site minier de la rivière Mary au port de Milne pour le stockage, et du transport par camion de carburant et d'autres fournitures pour soutenir les opérations et la construction du projet.

Des améliorations ont été apportées au chemin d'approvisionnement pour assurer une conformité permanente et des améliorations de la sécurité dans le cadre de la *Loi sur la santé et la sécurité dans les mines* et du Règlement y afférent, à savoir :

- Construction et installation de quatre (4) nouvelles traversées de ponts situées à 17 km, 62 km, 80 km et 97 km.
- Consolidation et élargissement de l'assiette de la route, réalignement localisé des routes, ajustements à la pente de la route, au besoin, et des efforts continus pour réduire les risques aux passages des cours d'eau grâce à la mise en œuvre du plan de gestion des crues.

En outre, des aires de dépôt, adjacentes au chemin d'approvisionnement, ont été aménagées pour le stockage des dépôts d'explosifs et des zones d'alignement. Des activités de suivi liées à la surveillance ont été entreprises aux termes de l'autorisation de pêche dans le cadre du programme « Aucune perte nette » et du programme de surveillance du chemin d'approvisionnement, du bail de la QIA et du permis d'utilisation du sol d'AADNC.

Port de Milne

Les activités clés du projet et de suivi au port de Milne, en 2014, comprenaient celles-ci :

- Stockage de minerai au port de Milne à l'avance des activités d'expédition prévues pour la saison des eaux libres en 2015,
- Extraction de matériaux rocheux en cours à la carrière Q1 autorisée par la QIA dans le cadre du bail commercial.
- Formation à l'intervention en cas de déversements de sources marine et terrestre des membres de l'équipe d'intervention d'urgence de Baffinland avant la livraison de carburant au port de Milne au moyen d'une série de cours magistraux, d'exercices sur le terrain et de réunions sur la sécurité.
- Construction et mise en service des infrastructures de surface, y compris ce qui suit :
 - ♦ installation de biodégradation de l'inlet Milne et la zone de confinement de neige; réservoir supplémentaire de 12 millions de litres de carburant diesel pour l'Arctique dans l'installation de stockage existante des réservoirs de carburant en vrac; extension de la rampe existante jusqu'à la plage en prévision du transport maritime en 2014; remise en état progressive continue nécessaire pour le réservoir de carburant en vrac souple déclassé de Milne;
 - ♦ construction des zones d'entreposage de minerai et des étangs de sédimentation connexes, convoyeur de reprise de minerai, installations de chargement de navires et quai minéralier permanent à Milne.

Le déclassement de l'installation d'entreposage des réservoirs de carburant en vrac souples du port de Milne et d'autres zones de stockage des déchets a commencé au cours de l'été 2013 et a comporté le déménagement des réservoirs souples du port de Milne vers une installation d'élimination autorisée dans le sud du Canada et le stockage des sols contaminés et du revêtement géosynthétique des deux tiers de l'installation d'entreposage de carburant en vrac. Le déclassement de l'installation de stockage de carburant du port de Milne a été achevé au cours de l'été 2014 par le transfert du sol contaminé stocké à l'installation de biodégradation du port de Milne.

Transport maritime dans le cadre du projet de 2014

Le transport maritime dans le cadre du projet de 2014 a eu lieu entre juillet et octobre 2014 et comprenait ce qui suit :

- Six (6) navires de transport maritime qui ont déchargé des produits consommables, du matériel de construction, des équipements et des matériaux nécessaires à l'exécution des activités de construction et des activités opérationnelles au site minier de la rivière Mary, sur le chemin d'approvisionnement et au port de Milne.
- Réception de 25 millions de litres de carburant diesel arctique P-50 et de 1,7 million de litres de carburant aviation Jet-A au moyen de deux (2) transferts navire-terre en août et en octobre aux réservoirs en acier de stockage en vrac du carburant du port de Milne.
- Expédition hors du site, par transport maritime au port de Valleyfield, au Québec, de divers déchets et matériaux dangereux produits au cours des deux (2) années précédentes aux fins d'élimination dans des installations approuvées/homologuées dans le sud du Canada et transport terrestre par la suite aux installations d'élimination définitive.

Inspections réglementaires

En 2014, Baffinland a mené de nombreuses inspections réglementaires d'AADNC et de la QIA, ainsi que de l'inspecteur des mines de la CSTIT :

- cinq (5) inspections menées par des agents des ressources hydriques d'AADNC;
- deux (2) inspections et une (1) vérification environnementale ont été menées par la Qikiqtani Inuit Association (QIA) aux termes du bail commercial Q10C3001;
- La CSIT a effectué six (6) inspections aux sites minier et portuaire.

Collectivité et consultation

En 2014, Baffinland a continué d'exploiter ses bureaux de liaison avec les collectivités à Iqaluit, Arctic Bay, Igloolik, Pond Inlet, Clyde River et à Hall Beach. À Iqaluit, le directeur des Affaires du Nord de Baffinland supervise le bureau commercial du Nunavut et le réseau d'agents de liaison.

Poursuite très active des consultations auprès des collectivités et du gouvernement en 2014. Des rencontres ont eu lieu avec le public, les représentants des hameaux locaux, des associations locales de chasseurs-trappeurs, les représentants locaux de la QIA et/ou d'autres représentants des collectivités du nord de Baffin.

Mises à jour des plans

Un examen annuel des plans de gestion mis au point en vertu des permis d'utilisation des eaux a également été réalisé. Les mises à jour des plans de gestion ont été achevées :

- plan de gestion de la qualité de l'air et de la réduction du bruit;
- plan de protection des ressources patrimoniales et culturelles;
- plan de gestion et de surveillance de l'environnement terrestre;
- plan de gestion des routes;
- plan de gestion des expéditions et de la faune marine;
- plan d'intervention d'urgence;
- plan d'urgence en cas de déversement;
- plan de protection de l'environnement;
- plan de gestion des eaux douces, des eaux d'égout et des eaux usées;
- plan de gestion des matières dangereuses et des déchets dangereux;
- plan provisoire de fermeture et de remise en état;
- plan de gestion des eaux de surface, des écosystèmes aquatiques ainsi que des poissons et de leur l'habitat;
- plan de gestion des déchets;
- plan de gestion des stériles pendant la durée de vie de la mine;
- plan d'urgence contre la pollution par les hydrocarbures – port de Milne (PUPH).

Résumé des plans du projet de 2015

Le plan de travail pour 2015 a été préparé, puis distribué aux parties intéressées le 31 octobre 2014, conformément à la section 6.1 du bail commercial no Q13C301 et de la partie J, article 3 du permis d'utilisation des eaux de type A (2AM-MRY1325). Le 12 décembre 2014, Baffinland a soumis l'addenda (« addenda ») du plan de travail de 2015, qui constituait une mise à jour du plan de travail de 2015 présenté le 31 octobre 2014. Cet addenda avait pour but d'inclure une portée des travaux supplémentaires pour 2015, qui ne figurait pas dans la proposition du 31 octobre 2014. Les éléments supplémentaires de la portée des travaux étaient nécessaires pour faciliter le projet en cours, tel qu'approuvé aux termes du certificat de projet modifié n° 005 de la CNER, du permis d'utilisation des eaux de type A 2AM-MRY1325, du permis d'utilisation des eaux de type B 8BC-MRY1416 et de la demande de modification du permis d'utilisation des eaux de type A qui est en cours d'examen à l'OEN.

Le plan de travail pour 2015 décrit les travaux d'aménagement et de construction prévus pour les infrastructures nécessaires au port de Milne, sur le chemin d'approvisionnement et au site minier de la rivière Mary dans le cadre du développement du Projet de la rivière Mary. Le plan de travail de 2015 et son addenda sont reproduits à l'annexe C.

La poursuite du développement et de la construction du site tel que décrit dans le plan de travail de 2015 nécessitera le transport maritime. Les opérations de ravitaillement par bateau auront lieu pendant la saison des eaux libres (à peu près entre le 15 juillet et le 15 octobre 2014). Le matériel, l'équipement, le carburant et les fournitures nécessaires aux activités de construction du site minier de la rivière Mary et au fonctionnement des installations de ce dernier y seront transportés, par le chemin d'approvisionnement, tout au long de l'année.

Au cours de 2015, il y aura des activités d'exploration de surface continues sur les terres d'exploration de Baffinland et des activités de forage géotechnique ainsi que des enquêtes dans les zones de développement du projet, dont les détails précis concernant la portée et les emplacements doivent encore être déterminés. Poursuite de la collecte de données environnementales de base, des études techniques et des sondages géophysiques en vue d'appuyer le développement du projet. Une occupation saisonnière des camps du port de Steensby et des traversées ferroviaires pourrait également être nécessaire à des fins de soutien. Des aéronefs à voilure fixe et des hélicoptères pour renforcer les activités générales du site seront nécessaires.

Bien que les documents réglementaires et juridiques clés qui se rapportent au présent rapport soient le bail commercial accordé par la QIA et les permis d'utilisation des eaux émis par l'OEN, ce rapport est également présenté dans le contexte des autres autorisations réglementaires et échéanciers applicables. Baffinland détient, ou détiendra bientôt, les permis et les autorisations nécessaires pour effectuer les travaux dans le cadre de la portée des travaux futurs.

Le site du Projet continuera d'être conforme aux diverses exigences réglementaires et à maintenir des liens avec les collectivités. La surveillance environnementale, aux termes des plans approuvés de gestion environnementale et de mesures d'atténuation, se poursuivra en 2015. Les travaux de sondage archéologique aux emplacements des composants du projet se poursuivront également selon les besoins.

BAFFINLAND IRON MINES CORPORATION**MARY RIVER PROJECT****2014 QIKIQATANI INUIT ASSOCIATION (QIA) AND NUNAVUT WATER BOARD ANNUAL REPORT****TABLE OF CONTENTS**

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BAFFINLAND IRON MINES CORPORATION**MARY RIVER PROJECT****2014 QIKIQTANI INUIT ASSOCIATION (QIA) AND NUNAVUT WATER BOARD (NWB) ANNUAL
REPORT****SECTION 1.0 - INTRODUCTION**

This report to the Nunavut Water Board (NWB) and the Qikiqtani Inuit Association (QIA) has been prepared to summarize the Project activities and monitoring conducted under Baffinland Iron Mines Corporation ("Baffinland") water licences as well as to address reporting requirements set forth in the Commercial Lease No. Q13C301 (the "Lease") agreed upon by the Qikiqtani Inuit Association and Baffinland. The relevant water licences include the Type A Water Licence 2AM-MRY1325, the expired bulk sampling Type B Water Licence 2BB-MRY114, the new exploration Type B Water Licence 2BE-MRY1421, the expired construction Type B Water Licence 8BC-MRY1314, the new construction Type B Water Licence 8BC-MRY1416. Concordance tables referencing where in this report the requirements of the reporting outlined in the Commercial Lease and water licences have been met are presented in Appendix A.

The referenced water licences include provisions for sampling programs that involve recording data related to the volume of water extracted for any purpose, testing of effluents (e.g., treated sewage effluents) discharged to the environment, and monitoring water quality within specific Project areas (e.g., surface discharge downstream of construction areas, storm water from an engineered containment structure, sewage and oily water effluent, etc.). These data are summarized and referenced on the completed NWB Annual Report Forms, included as Appendix B, and are described in greater detail in subsequent sections.

Figures 1.1 and 1.2 present the locations of the key areas associated with the Mary River Project where activities in 2014 were undertaken. These areas included Milne Port (Figure 1.3), the Milne Inlet Tote Road (Figure 1.4), and the Mary River Mine Site (Figure 1.5). There was no activity at the Mid-Rail camp site (Figure 1.6) and limited activity at the Steensby Port site (Figure 1.7) in 2014. Both of these camps remained closed and unoccupied during 2014.

Throughout this report, unless otherwise stated, the term, "Type A Water Licence" refers to "Type A Water Licence 2AM-MRY1325". Similarly the term, "QIA Commercial Lease", refers to the "Commercial Lease No. Q13C301 Between: the Qikiqtani Inuit Association and Baffinland Iron Mines Corporation".

1.1 REGULATORY FRAMEWORK

Although the key regulatory and legal documents that relate to this report are the Commercial Lease with the QIA and the water licences issued by the NWB, this report is presented also in context of other applicable regulatory authorizations and schedules. Baffinland holds, or will soon hold, the permits and authorizations required to carry out the work for future work scope. A listing of the key regulatory instruments that allowed for work to be completed in 2014 included:

	Existing Environmental Permits				
	Property ID	Permit Number	Agency	Start Date	Expiration Date
Project Certificate	Mary River	005	Nunavut Impact Review Board	5/28/2014	No Expiry
Inuit Impact Benefit Agreement	Mary River	N/A	QIA	9/6/2014	No Expiry
Commercial Land Lease	Mary River	Q13C301	QIA	9/6/2014	12/31/2043
Type A Water Licence	Mary River	2AM-MRY1325	Nunavut Water Board	6/10/2013	6/10/2025
Type B Water Licence Exploration	Mary River	2BE-MRY1421	Nunavut Water Board	4/17/2014	4/16/2021
Type B Water Licence - Construction	Mary River	8BC-MRY1416	Nunavut Water Board	8/6/2014	8/5/2016
Land Use Permit - Steensby and Milne Inlets	Mary River	N2014C0013	Aboriginal and Northern Development Canada	7/1/2014	6/30/2016
Land Use Permit - Milne Foreshore	Mary River	N2014X0012	Aboriginal and Northern Development Canada	7/1/2014	6/30/2016
Land Use and Quarrying Permit - Tote Road	Mary River	N2014Q0016	Aboriginal and Northern Development Canada	7/1/2014	6/30/2016
Land Lease - Milne Foreshore	Mary River	47H/16-1-2	Aboriginal and Northern Development Canada	7/1/2014	6/30/2035
Fisheries Authorization - Ore Dock	Mary River	14-HCAA-00525	Department of Fisheries and Oceans	6/30/2014	12/31/2020
Fisheries Authorization - Tote Road	Mary River	NU-06-0084	Department of Fisheries and Oceans	8/1/2007	No Expiry
Navigable Waters Crossings	Mary River	8200-07-10267 8200-07-10272 8200-07-10266 8200-07-10271	Transport Canada	9/6/2007	When Construction Complete
Occasional Use Marine Facility	Mary River	4306-2-6-P/B	Transport Canada		6/30/2018
Factory Licence	Mary River	F76068	National Resources Canada		6/30/2015

Baffinland continues to develop the Mary River Project in a phased approach. In January 2014, the final hearings were held for the Early Revenue Phase (ERP) announced in 2013, and subsequent approval, construction and operation of ERP commenced.

Baffinland has the necessary environmental assessment and permitting approvals to construct and operate the Approved Project assessed in its FEIS and the Early Revenue Phase, proposed in the Addendum to the FEIS (Baffinland 2012; 2013). The current regulatory instruments governing the Project are described below.

In early 2013, Baffinland announced its intention to seek an amendment to its Project Certificate to allow the company to proceed with the ERP. The amended Project certificate was issued in May, 2014.

The Project was subject to a number of inspections by regulatory agencies in 2014 to determine compliance with the applicable regulatory instruments. Inspection reports and follow-up reports, where applicable, can be found in Appendix E.7. The following are the main regulatory instruments that allow for the construction and operation of the Approved Project.

Project Certificate No. 005

- Issued by the NIRB on December 28, 2012, covers the Approved Project as described in the FEIS
- Amended Project certificate was issued on May 28, 2014

Inuit Owned Land Commercial Lease Q13C301

- The QIA issued a Commercial Lease to Baffinland on September 6, 2013 for the construction and operation of the Project on Inuit Owned Land (IOL). The Commercial Lease includes a Quarry Concession Agreement for the development of rock quarries and borrow areas on IOL (see Figure 3

to see IOL in relation to the Project). The Commercial Lease has a 30-year term ending on December 31, 2043.

Type A Water Licence 2AM-MRY1325

- The Type A Water Licence was granted in June 2013. The scope of the Type A Water Licence covers the entirety of the Mary River Project as approved in Project certificate no. 005, and allows for 580,000 cubic meters of water usage per annum during construction and 230,000 cubic meters per annum during operations. This License is issued subject to conditions contained therein with respect to the taking of water and the depositing of waste. The current licence term ends June, 2025.
- An application to amend the Type A Water Licence to account for activities approved for the Early Revenue Phase was submitted to the NWB on July 16, 2014, and is currently under review. Technical meetings for this amendment application have already been held and a Public Meeting has been scheduled in Pond Inlet for May 6 and 7, 2015.

Type B Water Licences

- Prior to issuance of the Type A Water Licence, Type B Water Licence 2BB-MRY1114 authorized Baffinland to operate its existing Project facilities, including the existing sewage treatment plants, incinerators and landfill. These activities are now regulated by the Type A Water Licence. This Type B Water Licence remained valid for early 2014, but was replaced with a new licence in April 2014.
- 2BB-MRY1114 expired in April 2014 and the activities therein are now covered under Type B Water Licence 2BE-MRY1421, issued in April 2014. The licence governs water use and waste disposal activities related to ongoing mineral exploration and geotechnical drilling. The licence is valid until 2021.
- Type B Water Licence 8BC-MRY1314 was issued for term of one year (May 24, 2013 to May 23, 2014) to allow for early construction works to begin on the Project prior to issuance of the Type A Water Licence. This licence is now expired.
- In August 2014, Baffinland received Type B Water Licence 8BC-MRY1416, to continue to allow ERP work to proceed while a Type A amendment is being processed.

Crown Land Use Permits and Quarry Permit

- In 2014, Baffinland was granted a Crown Land Lease for the area of the Milne Port Foreshore that hosts the ore dock. Lease 47H16-1-2 allows the construction, operation, and maintenance and reclamation of an ore dock for 21 years, and a subsequent land use permit N2014X0012 also covers operations of the dock.
- In addition, AANDC reissued the existing land use permits to align expiry dates for administrative ease. These permits were renumbered and are now:
- N2014Q0016 (Crown Land on the Tote Road and Borrow Area 1)
- N2014C0013 (Steensby Camp)
- Baffinland was also issued a new land use permit for the monitoring camp at Bruce Head in Milne Inlet, which supports the Bruce Head marine mammal monitoring program. This program is required as part of the amended Project Certificate No. 005. This permit is numbered N2014J0011.

Authorizations under the *Fisheries Act*

- IN 2007, Baffinland was issued Authorization 06-HCAA-CA7-0084 under the *Fisheries Act*, for the harmful alteration, disruption or destruction of fish habitat (HADD) regarding the installation of watercourse crossings in fish bearing waters along the Milne Inlet Tote Road. The authorization remains valid and has been amended over the years. Monitoring and reporting to DFO occurs annually.
- In August 2013, Baffinland submitted applications for further culvert and bridge construction along the Milne Inlet Tote Road, and received a number of Letters of Advice for these proposed activities (NU-07-0050). While the proposed activities will not result in serious harm to fish or fish habitat, DFO provided Baffinland with recommended mitigation measures to avoid serious harm to fish and fish habitat. This culvert and bridge construction took place in 2014.
- In 2014, Baffinland also received approval from DFO to construct the ore dock under the new Fisheries Act legislation for Serious Harm determinations. The HADD program is no longer in use. Authorization 14-HCAA-00525 prescribes offset measures for the destruction of fish habitat during construction of the ore dock.
- Prior to construction of a dock at Steensby Port, Baffinland will need to seek an authorization under the *Fisheries Act*.

Approvals under the *Navigable Waters Protection Act*

- During the exploration phase, Baffinland obtained approvals from Transport Canada under the *Navigable Waters Protection Act* for construction of watercourse crossings on unnamed watercourses along the Milne Inlet Tote Road; at Baffinland designated crossing locations BG50, CV128, CV217, and CV223 (see Section 5.4.2).
- Subsequently, Baffinland also received approvals from Transport Canada under the same Act for the new bridge crossings on the Tote Road that were constructed in 2014. As the new bridges replaced the existing watercourse crossings, the reference locations remain the same.

Approvals under *Nunavut Mine Health and Safety Act*

- Baffinland and its construction contractor have obtained the necessary permits and authorization for health and safety administered by Workers' Safety and Compensation Commission (WSCC).

Licence under the *Explosives Act*

- Baffinland's explosives contractor obtained a Division 1 Factor Licence from Natural Resources Canada for the emulsion plant at the mine site.

Inuit Impact and Benefit Agreement (IIBA)

- Baffinland signed the IIBA on September 6, 2013, and is continuing to work with the QIA on the implantation of this agreement. An Executive and Management Committee have been established and were operating in 2014. A number of positions have been hired to support implementation of the IIBA.

In October, 2014, Baffinland announced in Pond Inlet the Company's intention to proceed with permitting for the next phase of the Mary River Project ("Phase 2"), and subsequently submitted a Project description to the NIRB and NPC. This next phase, and the review process, is subject to an NPC conformity determination and NIRB direction and is not the subject of this report.

1.2 SUMMARY OF PROJECT ACTIVITIES FOR 2014

Due to various business drivers, Baffinland submitted an application on June 23, 2013 to Nunavut Impact Review Board (NIRB) for approval of the Early Revenue Phase (ERP) which included modifications to the existing Project development associated with the Mary River Project Certificate No.005. The proposed modifications consisted of the construction of a port facility at Milne Inlet, road haulage of ore from the Mine Site to Milne Port via the Tote Road, and shipment of up to 4.2 Mt/a ore via Milne Port. At this time, construction of the Approved Project (18 Mt/a production, with railway link to Steensby Port and the development of Steensby Port) has been deferred. On May 28, 2014, Baffinland received the amended Project Certificate No.005 from NIRB. The main regulatory instruments held by Baffinland that permitted the execution of the 2014 Work scope are outlined in Section 1.1 of this report and a summary of Key Project activities and regulatory submissions during 2014 is presented in Table 1.1.

1.2.1 Requirement for New Construction Type B Water Licence

Although the existing Type A Water Licence authorizes many of the activities associated with the Project, the approval of the ERP Project required Baffinland to apply for a renewed and amended construction Type B Water Licence to accommodate water demands during peak construction activities at Milne Port as well as Project-wide exploration activities during 2014. This new construction Type B licence is intended to act as a bridging licence until the Amendment to the Type A Water Licence (application submitted to the NWB in July 2014) is issued for the ERP. On August 6, 2014, Baffinland received a renewed construction Type B Water Licence 8BC-MRY1416 to allow for various undertakings/activities to be carried out in support of ERP. The renewed Type B supported the construction activities related to the ERP by providing for:

- The use of an additional 299 m³ per day of water for domestic and industrial purposes during construction activities related to the ERP;
- Continued operation and expansion of the Port Site Weatherhaven (former Matrix Camp) to support additional manpower of up to 350 persons during site preparation work;
- Construction and eventual operation of an additional Polishing Waste Stabilization Pond (PWSP) on a contingency basis at Milne Port;
- Construction of Ore Stockpile areas and associated sedimentation ponds, a permanent Ore Dock., ship loading facilities and associated earthworks activities, and ore reclaiming conveying equipment at Milne Port.
- The deposit of waste during construction activities.

1.2.2 Activities Completed Under Type B Exploration Water Licences

On January 15, 2014, Baffinland submitted an application to the NWB to request a renewal to the former Type B Water Licence 2BB-MRY1114 that would allow for on-going exploration and geotechnical activities past expiration in April 2014. Approval was received on April 17, 2014, for a renewed exploration Type B Water Licence 2BE-MRY1421 that would replace 2BB-MRY1114. The work scope outlined in this licence and allows for the execution of exploration and geotechnical drilling programs.

Activities and undertakings that occurred in 2014 under the Type B Water Licence 2BB-MRY1114 prior to April 2014, and under the renewed exploration Type B Water Licence 2BE-MRY1421 after April 2014 included:

- Ongoing care and maintenance of Steensby Port camp during the months of June, July, August, and September to support future environmental baseline studies and mineral exploration programs (during 2014 the camp was not occupied but was used as a refuelling site for the Project helicopters)
- Continued operation of the Mary River Mine Site exploration camp with its associated sewage treatment plant and incinerator. Subsequent to April 2014, the camp was regulated entirely under the Type A Licence.
- The operation of two helicopters to service the geology and geophysics program and other general site activities; including environmental monitoring, regional exploration and environmental baseline and effects programs.
- A geotechnical drilling program was undertaken at Milne Port that commenced during the month of December 2013 and continued through to January 2014. The 2014 drilling operation occurred from January 12 to 19 and focused on the assessment of subsurface conditions for the construction of a proposed ore dock. Five (5) drill holes were advanced on the sea ice in support of the program for a total of 182 m of drilling. The drilling was completed by Logan Drilling utilizing a CME 55 geotechnical drill. During June 2014, a further six (6) drill holes were advanced on land for the purpose of thermistor installations utilizing an LM55 drill manufactured and operated by Boart Longyear. Details concerning these programs are provided in Table 1.3 and in Figure 1.8.
- A geological delineation drill program was undertaken to support infrastructure development at the Mary River Mine Site that characterized the geological contacts beneath the proposed Deposit No. 1 waste rock dump located immediately west of Deposit No. 1. A total of 748 m of drilling was completed in six drill holes during the month of July. The drilling was completed utilizing the LM55 drill operated by Boart Longyear. Details for this program are provided in Table 1.3 and in Figure 1.8. A summary of previous exploration drilling that was conducted in previous years on the various iron ore deposits is provided in Table 1.2.
- The undertaking of reconnaissance prospecting, surface sampling, traverses, property scale mapping, geophysical surveys, and a helicopter traverse programs across Baffinland's claim groups and Exploration Agreement (EA) parcel located north, northwest, northeast, east and southeast of the Mary River Mine Site camp. Due to the closure of the Steensby Inlet camp, exploration personnel were based at Mary River Mine Site camp.

- Research work was undertaken, relating to the geophysical modeling of Deposit No. 4, the geological origin of the “ore zone schist” at Deposits No. 1 through 5, and interpretive work on the newly defined prospects in the Ege Bay Fold belt area.

Project activities and monitoring related to camp infrastructure that were previously regulated under the expired Type B Water Licence 8BC-MRY1314 have since May 2014, been regulated under the Type A Water Licence for the Project, issued on July 23, 2013.

1.2.3 Activities Completed Under Type A and Type B (Construction) Water Licences

The Type A Water Licence allows for mining operations in accordance with the Nunavut Waters Regulations and authorizes Baffinland to use water and deposit waste in relation to the construction, operation, closure and reclamation of its Deposit No. 1 iron ore mine, as permitted under amended NIRB Project Certificate No. 005. In addition, the receipt of the QIA Commercial Lease for Inuit Owned Lands (IOL) on September 6, 2013 provided the basis for the activities permitted under the Project Certificate to proceed on IOL in 2014. During 2014, the Mary River Project was in both construction phase and operations phase with the commencement of mining, crushing, and ore hauling in September.

Ongoing environmental field, engineering studies, involving baseline and engineering data collection were conducted during 2014 in accordance with the commitments made in the ERP, and the Final Environmental Impact Statement (FEIS) approved under the Project Certificate.

Other areas of importance during 2014 included ongoing compliance with applicable regulatory permits as well as continued progressive reclamation of areas of current and past use in association with the past exploration, geotechnical, and bulk sample programs. The 2014 environmental and engineering studies field programs were executed during the late spring and open water season (May to September).

Site layouts of Milne Port, the Mary River Mine Site, Mid Rail and Steensby Port sites are shown on Figures 1.3, 1.5, 1.6, and 1.7, respectively.

A description of the various activities associated with the Project as executed under the Type A Water Licence and the QIA Commercial Lease, presented by site areas and component activities are provided below.

Mary River Mine Site

At the Mary River Mine Site, the key Project activities included:

- Commencement of mining of Deposit No. 1 on September 9, 2014, and the crushing and stockpiling of ore at the ore crushing locations. In addition to the construction activities mentioned above, on September 9, 2014 Baffinland commenced mining at of Deposit No.1 once construction of the Pit 1.
- Construction of the Deposit No. 1 Mine Haul Road to facilitate pit development and mining.
- On-going extraction of mainly rock material at Quarry QMR2 and other locations that were authorized by QIA under the Commercial Lease;
- Continued deposition of non-hazardous wastes into the constructed landfill at the Mine Site in accordance with current protocols;
- Development of laydown, parking areas;

- Construction of the explosives facility and associated access roads;
- Construction of warehouse facility, maintenance shop, welding shop, and installation of power generation systems;
- Installation and commissioning of an Arctic Diesel fuel dispensing module, installation of power generation systems;
- Upgrades to the Mary River Airstrip, construction and installation of raw water jetty, and utility berms for raw water and treated effluent pipelines
- Commencement of decommissioning and on-going progressive reclamation required for decommissioned Bulk Fuel Bladder Farm and other waste storage sites constructed and utilized during the exploration phase of the operation.

Section 3.0 and Appendix D.1 of this report provides a detailed description of construction activities that were undertaken at the Mine Site in 2014.

Tote Road

Key activities undertaken during 2014 consisted of haulage of ore on the Tote Road from the Mary River Mine Site to Milne Port for stockpiling, and the trucking of fuel and other supplies to support Project operations and construction.

Improvements were undertaken to the Tote Road to ensure ongoing compliance and enhanced safety to the Mine Health and Safety Act and Regulations, namely:

- Construction and installation of four (4) new bridge crossings located at km 17, km 62, km 80 and km 97.
- Consolidation and widening of the road base,
- Localized road realignment to improve sight distance and reduce potential road/vehicle departures by improving curves and reducing grades for heavy truck loads,
- Adjustments to the road grade where required,
- On-going efforts to reduce risk at stream crossings through the implementation of the freshet management plan.

In addition, laydown areas, adjacent to the Tote Road, were developed for the storage of explosive magazines and lineup areas. Follow-up monitoring activities were undertaken as required pursuant to the Fisheries Authorization for the Tote Road No-Net-Loss and Monitoring Program, QIA lease, and AANDC land use permit).

Milne Port

Key Project activities and monitoring at Milne Port in 2014 included:

- Stockpiling of ore at the Milne Port Ore Stockpile in advance of shipping operations anticipated for the open-water season in 2015
- On-going extraction of till and rock material at Quarry Q1 authorized by QIA under the Commercial Lease.

- Marine spill contingency training delivered to Baffinland Emergency Response Team (ERT) members prior to fuel delivery at Milne Port by means of a combination of classroom lectures, field exercises, and tool box meetings. This training also meets the yearly requirements of the Oil Pollution Environmental Protection Plan required by Transport Canada.
- Construction and commissioning of surface infrastructure including:
 - ♦ The Milne Inlet Landfarm facility and snow containment area;
 - ♦ Additional 12ML arctic diesel fuel tank within the existing Bulk Fuel Tank Storage Facility;
 - ♦ Expansion of the existing ramp to the beach in preparation for the 2014 sealift;
 - ♦ On-going progressive reclamation required for decommissioned Bulk Fuel Bladder Farm at Milne;
 - ♦ Construction of ore stockpile areas and associated sedimentation ponds, ore reclaiming conveyor, ship loading facilities and the permanent Ore Dock at Milne.

A detailed description of construction activities undertaken at Milne Port in 2014 is provided in Section 3.0 of this report.

Decommissioning of the Milne Port bladder bulk fuel storage facility and other waste storage areas commenced in the summer 2013 and involved the removal of bladders at Milne Port, to a licensed disposal facility in Southern Canada and stockpiling the contaminated soil and geosynthetic liner from two thirds of the bulk fuel storage facility. A quantity of residual waste oil and oily water was backhauled via sealift from the facility prior to the commencement of decommissioning activities during the summer 2013. The decommissioning of the fuel storage facility at Milne Port was completed in the summer 2014 by transferring the stockpiled contaminated soil to the Milne Port landfarm facility.

2014 Project Sealift

The 2014 Project sealift occurred between July and October 2014 and consisted of the following:

- Six (6) sealift vessels which offloaded consumables, buildings, equipment and materials required for the execution of construction and operational activities at the Mary River Mine Site, Tote Road, and Milne Port. Consumables, buildings, equipment and materials received at Milne Port during the sealifts that were required for the Mary River Mine Site were transported via truck via the Tote Road.
- The receipt of 25 ML of P-50 diesel fuel and 1.7 ML of Jet-A fuel via two (2) ship-to-shore floating hose fuel transfers in August and October to the Milne Port fuel steel tank bulk fuel storage facility. Fuel required for construction and operation at the Mary River Mine Site was transported via tanker truck from the Milne Port steel tank bulk fuel storage facility to the existing fuel tank farm at the Mine Site.
- The shipment off-site of various waste and hazardous materials generated over the course of the previous two (2) years for disposal in approved/licensed facilities in Southern Canada via sealift to the Port of Valleyfield, Quebec, and subsequent ground transportation to final disposal facilities.

Appendix E.4 provides shipping manifests (on-site and off-site) for 2014 and Appendix E.1 provides details of the Waste Management Program for 2014 including manifests of the waste shipped off site. (also refer to Section 2.2.4 for further details on waste shipped off site during 2014.

Community and Consultation

During 2014, Baffinland maintained and continued to operate community liaison offices in Iqaluit, Arctic Bay, Igloolik, Pond Inlet, Clyde River, and Hall Beach. In Iqaluit, Baffinland's Northern Affairs Manager oversees the Nunavut business office and the network of liaison officers. The BCLOs continue to have a wide range of responsibilities, encompassing offering information to the communities on available jobs, informing interested parties how to get hired at Baffinland, offering assistance with completing a resume, new hire paperwork and understanding site flight charter schedules, helping with training opportunities, providing updates on the progress at Mary River, and generally acting as a liaison between the local people and the Company. Baffinland also hired an IIBA Coordinator and an Office Administrator in 2014, who are both based in the Iqaluit office.

Community and government consultation also continued with a very high level of effort in 2014. Meetings were held with the public, local hamlet officials, local HTOs, local QIA representatives, and/or others in the North Baffin communities (Refer Table 10.1). Baffinland also brought local community and government representatives to visit the operations at the Mary River Project. Baffinland continued to include various agencies and Inuit in the development of monitoring and mitigation strategies.

For the purposes of further context, the Board and QIA are directed to an Annual Report submitted to the Nunavut Impact Review Board.¹

1.3 SUMMARY OF PROJECT PLANS FOR 2015

The 2015 Work Plan (was prepared and provided to relevant parties on October 31, 2014 as required under Section 6.1 of the QIA Commercial Lease and under the Type A Water Licence, Part J, Item 3. On December 12, 2014 Baffinland submitted the 2015 Work Plan Addendum ('Addendum') which was an update to the 2015 Work Plan submitted on October 31, 2014. The purpose of this Addendum was to include additional work scope for 2015 that was not captured in the October 31, 2014 submission. The additional work scope items were required to facilitate the ongoing Project as approved under amended NIRB Project Certificate No. 005, Type A Water Licence, Type B Water Licence 8BC-MRY1416, and the Type A Water Licence amendment application currently under review by the NWB.

The 2015 Work Plan describes the planned continued development and construction of infrastructure required at Milne Port, the Tote Road, and the Mary River Mine Site for the development of the Mary River Project. The 2015 Work Plan and Addendum are reproduced in Appendix C. The Plans outline the scope of the continued development and construction of infrastructure in 2015, at the Milne Port Site, Mary River Mine Site, and the Tote Rod.

For the purposes of further context, refer to the complete 2015 Work Plan documents reproduced in Appendix C.

¹ Baffinland Iron Mines Corporation, 2015. *2014 Annual Report to the Nunavut Impact Review Board*, Dated March 31, 2015.

SECTION 2.0 - WATER USE AND WASTE DISPOSAL ACTIVITIES

2.1 WATER USE

During 2014, water was withdrawn and used at the Milne Port and Mary River Mine Site under authorization of the Type A Water Licence, the Type B Construction Water Licences 8BC-MRY1314 and 8BC-MRY1416, as well as the Type B Exploration Water Licence 2BE-MRY1421. As per Type A Water Licence condition, Part B, Item 2, in cases where there were conflicts between the Type B Water Licence and the Type A Water Licence, Baffinland proceeded with the terms and conditions of the Type A Licence.

Under authorization of these Licences, fresh water was withdrawn during 2014 to sustain two key activities: potable water supply for camp use, and for miscellaneous (other) uses. In addition, a short six-hole geological delineation drilling program conducted at the Mary River Mine Site utilized fresh water from Camp Lake and a small nearby natural depression. An 11-drill hole geotechnical program at Milne Port utilized marine water for the purpose of drilling. The following sections describe water use and the associated authorized sources under the applicable water licences.

2.1.1 Methods of Obtaining Freshwater for Potable Use and Quantities of Water Used

Under the Type A Water Licence (Part E, Item 3), construction Type B Water Licence 8BC-MRY1416 (Part C, Item 1), and exploration Type B Water Licence 2BE-MRY1421 (Part C, Item 1) fresh water for domestic camp use and other purposes was obtained for Mary River Mine Site and Milne Port in 2014. Approved water intake locations for Milne Port, Mary River Mine Site, Mid Rail Camp and Steensby Port are shown on Figures 1.3, 1.5, 1.6 and 1.7 respectively. Water was not withdrawn to support the Mid Rail and Steensby Camps during 2014.

Potable water supply from Inuit-Owned Lands (IOL) for the Mary River Mine Site camp(s) was obtained using an electric pump positioned adjacent to the shoreline of Camp Lake (MS-MRY-1, Figure 1.5) in 2014. During the latter part of the year, water was withdrawn from within a wet well jetty structure. Water was pumped directly from the lake source to water storage tanks located at the exploration camp and to the newly constructed Potable Water Treatment Plant (see Figure 1.5) via heat traced water pipelines.

In 2014, potable water was supplied to the Milne Port camp utilizing a water truck to deliver water to the camp(s) via the Milne Inlet Tote Road from a location at km 32 lake (MS-MRY-3, Figure 1.3). An access road was constructed to access the alternative location MS-MRY-2 for summer water supply, but this location was not active during 2014 (MS-MRY-2, Figure 1.3).

During the exploration and early construction phase of the Project, potable water was treated prior to consumption, with filtration and UV disinfection at the Mary River Mine Site exploration camp, Milne Port camp and Steensby Port camp. Chlorination was subsequently added to the processes for the temporary Matrix Camp and permanent camps constructed at Milne Port and the Mary River Mine Site. Pump intakes were screened in accordance with the Department of Fisheries and Oceans Freshwater Intake End-of-Pipe Fish Screen Guideline (DFO Guideline) to prevent entrapment of fish as per Part E, Item 6 of the Type A Water Licence and Part C, Item 5 of the Type B Water Licences (2BE-MRY1421).

The quantity of water used in 2014, reported monthly to the NWB, was measured at each of its sources using flow meters, truck counts, or tank counts depending on the location, in accordance with the Type A Water Licence, Part I, Item 9. The total water used for domestic and industrial purposes was monitored for compliance with the maximum quantities at specified locations for various uses stipulated by the terms of the Type A Water Licence, Part E, Item 3 and from the Type B Water Licence (8BC-MRY1421) Part C, Item 1. Industrial uses for freshwater included dust suppression and concrete production at both the Mary River Mine Site and Milne Port.

In 2014 there was no exceedance of the allowable 657.5 m³/day daily water withdrawal limit for the Mine Site camp use under Type A Water Licence.

There were no exceedances in water consumption at Milne Port based on the allowable 68.5 m³/day (Type A Water Licence, Part E, Item 3) and 49 m³/day (8BC-MRY1421, Part C, Item 1) for domestic camp use, and an allowable 250 m³/day (8BC-MRY1421, Part C, Item 1) for construction or industrial purposes.

Refer to Table 2.1 for a summary of daily, monthly and annual volumes of freshwater (potable and otherwise) from IOL in camps during 2014. There was no freshwater used from Crown Lands during 2014.

2.1.2 Methods of Obtaining Freshwater for Drilling and Quantities of Freshwater Used

The 2014 geotechnical and geological delineation program is summarized in Table 1.3 and locations shown on Figure 1.8. An on-ice marine drill program was completed at the Milne Port proposed ore dock during January 2014. These on-ice drill holes utilized seawater at the collar for water supply during geotechnical drilling. In July 2014, two additional drill programs were completed, thermistor installations on land at the Milne Port ore dock, and a program on Deposit No. 1 for the proposed Mine Road and proposed waste rock stockpile. The Milne Port ore dock drill holes were immediately adjacent to the ocean and utilized seawater for water supply. The land based drill holes located adjacent to Deposit No. 1 utilized either water trucks from the local camp site (Camp Lake MS-MRY-1 source location) or a natural depression located at near Deposit No. 1.

2.1.3 Reclaimed and Recycled Water

There was no recycled or reclaimed water used for construction activities or other uses in 2014.

2.2 SEWAGE, WASTE AND GREYWATER MANAGEMENT

The current Type A Water Licence permitted the generation, storage, and treatment of sewage and greywater, at Milne Port and the Mary River Mine Site during 2014. In addition, the generation of waste at Milne Port and the Mine Site was also regulated under the same existing Type A Water Licence (2AM-MRY 1325).

2.2.1 Sewage and Grey Water Management

During 2014, Waste Water Treatment Facilities (WWTFs) with two (2) distinct technologies were used to treat sewage and greywater generated at the Mary River Mine Site. From Jan. 1st to Feb. 13th, sewage and greywater generated at the Mine Site were treated using a WWTF that had been in operation since 2008 and was equipped with fixed-film rotating biological contactor (RBC) technology and ultraviolet disinfection. During this period, the new WWTF at Mine Site was in start-up mode and in the process of being commissioned. The new WWTF at the Mine Site is equipped with Membrane Bioreactor (MBR) technology

and was designed to treat sewage and greywater generated at the Mine Site subsequent to the decommissioning of the RBC treatment plant on Feb. 13th. Refer to Figures 1.3 and 1.5, for the location WWTF and related infrastructure at Milne Port and the Mine Sites.

During 2014, sewage and greywater generated at Milne Port was treated by a MBR treatment plant that had been commissioned in the 2013.

Each MBR treatment plant consists of six (6) sea cans with each sea can housing a separate process. These processes include:

- The influent pre-treatment, which consists of screeners that remove large solids in the incoming wastewater
- The influent equalization, which is where the screened sewage is stored and aerated to suspend broken up solids,
- The mixed liquor and return activated sludge process, which is housed in the aeration tank where the biological breakdown of the wastewater occurs.
- The chemical addition process for control of pH, ammonia, and phosphorous
- The membrane bioreactor/water separation process, which is the heart of the entire process, where the water molecules are separated from the cycled activated sludge
- The disinfection process is achieved by pumping effluent from the MBR tanks through two ultraviolet lights in series to sterilize any possible pathogens that escaped the membrane process. Also contained in this process is the ability to chlorinate (and dechlorinate) any effluent in the event of a membrane malfunction or breakthrough).
- The effluent storage system, where the treated effluent is stored for removal, by means of effluent pumps or by vacuum truck withdrawal
- Sludge removal system, which is necessary to control the solids build-up in the aeration process, involving the addition of polymer to the waste sludge to bind the solids together and force them through a screen prod, creating a dried "cake", which is then collected and brought to the incinerator for disposal.

The MBR treatment plants are able to treat the influent domestic waste generated at each site to the criteria stipulated by the Type A Water License and target levels presented in the current *Fresh Water Supply, Sewage and Wastewater Management Plan*².

At both the Mine Site and Milne Port, Polishing Waste Stabilization Ponds (PWSPs) are in place to receive treated sewage effluent not meeting criteria for direct discharge to the receiving environment. The use of PWSPs allows for confirmatory testing and, if required, polishing treatment, prior to final discharge. There are currently three (3) PWSPs located near the Mine Site Exploration Camp (MS-MRY-4) and one (1) PWSP at Milne Port. The Milne Port Exploration PWSP (MP-MRY-5A) was decommissioned in October 2014 to allow for the construction of the Ore Stockpile Pad.

² Baffinland Iron Mines Corporation – Mary River Project: Fresh Water Supply, Sewage and Wastewater Management Plan, dated January 2014.

From Jan 1st to Feb 13th, effluent generated from the RBC treatment plant and new MBR treatment plant at the Mine Site did not meet direct discharge criteria outlined the Type A Water License and, therefore, was transferred to the Mine Site PWSPs for storage and possible further treatment in the spring. The off-spec effluent generated from the treatment plants was due to the start-up process during this period which caused upset conditions and heavy loadings in both plants. Following this period, the MBR treatment plant at the Mine displayed relatively stable conditions and effluent quality that met direct discharge compliance criteria for the remainder of the year.

Direct discharge lines for transporting the treated effluent from MBR treatment plants to the final discharge locations were commissioned in the spring and fall of 2014 at Milne Port and the Mine Site, respectively. Treated effluent from the MBR treatment plants was transported to final discharge locations by vacuum truck prior to the commissioning of the discharge lines. Due to technical issues (problems with the heat trace), the discharge line at Milne Port was shut down in October for the winter and is currently not in use. The treated effluent from MBR treatment plant at Milne Port is currently being transported and discharged to Milne Inlet using a vacuum truck at the approved discharge location.

The Mine Site MBR treatment plant commenced direct discharge to the receiving environment on February 14th. Direct discharge to the receiving environment commenced only once treated effluent quality was confirmed, by both internal field monitoring and external laboratory analyses. Confirmation consisted of meeting applicable discharge criteria established in Type A Water Licence (Part F, Item 18). Subsequent to February 14th, the Mine Site MBR treatment plant discharged exclusively to the approved location near Mary River for the remainder of 2014. The Milne Port MBR treatment plant continued to directly discharge to Milne Inlet during the entire year of 2014 and displayed relatively stable conditions throughout 2015.³ Tables 2.6 and Table 2.7 of this report provide the water quality chemistry and toxicity results (respectively) for the sewage treatment plant facilities in 2014. The toxicity testing results from sewage treatment facilities and PWSPs were consistently reported as non-lethal.

Throughout the summer season of 2014, the treated effluent contained in the existing PWSPs at Milne Port and the Mary River Mine Site was sampled for water licence effluent discharge parameters. When treated effluent was confirmed to meet the effluent discharge criteria the following discharges occurred:

- At the Mary River Mine Site, 1242.7 m³ of treated effluent was discharged from the Mine Site PWSP no.3 (MS-MRY-4C) to Sheardown Lake in June 2014.
- At Milne Port, 1703.9 m³ of treated effluent was discharged from the Milne Port PWSP (MP-01A) to Milne Inlet in July 2014.
- At the Mary River Mine Site, 1767 m³ of treated effluent was discharged from the Mine Site PWSP No. 2 (MS-MRY-4B) to Sheardown Lake in August 2014.
- At Milne Port, 584 m³ of treated effluent was discharged from the Milne Port PWSP (MP-01A) to Milne Inlet in early September 2014.

An ambient water quality monitoring program for Sheardown Lake, David Lake, Mary Lake, and Camp Lake was conducted during the late spring (under ice) and summer. The results of that program indicated that water quality parameters were similar to previous years and pre-discharge baseline conditions.

³ The Milne Port MBR treatment plant commenced direct discharge to Milne Inlet on October 10, 2013.

The Bruce Head camp was active from late July to mid-September, 2014 and utilized latrine toilets. The wastes collected at Bruce Head were either disposed at the Milne Port incinerator or stored in overpack drums and backhauled offsite to a licensed disposal facility during the 2014 sealift. Greywater generated at the Bruce Head camp was directed to a temporary sump near the tent camp.

2.2.2 Treated Sewage Effluent Discharged at Wastewater Treatment Facilities (WWTFs)

The monthly and annual quantities of treated sewage effluent discharged at the Mary River Mine Site and Milne Port Camp WWTF's during 2014 are presented in Table 2.3. The treated sewage originated from the following sources (with sample IDs designated by the Type A Water Licence).

- Mary River Mine Site PWSPs (MS-MRY-4A, B, & C)
- Mary River Mine Site MBR Plant (MS-01)
- Milne Port Exploration PWSP (MP-MRY-4A)
- Milne Port PWSP (MP-01A)
- Milne Port MBR Plant (MP-01).

2.2.3 Sludge Removed From WWTFs

During 2014, dewatered sludge (cake) was removed daily from the Mine Site and Milne Port MBR treatment plants and transported to camp incinerators for disposal. The volume of removed cake at both sites is provided in Table 2.3.

2.2.4 Solid Non-Hazardous and Hazardous Waste Management

Camp Incinerators

In 2014, both the Mary River Mine Site and Milne Inlet Port Site new incinerators were operated throughout the year. The Mary River exploration phase incinerator was operated until February. The Milne Inlet exploration phase incinerator was decommissioned at the end of 2013 and was not operated in 2014.

The two (2) new containerized, custom-sized, two-stage, controlled air, batch style incinerators are specifically designed for northern remote camp operations and to comply with the Environmental Guideline for the Burning and Incineration of Solid Waste⁴ and regulatory guidelines including Canadian Wide Standard (CWS) for Mercury and Dioxin/Furan point source air emissions. They achieve point source air emission objectives through a design that provides consistent two stage incineration at high temperatures. In the first stage, the wastes are converted into burnable gases in the primary chamber at approximately 650-850 °C. At this temperature, any potential infectious material is destroyed. This process is self-fuelling until the mass is reduced by at least 90%. During the second stage of the incineration process, the gases generated in the primary chamber enter the secondary chamber. The secondary chamber is oxygen rich with turbulent conditions. The temperature in the second chamber is greater than 1000 °C. Combustion is complete after a minimum one (1) second retention time however design allows for up to two (2) seconds

⁴ Government of Nunavut - Environmental Guideline for the Burning and Incineration of Solid Waste by the Department of the Environment, 2012

retention time. Due to these conditions, the hot gases are completely converted into water vapour and carbon dioxide, which is then released into the air.

To ensure that the new incinerators are operating as designed, continuous process monitoring is conducted during incinerator operations that monitor temperature in the primary chamber, secondary chamber and stack; system pressure and fuel level. As an additional measure to ensure emission objectives are met, Baffinland retained A. Lafranco & Associates Inc. to perform emission compliance surveys or stack tests on the newly installed Milne Port Incinerator in October 2013 and the new Mary River Mine Site incinerator in December 2013. Refer to the 2013 Annual Report to the Nunavut Impact Review Board (NIRB)⁵ for further details and discussion of results.

Before disposal in the Mary River landfill, residual bottom ashes from the incineration process in the newly installed incinerators at Milne Port and Mary River are tested using Toxicity Characteristic Leaching Procedure (TCLP) analysis, as required by Type A Water Licence (Part F, Item 8). The goal of the TCLP analysis is to verify that deposition of residual bottom ashes in the Mary River Mine Site landfill from a typical waste stream using the new incineration technology do not generate leachate at concentrations above water licence water quality criteria. TCLP analytical results for composite ash samples were found to be acceptable in comparison to relevant guidelines. Although TCLP testing on residual bottom ash demonstrated no adverse leachate potential so far, if standards are not met in future, ash shall be treated on-site (if possible) or shall be transported for offsite disposal at a licensed facility in Southern Canada.

As recommended by the Nunavut Environmental Guideline for the Burning and Incineration of Solid Waste, written records are kept of date and volume of burnt waste. Quantity, content, condition, dates of sampling, analysis and disposal, as well as results of analysis are kept of residual bottom ashes. The analytical results of historic as well a recent ash is presented in Appendix E.2 of this report.

Non-Hazardous Landfill Facility

The approved non-hazardous landfill facility at the Mary River Mine Site was operational during 2014. Debris consisting of inert materials that was generated by overall activities was sorted and disposed of in the landfill facility in accordance with the approved landfill operations manual. The key points regarding waste segregation and procedures related to disposal of inert material in the landfill were routinely communicated to camp personnel. These training initiatives coupled with periodic landfill monitoring activities were important tools in minimizing environmental incidents related to landfill operations. In addition, a gate is installed on the landfill access road to restrict unauthorized personnel from having access to the landfill site. As of September 2014, the in-total in situ volume of waste deposited in the landfill was approximately 4498 m³. The approximate quantity of solid non-hazardous waste deposited in the Mary River Mine Site landfill during the October to December period was 2520 m³. This estimated volume was based on survey data and the methods and assumptions used were similar to those of previous years.

Hazardous Waste Materials Handling and Disposal

Between August and October 2014, there were 3 sealift backhauls of non-hazardous and hazardous waste materials. Waste materials generated since September 2013 (the date of the last backhaul) were collected,

⁵ 2013 Annual Report to the Nunavut Impact Review Board (NIRB). Prepared by Baffinland Iron Mine Corporation, submitted March 31, 2014

packaged, and transferred to Milne Port for shipment via sealift to licenced waste receiving facilities in Southern Canada. Hazardous waste and materials from the Project were packaged, stored, and manifested at Milne Port under the direction of Sanexen Environmental Services Inc.

Non-hazardous waste and hazardous waste materials back-hauled off site in 2014 regulated by the Transportation of Dangerous Goods Act (TDGA) included (in alphabetical order):

- Ammonium Nitrate
- Compressed gas cylinders
- Gasoline
- Paint
- Waste aerosol cans
- Waste Flammable Liquids
- Waste fuel
- Wet-acid batteries and dry batteries (containing potassium hydroxide).

Non-hazardous waste and hazardous waste materials back-hauled off site in 2014 not regulated by the TDGA included (in alphabetical order):

- Contaminated ash
- Contaminated oily solids
- Contaminated soil
- Contaminated water
- Electrical waste (e-waste)
- Inorganic, solid
- Kitchen grease
- Lab Waste
- Oil Filters
- Oily Water Separator (OWS) activated carbon
- Organic liquid
- Waste glycol
- Waste oil.

Refer to Appendices E.1 and E.4 for more details on Baffinland's waste management program and shipping manifests showing what was shipped offsite during 2014. Appendix E.1 also provide certificates of recycling/destruction provided by the waste receivers from Southern Canada.

Additional hazardous waste and waste material (designated for disposal off-site) that was generated subsequent to the last 2014 sealift backhaul were sorted and stored in designated areas where it will be packaged and prepared for backhaul during the 2015 sealift.

Hazardous materials and hazardous waste are handled on-site as described in the updated Hazardous Materials and Hazardous Waste Management Plan (BAF-PH1-830-P16-0011).

Figures 1.3 and 1.5 show the locations for the following waste management facilities at Milne Inlet and Mary River Mine Site camps, respectively:

- Waste management facilities and camp incinerators
- Landfill and access road (Mary River only)
- Lined hazardous waste containment areas.
- Landfarm (Milne Inlet only).

Table 2.4 provides coordinates for various temporary and permanent waste storage areas used during 2014.

Open Burning

The disposal method for untreated wood, cardboard, and paper products generated on-site is open-burning. This method reduces the volume of inert waste disposed of in the landfill. Open burning was conducted throughout 2014 when required.

Waste that is destined for open-burning was segregated as part of operating procedures to ensure that only appropriate materials were burned. Secondary waste segregation occurred during the loading process of the burn cans. Locking gates have been installed to restrict the access to these areas to authorized personnel only, in much the same manner as the landfill. Also, clear signage has been posted at the burn locations outlining both acceptable and unacceptable waste types for the open burn facilities as well as the Baffinland's standard operating procedure for Open Burning. This did in turn reduce the possibility of unauthorized deposition of unacceptable wastes to the locations, which could have inadvertently been introduced into the burn. Open burning occurred only with a permit that was current and in good standing and that covered the period required and operators will be trained on the specific requirements necessary to maintain compliance.

Bottom ash from the open burning of paperboard packing and untreated wood waste is suitable for burial in the landfill. Ash was removed from the open burn boxes, generally on a weekly basis, and was allowed to cool prior to placement in the landfill.

Landfarm Facility

BIM completed the construction of a landfarm in August 2014 at Milne Port. The facility consists of two geomembrane lined containment cells. The larger west cell is used as a landfarm for the biotreatment of soils contaminated by hydrocarbons from spills. The smaller east cell is used primarily for the containment of hydrocarbon contaminated snow collected during winter operations. The contaminated soils have been placed and spread during summer months for remediation through natural microbiological and evaporative processes.

Other Waste Management Initiatives

During 2014, frequent training sessions were provided for on-site personnel so that they could become more familiar with Baffinland's waste management strategy and procedures. In addition, every employee on-site receives this information during their initial site orientation.

The recovery of energy from waste is an important initiative to minimize the generation of waste. As camp sites are dependent on diesel fuel transported to site via tankers, energy produced from waste materials can reduce reliance on diesel and by reducing waste shipments and disposal requirements. The largest source of energy recovery from waste is from waste diesel, aviation fuel, or used oil which are used as heating fuels for some facilities at the Mary River Mine Site and Milne Port. In addition, the newly installed incinerators at Mary River Mine Site and Milne Port utilize a waste oil burner in an effort to dispose of some of the waste oils available at each location and function as a fuel source to operate the incinerator systems. This burner will not only dispose of the waste oils in an environmentally sound manner, but will also decrease the daily operating costs, by decreasing the amount of diesel fuel consumed.

As in previous years, dedicated waste sorting locations are established in lined containment areas at the Mary River and Milne Inlet Camps to ensure adequate and secure segregation of waste materials.

Waste Management Facilities

In 2014, Baffinland completed the construction of and commissioned two heated and enclosed Waste Management Facilities (WMFs), one for each site. These WMFs provide a dedicated sorting location for waste streams year-round, minimizing contamination in the disposal streams. WMFs also function to house other waste handling equipment and activities (i.e. sorting area, drum crusher, aerosol de-pressurizer etc.) as well as access to the incinerators critical components for maintenance and repair needs.

2.2.5 Ore & Waste Rock Quantities

Production blasting in the Deposit No. 1 Pit (Nuluujaak Pit) began on August 27th, 2014 and the production of crushed ore beginning on September 8th, 2014. The first load of production ore delivered to Milne Port occurred via the Tote Road (Figure 1.4) on September 8th, 2014 as well. Throughout 2014 operations 59,089 BCM of ore and 41,452 BCM of waste rock were produced respectively. The waste rock that was generated during 2014 was analytically tested and determined to be not Potentially Acid Generating (PAG). The waste rock was therefore used for construction purposes. The results of the geochemical operational testing program are provided in Section 4.0 and Appendix E.5. The monthly totals for ore produced as well as waste rock used or disposed of are presented in Table 2.4.3 of this report.

2.3 WATER QUALITY OF WATER LICENCE MONITORING LOCATIONS

Results from the Water Licence Monitoring Program (Surveillance Network Program or SNP) were provided in monthly reports to the NWB, and in accordance to the terms of the Type A Water Licence (Part I, Item 21). SNP monitoring locations are presented in Figures 1.3, 1.5 and Table 2.5, and the water quality results for these locations are provided in Table 2.6 in accordance to the Type A Water Licence (Part I, Item 27). Surface mining operations of Deposit No. 1 commenced in late August 2014 with the first load of ore reaching Milne Port on September 8, 2014. The Surface Water Management Ponds (East and West) were

constructed during August and September. Due to cold temperatures and frozen conditions commencing in September, there was no effluent discharged from Surface Water Management (SWM) Ponds.

2.3.1 Raw Water

The quantity of water used in 2014, reported monthly to the NWB, was measured at each of its sources using flow meters, truck counts, or tank counts depending on the location, in accordance to Type A Water Licence (Part I, Item 9). The total water used for domestic and industrial purposes, for the Mary River Mine Site and Milne Port, was monitored for compliance with the maximum quantities at specified locations for various uses stipulated by the terms of the Type A Water Licence and Type B Water Licence (8BC-MRY1416). The details of monitored water quantities for 2014 are provided in Table 2.1. The importance of water conservation was one area of focus in training and awareness sessions delivered by supervisors to employees and contractors throughout 2014.

In 2014 there was no exceedance of the allowable 657.5 m³/day daily water withdrawal limit for the Mine Site camp use under Type A Water Licence (Part E Item 3). There were also no exceedances in water consumption at Milne Port based on the allowable 68.5 m³/day (2AM-MRY1325, Part E, Item 3) and 50 m³/day (8BC-MRY1416, Part C, Item 1) for domestic camp use, and an allowable 249 m³/day (8BC-MRY1416, Part C, Item 1) for construction or industrial purposes.

Periodic water quality sampling and analyses of potable water sources were undertaken in accordance with applicable health-related potable water quality standards. The qualities of the potable water sources for the Mary River Project were well within applicable potable water standards.

2.3.2 Sewage Disposal

Mary River Mine Site

From Jan 1st to Feb 13th, effluent generated by the Mine Site RBC treatment plant (RBC) continued to be discharged to the Mine Site PWSPs while the new Mine Site MBR treatment plant was being commissioned and operating in start-up mode. During this period, treated effluent from the Mine Site MBR treatment plant was also directed exclusively to the Mine Site PWSPs.

Beginning in February, the Mine Site MBR treatment plant began generating effluent compliant with the direct discharge criteria outlined in the Type A Water License and commenced discharging to the receiving environment at the approved location near Mary River on February 14th, at which time; the Mine Site RBC treatment plant was taken out of service and decommissioned. Direct discharge to the receiving environment commenced only once treatment was working effectively and treated effluent was confirmed, by both internal and external results and following established QA/QC procedures, to have met discharge criteria. The Mine Site MBR treatment plant continued to produce and discharge compliant effluent to the receiving environment for the remainder of the year.

In accordance with the PWSP treatment and discharge strategy as presented in the approved the Fresh Water Supply, Sewage and Wastewater Management Plan⁶ under the Type A Water Licence, treated effluent stored in PWSPs No. 2 (MS-MRY-4B) and PWSP No. 3 (MRY-4C) was discharged to Sheardown

⁶ Baffinland Iron Mines Corporation – Mary River Project: Fresh Water Supply, Sewage and Wastewater Management Plan dated January 2013. Plan submitted to the NWB in January 2013.

Lake via the constructed pipeline and outfall. Treated effluent from the Mine Site PWSPs were sampled during treatment and discharged to Sheardown Lake during June and August in accordance to criteria established the Type A Water Licence under Part F, Item 18. During the June to August discharge period, effluent from MS-MRY-4B and MS-MRY-4C was below or within prescribed water licence criteria and was demonstrated to be acutely non-toxic⁷. Refer to Table 2.7 which presents acute toxicity testing results for 2014.

Milne Port

During 2014, treated effluent from the Milne Port MBR treatment plant (MP-01) continued to be discharged to Milne Inlet. The MBR treatment plant at Milne Port operated compliantly during 2014 and consistently produced effluent quality that was within direct discharge criteria outlined in the Type A Water License.

In accordance with the PWSP treatment and discharge strategy as presented in the approved Fresh Water Supply, Sewage and Wastewater Management Plan, treated effluent stored in the Milne Port PWSPs (MP-01A) was discharged to Milne Inlet during July and early September. Effluent from discharged from MP-01A was below or within the prescribed water licence criteria and was acutely non-toxic. Refer to Table 2.7 which presents acute toxicity testing results for 2014.

Steensby Camp

Steensby camp was not operational during 2014.

Refer to Section 2.2.1 for further discussion of sewage treatment at the Mary River Project during 2014.

2.3.3 Storm Water from Containment Areas

Prior to discharge of storm water from the lined containment areas servicing the bulk fuel storage facilities and hazardous waste berms at Milne Inlet and Mary River, in accordance to Type A Water Licence (Part F, Item 10), accumulated stormwater from rain and snow must be tested and treated if required to conform with Type A Water Licence (Part F Items 21 or 23) effluent water quality limits. These criteria have been established in the water licence to protect receiving waters from the discharge of residual hydrocarbons, and associated contaminants that may be present. Table 2.2 highlights monthly quantities of treated oily water discharged in 2014, while Table 2.6 presents the external laboratory effluent analytical results for the Oily Water Treatment System (OWS).

Baffinland purchased a new mobile Oily Water Treatment System (OWS) in 2014; it was commissioned by NewTerra in early June. The mobile OWS is a modular unit within an enclosed c-can for easy transport. The system was also designed to sustain high flow rates and larger volumes of filter media allowed for increased treatment capacity. The system operated at 18 to 44 GPM, depending influent quality and other factors.

At the Mary River Mine Site Camp, the mobile OWS was used to process hydrocarbon impacted water from the Mary River Fuel Bladder Farm. Prior to this, fuel skimming operations had been employed in the berm from May 31, 2014 to June 16, 2014, utilizing an Elastec American Marine TDS118 drum skimmer to remove 43 m³ of free product released as a result of a compromised Jet A fuel bladder. The free product that was collected was stored in drums and contained in a hazardous waste berm.

⁷ Toxicity testing samples were collected and analyzed in accordance with Environment Canada's Environmental Protection Series Biological Test Methods EPS/1/RM/13 and EPS/1/RM/14 for acute lethality to Rainbow Trout and *Daphnia magna*.

On June 20, 2014, the mobile OWS commenced operation at the Mary River Mine Site. The treatment system effectively removed the organic constituents of 'oil and grease' to "non-detect" concentrations which were acceptable for discharge. Periodic scheduled sampling and analysis of the total oil and grease (TOG) concentration of effluent by independent laboratory and daily by means of a field TOG analyser confirmed compliance, in accordance to the Type A Water Licence, Part F Item 23, (refer to Table 2.6). On July 3, 2014, the mobile OWS operation was shut down at the Mine Site for the season. Approximately 617 m³ of effluent was released to the receiving environment to the adjacent ground surface, infiltrating into the soil (Table 2.2). There was no direct discharge or pathway to the nearest aquatic receiving environment which was located more than one kilometre to the south (Sheardown Lake).

A total of approximately 22.4 m³ of stormwater from the Mary River Mine Site Tank Farm was discharged to the adjacent land in preparation for winter to reduce ice build-up in containment berm. No treatment was necessary as analytical testing of the stormwater indicated that the Stormwater met water licence effluent criteria.

The installation of the permanent fuel storage tanks in 2013 at Milne Port removed a large source of impacted Stormwater and the resultant need for the large scale multi barrier OWS system. Due to the decommissioning of the Milne Inlet Fuel Bladder Farm, there was relatively small volumes of accumulated stormwater, compared to previous years. The hazardous waste berms, did accumulate some stormwater and required some treatment during 2014 by means of the mobile OWS. There was little accumulated Stormwater in the Milne Inlet Fuel Tank Farm due to natural evaporation.

On July 7 2014, the mobile OWS commenced operation at Milne Port to treat accumulated oily water in hazardous waste berms. The treatment system effectively released approximately 154 m³ effluent to the receiving environment of the adjacent ground surface, infiltrating into the soil. There was no direct discharge or pathway to the nearest aquatic receiving environment which was located more than 350m to the North (Milne Inlet). Periodic scheduled sampling and analysis of the total oil and grease (TOG) concentration of effluent by independent laboratory and daily by means of a field TOG analyser confirmed compliance, according to Type A Water Licence (Part F Item 21), throughout the operation of the treatment plant (refer to Table 2.6). On July 15, 2014, the Mobile Oily Water Treatment System shut down for the season. Sample results indicated that there were no exceedances of discharge limits. Two bladders contained in the hazardous waste berms comprise the remainder of oily water stored at Milne Port at the end of 2014.

A total of 771 m³ of effluent was treated by the mobile Oily Water Treatment System in 2014 at both the Milne Port and Mary River Mine sites.

2.3.4 Seepage

In accordance to the terms of Type A Water Licence (Part I, Item 22) and Type B Water Licence (8BC-MRY1416), Part J, Item 2, surface run-off/ seepage from the bulk sample pit, waste and ore stockpiles (from 2008 Bulk Sample Program) and non-hazardous landfill was monitored during periods of flow. The monitoring locations are presented in Figure 1.5 and in Table 2.5. New surface run-off/ seepage monitoring stations will need to be created for spring 2015 to monitor new production waste rock, crusher stockpiles, and ore stockpiles. In 2014, there was little discernible surface discharge from many of the monitored areas due to a combination of porous soils, and likely the cold temperatures within the small volume of bulk sample ore and waste rock piles that would tend to freeze infiltrating precipitation. Based on hydrological

monitoring of nearby streams, peak flows during 2014 were lower than in previous years. After major rainfall events in the summer, areas down gradient from the bulk sample pit and ore/waste stockpiles were monitored for potential seepage and runoff flows. Based on observed conditions during the summer of 2014, surface water/ seepage discharge samples were obtained from sample stations MS-MRY-9, MS-MRY-10, MS-MRY-11 and MS-MRY-13. A summary of the monitoring stations and sampling events is provided below:

- Station MS-MRY-9 represents water flow/ seepage from the 2008 Bulk Sample pit. During 2014, flows were observed and two (2) samples were collected on July 28 and September 1.
- Station MS-MRY-10 represents the samples collected from the 2008 Bulk Sample weathered ore stockpile located adjacent to the bulk sample pit. The stockpile is located near an existing drainage pathway and water naturally collects there. The samples represent surface runoff from the general area with a minor run-off/ seepage component from the stockpile. In 2014 flows were observed and four (4) samples were collected from this location on July 8, July 14, July 28 and September 1.
- Station MS-MRY-11 represents surface runoff from the 2008 Bulk Sample coarse and fine ore stockpiles at the Mary River Mine Site. The majority of these stockpiles were removed or capped due to construction and development of the area. In 2014, two (2) sample were collected for analysis on August 5, and September 1.
- Station MS-MRY-12 represents runoff/seepage originating from the Milne ore stockpile. No surface/seepage flows were observed during 2014 due to dry conditions, slow melt, and porous soils. The Milne Port ore dock and ore pad construction has impacted this area and this monitoring location is now within the footprint of these new facilities. The new Milne Ore Stockpile was actively receiving ore as of September, subsequent to the onset of frozen conditions.
- Station MS-MRY-13a and 13b represent the surface runoff sample locations for the Mine Site Landfill. In 2014, steady low flows were observed through July and August, allowing for weekly samples at both monitoring locations.

In accordance to the terms of Type A Water Licence, Part I, Item 27, the water quality results for these locations are provided in Table 2.6 and are compared to their applicable water licence discharge criteria. On July 14, 2014, an exceedance of total suspended solids (TSS) was recorded at monitoring location MS-MRY-13a. This exceedance is likely attributed peak freshet occurring during this time frame for this area or there may have been some disturbance of the streambed during sampling. Subsequent sampling events at this location yielded results that did not exceed TSS limits. All other sampling events for the monitoring stations indicated no exceedances of discharge limits. Based on a review of the other parameters analyzed there was no indication of deleterious impact from landfill leachate.

2.3.5 Surface Runoff and/or Discharge downstream of Construction areas and Quarries

In accordance to the terms of Type A Water Licence (Part I, Item 25), surface runoff and/or discharge was monitored at stations established downstream of construction and operation areas at Milne Port and the Mary River Mine Site. Surface discharge monitoring locations are presented in Figures 1.3 and 1.5, and in Table 2.5. In accordance to the terms of Type A Water Licence (Part I, Item 27), the water quality results for these locations are provided in Table 2.6 and are compared to applicable water licence discharge criteria.

Daily discharge volumes were also measured where practicable at or near the surface runoff monitoring locations. These flow data and the methods used are presented in Appendix E.3.

Water quality exceedances of Type A Water Licence criteria and follow-up actions are described below:

- On May 31, 2014, an exceedance of total suspended solids (TSS) was recorded at monitoring location MS-C-E at the Mine Site (refer to Table 2.6). This exceedance was likely caused from runoff from the first melt of tote road snow banks potentially containing some sediment. In accordance with Type A Water Licence (Part D, Item 22), silt fences were installed after detection to effectively reduce the impacts of sedimentation at the discharge location.
- Sample Station MP-Q1-02 (Milne Port quarry runoff) showed a non-compliance for total suspended solids on June 30, 2014 (290 mg/L). Silt fences erected and upstream work was completed to minimize impacts.
- On July 7, 2014, an exceedance of total suspended solids (TSS) was recorded at monitoring location MP-C-A at the Mine Site (refer to Table 2.6). This exceedance is likely attributed to the fact that this discharge point is directly downstream to the ore dock which was being developed around this time and has now eliminated this sampling location. A silt curtain was also installed around the ore dock during times of construction to mitigate against the potential for sedimentation plumes. Other surface discharge and/ or runoff water quality samples in 2014 were in compliance with applicable water quality limits.
- On July 14, 2014, an exceedance of total suspended solids (TSS) was recorded at monitoring location MS-MRY-13a., downstream from the Mine Site Landfill Facility. This exceedance was either attributed to high freshet flows observed at this time, or possibly due to disturbance of the stream bottom during sampling.

Hydrology monitoring around the Mine Site during 2014 indicated that the total runoff at the mine site during the 2014 season was greater than most previous years, however, peak flows were not as high as previous years and freshet flows started later than normal and were longer in duration. This potentially contributed to variability in the suspended solids results over a longer time period than in previous years at monitoring locations.

Refer to Baffinland's Surface Water and Aquatic Ecosystems Management Plan (Baffinland Document No. BAF-PH1-830-P16-0026) which details the best management practices that are implemented as required to mitigate the impacts of sedimentation and erosion on the receiving waters, aquatic ecosystems, fish and fish habitat areas within the Project Development Area (PDA).

In accordance to the terms of Type A Water Licence (Part I, Item 23), runoff and/ or discharge water quality monitoring from borrow pits and Quarry Sites was conducted during 2014. In accordance to the terms of Type A Water Licence (Part I, Item 27), results of sampling downstream from Quarry Q1 at Milne Port and Quarry QMR2 at the Mary River Mine Site are presented in Table 2.6 and are compared to applicable water license criteria. The monitoring locations are presented on Figures 1.3 and 1.5, and Table 2.6. In accordance to the terms of Type A Water Licence (Part I, Item 23), acute toxicity testing was also performed at surface runoff and/ or discharge locations from the Quarry Q1 at Milne Port and the Quarry QMR2 at the Mary River Mine Site during 2014 and results are presented in Table 2.7 of this report. A review of the water quality results indicate that results were below water licence criteria and were not acutely toxic.

2.3.6 Field Quality Assurance and Quality Control (QA/QC)

Water quality samples related to monitoring programs being carried out in support of Baffinland's Mary River Project are presented in Table 2.6 of this report. Samples collected for testing follow the general recommendations presented in *Quality Assurance (QA) and Quality Control (QC) Guidelines for use by Class A Licensees in Meeting SNP Requirements and for Submission of a QA/QC Plan* (INAC, 1996).

Field QA/QC procedures adopted by the Mary River Project are described in detail in Baffinland's Surface Water Sampling Program – Quality Assurance and Quality Control Plan (BAF-PHI-830-P16-0001). The field QA/QC samples consist of the collection of field duplicates, field blanks, and the use of travel blanks. A minimum of ten percent of samples collected in 2014, comprise the field QA/QC analyses presented in Table 2.8 of this report.

Laboratory analysis of water samples was carried out by four accredited analytical laboratories in 2014. A laboratory operated by Exova Canada Inc. ('Exova') and located in Nepean, Ontario carried out the majority of sample analyses in 2014 due, in part, to its geographical proximity to site (with respect to sample holding times). Toxicity testing was conducted by an Exova laboratory located in St. Augustin de Desmaures and an accredited lab operated by the ASI Group in St. Catharines. Beginning and subsequent to November 2014, laboratory analysis of water samples was conducted by accredited laboratories operated by the ALS Laboratory Group (ALS) located at the Mary River Mine Site⁸ and Waterloo, Ontario.

The results for the field QA/QC results are generally acceptable. There is some variation in field duplicates as indicated by percent differences of greater than 50% on occasion. Eliminating field duplicates for results close to analytical detection limits, percent difference of greater than 50% was reported for ammonia (MP-01 and MS-01 on January 2 and March 4, respectively) and Total Kjeldahl Nitrogen (MS-01 on March 4). The above samples were treated sewage effluent and variation seen in the field duplicates for this type of monitoring can be attributed to normal variability in the effluent stream.

The laboratory QA/QC program consists of daily quality checks used for specific analytical methods and analytical method calibration. The daily quality control checks include daily calibrations, calibration verification, replicate analyses, blanks, and spikes. The analytical method calibration is achieved by the use of reagent blanks, and an adequate number of matrix matched standards to define calibration range and linearity. The laboratory QA/QC data is reported in individual analytical certificates and the analytical results must lie within established QA/QC criteria prior to being issued to Baffinland.

2.3.7 Aquatic Effects Monitoring Program (AEMP)

The Aquatic Effects Monitoring Plan (AEMP) document was submitted to the NWB and QIA for review on June 27, 2014.⁹ The AEMP describes how monitoring of the aquatic environment will be undertaken at the Mary River Project. The AEMP was identified as a follow-up monitoring program in Baffinland's Final Environmental Impact Statement (FEIS; Baffinland, 2012) and is prescribed by the Type A Water Licence. The AEMP is a monitoring program designed to:

⁸ Operations of the Mary River Mine Site accredited laboratory operated by ALS Laboratory Group began in September 2014.

⁹ Baffinland Iron Mines Corporation. 2014b. Mary River Project – Aquatic Effects Monitoring Plan, Rev. 0. June 27, 2014.

- Detect short-term and long-term effects of the Project's activities on the aquatic environment resulting from the Project;
- Evaluate the accuracy of impact predictions;
- Assess the effectiveness of planned mitigation measures; and
- Identify additional mitigation measures to avert or reduce unforeseen environmental effects.

The AEMP focuses on the key potential impacts to freshwater environment valued ecosystems components (VECs), as identified in the Final Environmental Impact Statement and Addendum for the Early Revenue Phase (ERP). The freshwater VECs include water quantity, water and sediment quality, and freshwater biota and fish habitat. The AEMP has been structured to serve as an overarching 'umbrella' that conceptually provides an opportunity to integrate results of individual but related aquatic monitoring programs.

The AEMP targets flows, water and sediment quality, primary productivity (phytoplankton), benthic community structure and fish (specifically Arctic Char) within the streams and lakes potentially affected by project activities. Development of individual monitoring programs/studies under the umbrella AEMP has allowed for the application of a common platform in terms of study design and sampling protocols.

The following are the component studies that comprise the AEMP:

- Environmental Effects Monitoring (EEM) Program, as required under the Metal Mining Effluent Regulations (MMER);
- Core Receiving Environment Monitoring Program (CREMP), which includes monitoring of the core mine site area (water, sediment, benthic invertebrates and fish);
- Lake Sedimentation Monitoring Program, evaluating baseline and project-influenced lake sedimentation rates;
- Dustfall Monitoring Program, evaluating dustfall rates in proximity to the road, port and mine; and
- Stream Diversion Barrier Study, an initial study evaluating potential for fish barriers under natural conditions and due to Project-related stream diversions.

The AEMP report for 2015 which presents the results of the above studies is provided in Appendix E.10 of this report.

SECTION 3.0 - CONSTRUCTION ACTIVITIES

Upon receipt of the of the approved amendment of Project Certificate No.005 on May 28, 2014, Baffinland proceeded with the development of a nominal 4.2 million tonnes per annum (Mt/a) road haulage operation from the Mary River Mine site to Milne Port for shipping of iron ore during the open water season. The Type A Water Licence and new Type B Water Licence No. 8BC-MRY1416, issued August 6, 2014, provided the authorization for the following undertakings and/or activities to be carried out in support of ongoing ERP construction efforts:

- Use of 299 m³ per day of water for domestic and industrial purposes at Milne Port during construction activities related to the ERP of the wider Mary River Project including earthworks, laydown areas, concrete production, and dust suppression along the Milne Tote Road;
- Continued operation and the Port Site Weather Haven (former Matrix Camp) erected in 2013 for construction activities and expansion of the camp to support additional manpower during the construction phase at Milne Port;
- Construction and eventual operation of an additional Waste Stabilization Pond at Milne Port;
- Construction of Ore Stockpile areas and associated sedimentation ponds, permanent Ore Dock, Ship loading facilities and associated earthworks activities, ore reclaiming conveying equipment, at Milne Port; and
- Deposit of waste during construction activities.

Prior to the commencement of construction activities, Issued for Construction drawings were submitted to the NWB and QIA in accordance with the Type A Water Licence (Part D, Item 2). A list of these submissions are provided in Appendix D.1.

Construction activities specific to 2014 ERP work scope consisted of the following activities at Milne Port:

- Commencement of construction of a causeway and ore dock that extend into offshore waters. The causeway and ore dock platform to be built up with aggregate and suitable dredged material;
- Dredging to maintain the required vessel draft depths and for placement of caissons, in the location of the dock and required installation of a silt curtain installed around the extent of the dredging activities – to take place in 2015;
- Construction of concrete and steel pile foundations onto the rock filled causeway and ore dock to support the ship loader and related ship loader facilities;
- Installation and commissioning of the ship loader onto the ore dock foundations – ongoing activities into 2015;
- Construction and commissioning of an ore stockpile pad;
- Installation and commissioning of the ore stacker reclaim conveyor system within the ore stockpile pad; and

- Construction of two (2) ore stockpile settling ponds - Pond No. 1's (west pond) capacity 2,660 m³ ; and Pond No. 2's (east pond), capacity 2,800 m³.

Milne Port stockpile settling ponds were constructed in June – August 2014. The purpose for the ponds was to temporarily retain the runoff water from the Milne Port stockpile area once ore stockpiling commences. The runoff water will be discharged once water quality criteria are met. The liner for each pond was installed in August 2014.

Further to the activities completed as part of the 2014 ERP Work Scope, additional construction activities at Milne Port included: ongoing development of Quarry Q1 to generate crushed and screened aggregate; the continued construction of equipment laydown areas and equipment parking; the construction and commissioning of an additional steel 12 ML Arctic diesel fuel tank within the existing Bulk Fuel Tank Storage Facility (constructed in 2013); installation and commissioning of Jet A and Arctic diesel fuel dispensing modules; expansion of the existing ramp to beach in preparation of the 2014 freight sealift; and completion of site infrastructure such services buildings including a maintenance shop, warehouse, welding shop, batch plant, workshop and washcar buildings.

Subsequent to efforts carried-out in 2013 as part of the *2013 Interim Bulk Fuel Bladder Decommissioning Program*, the 2014 program commenced in July 2014 with the removal of stockpiled contaminated soils, 114,000 L bladder of contaminated water and discarded liner, contained within the lined encapsulated area located at the northern third of the former Fuel Bladder Facility, followed by further assessment and excavation of fuel bladder facility soil where petroleum hydrocarbon contamination exceeding referenced guidance criteria. 2014 Fuel Bladder Facility decommissioning activities coincided with activities also required to decommission two Hazardous Waste Storage Berms (HWB) – HWB2 and HWB2 as these berms were located at areas required for clearing and allow for the final grading of the Ore Stockpile Pad and Conveyor Berm construction which commenced in September 2014. Refer to Technical Memorandum Re: *Milne Port - Fuel Bladder Facility Decommissioning – Remediation and Close-out* is provided in Appendix E.8.1 of this report for additional information.

The Milne Port Landfarm Facility was constructed in August 2014 and is comprised of a 136 m x 63 m containment berm to accommodate approximately 3,400 m³ of contaminated soil in addition to a 47 m x 43 m (contaminated snow containment berm to accommodate approximately 900 m³ of contaminated snow generated from ongoing construction and operation phases. Contaminated soil excavated as part of decommissioning activities were disposed of at the Landfarm Facility. For volumes of hydrocarbon impacted soils deposited at the Landfill Facility in 2014, refer to Table 2.4.2 of this report.

The 2014 Project sealift occurred between July and October 2014 and consisted of six (6) sealift vessels which offloaded consumables, buildings, equipment and materials required for the execution of construction and operational activities at the Mary River Mine Site, Tote Road, and Milne Port. The consumables, buildings, equipment and materials received at Milne Port during the sealifts that were required at the Mary River Mine Site were transported via truck on the Tote Road.

2014 sealift activities also involved the receipt of 24 ML of arctic diesel fuel and 1.7 ML of Jet-A1 fuel via two (2) ship-to-shore floating hose fuel transfers in August and September to the Milne Port steel tank bulk fuel storage facility. Fuel required for construction and operation at the Mary River Mine Site was transported from the Milne Port steel tank bulk fuel storage facility to newly installed steel fuel tanks at the Mary River Mine Site via tanker truck on the Tote Road. The 2014 Project sealift also consisted of backhaul of

equipment no longer required on-site. The backhaul included the off-site shipment of waste (hazardous/non-hazardous) and other materials that were manifested for transport to Southern Canada for disposal processing, and during the August fuel delivery for treatment at a licensed facility in Southern Canada. Refer to Appendix E.1 and E.4 for details on materials, shipped to and off site in 2014.

Photographs of the 2014 Milne Port construction activities are presented in Appendix D of this report.

At the Mary River Mine Site approved construction activities in 2014 consisted of the continued development of the quarry QMR2 and the start of development of quarry D1Q2 to generate crushed and screened aggregate. In addition, waste rock from Deposit No. 1 Pit that was deemed to be non-potentially acid generating (based on operational testing protocols outlined in the Waste Rock Management Plan¹⁰) was used for construction purposes at the Mine Site. Construction projects included: the development of equipment laydown areas and equipment parking; the construction of an Explosives Facility (and associated roads); installation and commissioning of an Arctic diesel fuel dispensing module; power generation systems; and services buildings including maintenance shop, warehouse, welding shop, batch plant, workshop and washcar buildings. Fuel transfer from Milne Port tank farm to newly installed fuel tank farm (constructed in 2013) continued throughout 2014 to satisfy the fuel demands of the Mine Site; and additional mobile equipment was received by Mine Operations, Maintenance and Site Services from the 2014 Sealift.

Mine Site infrastructure relating to water distribution, containment and diversion constructed in 2014 included a raw water jetty, treated effluent pond, and treated effluent and raw water intake utility berms.

September 2014 marked the commencement of active mining at the Mine Site with the development of the preliminary Deposit No. 1 pit benches and construction of the Pit 1 Haul Road. Preceding the achievement of this milestone was the construction of an ore crushing and loading pad (including the set-up of crushing and screening mobile equipment) and ore stockpile pad area. These areas were required for mining operations to proceed. During 2014, the construction of the Waste Rock Haul Road to facilitate the construction of the waste rock pad, drainage ditches and settling pond(s) had been deferred to early in 2015.

The approved, non-hazardous landfill at the Mary River Mine Site was utilized throughout 2014 construction activities and refuse at both the Mary River Mine Site and Milne Port were sorted and disposed of in the landfill

Extensive upgrades were made to the Mary River Airstrip in 2014. Upgrades included the extension of the runway and expansion of the apron. In addition, an aerodrome office, field electrical center, airfield lighting and visual aids as well as power generation and fuel supply systems were installed and commissioned.

Photographs of the 2014 construction activities at the Mary River Mine Site are presented in Appendix D of this report.

In 2014, follow-up activities were completed as required pursuant to the Fisheries Authorization for the Tote Road No Net Loss and Monitoring Program, QIA lease, AANDC land permit and quarry permit(s); and alignment corrections to improve sight distance and reduce potential road/vehicle departures by improving curves and reducing grades for heavy truck loads. The Tote Road upgrade program commenced in late

¹⁰ Life-of-Mine Waste Rock Management Plan, Baffinland Iron Mines Corporation, dated April 2014.

2013, continued throughout 2014 and included the following activities to reduce the potential for adverse environmental impacts and allow for improved efficiency and safety of Tote Road users:

- Increase culvert size where required;
- Installation of culverts and/or increase of culvert size/number as required;
- Crush material as required, haul, place and compact new rock fill per design;
- Installation and maintenance of erosion control devices such as ditches with rip rap as required;
- Construction commissioning of communications repeater towers; and
- Drill, blast and excavate as required to reduce steep grades and improve curves where necessary and to improve sight distance and visibility along the road.

In addition to the activities listed above, four (4) single lane modular bridge crossings were constructed as part of the Tote Road 2014 upgrade program to replace the pre-existing side-by-side sea-can style bridge crossings. The new bridges were designed and constructed to meet anticipated ERP construction and operations (ore haulage) demands of Tote Road usage based on equipment and load tonnage. The four bridge crossings are located at km 17, km 62, km 80 and km 97.

Photographs of 2014 Tote Road activities are presented in Appendix D of this report.

Ongoing compliance monitoring with regulatory permits, authorizations, Baffinland Environmental Management Plans and Baffinland Standard Operating Procedures (SOPs) was conducted throughout 2014 for construction activities. Corrective actions and compliance monitoring findings have been incorporated into recent revisions of Baffinland's Environmental Management Plans and in the development of subsequent revisions of Baffinland SOPs. Refer to Section 8 of this report for details pertaining to the status of Baffinland's Environmental Management Plans relevant to the Type B Water Licence(s), Type A Water Licence, amended Project Certificate No. 005 and the QIA Commercial Lease.

As required by Part D, Item 19 of the NWB Licence No 2AM-MRY1324, Baffinland submitted Construction Summary Reports for the Milne Port Landfarm, the Milne Port Ore Stockpile Ponds, and the four (4) Tote Road bridges. As required, Construction Summary Reports have been signed/stamped by a Professional Engineer to meet requirements specified in Part D, item 18 of the Type A Water Licence.

Part D, Item 19 in Baffinland's Type A Water Licence requires that Baffinland shall ensure the proper function of earthworks associated with facilities at the Mary River and Milne Inlet camps such as the Mary River Mine Site landfill, PWSP cells, bulk fuel storage and ancillary fuel facilities. Bi-annual geotechnical inspections are required to be performed by a geotechnical engineer registered in Nunavut. To fulfil the requirement, an annual inspection report was submitted to the NWB and QIA on November 21, 2014. Copies of the submission letter and Geotechnical report are provided in Appendix D.2.

Site layouts of Milne Port and the Mary River Mine Site, are provided in Appendix A of the 2015 Work Plan provided in Appendix C as well as Figures 1.3 and 1.5 of this report. Over the course of 2014, Construction Summary Reports (CSRs) were submitted to the NWB and QIA in accordance with the requirements of Type A Water Licence (Part D, Item 18), and the QIA Commercial Lease. A list of the CSRs submitted are presented in Appendix D.1.

3.1 QUARRIED MATERIAL QUANTITIES AND GEOCHEMICAL TESTING

In 2014, Baffinland operated quarries and borrows that supported infrastructure construction for the project. As per the requirements of the Commercial Lease (Part 6.4, item d) iv) and Type A Water Licence (Schedule B, Item (g), x), Table 3.1 provides quantities quarried of each specified substance (sand and gravel, construction stone, and ice) quarried each month, broken down by individual quarry site.

In accordance with terms of the Type A Water Licence (Schedule I Item g (Xii)) details of monitoring data with respect to geochemical analysis conducted on material used to construct roads, quarries and other infrastructure is presented in Appendix E.6. Appendix E.6 provides a statistical summary of the geochemical results to date for each quarry, in addition to the laboratory analytical data.

The Q1 Quarry at Milne Port and the QMR2 Quarry at the Mine Site have been assessed utilizing the Protocol for the Assessment for the Potential for Acid Rock Drainage (Borrow Pit and Quarry Management Plan). The results of these assessments were presented in the Q1, QMR2, and Q1D2 Quarry Management Plans (2013) which predicted that aggregate materials in these quarries will have a low potential for acid rock drainage and metal leaching (ARD/ML).

During 2014, an operational sampling program was conducted to confirm the original predictions that the aggregate material in both of these quarries would have a low potential for ARD/ML. During 2014, the Mine Operations Geology Department implemented a program of continuous sampling to confirm the low potential for Acid Rock Drainage (ARD) for Quarry Q1 and QMR2. Samples from this period were collected from blasthole cuttings. The results summaries for this work are presented in Appendix E, Tables E.6-1 to E.6-5. When assessing whether aggregate is potentially acid generating (PAG), general cut-off criteria were established. These criteria were Net Potential Ratio (NPR) value less than two (2) and sulphur concentration greater and 0.20%.

The results provided in Appendix E.6 summary tables indicate low potential for ARD/ML as was originally predicted in the assessments made in the Q1, QMR2, and D1Q2 Quarry Management Plans.

SECTION 4.0 - GEOCHEMICAL WASTE ROCK STUDIES AND OPERATIONAL TESTING RESULTS

Geochemistry investigations with material derived from drill core continued during 2014. AMEC Foster Wheeler (AMEC) were retained throughout 2014 to continue to advance metal leaching and acid rock drainage (ML/ARD) characterization studies of materials from the Mary River Deposit No. 1. AMEC have provided two technical updates that are provided in Appendix E.5 that present the results and current interpretation of geochemical analyses available up to December 2014.

During 2014, the following activities related to the mine rock geochemistry program were conducted:

- Ongoing monitoring and interpretation of results for the operating humidity cells at SGS Canada Ltd.
- Operational geochemical testing of waste rock during the start-up of mining at Deposit No. 1 Pit.

The first technical report presented in Appendix E.5 presents the updated results and interpretation of ongoing humidity cell test work assess the potential for metal leaching and acid rock drainage (ML/ARD) from waste rock related to mining of Deposit No. 1.

The second technical report presented in Appendix E.5 is related to the ongoing operational waste rock geochemical testing program that is being undertaken to confirm predictions made with respect to the potential for acid rock drainage (ARD). The methods used are outlined in the the Life-of-Mine Waste Rock Management Plan (April 2014). This work is being undertaken by means of on-site determination of total S in blasthole cuttings. AMEC Foster Wheeler reviewed the results of 161 blasthole samples of waste rock tested in 2014. Overall, the low total S contents determined in these analyses are consistent with the low sulphide nature of the deposit defined by previous study. To be thorough, selected samples were additionally analysed under the direction of Baffinland for Modified Sobek neutralization potential (NP) to more completely assess the ARD character of the materials on the basis of the ratio of NP to acid potential (calculated from S).

Geochemistry studies and associated studies on Deposit No. 1 mine rock are planned to continue during 2015. Appendix E.5 includes an update table which provides a status summary of the geochemical testing program that was presented as Table 7.1 in Appendix 3 of the April 2014 revision to the Life-of-Mine Waste Rock Management Plan.

SECTION 5.0 - FUEL STORAGE

Due to increasing Project complexity and level of activities, fuel storage infrastructure and handling practices have evolved over the last several years. In 2007, a bulk fuel storage facility and ancillary fuel transfer module, with a total storage capacity of approximately 8.25 ML was constructed at the Milne Port site, and in 2008 a bulk fuel storage facility with an approximate capacity of 1.5 ML (potential capacity of 16 bladders) was completed at the Mary River Mine site.

Delivery of Arctic diesel and Jet-A1 fuels were received by these facilities in early September 2007 and again in August 2008. There was no fuel delivery received at Milne Port in 2009 or 2010. A re-supply fuel sea-lift in September 2011 delivered 3,313 m³ of Arctic diesel and 898 m³ of Jet-A1 diesel to Milne Port. The Milne Port storage facility originally consisted of 74 bladders, each with a rated capacity of 114,000 L and contained within an impermeable lined earthen engineered containment structure designed to meet applicable standards and guidelines (recently decommissioned Milne Port Bulk Fuel Bladder Facility).

In 2011, a five (5) ML fuel tank for Arctic diesel was approved for construction along with an ancillary fuel transfer module and engineered lined storage containment area at Milne Port. The five (5) ML tank was constructed in 2011 and commissioned in 2012; following which, 1,492 m³ Arctic diesel fuel was transferred from Milne Port Bulk Fuel Bladder Facility to the new steel storage tank via tanker trucks.

In 2013, additional fuel storage and distribution infrastructure were installed. At the Mine Site, four (4) x 500,000 L Arctic diesel steel tanks and an associated fuel dispensing system was installed in a newly constructed engineered lined secondary containment structure. At Milne Port 2013 activities included installation of one (1) x 5 ML Arctic diesel, two (2) x 12 ML Arctic diesel, and three (3) x 750,000L Jet-A1 fuel steel tanks within the pre-engineered lined secondary containment structure. To support fuel transfer from the newly installed fuel tanks, an ancillary fuel transfer module was installed within the engineered lined secondary containment structure.

In addition to satisfying increasing fuel demands of Project development, the installation of the steel tank facilities at Milne Port also permitted Baffinland to proceed with decommissioning of the Milne Port Bulk Fuel Bladder Facility which commenced in 2013. Commencing in July 2014, remediation and close-out activities were completed subsequent to those carried out as part of the *2013 Milne Port - Interim Fuel Bladder Facility Decommissioning Program*. 2013 decommissioning activities included the removal of bladders from site for off-site disposal and contaminated soil excavation from the former engineered containment structure which was transferred to an engineering lined containment for future on-site treatment. 2014 decommissioning activities included confirmatory sampling of areas remediated as part of the 2013 program in addition to removal of the lined containment (encapsulation containing 8,795 m³ stockpiled contaminated soils, 114,000 L bladder of contaminated water and discarded liner) placed in the northern one third portion of the bladder facility. Refer to Appendix E.8 for the Re: *Milne Port - Fuel Bladder Facility Decommissioning – Remediation and Close-out*.

As of December 31st, 2014 the Milne Port Tank Farm included: Three (3) 12 ML Arctic diesel field-fabricated tanks (two installed in 2013 and one installed in 2014); one (1) 5ML Arctic diesel field-fabricated tank installed in 2013; and three (3) 0.75 ML Jet-A1 fuel pre-fabricated tanks installed in 2013. The tanks are vertical single wall steel construction and designed to API 650 specifications.

In addition to the existing infrastructure, the Milne Port Tank Farm includes space for two additional tank pads for future expansion of one additional 0.75 ML Jet-A1 tank and one additional 12 ML Arctic diesel tank.

As of December 31st, 2014, there was 28.437 ML of Arctic diesel stored in five (5) steel tanks and 1.416 ML of Jet-A1 stored in three (3) steel tanks within the Milne Port steel tank bulk fuel storage facility.

In 2014 the Milne Port fuel dispensing system was installed and commissioned. The dispensing system included two (2) new prefabricated fuel dispensing modules: the Arctic diesel Fuel Module, and the Jet-A1 Fuel Module. The existing Arctic diesel Fuel Module was decommissioned and the new module was relocated to the west side of the tank farm while the new Jet-A1 Fuel module remained on the east side. Both modules are insulated and heated 40 ft ISO shipping containers, complete with piping, fuel transfer equipment, temperature corrected delivery systems, electrical and control components, and code compliant fire suppression systems. The Construction Summary Report for the Milne Port Tank Farm & Dispensing Package, submitted to the NWB and QIA in 2014 contains additional information pertaining to fuel module operation.

Mine Site Bulk Fuel Bladder Storage Facility decommissioning activities commenced in 2014 with most fuel removed. As of December 31st, 2014 facility bladders contained 19,200 L of Arctic diesel and 9,600 L of Jet-A1. Decommissioning activities of the facility will recommence in summer 2015.

The Mary River Mine Site steel tank bulk fuel storage facility was constructed in 2013 and was commissioned in 2014 and includes four (4) Arctic diesel pre-fabricated storage tanks. The tanks are 0.5 ML vertical single wall steel construction and designed to API Standard 650 specifications.

One (1) prefabricated fuel dispensing module: the Arctic diesel Fuel Module was installed and commissioned in 2014. The module is an insulated and heated 40 ft ISO shipping container, complete with piping, fuel transfer equipment, temperature corrected delivery system, electrical and control components, and code compliant fire suppression system.

As of December 31st, 2014, there was 1.3 ML of Arctic diesel stored in the four (4) steel tanks within the Mine Site steel tank bulk fuel storage facility in addition to 85,750 L Jet-A1 stored in two (2) 50,000 L steel tanks located at the Aerodrome.

The Mine Site bulk fuel storage facility is supplied by bulk fuel tankers that were transported along the Tote Road. The remaining fuel requirements needed for the various aspects of the Project were supplied via day tanks and 205 L drums.

During 2014, fuel for the Project was required to support the following activities:

- Diesel electric power generation and building heat;
- Light and heavy vehicle operation; and
- Fixed-wing aircraft and helicopter movement.

During 2014, barrelled fuel was used mainly to support field studies and the geology and geophysics program. As of December 31, 2014 there was 1,912 - 205 L drums of fuel (635 Arctic diesel and 1,250 Jet-A1) stored at Steensby Port, 34 - 205 L drums (30 Jet-A1 and 4 gasoline) at the Mary River Mine Site, and 72 - 205 L drums of gasoline at Milne Port. The barrelled fuel being stored at the respective sites is within engineered lined containment structures.

It is Baffinland's practice to construct and operate its fuel storage/dispensing facilities and fuel handling/management practices in accordance with applicable guidelines and regulations such as the CCME "Environmental Code of Practice for Aboveground and Underground Storage Tank Systems Containing Petroleum and Allied Petroleum Products (2003)", Storage Tank Systems for Petroleum Products and Allied Petroleum Products Regulations (Canadian Environmental Protection Act, 1999 SOR/2008-197 June 12, 2008) and National Fire Code of Canada. To protect receiving waters, it is Baffinland's practice to endeavour, as practical, to store drummed fuel, petroleum based wastes, and other potentially hazardous products within lined containment areas whenever possible. Engineered lined containment areas are in place at the Mary River Mine Site, Milne Port, Steensby Inlet and Mid Rail camps for the storage of drummed fuel.

Part D, Item 19 in Baffinland's Type A Water Licence requires that Baffinland shall ensure the proper function of earthworks associated with earthworks facilities at the Mary River Mine Site and Milne Port camps such as the Mary River Mine Site landfill, PWSP cells, bulk fuel storage and ancillary fuel facilities. Biannual geotechnical inspections are required to be performed by a geotechnical engineer registered in Nunavut. To fulfil the requirement, an annual inspection report was submitted to the NWB and QIA on November 21, 2014. Copies of the submission letter and Geotechnical report are provided in Appendix D.2.

Construction Summary Reports for the fuel storage and distribution infrastructure constructed in 2014 at Milne Port and Mary River Mine Sites have been submitted to the Board within 90 days of completion of the commissioning of each respective facilities as required under Type A Water Licence (Part D, Item 18).

To fulfil the requirement provided in Baffinland's Type A Water Licence (Part D, Item 19), Baffinland has submitted to the NWB Construction Summary Reports (CSRs) following the completion of fuel storage and distribution facilities. CSRs for the Milne Port and Mine Site Tank Farm and Dispensing Package have been submitted to the NWB and QIA in January 2015.

SECTION 6.0 - UNAUTHORIZED DISCHARGES

During 2014, thirty-one (31) spills were reported to the Nunavut Spill Line, Water Licence Inspector and QIA Major Projects. These spills met or exceeded the reporting threshold as outlined in the Nunavut Spill Contingency Planning and Reporting Regulations. In addition to the required Spill Line report, a more detailed follow-up report was filed within thirty days of each reported spill that included a description of the event together with the immediate cause, corrective and preventative action, and a map showing the location of the spill. The thirty-one reportable spill events are summarized in Table 6.1 and locations are shown on Figure 1.9. The follow-up spill reports and original spill reports are provided in Appendix E.7.4. The follow-up spill reports detail basic causes and short/long term corrective actions. This information is also summarized in Table 6.1.

Eleven of the reported spills occurred at Milne Port, Seventeen at the Mary River Mine Site, and three along the Tote Road. Fifteen of the reported spills were untreated sewage, six spills were diesel, three releases of fire suppressant (3M Novec 1230), two hydraulic oil spills, one spill was diesel/oily water and one each of oily water, gear/ lube oil, glycol, and transmission oil.

2014 Unauthorized Discharges		
Product Spilled	Count of Product Spilled	Sum of Litres Spilled
Sewage (untreated)	15	16450
Fuel - Diesel	6	1870
3M Novec 1230	3	390*
Hydraulic Oil	2	275
Fuel - Diesel & Oily Water	1	6000
Gear/Lube Oil	1	200
Glycol - De-icer	1	150
Oily Water	1	2000
Transmission Oil	1	120
Grand Total	31	51455
* 3M NOVEC 1230 quantities were 130 kgs each (390 kgs)		

The remaining spills that occurred during 2014 were minor in nature, occurring on land, with quick response and clean up resulting in negligible impact to the receiving environment. Baffinland keeps track of all minor spills (internal reporting and follow-up action) and Inspectors have the opportunity to review the information when at site conducting inspections.

An analysis of the reportable spills during 2014 indicated that the basic causes for the spills included equipment failure issues (design issues, defective equipment, preventive maintenance), weather conditions (temperature extremes), and procedural (inadequate procedure or training). Baffinland continues to work to identify root causes so that effective long term corrective actions can be implemented.

SECTION 7.0 - INSPECTION AND COMPLIANCE REPORT CONCERNS

In 2014, Baffinland hosted numerous regulatory inspections from AANDC and QIA, as well as the WSCC Mines Inspector. In Addition, the Nunavut Environmental Health Inspector also visited the site during 2014.

7.1 AANDC INSPECTIONS

During 2014, five (5) inspections were conducted by AANDC water resource officers; the first from April 15th to 17th, the second June 17th to 19th, the third on July 14th, the fourth on August 21st to 25th and the fifth on November 18th to 20th, 2014. The inspection results were conveyed during close-out meetings at the end of the inspections and documented Water Licence Inspection Reports distributed to Baffinland subsequent to the inspections. Baffinland acted quickly to respond to concerns brought forward during the inspections or close out meetings. No non-compliances to the Water Licence were reported by the water resource officers in their reports, although there were some concerns. Noted concerns were addressed by means of the development of appropriate action plans that were submitted and reviewed by the Inspector. The inspection reports together with a record of Baffinland's responses to concerns and comments are provided in Appendix E.7.1.

7.2 QIA INSPECTIONS

During 2014, two (2) inspections and one (1) environmental audit were conducted by the Qikiqtani Inuit Association (QIA) under the agreement of Commercial Lease Q10C3001. The dates of the inspections were May 6th to 8th and June 24th to 26th respectively. The environmental audit was conducted from August 7th to 12th, 2014. The results of the aforementioned inspections and audit were conveyed during the close-out meetings between the QIA personnel and Baffinland representatives as well as documented in subsequent reports and correspondence. The inspection and audit reports, together with Baffinland's response letters are provided in Appendix E.7.2 of this report.

7.3 WORKERS' SAFETY & COMPENSATION COMMISSION (WSCC) MINE INSPECTIONS

In 2014, WSCC conducted 6 inspections of Baffinland Iron Mines at both the mine and port sites. The reports for these inspections were distributed to Baffinland management as well as the Occupational Health & Safety Committee. The inspections conducted over 2014 resulted in a total of 109 directives being issued to the company over the course of the year. The directives were reviewed by the management team and responses were sent to the Mines Inspector within a timely manner. The results of the inspections, including Baffinland's responses are provided in Appendix E.7.3 of this report.

SECTION 8.0 - UPDATES TO PLANS

In 2014, the management plans underwent major revisions to reflect the Early Revenue Phase, and to be reformatted using Baffinland's document control standards and templates. During 2014 and early 2015, additional updates were minor in nature to more accurately reflect on site conditions and policies and procedures.

Most management plans are required under the Type A Water Licence and provision for annual updates is included therein. The plans pertinent to the water licences are stand-alone documents and are provided to the Board in digital copy as attachments to this report.

A Management Plan registry is presented below:

Management Plan	Current Version	Updates to Content Since 2013 Annual Report to the Qikiqtani Inuit Association and Nunavut Water Board
Air Quality and Noise Abatement Management Plan	March 2015	Yes
Cultural and Heritage Resource Protection Plan	March 2015	Yes
Hazard Identification and Risk Assessment Procedure	December 2010	No update.
EHS Framework Standard	December 2010	No update.
Health and Safety Management Plan	January 2012	No update.
Human Resources Management Plan	December 2010	No update.
Terrestrial Environmental Management and Monitoring Plan	March 2015	Yes
Stakeholder Engagement Plan	March 2014	No update.
Railway Emergency Management Plan	October 2011	No update.
Railway Maintenance Management Plan	October 2011	No update.
Roads Management Plan	March 2015	Yes
Shipping and Marine Wildlife Management Plan	March 2015	Yes
Blasting Management Plan	April 2013	No update - appended to all site specific quarry management plans.
Borrow Pits and Quarry Management Plan	March 2014	No update.

Management Plan	Current Version	Updates to Content Since 2013 Annual Report to the Qikiqtani Inuit Association and Nunavut Water Board
Borrow Source Management Plan	October 2013	No update. Now appended to the Borrow Pit and Quarry Management Plan.
Borrow Source Management Plan – Kilometer 2	October 2014	No update.
Borrow Source Management Plan – Kilometer 97	October 2014	No update.
Borrow Source Management Plan – Kilometer 104	March 2014	No update.
Emergency Response Plan	March 2015	Yes
Spill Contingency Plan	March 2015	Yes
Environmental Protection Plan	July 2014	Yes
Fresh Water, Sewage and Wastewater Management Plan	March 2015	Yes
Hazardous Materials and Hazardous Waste Management Plan	March 2015	Yes
Interim Abandonment and Reclamation Plan	March 2015	Yes
Quarry Management Plan D1Q1	October 2013	No update.
Quarry Management Plan D1Q2	October 2013	No update.
Quarry Management Plan Q1	March 2013	No update.
Quarry Management Plan Q11	October 2013	No update.
Quarry Management Plan Q19	October 2013	No update.
Quarry Management Plan Q7	October 2013	No update.
Surface Water, Aquatic Ecosystems, Fish and Fish Habitat Management Plan	March 2015	Yes
Surface Water Sampling Program - Quality Assurance and Quality Control Plan	January 2014	No update.
Waste Management Plan	March 2015	Yes
Life of Mine Waste Rock Management Plan	April 2014	No Update..

Management Plan	Current Version	Updates to Content Since 2013 Annual Report to the Qikiqtani Inuit Association and Nunavut Water Board
Explosives Management Plan	August 2013	No update.
Oil Pollution Emergency Plan - Milne Port (OPEP)	July 2014	Yes
Oil Pollution Emergency Plan - Steensby Port (OPEP)	November 2010	No update.

Reformatting of plans is ongoing, and NWB and QIA will find that most plans attached are in the new format. In some cases, the plans were not updated in 2014 due to their irrelevance to current permitting and construction activities on site (like the Railway Management Plan).

In accordance with Part B, Item 5 (l) of the Type B water licence (8BC-MRY1416), Part B, item 6 (ix) of the Type B water licence (2BE-MRY1421) and Part B item 18 of the Type A Water Licence, an annual review of the management plans developed under the water licence has been undertaken.

Updates to management plans have been completed and changes to these plans are broadly summarized as follows:

- *Environmental Protection Plan.* This plan underwent a major revision in July 2014 to reflect on site activities. The revised version is included in this report.
- *Emergency Response Plan.* The update has been done to identify potential emergencies onsite that could arise during construction. The update reflects the terms and conditions of Baffinland's water licences, QIA Commercial leases as well as the terms and conditions of the NIRB Project Certificate No.005.
- *Spill Contingency Plan.* The update has been done based on changes infrastructure and the continued improvements in spill response equipment and training undertaken by the Mary River Emergency Response Team.
- *Surface Water and Aquatic Ecosystem Management Plan.* The update reflects the terms and conditions of Baffinland's water licences, QIA Commercial leases as well as the terms and conditions of the NIRB Project Certificate No.005. The plan reflects 2014 activities at the Project and planned activities for 2015. Included in the plan are updated site water balances and updated site drainage plans for the Project.
- *Freshwater Supply Sewage and Waste Water Management Plan.* The update reflects the terms and conditions of Baffinland's water licences, QIA Commercial leases as well as the terms and conditions of the NIRB Project Certificate (No.005). The plan reflects 2014 activities at the Project and planned activities for 2015. Updated Site Water Block Flow Diagrams have also been incorporated into this revision of the plan.

- *Hazardous Materials and Hazardous Waste Management Plan.* The update reflects the terms and conditions of Baffinland's water licences, QIA Commercial leases as well as the terms and conditions of the NIRB Project Certificate No.005. Major revisions include the updating of roles and responsibilities; handling and storage requirements and hazardous waste generation estimates. In addition, the current MSDS, representative of 2014 Project inventories, was included.
- *Waste Management Plan.* The update reflects the terms and conditions of Baffinland's water licences, QIA Commercial leases as well as the terms and conditions of the NIRB Project Certificate No.005. Revisions include the updating of roles and responsibilities, waste generation estimates, discussion of open burning protocols, incorporation of the ECO 2TN Mobile Incinerator O&M Manual, and expanded discussion of waste handling and disposal by waste type.
- *Life of Mine Waste Rock Management Plan.* This plan has been updated to be called the Life of Mine Waste Rock Management Plan, and appendix Phase 1 Waste Rock Management Plan. The plan was updated in April 2014 to reflect the terms and conditions of Baffinland's water licences, QIA Commercial leases as well as the terms and conditions of the NIRB Project Certificate No.005. The plan has not been updated, but Appendix E.5 of this report includes technical updates on humidity cell test results that are ongoing and on the first set of results from the geochemical operational testing program for Deposit No. 1 waste rock.. An update table which provides a status summary of geochemical testing program is also provided.
- *Borrow Pits and Quarry Management Plan.* No update required.
- *Interim Abandonment and Reclamation Plan.* In 2014, the plan was updated to reflect the Early Revenue Phase, and then was updated again in early 2015 to incorporate Project changes and feedback received from the QIA during the Annual Security Review.

A list of the other management plans that support the development of the Mary River Project Final Environmental Impact Statement are provided below:

- *Oil Pollution and Emergency Response Plan – Milne Port (OPEP).* This plan was updated in July 2014 and reviewed by Transport Canada.
- *Explosive Management Plan.* No update required. This is a contractor document.
- *Blasting Management Plan.* No update required.
- *Air Quality and Noise Abatement Management Plan.* This plan has been updated from the May 2013 version. The update includes an appendix on Dust Management Protocol, conditions SO₂ and NO_x monitoring, and monitoring dust along the tote road as per the terms and conditions of Baffinland's water licences, QIA Commercial leases as well as the terms and conditions of the NIRB Project Certificate No.005.
- *Shipping and Marine Wildlife Management Plan.* This plan was updated in conjunction with the Marine Environment Working Group and is included in this report. The revised version reflects on site activities and conditions of the amended Project Certificate No. 005.
- *Emergency Spill Response Plan.* This plan relates to marine spills along the shipping route and is being developed in conjunction with regulators and Baffinland's third-party response contractor OSRL. The plan will be finalized prior to commercial shipping of iron ore.

- *Terrestrial Environmental Management and Monitoring Plan*. This plan was updated in conjunction with the Terrestrial Environment Working Group. The revised version reflects on site activities and conditions of the amended Project Certificate No. 005.
- *Health & Safety Management Plan*. This plan has not been updated.
- *Stakeholders Engagement Plan*. This plan has not been updated.
- *Cultural Heritage Resources Protection Plan*. This plan is included with small content changes to reflect current activities on site.
- *Human Resources Management Plan*. This plan has not been updated.
- *Oil Pollution Emergency Response Plan - Steensby Port (OPEP)*. No update required.
- *Railway Management Plan*. This plan has not been updated as the rail Project is on hold.
- *Site Specific Quarry Management Plans*. No update required.
 - ♦ *Q1 Quarry Management Plan*
 - ♦ *QMR2 Quarry Management Plan*
 - ♦ *D1Q1 Quarry Management Plan*
 - ♦ *D1Q2 Quarry Management Plan*
 - ♦ *Q7 Quarry Management Plan*
 - ♦ *Q19 Quarry Management Plan*
 - ♦ *Q11 Quarry Management Plan*
 - ♦ *Km 1 Borrow Source Management Plan*
 - ♦ *Km 2 Borrow Source Management Plan*
 - ♦ *Km 98 Borrow Sources Management Plan*

SECTION 9.0 - PROGRESSIVE RECLAMATION WORK

The Project's water licences issued by the NWB, land-use permits issued by AANDC, and lease agreement with QIA requires that progressive reclamation work be carried-out on Project components no longer required for Project operations. The restoration work is to be completed prior to the expiry of these approvals and in accordance with approved Abandonment and Reclamation Plan. Reclamation progress is monitored through site inspections and annual reporting to the QIA, AANDC and NWB, and is documented in annual updates of the Project Abandonment and Reclamation Plan.

Progressive reclamation undertakings were completed throughout 2014. Decommissioning reports and applicable support information for specific project components are provided in Appendix E.8:

- In consultation with AANDC, Baffinland developed and implemented an action plan to address the long-term storage of calcium chloride at the Mine site and Milne Port to include segregation of useable salt and its potential for future continual use on-site.
- Development and implementation of a program to dispose of existing inventoried incinerator bottom ash in the existing Mine Site Landfill and the ongoing management and disposal of ash being generated at both the Mary River Mine site and Milne Port.
- Decommissioning of two hazardous waste storage containment areas (HWB2 and HWB3) at Milne Port. The hydrocarbon impacted soils removed from within the bermed areas were placed in the Landfarm Facility.
- Decommissioning of polishing and waste stabilization pond (PWSP 4a) at Milne Port.
- Decommissioning and close-out of the existing Fuel Bladder Facility at Milne Port. Activities included the transport of hydrocarbon impacted soils to the newly constructed Landfarm Facility.
- Decommissioning activities at the existing Mary River Bulk Fuel Bladder Facility commenced in June and will continue in 2015.
- Decommissioning of one hazardous waste storage containment area and the decommissioning of Large Quanset storage building at the Mine Site.
- Continued development and implementation of a long term multi-year plan to address localized areas of permafrost melting associated with historical borrow areas, and taking into consideration the longer term designs for Tote Road upgrades and new quarry development. EBA Tetrattech was retained during the summer of 2015 to complete a survey of roadside and other borrows adjacent to the Tote Road. This report is provided in Appendix E.8.
- Demobilization of equipment and supplies not required for 2015 construction or near-term activities.
- Shipment of the current inventory of hazardous waste and other materials out of Milne Port during the 2014 sealift, for disposal and recycling at accredited facilities in Southern Canada.
- Continued development of the Mine Site landfill and deposition of non-hazardous wastes in accordance with the landfill operations and maintenance manual.

- Discharge of treated sewage stored in the existing two PWSPs at the Mine site was completed June 18 – 21 and July 18 – 21 (from MS-MRY-04C) and August 18-25 (from MS-MRY-04B). At Milne Port, treated effluent from PWSP MP-01A was discharged July 22-26 and September 6-8. For PWSP discharge volumes, refer to Table 2.3 of this report.
- Ongoing removal from the site, or safe disposal on-site of infrastructure, equipment and supplies no longer required for ongoing construction and operations. The items are defined by the Mary River Project Interim Abandonment and Reclamation Plan, and include infrastructure and site materials, fuel caches, drums, barrels, buildings and contents, docks, water pumps and lines, material and equipment prior to the expiry of applicable permits.
- Removal of the pre-existing seacan bridge at the km 97 Tote Road watercourse crossing. Additional reclamation activities at this site are planned for 2015. In a follow-up to this activity, measures shall be implemented to minimize erosion and sedimentation.
- Hydrocarbon impacted soils, from normal fuel transfer and handling and storage activities (at both the Mary River Mine site and Milne Port), were placed in the Milne Port Landfarm Facility for gradual reclamation (biotreatment) to meet the objectives as outlined in the Government of Nunavut's Environmental Guideline for Site Remediation, 2010. The use of reclaimed soils for the purpose of back fill or general site grading may be carried out only upon consultation and approval by the Government of Nunavut, Department of Environment and an Inspector. For quantities of hydrocarbon impacted soils deposited in the Landfill Facility, refer to Table 2.5 of this report.

SECTION 10.0 - SUMMARY OF CONSULTATIONS

Community engagement continued to be a priority for the Company in 2014, focusing on construction activities at site, employment from the North Baffin communities and status on the review of the Early Revenue Phase permitting. These sessions continued to be open forums where Nunavummiut could ask questions and express their views on the Project. Baffinland's senior management team participated in these meetings. Socio-economic studies and public consultation have focussed on the five North Baffin communities in closest proximity to the Mary River Project components, and in Iqaluit, the territorial capital. These *Communities of Interest* were selected based on the guidance presented in "A Proponents Guide to Conducting Public Consultation for the NIRB Environmental Assessment Process," (NIRB, 2006) and are most likely to be affected by a future Project.

In 2014, Baffinland and QIA jointly held the first IIBA Forum in Pond Inlet in October. During this time, the Company also hosted a community celebration to acknowledge the work contributed by elders and other members of the community into the 2006-2009 Inuit Knowledge Study, which contributed greatly to the environmental assessments contained in the FEIS and Addendum to the FEIS. At the celebration, participants in the study were acknowledged publically with awards that featured a cut and polished piece of Mary River iron ore, and country food was supplied by the Mayor and Mittimatalik HTO.

In addition, meetings were held with the Hunters and Trappers Association of Pond Inlet, as well as the local hamlets, and the interim Pond Inlet Community Advisory Group (CAG). Table 10.1 lists the formal community meetings conducted by Baffinland in 2013.

In 2014, consultation with potentially interested stakeholders, including local communities and community groups has been carried out through a variety of means, including:

- Baffinland Community Liaison Offices
- Public Meetings
- Pond Inlet Community Advisory Group
- Marine, Terrestrial and Socio-Economic Working Groups
- Printed Media including advertisements, brochures, and posters
- Baffinland Website www.baffinland.com.

In 2014, the Company conducted community consultation with regular community visits to the communities (Refer to Appendix D for Community Consultation Photos). Baffinland maintained and continued to operate community liaison offices in Iqaluit, Igloolik, Pond Inlet, Clyde River, Arctic Bay, and Hall Beach. In Iqaluit, Baffinland's Northern Affairs Manager oversees the Nunavut business office and the network of liaison officers. The BCLOs have a wide range of responsibilities, encompassing offering information to the communities on available jobs, informing interested parties how to get hired at Baffinland, offering assistance with completing a resume, new hire paperwork and understanding site flight charter schedules, helping with training opportunities, providing updates on the progress at the Mary River Project, and generally acting as a liaison between the local people and the Company.

Community and government consultation also continued with a very high level of effort in 2014. Meetings were held with the public, federal and territorial regulators, local hamlet officials, local HTOs, local QIA representatives, and/or others in the communities (Refer to Table 10.1). The meetings provide an opportunity for Baffinland to communicate any new information that is available and update communities on current work being done by the Company. Baffinland also brought local community and government representatives to visit the operations at the Mary River Project. Baffinland continued to include various agencies and Inuit in the development of monitoring and mitigation strategies, as well as discussions on permitting and licensing for the Project.

Visits and tours to site were also hosted by Baffinland for regulatory agencies and inspectors throughout 2014. Table 10.2 provides a list of the agencies, regulators, inspectors, and others who visited the Mary River Project Site during 2014.

Baffinland continues to publish advertisements and information brochures to be disseminated by the Baffinland Liaison Officers within their respective communities. These cards and brochures are printed in both English and Inuktitut and are a way in which to engage Northern communities in the Project, and to produce materials that the BLOs can take to community meetings, schools, co-ops and other locations and/or events.

The Baffinland website (www.baffinland.com) reflects important milestones in Baffinland's development and is a platform of information for Inuit, regulators, media, and other interested parties. It will be updated regularly and sections of the website are available in both English and Inuktitut.

Stakeholder engagement will continue to be an important commitment for Baffinland in keeping communities abreast with developing news, scheduling, permitting, licensing and as well, involving local people and regulatory agencies in the development of monitoring programs.

TABLES

TABLE 1.1

BAFFINLAND IRON MINES CORPORATION
MARY RIVER PROJECT

2014 QIA AND NWB ANNUAL REPORT

SUMMARY OF 2014 ACTIVITIES AND SUBMISSIONS

Date	Activity/Submission
January 2014	Submission of IFC's for the Mine Site PWSP
January 2014	December 2013 monthly water license report submission
January 2014	Submission of updated Potable Water and Wastewater Management Plan
February 2014	Submission of Follow-up Spill Report; Report ID: 14-001
February 2014	January monthly water license report submission
March 2014	Submission of 2013 Annual Report to the NIRB
March 2014	Submission of Follow-up Spill Report; Report ID: 14-070
March 2014	Submission of Follow-up Spill Report; Report ID: 14-075
March 2014	February monthly water license report submission
March 2014	Submission of 2013 Annual Report to the NWB and QIA and Updated Management and Monitoring Plans
April 2014	Submission of IFC's for the Milne Port Landfarm
April 2014	Submission of updated Life-of-Mine Waste Rock Management Plan
April 15-16, 2014	Site Inspection by AANDC Water Resource Officer
April 2014	Received Type B Water Licence 2BE-MRY1421
April 2014	March monthly water license report submission
May 2014	Completion of Construction Airstrip Runway Upgrade
May 2014	Submitted Amendment Application for Type B Water Licence "Construction"
May 2014	Received the Amended Project Certificate No. 005 for the Early Revenue Phase
May 2014	QIA Environmental Audit Site Inspection
May 2014	Submission of Follow-up Spill Report; Report ID: 14-099
May 2014	Submission of Follow-up Spill Report; Report ID: 14-098
May 2014	Notification to AANDC of effluent discharge of treated effluent from PWSP nos. 1, 2 and 3 at the Mary River Mine Site (MS-MRY-4a) and from the PWSPs at Milne Port (MP-01a and MP-MRY-4a).
May 2014	Submission of Follow-up Spill Report; Report ID: 14-110
May 2014	April Inspection Report Received from AANDC
May 2014	Application to AANDC for Land Use Permit for borrowing on Crown Land (Km62).
May 2014	Submission of Follow-up Spill Report; Report ID: 14-112
May 2014	Submission of Follow-up Spill Report; Report ID: 14-120
May 2014	April monthly water license report submission
June 2014	Submission of the Aquatic Effects Monitoring Program
June 2014	Notification to AANDC of effluent discharge of treated stormwater from the Bulk Fuel Storage and ancillary structures at Milne Port and the Mary River Mine Site.
June 2014	QIA Environmental Audit Site Inspection
June 2014	NIRB Site Tour
June 2014	Submission of Follow-up Spill Report; Report ID: 14-137
June 2014	Notification to AANDC of commencement of geotechnical drilling at Milne Port.
June 2014	Submission of Follow-up Spill Report; Report ID: 14-188
June 17-19, 2014	Site Inspection by AANDC Water Resource Officer
June 2014	Commencement of treatment and discharge of stormwater in the Bulk Fuel Storage facility at Mary River Mine Site.
June 2014	June Inspection Report Received from AANDC
June 2014	Commencement of discharge of treated effluent from the PWSP at Milne Port (MP-01a)*
June 2014	Submission of Follow-up Spill Report; Report ID: 14-189
June 2014	May monthly water license report submission
July 2014	Submission of IFC's for the Milne Port Hazardous Waste Containment Cell
July 2014	Submitted Amendment Application for Type A Water Licence 2AM-MRY1325
July 2014	Submitted Follow-Up to April and June Inspections
July 2014	Historic Ash Disposal Management Plan Submitted to AANDC
July 2014	Surface Water Drainage to Camp Lake Plan Submitted to AANDC
July 2014	AANDC acknowledgement of submission of Ash Disposal Plan and Surface Water Drainage to Camp Lake Plan
July 2014	Commencement of treatment and discharge of stormwater in the Bulk Fuel Storage facility and ancillary structures at Mary River Mine Site.
July 2014	Site Inspection by AANDC Water Resource Officer
July 2014	Commencement of discharge of treated effluent from the PWSP at Milne Port (MP-01a).
July 2014	Submission of Follow-up Spill Report; Report ID: 14-240
July 2014	July Inspection Report Received from AANDC
July 2014	June monthly water license report submission
July 2014	Commencement of treatment and discharge of stormwater in the Bulk Fuel Storage facility at Milne Port.
July 2014	Commencement of Sealift at Milne Port including ship to shore fuel transfer to bulk fuel tanks
August 2014	Received Amended Type B Water Licence 8BC-MRY1416
August 2014	Marine Oil Spill and Land Based Training conducted to support ship to shore fuel transfer
August 2014	Submission of IFC's for the Ore Stockpiles and Ore Dock at Milne Port
August 2014	Fuel transfer from Sealift
August 2014	Photos relating to action items from June inspection submitted to AANDC

TABLE 1.1

**BAFFINLAND IRON MINES CORPORATION
MARY RIVER PROJECT**

2014 QIA AND NWB ANNUAL REPORT

SUMMARY OF 2014 ACTIVITIES AND SUBMISSIONS

Date	Activity/Submission
August 2014	AANDC acknowledgement of work to be completed by August 1, 2014 - Ash Disposal Berms
August 2014	Submission of Follow-up Spill Report; Report ID: 14-249
August 2014	QIA Environmental Audit Site Inspection
August 2014	Commencement of discharge of treated effluent from PWSP nos. 1, 2 and 3 at the Mary River Mine Site (MRY-4a).
August 2014	Submission of Follow-up Spill Report; Report ID: 14-297
August 21-25, 2014	Site Inspection by AANDC Water Resource Officer
August 2014	Submission of Follow-up Spill Report; Report ID: 14-310
August 2014	Notification to AANDC of water taking from a discharge pond at Milne Port (17 W 503297 7975614) for construction purposes.
August 2014	August Inspection Report Received from AANDC
August 2014	July monthly water license report submission
September 2014	Commencement of Deposit No. 1 mining, crushing, ore hauling, and stockpiling operations
September 2014	Notification to AANDC of effluent discharge of stormwater from the new Steel Tank storage facilities at the Mary River Mine Site.
September 2014	NIRB Annual Monitoring Site Tour
September 2014	Commencement of discharge of treated effluent from the PWSP at Milne Port (MP-01a).
September 2014	Preliminary Plan for Camp Lake Drainage submitted to AANDC
September 2014	AANDC acknowledgement of receipt of Technical Memo for Surface Water Drainage to Camp Lake
September 2014	Calcium Chloride Action Plan Submitted to AANDC
September 2014	Open Burn Site Action Plan Submitted to AANDC
September 2014	AANDC recognition of submission of plans for open burning and calcium chloride storage
September 2014	August monthly water license report submission
October 2014	Submitted Project Description for Phase 2 of the Mary River Project to QIA, NIRB, NPC
October 2014	Open Burn and Calcium Chloride update provided to AANDC
October 2014	Request for brief update for AANDC for Ash Disposal Plan and Surface Water Drainage to Camp Lake Plan
October 2014	Historic Waste Ash Sample and Disposal update submitted to AANDC
October 2014	AANDC acknowledgement of receipt of the Ash Disposal Plan update
October 2014	Notification to AANDC of the old Weatherhaven camp at the Mary River Mine Site.
October 2014	Submission of Follow-up Spill Report; Report ID: 14-337
October 2014	Submission of Follow-up Spill Report; Report ID: 14-338
October 2014	Submission of Follow-up Spill Report; Report ID: 14-340
October 2014	Submission and recognition of Open Burn Training to commence
October 2014	September monthly water license report submission
October 2014	Camp Lake Surface Water Runoff Sediment Control Plan submitted to AANDC
November 2014	Notification of completion of the Management of Open Burn Area Plan
November 2014	AANDC acknowledgement of completion of the open burn areas Proposed Action Plan
November 2014	AANDC acknowledgement of the Surface Water Drainage to Camp Lake Plan
November 2014	Submission of Follow-up Spill Report; Report ID: 14-361
November 2014	Submission of Follow-up Spill Report; Report ID: 14-365
November 2014	Submission of Follow-up Spill Report; Report ID: 14-367
November 2014	Submission of Follow-up Spill Report; Report ID: 14-382
November 18-20, 2014	Site Inspection by AANDC Water Resource Officer
November 2014	October monthly water license report submission
November 2014	Submission of Follow-up Spill Report; Report ID: 14-403
December 2014	Submission of the Construction Summary Reports for the Milne Port Landfarm, the Milne Port Ore Stockpile Ponds, and the four (4) bridges on the Tote Road
December 2014	November Inspection Report received from AANDC
December 2014	Notification to AANDC to commence borrowing on Crown Land
December 2014	Submission of Follow-up Spill Report; Report ID: 14-425
December 2014	Submission of Follow-up Spill Report; Report ID: 14-430
December 2014	Submission of Follow-up Spill Report; Report ID: 14-432
December 2014	November monthly water license report submission
January 2015	Submission of Follow-up Spill Report; Report ID: 14-434
January 2015	Submission of Follow-up Spill Report; Report ID: 14-431
January 2015	Submission of Follow-up Spill Report; Report ID: 14-442
January 2015	December monthly water license report submission

Note: A comprehensive list of Construction Summary Reports and Construction Monitoring Reports / As-Built can be found in Appendix D.1 of this report.

TABLE 1.2
BAFFINLAND IRON MINES CORPORATION
MARY RIVER PROJECT

2014 QIA AND NWB ANNUAL REPORT
SUMMARY OF EXPLORATION DRILLING

Deposit No.	2004		2005		2006		2007		2008	
	Number of Holes Drilled	Meterage (m)	Number of Holes Drilled	Meterage (m)	Number of Holes Drilled	Meterage (m)	Number of Holes Drilled	Meterage (m)	Number of Holes Drilled	Meterage (m)
1	14	2691	33	8073	23	4136.5	23	4246.5	27	5071
2	1	122	0	0	7	1195.7	0	0	0	0
3	0	0	0	0	3	642	8	1917	0	0
4										
5										

Deposit No.	2009		2010		2011		2012		2013	
	Number of Holes Drilled	Meterage (m)	Number of Holes Drilled	Meterage (m)	Number of Holes Drilled	Meterage (m)	Number of Holes Drilled	Meterage (m)	Number of Holes Drilled	Meterage (m)
1	13	2316	3	318	0	0	5	1313	0	0
2	0	0	3	477	ak	0	0	0	0	0
3	0	0	2	163	0	0	0	0	0	0
4			17	3165	0	0	0	0	0	0
5			20	2662	0	0	0	0	0	0

Deposit No.	2014		Total	
	Number of Holes Drilled	Meterage (m)	Number of Holes Drilled	Meterage (m)
1	0	0	141	28,165.0
2	0	0	11	1,794.7
3	0	0	13	2,722.0
4	0	0	17	3,165.0
5	0	0	20	2,662.0

TABLE 1.3
BAFFINLAND IRON MINES CORPORATION
MARY RIVER PROJECT

2014 QIA AND NWB ANNUAL REPORT

ON ICE AND ON LAND GEOTECHNICAL AND GEOLOGICAL DELINEATION DRILL HOLE DETAILS

Drill hole ID	Drill hole Coordinates		Description of Drill hole Location	Depth (m)	Date Started	Date Finished	Comments
	Northing (m)	Easting (m)					
ON ICE							
BH - 2014 - 12	7,976,537	503,243	Milne Inlet Proposed Ore Dock	19	12-Jan-14	12-Jan-14	Seawater
BH - 2014 - 13	7,976,602	503,244	Milne Inlet Proposed Ore Dock	30.5	12-Jan-14	13-Jan-14	Seawater
BH - 2014 - 6	7,976,643	503,280	Milne Inlet Proposed Ore Dock	49	13-Jan-14	15-Jan-14	Seawater
BH - 2014 - 7B	7,976,665	503,314	Milne Inlet Proposed Ore Dock	46	15-Jan-14	17-Jan-14	Seawater
BH - 2013 - 5C	7,976,627	503,247	Milne Inlet Proposed Ore Dock	37.5	17-Jan-14	18-Jan-14	Seawater
ON LAND							
T1	7,975,950	503,282	Thermistor installation - Milne Ore Dock	36	29-Jun-14	29-Jun-14	Seawater
T2	7,976,138	503,300	Thermistor installation - Milne Ore Dock	36	28-Jun-14	29-Jun-14	Seawater
T3	7,976,352	503,297	Thermistor installation - Milne Ore Dock	36	27-Jun-14	27-Jun-14	Seawater
T4	7,976,421	503,275	Thermistor installation - Milne Ore Dock	36	27-Jun-14	28-Jun-14	Seawater
T5	7,976,472	503,306	Thermistor installation - Milne Ore Dock	36	26-Jun-14	27-Jun-14	Seawater
T6	7,976,482	503,247	Thermistor installation - Milne Ore Dock	36	22-Jun-14	26-Jun-14	Seawater
MR1-14-227	7,915,540	562,725	Deposit 1 - ore contact by proposed mine road	116	2-Jul-14	4-Jul-14	Water trucked from MS-MRY-1
MR1-14-228	7,914,516	563,978	Deposit 1 - ore contact by proposed mine road	226	5-Jul-14	10-Jul-14	Water trucked from MS-MRY-1
MR1-14-229	7,914,559	563,637	Deposit 1 - ore contact by proposed mine road	101	11-Jul-14	12-Jul-14	Water trucked from MS-MRY-1
MR1-14-230	7,915,424	563,211	Deposit 1 - proposed waste rock stock pile	101	13-Jul-14	15-Jul-14	Water trucked from MS-MRY-1
MR1-14-231	7,916,092	563,143	Deposit 1 - proposed waste rock stock pile	102	16-Jul-14	16-Jul-14	Water trucked from MS-MRY-1
MR1-14-232	7,915,791	562,483	Deposit 1 - proposed waste rock stock pile	102	17-Jul-14	20-Jul-14	Natural depression

Note: All Milne Ore Dock drill holes utilized seawater at the collar for water supply. 182

Note: All Deposit 1 drill holes utilized either the water trucks from the local camp site (MS-MRY-1) or a natural depression at 17 W 563295 7915294 as approved. 964

TABLE 2.1
BAFFINLAND IRON MINES CORPORATION
MARY RIVER PROJECT

2014 QIA AND NWB ANNUAL REPORT
DAILY, MONTHLY AND ANNUAL QUANTITIES OF WATER FOR CAMPS MARY RIVER PROJECT ON INUIT-OWNED LAND AND CROWN LANDS

Date	January			February				March			April			May			
	MS-MRY-1	MP-MRY-3	Total	MS-MRY-1	MRY-1 Other	MP-MRY-3	Total	MS-MRY-1	MP-MRY-3	Total	MS-MRY-1	MP-MRY-3	Total	MS-MRY-1	MS-MRY-1 Other	MP-MRY-3	Total
	(m ³)	(m ³)	(m ³)	(m ³)	(m ³)	(m ³)	(m ³)	(m ³)	(m ³)	(m ³)	(m ³)	(m ³)	(m ³)	(m ³)	(m ³)	(m ³)	(m ³)
1	20.1	0.0	20.1	87.8	0.0	15.1	103.0	61.3	30.3	91.6	36.8	15.1	51.9	20.0	0.0	30.3	50.3
2	25.0	7.6	32.6	60.9	0.0	24.6	85.6	70.0	30.3	100.3	70.4	45.4	115.8	54.0	0.0	45.4	99.4
3	14.8	30.3	45.0	26.5	0.0	30.3	56.8	40.9	30.3	71.2	0.0	45.4	45.4	38.7	0.0	30.3	69.0
4	18.2	30.3	48.5	35.2	0.0	30.3	65.5	40.9	30.3	71.2	56.8	30.3	87.1	46.0	0.0	30.3	76.3
5	21.6	15.1	36.7	23.1	0.0	15.1	38.2	81.8	30.3	112.0	39.4	15.1	54.5	39.2	0.0	30.3	69.5
6	23.1	26.5	49.6	42.4	0.0	15.1	57.5	40.9	30.3	71.2	45.8	15.1	60.9	29.7	0.0	30.3	60.0
7	31.8	15.1	46.9	34.1	0.0	30.3	64.4	40.9	30.3	71.2	45.4	30.3	75.7	47.8	0.0	30.3	78.1
8	18.9	15.1	34.1	24.2	0.0	30.3	54.5	58.7	15.1	73.8	23.1	30.3	53.4	27.0	0.0	45.4	72.4
9	18.9	30.3	49.2	33.3	0.0	30.3	63.6	16.7	30.3	46.9	44.7	30.3	75.0	46.4	0.0	30.3	76.7
10	45.0	30.3	75.3	18.5	0.0	15.1	33.7	51.1	15.1	66.2	43.9	15.1	59.1	44.4	0.0	30.3	74.7
11	33.3	30.3	63.6	55.6	0.0	15.1	70.8	60.9	30.3	91.2	20.8	30.3	51.1	47.2	0.0	30.3	77.5
12	37.9	15.1	53.0	62.5	0.0	30.3	92.7	62.8	15.1	78.0	60.2	45.4	105.6	73.2	0.0	30.3	103.5
13	27.6	45.4	73.1	20.8	0.0	15.1	36.0	20.4	15.1	35.6	40.1	30.3	70.4	38.0	0.0	0.0	38.0
14	28.8	15.1	43.9	21.6	0.0	30.3	51.9	0.0	30.3	30.3	31.8	30.3	62.1	52.0	0.0	0.0	52.0
15	25.0	45.4	70.4	51.1	0.0	15.1	66.2	80.6	15.1	95.8	40.9	30.3	71.2	28.9	0.0	30.3	59.2
16	24.2	15.1	39.4	20.1	0.0	30.3	50.3	81.8	15.1	96.9	41.3	30.3	71.5	47.3	0.0	30.3	77.6
17	46.2	15.1	61.3	51.1	0.0	15.1	66.2	61.3	15.1	76.5	36.3	30.3	66.6	50.0	0.0	15.1	65.1
18	40.1	30.3	70.4	18.9	0.0	15.1	34.1	61.3	15.1	76.5	36.3	30.3	66.6	28.2	0.0	30.3	58.5
19	44.7	30.3	75.0	35.5	0.0	15.1	50.6	81.8	15.1	96.9	37.5	30.3	67.8	48.8	0.0	30.3	79.1
20	45.4	30.3	75.7	26.9	0.0	15.1	42.0	229.4	15.1	244.5	59.1	30.3	89.3	42.2	0.0	15.1	57.4
21	23.8	30.3	54.1	26.5	0.0	30.3	56.8	0.0	15.1	15.1	48.1	30.3	78.4	40.4	7.6	30.3	78.3
22	45.4	15.1	60.6	48.1	24.6	15.1	87.8	0.0	30.3	30.3	36.7	30.3	67.0	37.8	9.5	30.3	77.6
23	42.4	15.1	57.5	24.6	0.0	15.1	39.7	38.2	30.3	68.5	32.6	30.3	62.8	37.8	9.5	30.3	77.5
24	36.7	22.7	59.4	19.3	21.6	30.3	71.2	64.7	15.1	79.9	28.0	30.3	58.3	53.4	7.6	30.3	91.2
25	26.5	45.4	71.9	64.4	0.0	30.3	94.6	0.0	15.1	15.1	37.1	15.1	52.2	78.3	11.4	30.3	119.9
26	17.8	30.3	48.1	0.0	0.0	15.1	15.1	0.0	45.4	45.4	33.3	30.3	63.6	41.4	11.4	30.3	83.0
27	39.0	15.1	54.1	40.9	0.0	30.3	71.2	40.9	30.3	71.2	22.3	30.3	52.6	37.4	11.4	30.3	79.0
28	38.2	15.1	53.4	12.5	0.0	30.3	42.8	115.8	15.1	131.0	42.0	30.3	72.3	81.3	9.5	0.0	90.7
29	39.0	30.3	69.3					23.5	45.4	68.9	25.0	30.3	55.3	20.3	9.5	30.3	60.0
30	21.6	15.1	36.7					70.4	30.3	100.7	24.2	30.3	54.5	36.2	11.4	30.3	77.9
31	18.2	15.1	33.3					23.5	30.3	53.8				50.4	7.6	30.3	88.3
Total	939.2	723.0	1,662.2	986.3	46.2	630.3	1,662.8	1,620.5	757.1	2,377.6	1,139.8	878.2	2,018.0	1,363.7	106.0	847.9	2,317.7

Date	June					July					August					
	MS-MRY-1	MS-MRY-1 Other	MP-MRY-3	MP-MRY-3 Other	Total	MS-MRY-1	MS-MRY-1 Other	MP-MRY-3	MP-MRY-3 Other	Total	MS-MRY-1	MS-MRY-1 Other	MP-MRY-3	MP-MRY-3 Other	MP-MRY-3 Pond	Total
	(m ³)	(m ³)	(m ³)	(m ³)	(m ³)	(m ³)	(m ³)	(m ³)	(m ³)	(m ³)	(m ³)	(m ³)	(m ³)	(m ³)	(m ³)	(m ³)
1	41.6	7.6	45.4	0.0	94.6	68.1	0.0	45.4	0.0	113.5	48.1	37.9	30.3	7.6	11.4	135.2
2	58.9	9.5	30.3	0.0	98.6	61.7	74.3	45.4	0.0	181.4	52.0	56.8	45.4	7.6	0.0	161.8
3	28.3	9.5	30.3	0.0	68.0	60.4	83.4	30.3	0.0	174.0	57.9	181.7	60.6	7.6	0.0	307.7
4	30.1	7.6	30.3	0.0	68.0	86.5	0.0	45.4	0.0	131.9	66.9	121.1	45.4	7.6	0.0	241.0
5	37.2	11.4	30.3	0.0	78.8	34.5	0.0	45.4	0.0	79.9	56.4	30.3	45.4	7.6	0.0	139.7
6	59.4	11.4	30.3	0.0	101.0	39.7	84.5	60.6	0.0	184.8	70.6	0.0	60.6	7.6	0.0	138.7
7	44.9	11.4	30.3	0.0	86.6	31.8	31.1	60.6	0.0	123.4	62.5	0.0	45.4	7.6	30.3	145.8
8	38.5	9.5	30.3	0.0	78.2	104.4	0.0	60.6	0.0	165.0	78.7	0.0	45.4	7.6	45.4	177.1
9	58.3	9.5	45.4	0.0	113.2	38.3	38.3	45.4	0.0	122.0	73.2	0.0	45.4	7.6	60.6	186.8
10	19.2	11.4	30.3	0.0	60.9	29.7	3.6	60.6	0.0	93.8	59.8	0.0	45.4	15.1	15.1	135.5
11	76.8	0.0	30.3	0.0	107.0	77.7	0.0	60.6	0.0	138.3	68.7	0.0	30.3	7.6	0.0	106.6
12	40.1	0.0	30.3	15.1	85.5	88.6	0.0	45.4	0.0	134.0	62.7	0.0	30.3	0.0	75.7	168.7
13	64.0	0.0	30.3	0.0	94.3	68.5	28.8	45.4	0.0	142.7	79.9	0.0	45.4	7.6	60.6	193.5
14	39.2	0.0	45.4	0.0	84.6	87.9	92.4	60.6	0.0	240.8	75.2	0.0	45.4	0.0	30.3	150.9
15	57.9	0.0	30.3	0.0	88.2	71.5	30.3	45.4	0.0	147.3	78.1	15.1	45.4	0.0	0.0	138.7
16	21.7	0.0	30.3	15.1	67.1	68.0	0.0	30.3	0.0	98.3	69.7	0.0	45.4	22.7	0.0	137.8
17	63.7	0.0	30.3	0.0	94.0	74.4	0.0	30.3	0.0	104.7	82.9	45.4	45.4	7.6	0.0	181.3
18	48.1	0.0	30.3	0.0	78.4	41.3	0.0	45.4	0.0	86.7	78.0	0.0	45.4	15.1	15.1	153.7
19	40.1	0.0	30.3	0.0	70.4	102.8	0.0	45.4	0.0	148.2	61.3	0.0	45.4	7.6	0.0	114.3
20	31.2	0.0	45.4	0.0	76.6	51.3	0.0	30.3	15.1	96.7	59.4	0.0	45.4	7.6	0.0	112.4
21	54.5	0.0	30.3	0.0	84.8	40.9	0.0	30.3	15.1	86.3	45.0	11.4	45.4	15.1	0.0	117.0
22	72.2	0.0	30.3	15.1	117.7	89.2	0.0	30.3	15.1	134.7	43.6	18.9	45.4	7.6	0.0	115.5
23	98.7	0.0	30.3	0.0	129.0	37.5	0.0	30.3	15.1	82.9	43.9	18.9	45.4	30.3	0.0	138.5
24	104.4	0.0	30.3	0.0	134.7	64.8	0.0	39.7	5.7	110.2	45.9	34.1	45.4	30.3	0.0	155.7
25	62.8	0.0	30.3	0.0	93.0	41.4	0.0	60.6	0.0	102.0	37.6	6.1	30.3	30.3	0.0	104.3
26	111.0	0.0	29.3	15.1	155.4	36.6	0.0	30.3	15.1	82.0	47.4	18.9	45.4	0.0	0.0	111.8
27	86.5	0.0	43.4	15.1	145.0	36.5	0.0	45.4	0.0	81.9	47.3	37.9	45.4	0.0	0.0	130.6
28	104.0	0.0	44.4	0.0	148.4	70.3	0.0	53.0	7.6	130.8	50.6	18.9	45.4	0.0	0.0	115.0
29	108.9	0.0	43.4	0.0	152.3	77.8	0.0	45.4	0.0	123.2	40.2	18.9	45.4	0.0	0.0	104.6
30	70.3	0.0	45.4	0.0	115.8	89.1	0.0	45.4	0.0	134.5	43.2	34.1	45.4	0.0	0.0	122.7
31						40.5	0.0	45.4	11.4	97.3	32.0	37.9	45.4	0.0	0.0	115.2
Total	1,772.5	98.4	1,023.5	75.7	2970.1	1911.6	466.5	1,394.9	100.3	3,873.4	1819.0	744.2	1,377.9	272.5	344.5	4,558.1



TABLE 2.1
BAFFINLAND IRON MINES CORPORATION
MARY RIVER PROJECT

2014 QIA AND NWB ANNUAL REPORT
DAILY, MONTHLY AND ANNUAL QUANTITIES OF WATER FOR CAMPS MARY RIVER PROJECT ON INUIT-OWNED LAND AND CROWN LANDS

Date	September						October						November					December		
	MS-MRY-1	MS-MRY-1 Other	MP-MRY-3	MP-MRY-3 Other	MP-MRY-3 Pond	Total	MS-MRY-1	MS-MRY-1 Other	MP-MRY-3	MP-MRY-3 Other	MP-MRY-3 Pond	Total	MS-MRY-1	MS-MRY-1 Other	MP-MRY-3	MP-MRY-3 Other	Total	MS-MRY-1	MP-MRY-3	Total
1	(m ³) 49.1	(m ³) 15.1	(m ³) 45.4	(m ³) 0.0	(m ³) 30.3	(m ³) 140.0	(m ³) 10.4	(m ³) 0.0	(m ³) 60.6	(m ³) 0.0	(m ³) 31.0	(m ³) 102.0	(m ³) 53.4	(m ³) 18.8	(m ³) 45.4	(m ³) 7.6	(m ³) 125.2	(m ³) 96.4	(m ³) 30.3	(m ³) 126.7
2	40.7	7.6	30.3	0.0	30.3	108.9	8.5	0.0	45.4	0.0	31.0	84.9	71.4	57.1	45.4	7.6	181.5	29.8	45.4	75.2
3	50.6	15.1	30.3	0.0	30.3	126.3	50.5	0.0	60.6	0.0	31.0	142.1	44.5	56.3	45.4	7.6	153.7	28.4	60.6	89.0
4	59.1	14.0	45.4	0.0	30.3	148.8	32.0	0.0	75.7	0.0	31.0	138.8	47.8	0.0	60.6	0.0	108.4	44.1	53.0	97.1
5	86.5	34.4	56.8	3.8	30.3	211.8	50.2	0.0	75.7	0.0	31.0	157.0	49.5	0.0	15.1	0.0	64.6	47.5	45.4	92.9
6	41.0	0.9	60.6	0.0	30.3	132.8	42.9	6.2	45.4	0.0	31.0	125.6	47.3	0.0	60.6	0.0	107.9	38.1	45.4	83.5
7	56.4	14.6	45.4	0.0	30.3	146.8	67.9	0.0	60.6	0.0	31.0	159.5	44.7	38.2	60.6	0.0	143.5	46.7	45.4	92.1
8	53.7	18.4	45.4	0.0	30.3	147.8	47.8	0.0	45.4	0.0	62.1	155.3	37.7	40.9	45.4	0.0	124.0	34.4	45.4	79.9
9	49.5	0.0	45.4	0.0	30.3	125.2	57.7	0.0	45.4	0.0	62.1	165.2	50.8	0.0	60.6	0.0	111.3	34.3	45.4	79.7
10	59.2	0.0	45.4	0.0	30.3	134.9	54.5	0.0	15.1	0.0	0.0	69.7	40.9	0.0	60.6	0.0	101.4	34.5	0.0	34.5
11	52.8	12.9	30.3	0.0	30.3	126.2	58.8	0.0	45.4	0.0	31.0	135.3	48.6	0.0	60.6	0.0	109.2	0.0	45.4	45.4
12	42.5	0.0	45.4	0.0	30.3	118.2	44.8	0.0	45.4	0.0	0.0	90.2	49.3	15.9	60.6	0.0	125.8	57.1	45.4	102.5
13	47.8	19.3	30.3	0.0	30.3	127.7	33.2	0.0	60.6	0.0	0.0	93.8	14.6	0.0	60.6	0.0	75.2	49.5	45.4	94.9
14	35.6	0.0	75.7	0.0	30.3	141.6	41.8	27.6	60.6	0.0	0.0	130.0	45.5	0.0	45.4	0.0	90.9	38.2	45.4	83.6
15	57.6	0.0	45.4	0.0	30.3	133.3	47.8	0.0	30.3	0.0	0.0	78.0	49.7	0.0	45.4	0.0	95.1	41.2	15.1	56.4
16	19.5	12.4	45.4	0.0	15.1	92.5	58.0	0.0	45.4	0.0	0.0	103.4	41.9	0.0	45.4	0.0	87.3	38.2	30.3	68.5
17	56.3	12.5	60.6	0.0	15.1	144.5	46.8	0.0	45.4	0.0	0.0	92.3	46.4	0.0	45.4	0.0	91.8	38.3	45.4	83.7
18	56.8	3.8	58.7	1.9	15.1	136.3	68.1	0.0	60.6	0.0	31.0	159.8	63.9	0.0	60.6	0.0	124.5	38.2	30.3	68.5
19	46.7	11.4	15.1	0.0	30.3	103.5	46.3	0.0	45.4	0.0	0.0	91.7	37.5	0.0	45.4	0.0	82.9	30.7	30.3	61.0
20	51.3	0.0	45.4	0.0	30.3	127.0	44.7	0.0	15.1	0.0	0.0	59.8	38.5	0.0	60.6	0.0	99.0	30.6	30.3	60.9
21	44.2	0.0	60.6	0.0	30.3	135.0	45.1	0.0	45.4	0.0	31.0	121.6	25.5	0.0	45.4	0.0	70.9	30.6	30.3	60.9
22	50.4	30.3	60.6	0.0	30.3	171.6	47.0	0.0	37.9	7.6	0.0	92.4	52.1	0.0	45.4	0.0	97.5	30.5	15.1	45.6
23	27.0	0.0	43.5	1.9	30.3	102.7	58.8	0.0	45.4	0.0	0.0	104.3	52.4	0.0	45.4	0.0	97.8	54.1	45.4	99.5
24	49.7	0.0	60.6	0.0	30.3	140.6	53.7	0.0	60.6	0.0	0.0	114.3	37.8	0.0	45.4	0.0	83.2	30.7	0.0	30.7
25	29.6	0.0	60.6	0.0	30.3	120.4	47.7	0.0	60.6	0.0	0.0	108.3	45.5	0.0	60.6	0.0	106.0	30.4	30.3	60.7
26	47.1	6.1	45.4	0.0	30.3	128.8	36.0	0.0	60.6	0.0	0.0	96.6	55.0	0.0	45.4	0.0	100.4	30.6	15.1	45.7
27	40.1	0.0	60.6	0.0	30.3	130.9	49.8	0.0	60.6	0.0	0.0	110.3	30.4	0.0	45.4	0.0	75.8	30.6	15.1	45.7
28	53.8	0.0	60.6	0.0	30.3	144.6	48.5	0.0	60.6	0.0	0.0	109.0	34.2	0.0	45.4	0.0	79.6	15.4	15.1	30.5
29	63.7	18.9	60.6	0.0	30.3	173.5	30.9	0.0	60.6	0.0	0.0	91.5	28.0	0.0	45.4	0.0	73.4	49.6	15.1	64.7
30	71.8	0.0	45.4	0.0	30.3	147.5	43.8	0.0	60.6	0.0	31.0	135.4	82.8	0.0	30.3	0.0	113.1	23.1	15.1	38.2
31						83.7	0.0	0.0	60.6	7.6	0.0	151.9					113.1	38.1	15.1	53.2
Total	1,490.3	247.7	1,461.2	7.6	863.1	4,069.7	1,457.7	33.8	1,597.4	15.1	465.6	3,569.7	1,367.3	227.1	1,483.9	22.7	3,101.0	1,159.7	991.8	2,151.5

Note:
MS-MRY-1 Camp Lake Freshwater Use (Mine Site) - Daily Potable Water (m³)
MS-MRY-1 Other Camp Lake Daily Freshwater Use for Other Purposes (m³)
MP-MRY-3 Km 32 Lake Milne Port Camp Daily Potable Water (m3) MP-MRY-3
MP-MRY-3 Other Km 32 Milne Port Daily Water for Other Purposes (m³)
MP-MRY-3 Pond Milne Pond Fresh Water Use for Construction Purposes (m3)
Potable water and water for other purposes was obtained solely from Inuit Owned Lands (IOL) sources in 2014

TABLE 2.2
BAFFINLAND IRON MINES CORPORATION
MARY RIVER PROJECT

2014 QIA AND NWB ANNUAL REPORT
MONTHLY AND ANNUAL QUANTITIES OF TREATED OILY WATER EFFLUENT

Day	June		July	
	MS-MRY-6	MP-03	MS-MRY-6	MP-03
1	0.0	0.0	9.1	0.0
2	0.0	0.0	0.0	0.0
3	0.0	0.0	1.6	0.0
4	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	26.5
8	0.0	0.0	0.0	1.9
9	0.0	0.0	0.0	15.1
10	0.0	0.0	0.0	43.9
11	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	13.6
13	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	35.2
15	0.0	0.0	0.0	17.8
16	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0
20	21.6	0.0	0.0	0.0
21	148.4	0.0	0.0	0.0
22	121.1	0.0	0.0	0.0
23	50.3	0.0	0.0	0.0
24	93.1	0.0	0.0	0.0
25	113.2	0.0	0.0	0.0
26	18.2	0.0	0.0	0.0
27	40.5	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0
31			0.0	0.0
Total	606.4	0.0	10.7	154.0

Annual Total: 760.4

Note: Water Licence Type "A" (2AM-MRY1325) monitoring IDs. Volumes in cubic metres

TABLE 2.3
BAFFINLAND IRON MINES CORPORATION
MARY RIVER PROJECT

2014 QIA AND NWB ANNUAL REPORT
MONTHLY AND ANNUAL QUANTITIES OF TREATED SEWAGE EFFLUENT AND SLUDGE REMOVED

	January		February			March		April		May		June			July			
Day	MS-MRY-4 *	MP-01	MS-MRY-4 *	MS-01	MP-01	MS-01	MP-01	MS-01	MP-01	MS-01	MP-01	MS-01	MP-01	MS-MRY-4c***	MS-01	MP-01	MS-MRY-4c***	MP-01a **
1	20.1	0.0	87.8	0.0	15.1	61.3	30.3	36.8	15.1	20.0	30.3	41.6	45.4	0.0	68.1	45.4	0.0	0.0
2	25.0	7.6	60.9	0.0	24.6	70.0	30.3	70.4	45.4	54.0	45.4	58.9	30.3	0.0	61.7	45.4	0.0	0.0
3	14.8	30.3	26.5	0.0	30.3	40.9	30.3	0.0	45.4	38.7	30.3	28.3	30.3	0.0	60.4	30.3	0.0	0.0
4	18.2	30.3	35.2	0.0	30.3	40.9	30.3	56.8	30.3	46.0	30.3	30.1	30.3	0.0	86.5	45.4	0.0	0.0
5	21.6	15.1	23.1	0.0	15.1	81.8	30.3	39.4	15.1	39.2	30.3	37.2	30.3	0.0	34.5	45.4	0.0	0.0
6	23.1	26.5	42.4	0.0	15.1	40.9	30.3	45.8	15.1	29.7	30.3	59.4	30.3	0.0	39.7	60.6	0.0	0.0
7	31.8	15.1	34.1	0.0	30.3	40.9	30.3	45.4	30.3	47.8	30.3	44.9	30.3	0.0	31.8	60.6	0.0	0.0
8	18.9	15.1	24.2	0.0	30.3	58.7	15.1	23.1	30.3	27.0	45.4	38.5	30.3	0.0	104.4	60.6	0.0	0.0
9	18.9	30.3	33.3	0.0	30.3	16.7	30.3	44.7	30.3	46.4	30.3	58.3	45.4	0.0	38.3	45.4	0.0	0.0
10	45.0	30.3	18.5	0.0	15.1	51.1	15.1	43.9	15.1	44.4	30.3	19.2	30.3	0.0	29.7	60.6	0.0	0.0
11	33.3	30.3	55.6	0.0	15.1	60.9	30.3	20.8	30.3	47.2	30.3	76.8	30.3	0.0	77.7	60.6	0.0	0.0
12	37.9	15.1	62.5	0.0	30.3	62.8	15.1	60.2	45.4	73.2	30.3	40.1	30.3	0.0	88.6	45.4	0.0	0.0
13	27.6	45.4	20.8	0.0	15.1	20.4	15.1	40.1	30.3	38.0	0.0	64.0	30.3	0.0	68.5	45.4	0.0	0.0
14	28.8	15.1	0.0	21.6	30.3	0.0	30.3	31.8	30.3	52.0	0.0	39.2	45.4	0.0	87.9	60.6	0.0	0.0
15	25.0	45.4	0.0	0.0	15.1	80.6	15.1	40.9	30.3	28.9	30.3	57.9	30.3	0.0	71.5	45.4	0.0	0.0
16	24.2	15.1	0.0	20.1	30.3	81.8	15.1	41.3	30.3	47.3	30.3	21.7	30.3	0.0	68.0	30.3	0.0	0.0
17	46.2	15.1	0.0	51.1	15.1	61.3	15.1	36.3	30.3	50.0	15.1	63.7	30.3	1.9	74.4	30.3	1.9	0.0
18	40.1	30.3	0.0	18.9	15.1	61.3	15.1	36.3	30.3	28.2	30.3	48.1	30.3	319.0	41.3	45.4	319.0	0.0
19	44.7	30.3	0.0	35.5	15.1	81.8	15.1	37.5	30.3	48.8	30.3	40.1	30.3	273.5	102.8	45.4	273.5	0.0
20	45.4	30.3	0.0	26.9	15.1	229.4	15.1	59.1	30.3	42.2	15.1	31.2	45.4	337.2	51.3	30.3	337.2	0.0
21	23.8	30.3	0.0	26.5	30.3	0.0	15.1	48.1	30.3	40.4	30.3	54.5	30.3	313.0	40.9	30.3	313.0	0.0
22	45.4	15.1	0.0	48.1	15.1	0.0	30.3	36.7	30.3	37.8	30.3	72.2	30.3	0.0	89.2	30.3	0.0	156.2
23	42.4	15.1	0.0	24.6	15.1	38.2	30.3	32.6	30.3	37.8	30.3	98.7	30.3	0.0	37.5	30.3	0.0	304.7
24	36.7	22.7	0.0	19.3	30.3	64.7	15.1	28.0	30.3	53.4	30.3	104.4	30.3	0.0	64.8	39.7	0.0	454.4
25	26.5	45.4	0.0	64.4	30.3	0.0	15.1	37.1	15.1	78.3	30.3	62.8	30.3	0.0	41.4	60.6	0.0	437.5
26	17.8	30.3	0.0	0.0	15.1	0.0	45.4	33.3	30.3	41.4	30.3	111.0	29.3	0.0	36.6	30.3	0.0	351.1
27	39.0	15.1	0.0	40.9	30.3	40.9	30.3	22.3	30.3	37.4	30.3	86.5	43.4	0.0	36.5	45.4	0.0	0.0
28	38.2	15.1	0.0	12.5	30.3	115.8	15.1	42.0	30.3	81.3	0.0	104.0	44.4	0.0	70.3	53.0	0.0	0.0
29	39.0	30.3				23.5	45.4	25.0	30.3	20.3	30.3	108.9	43.4	0.0	77.8	45.4	0.0	0.0
30	21.6	15.1				70.4	30.3	24.2	30.3	36.2	30.3	70.3	45.4	0.0	89.1	45.4	0.0	0.0
31	18.2	15.1				23.5	30.3		30.3	50.4	30.3		45.4	0.0	40.5	45.4	0.0	0.0
Total	939.2	723.0	525.0	461.3	630.3	1,620.5	757.1	1,139.8	878.2	1,363.7	847.9	1,772.5	1,023.5	1,244.6	1,911.6	1,394.9	1,244.6	1,703.9

Day	August			September			October		November		December	
	MS-01	MP-01	MS-MRY-4c***	MS-01	MP-01	MP-01a **	MS-01	MP-01	MS-01	MP-01	MS-01	MP-01
1	48.1	30.3	0.0	49.1	45.4	0.0	10.4	60.6	53.4	45.4	96.4	30.3
2	52.0	45.4	0.0	40.7	30.3	0.0	8.5	45.4	71.4	45.4	29.8	45.4
3	57.9	60.6	0.0	50.6	30.3	0.0	50.5	60.6	44.5	45.4	28.4	60.6
4	66.9	45.4	0.0	59.1	45.4	0.0	32.0	75.7	47.8	60.6	44.1	53.0
5	56.4	45.4	0.0	86.5	56.8	0.0	50.2	75.7	49.5	15.1	47.5	45.4
6	70.6	60.6	0.0	41.0	60.6	96.0	42.9	45.4	47.3	60.6	38.1	45.4
7	62.5	45.4	0.0	56.4	45.4	353.0	67.9	60.6	44.7	60.6	46.7	45.4
8	78.7	45.4	0.0	53.7	45.4	135.0	47.8	45.4	37.7	45.4	34.4	45.4
9	73.2	45.4	0.0	49.5	45.4	0.0	57.7	45.4	50.8	60.6	34.3	45.4
10	59.8	45.4	0.0	59.2	45.4	0.0	54.5	15.1	40.9	60.6	34.5	0.0
11	68.7	30.3	0.0	52.8	30.3	0.0	58.8	45.4	48.6	60.6	0.0	45.4
12	62.7	30.3	0.0	42.5	45.4	0.0	44.8	45.4	49.3	60.6	57.1	45.4
13	79.9	45.4	0.0	47.8	30.3	0.0	33.2	60.6	14.6	60.6	49.5	45.4
14	75.2	45.4	0.0	35.6	75.7	0.0	41.8	60.6	45.5	45.4	38.2	45.4
15	78.1	45.4	0.0	57.6	45.4	0.0	47.8	30.3	49.7	45.4	41.2	15.1
16	69.7	45.4	0.0	19.5	45.4	0.0	58.0	45.4	41.9	45.4	38.2	30.3
17	82.9	45.4	0.0	56.3	60.6	0.0	46.8	45.4	46.4	45.4	38.3	45.4
18	78.0	45.4	163.0	56.8	58.7	0.0	68.1	60.6	63.9	60.6	38.2	30.3
19	61.3	45.4	348.0	46.7	15.1	0.0	46.3	45.4	37.5	45.4	30.7	30.3
20	59.4	45.4	146.0	51.3	45.4	0.0	44.7	15.1	38.5	60.6	30.6	30.3
21	45.0	45.4	0.0	44.2	60.6	0.0	45.1	45.4	25.5	45.4	30.6	30.3
22	43.6	45.4	232.0	50.4	60.6	0.0	47.0	37.9	52.1	45.4	30.5	15.1
23	43.9	45.4	349.0	27.0	43.5	0.0	58.8	45.4	52.4	45.4	54.1	45.4
24	45.9	45.4	318.0	49.7	60.6	0.0	53.7	60.6	37.8	45.4	30.7	0.0
25	37.6	30.3	211.0	29.6	60.6	0.0	47.7	60.6	45.5	60.6	30.4	30.3
26	47.4	45.4	0.0	47.1	45.4	0.0	36.0	60.6	55.0	45.4	30.6	15.1
27	47.3	45.4	0.0	40.1	60.6	0.0	49.8	60.6	30.4	45.4	30.6	15.1
28	50.6	45.4	0.0	53.8	60.6	0.0	48.5	60.6	34.2	45.4	15.4	15.1
29	40.2	45.4	0.0	63.7	60.6	0.0	30.9	60.6	28.0	45.4	49.6	15.1
30	43.2	45.4	0.0	71.8	45.4	0.0	43.8	60.6	82.8	30.3	23.1	15.1
31	32.0	45.4	0.0				83.7	60.6			38.1	15.1
Total	1,819.0	1,377.9	1,767.0	1,490.3	1,461.2	584.0	1,457.7	1,597.4	1,367.3	1,483.9	1,159.7	991.8

The discharge of 1,244.6 m3 was discharged between June 17 - 21, 2014.
The duplicity of quatities reported in July for MS-MRY-04c was in error.

Month	Mine Site sludge pressed (m³)	Milne Port sludge pressed (m³)	Note: All sludge from WWTF pressed into cake and burned in Incinerators
January	0.0	0.0	
February	6.8	0.0	
March	5.5	1.5	
April	7.0	1.5	
May	11.3	2.0	
June	10.5	6.8	
July	11.8	10.7	
August	8.5	7.5	
September	12.5	6.3	
October	11.5	6.7	
November	12.5	7.1	
December	10.2	1.1	
Total	108.1	51.2	

Notes: All effluent from MS-01 (Mine Site Sewage Treatment Facilities) discharged to Mary River.
All effluent from MP-01 (Milne Port Sewage Treatment Facilities) discharged to Milne Inlet.
*All effluent from MS-MRY-4 (Mine Site Waste Water Treatment Facility (WWTF)) discharged to Polishing Waste Stabilization Ponds (PWSPs) Nos. 2 or 3.
** All effluent from MP-01a Milne Port PWSP discharged to Milne Inlet.
*** All effluent from MRY-4a,b,c (Mine Site PWSPs Nos. 2 and 3) discharged to Sheardown Lake.

TABLE 2.4

**BAFFINLAND IRON MINES CORPORATION
MARY RIVER PROJECT**

**2014 QIA AND NWB ANNUAL REPORT
LOCATION OF TEMPORARY AND PERMANENT STORAGE AREAS FOR WASTES**

Description	UTM Coordinates (NAD83)		Latitude	Longitude
	Easting	Northing		
	(m)	(m)		
Milne Port				
MP-HWB-1	503,869	7,976,308	71°53' 12.4"	80°53' 18.6"
MP-HWB-2	503,730	7,975,972	71°53' 01.6"	80°53' 33.1"
MP-HWB-3	503,543	7,975,959	71°53' 01.2"	80°53' 52.5"
MP-HWB-4	503,569	7,975,954	71°53' 01.0"	80°53' 49.8"
MP-HWB-5	503,583	7,975,945	71°53' 00.7"	80°53' 48.4"
MP-HWB-6	503,714	7,976,062	71°53' 04.5"	80°53' 34.7"
Port Site Landfarm	503,751	7,975,570	71°52' 48.6"	80°53' 30.9"
Milne Port Waste Stabilisation Pond (PWSP - MP-01a)	503,625	7,976,015	71°53' 03"	80°53' 44"
Mary River Mine Site				
MS-HWB-1	558,170	7,914,598	71°19' 35.5"	79°22' 19.2"
MS-HWB-2	558,200	7,914,585	71°19' 35.1"	79°22' 16.2"
MS-HWB-3	558,283	7,914,563	71°19' 34.3"	79°22' 08.0"
MS-HWB-4	558,295	7,914,551	71°19' 33.9"	79°22' 06.8"
MS-HWB-5	558,161	7,914,580	71°19' 34.9"	79°22' 20.1"
Mine Site Landfill	560,879	7,912,513	71°18' 25.9"	79°17' 51.8"
Exploration Camp Polishing Waste Stabilization Ponds (PWSP - MS-MRY-4a)	558,470	7,914,237	71°19' 23.6"	79°21' 50"
Mid-Rail				
Temporary hazardous waste and barrel fuel storage area	595,660	7,876,369	70°58' 19"	78°22' 13"
Steensby Port				
Temporary hazardous waste and barrel fuel storage area	594,679	7,800,514	70°17' 35"	78°29' 1"
Drilling Activities				
Natural depressions/sumps	Located adjacent to drillhole locations; refer to Table 1.3			

Note:

- Coordinates are approximate. Actual surveyed locations for waste storage areas for Milne Port and the Mine Site are shown on Figures 1.3 and 1.5.

TABLE 2.4.1

BAFFINLAND IRON MINES CORPORATION
MARY RIVER PROJECT

2014 QIA AND NWB ANNUAL REPORT
**MONTHLY AND ANNUAL QUANTITIES OF WASTE DISPOSED IN NON-
HAZARDOUS LANDFILL FACILITY**

Month and Year	Volume of Waste Deposited in Landfill (M³)	Comments
Jan-14	547	Jan-Mar waste volume is 1640 m ³ with 460 m ³ of cover material.
Feb-14	547	
Mar-14	547	
Apr-14	524	Apr-Jun waste volume is 1574 m3 with 330 m3 of cover.
May-14	524	
Jun-14	524	
Jul-14	428	Jul-Sep waste volume is 1284 m3 with 348 m3 of cover.
Aug-14	428	
Sep-14	428	
Oct-14	840	Oct-Dec waste volume is 2520 m3 with no assumed cover material.
Nov-14	840	
Dec-14	841	
Cumulative Total for 2014	7018	

TABLE 2.4.2

BAFFINLAND IRON MINES CORPORATION
MARY RIVER PROJECT

2014 QIA AND NWB ANNUAL REPORT

MONTHLY AND ANNUAL QUANTITIES OF HYDROCARBON IMPACTED SOIL AND SNOW DISPOSED AT LANDFARM FACILITY

Month and Year	Volume of Soil Deposited in Landfarm (M ³)	Volume of Snow Deposited in Landfarm (M ³)	Comments
Jan-14	0	0	
Feb-14	0	0	
Mar-14	0	0	
Apr-14	0	0	
May-14	0	0	
Jun-14	0	0	
Jul-14	0	0	
Aug-14	0	0	
Sep-14	1343	0	From Bladder Farm decommissioning.
Oct-14	30	0	
Nov-14	0	0	
Dec-14	0	4	
Cumulative Total for 2014	1373	4	

TABLE 2.4.3

BAFFINLAND IRON MINES CORPORATION
MARY RIVER PROJECT

2014 QIA AND NWB ANNUAL REPORT
MONTHLY AND YEARLY QUANTITIES OF ORE AND WASTE ROCK GENERATED AND USED OR DISPOSED OF

Month and Year	Volume of Ore Generated (BCM)	Volume of Waste Rock Generated (BCM)	Volume of Waste Rock Used for Construction Purposes (BCM)	Volume of Waste Rock Deposited in Waste Rock Storage Area (BCM)	Comments
Jan-14	0	0	0	0	
Feb-14	0	0	0	0	
Mar-14	0	0	0	0	
Apr-14	0	0	0	0	
May-14	0	0	0	0	
Jun-14	0	0	0	0	
Jul-14	0	0	0	0	
Aug-14	0	0	0	0	
Sep-14	6453	755	755	0	
Oct-14	14007	27577	27577	0	
Nov-14	24141	12173	12173	0	
Dec-14	14488	947	947	0	
Cumulative Total for 2014 (BCM m3)	59089	41452	41452	0	

Note: Volume of Ore Generated includes all Ore that has been removed from the pit.

TABLE 2.5

BAFFINLAND IRON MINES CORPORATION
MARY RIVER PROJECT

2014 QIA AND NWB ANNUAL REPORT
WATER LICENCE WATER QUALITY MONITORING LOCATIONS

Monitoring Station	Description	UTM Coordinates (NAD83)		Latitude	Longitude
		Easting	Northing		
		(m)	(m)		
Milne Port Site					
MP-MRY-2	Fresh Water Intake at Philips Creek (Summer)	514,503	7,964,579	71°46' 52" N	80°35' 4" W
MP-MRY-3	Fresh Water Intake from Km 32 Lake (Winter)	521,547	7,953,735	71°41' 00" N	80°23' 09" W
MP-01	Milne Port Sewage Treatment Facilities (discharge into ditch prior to ocean)	503,209	7,976,485	71°53' 18" N	80°54' 27" W
MP-01a	Milne Port Waste Stabilisation Pond (PWSP)	503,625	7,976,015	71°53' 03" N	80°53' 44" W
MP-02	Milne Port Maintenance Shop Oily water (WWTF)	503,754	7,976,209	71°53' 09" N	80°53' 30" W
MP-03	Milne Port Bulk Fuel Storage Facility Stormwater	503,638	7,976,272	71°52' 11" N	80°53' 43" W
MP-04	Milne Port Landfarm Facility Storm water	503,710	7,975,574	71°52' 49" N	80°53' 35" W
MP-MRY-04	Milne Exploration Phase Sewage Treatment Facilities (to become inactive after transition period)	503,462	7,975,764	71°52' 55" N	80°54' 1" W
MP-MRY-04a	Milne Exploration Phase Sewage PWSP (to become inactive after transition period)	503,344	7,976,118	71°53' 6" N	80°54' 13" W
MP-MRY-7	Milne Exploration Phase Bladder Farm Fuel Storage Facility Storm water (to become inactive after Transition period)	503,309	7,976,097	71°53' 6" N	80°54' 17" W
MP-MRY-12	Bulk Sample Stockpile Area Seepage	503,357	7,976,453	71°53' 17" N	80°54' 11" W
MP-C-A	Surface discharge downstream of construction area at Milne Port	503,214	7,976,483	71°53' 18" N	80°54' 27" W
MP-C-B		503,191	7,975,396	71°52' 43" N	80°54' 29" W
MP-C-C		503,436	7,975,427	71°52' 44.0" N	80°54' 03.7" W
MP-C-D		503,651	7,976,363	71°53' 14" N	80°53' 41" W
MP-C-E		503,736	7,976,346	71°53' 13.7" N	80°53' 32.4" W
MP-C-F		503,922	7,976,304	71°53' 12" N	80°53' 13" W
MP-C-G		502,939	7,976,238	71°53' 10.2" N	80°54' 55.1" W
MP-C-H		504,113	7,976,509	71°53' 18.9" N	80°52' 53.2" W
MP-Q1-01	Surface Runoff and or Discharge Quarries	503,828	7,975,062	71°52' 32" N	80°53' 23" W
MP-Q1-02		503,811	7,975,272	71°52' 39" N	80°53' 25" W
Mary River Mine Site					
MS-MRY-1	Fresh Water Intake from Camp Lake	557,793	7,914,684	71°19' 38.6" N	79°22' 57" W
MS-01	Mine Site Sewage Treatment Facilities	561,322	7,913,257	71°18' 49.4"	79°17' 5.6" W
MS-MRY-4	Exploration Camp Sewage Treatment Facility	558,141	7,914,427	71°19' 30" N	79°22' 22.6" W
MS-MRY-4a	Exploration Camp Polishing Waste Stabilization Ponds (PWSP)	558,470	7,914,237	71°19' 23.6" N	79°21' 50" W
MS-MRY-6	Exploration Camp Bulk Fuel Storage Facility (Bladder Farm) Stormwater	558,186	7,914,780	71°19' 41" N	79°22' 17" W
MS-MRY-9	Bulk Sample Open Pit - Surface water drainage (to become inactive in future)	563,246	7,914,632	71°19' 32" N	79°13' 48" W
MS-MRY-10	Bulk Sample Weathered Ore Stockpile - Downstream surface water drainage (to become inactive in the future)	563,488	7,915,197	71°19' 50" N	79°13' 22" W
MRY-11	Bulk Sample Processing - Downstream surface water discharge (to become inactive in the future)	560,690	7,913,350	71°18' 53" N	79°18' 09" W
MS-MRY-13a & MS-MRY-13b	Non-Hazarous Waste Landfill - Downstream surface water drainage	13a: 560,754 13b: 560,642	13a: 7,912,484 13b: 7,912,527	13a: 71°18' 25" N 13b: 71°18' 26.5" N	13a: 79°18' 5" W 13b: 79°18' 16.1" W
MS-C-A	Surface discharge downstream of construction area at Mine Site	561,263	7,913,571	71°19' 00" N	79°17' 11" W
MS-C-B		561,454	7,913,537	71°18' 58" N	79°16' 52" W
MS-C-C		561,110	7,913,199	71°18' 48" N	79°17' 27" W
MS-C-D		561,008	7,913,280	71°18' 50" N	79°17' 37" W
MS-C-E		560,980	7,913,388	71°18' 54" N	79°17' 40" W
MS-C-F		561,797	7,913,278	71°18' 49" N	79°16' 17" W
MS-C-G		561,813	7,911,830	71°18' 03" N	79°16' 20" W
MS-C-H		561,162	7,912,067	71°18' 11" N	79°17' 25" W
MQ-C-A	Surface Runoff and or Discharge Quarries	559,489	7,914,408	71°19' 28" N	79°20' 07" W
MQ-C-B		560,076	7,913,888	71°19' 11" N	79°19' 09" W
MQ-C-D		559,422	7,914,223	71°19' 23" N	79°20' 14" W

Notes:

Monitoring Station names beginning with MP-Q and MQ-C correspond to QIA Quarry Lease and Quarry Management Plans
The locations of the following Monitoring Stations have not been established at this stage of construction:

MS-01a	Mine Site Polishing/Waste Stabilization Pond (PWSP)
MS-02	Mine Site Maintenance Shop Oily Water WWTF
MS-03	Mine Site Bulk Fuel Storage Facility Stormwater
MS-04	Mine Site Fuel Unloading Station Stormwater
MS-05	Mine Site Landfarm Facility Stormwater
MS-06+	Ore Stockpile Pond Stormwater
MS-07	Run of Mine Ore Stockpile Pond Stormwater
MS-08	Waste Rock Stockpile West pond
MS-09	Waste Rock Stockpile East pond

TABLE 2.8

BAFFINLAND IRON MINES CORPORATION
MARY RIVER PROJECT

2014 ANNUAL REPORT TO THE NUNAVUT WATER BOARD
WATER QUALITY RESULTS FOR WATER LICENCE MONITORING LOCATIONS

Sample Number	Sample ID	Date Sampled	Parameter Name	Result	Unit	Lab
MILNE PORT						
1080947	MP-01	2-Jan-14	Biochemical Oxygen Demand	2	mg/L	Exova
1080951	MP-01	2-Jan-14	Faecal Coliforms	0	ct/100mL	Exova
1080947	MP-01	2-Jan-14	Total Kjeldahl Nitrogen	0.32	mg/L	Exova
1080947	MP-01	2-Jan-14	N-NH3 (Ammonia)	0.19	mg/L	Exova
1080947	MP-01	2-Jan-14	Oil & Grease - Total	<1	mg/L	Exova
1080947	MP-01	2-Jan-14	Total Suspended Solids	<2	mg/L	Exova
1080947	MP-01	2-Jan-14	pH	7.82	pH units	Exova
1080948	**MP-0101	2-Jan-14	Biochemical Oxygen Demand	2	mg/L	Exova
1080952	**MP-0101	2-Jan-14	Faecal Coliforms	0	ct/100mL	Exova
1080948	**MP-0101	2-Jan-14	Total Kjeldahl Nitrogen	0.26	mg/L	Exova
1080948	**MP-0101	2-Jan-14	N-NH3 (Ammonia)	0.11	mg/L	Exova
1080948	**MP-0101	2-Jan-14	Oil & Grease - Total	<1	mg/L	Exova
1080948	**MP-0101	2-Jan-14	Total Suspended Solids	<2	mg/L	Exova
1080948	**MP-0101	2-Jan-14	pH	7.84	pH units	Exova
1081261	MP-01	7-Jan-14	Biochemical Oxygen Demand	<1	mg/L	Exova
1081264	MP-01	7-Jan-14	Faecal Coliforms	0	ct/100mL	Exova
1081261	MP-01	7-Jan-14	Total Kjeldahl Nitrogen	1.2	mg/L	Exova
1081261	MP-01	7-Jan-14	N-NH3 (Ammonia)	0.11	mg/L	Exova
1081261	MP-01	7-Jan-14	Oil & Grease - Total	3	mg/L	Exova
1081261	MP-01	7-Jan-14	Total Suspended Solids	<2	mg/L	Exova
1081261	MP-01	7-Jan-14	pH	7.91	pH units	Exova
1082633	MP-01	14-Jan-14	Biochemical Oxygen Demand	1	mg/L	Exova
1082635	MP-01	14-Jan-14	Faecal Coliforms	0	ct/100mL	Exova
1082633	MP-01	14-Jan-14	Total Kjeldahl Nitrogen	1.98	mg/L	Exova
1082633	MP-01	14-Jan-14	N-NH3 (Ammonia)	0.09	mg/L	Exova
1082633	MP-01	14-Jan-14	Oil & Grease - Total	<1	mg/L	Exova
1082633	MP-01	14-Jan-14	Total Suspended Solids	<2	mg/L	Exova
1082633	MP-01	14-Jan-14	pH	7.85	pH units	Exova
1083721	MP-01	21-Jan-14	Biochemical Oxygen Demand	2	mg/L	Exova
1083723	MP-01	21-Jan-14	Faecal Coliforms	0	ct/100mL	Exova
1083721	MP-01	21-Jan-14	Total Kjeldahl Nitrogen	1.39	mg/L	Exova
1083721	MP-01	21-Jan-14	N-NH3 (Ammonia)	0.13	mg/L	Exova
1083721	MP-01	21-Jan-14	Oil & Grease - Total	<1	mg/L	Exova
1083721	MP-01	21-Jan-14	Total Suspended Solids	<2	mg/L	Exova
1083721	MP-01	21-Jan-14	pH	7.92	pH units	Exova
1084752	MP-01	28-Jan-14	Biochemical Oxygen Demand	5	mg/L	Exova
1084754	MP-01	28-Jan-14	Faecal Coliforms	0	ct/100mL	Exova
1084752	MP-01	28-Jan-14	Total Kjeldahl Nitrogen	0.63	mg/L	Exova
1084752	MP-01	28-Jan-14	N-NH3 (Ammonia)	0.13	mg/L	Exova
1084752	MP-01	28-Jan-14	Oil & Grease - Total	<1	mg/L	Exova
1084752	MP-01	28-Jan-14	Total Suspended Solids	3.4	mg/L	Exova
1084752	MP-01	28-Jan-14	pH	7.92	pH units	Exova
1084752	MP-01	28-Jan-14	*Toxicity	Non-lethal		Exova
MARY RIVER MINE SITE						
1080941	MS-MRY-04	2-Jan-14	Biochemical Oxygen Demand	12	mg/L	Exova
1080943	MS-MRY-04	2-Jan-14	Faecal Coliforms	5	ct/100mL	Exova
1080941	MS-MRY-04	2-Jan-14	Total Kjeldahl Nitrogen	4.12	mg/L	Exova
1080941	MS-MRY-04	2-Jan-14	N-NH3 (Ammonia)	0.66	mg/L	Exova
1080941	MS-MRY-04	2-Jan-14	Oil & Grease - Total	5	mg/L	Exova
1080941	MS-MRY-04	2-Jan-14	Total Phosphorus	2.49	mg/L	Exova
1080941	MS-MRY-04	2-Jan-14	Total Suspended Solids	21	mg/L	Exova
1080941	MS-MRY-04	2-Jan-14	pH	7.59	pH units	Exova
1081258	MS-MRY-04	7-Jan-14	Biochemical Oxygen Demand	21	mg/L	Exova
1081260	MS-MRY-04	7-Jan-14	Faecal Coliforms	1260	ct/100mL	Exova
1081258	MS-MRY-04	7-Jan-14	Total Kjeldahl Nitrogen	8.71	mg/L	Exova
1081258	MS-MRY-04	7-Jan-14	N-NH3 (Ammonia)	5.19	mg/L	Exova
1081258	MS-MRY-04	7-Jan-14	Oil & Grease - Total	<1	mg/L	Exova
1081258	MS-MRY-04	7-Jan-14	Total Phosphorus	4.16	mg/L	Exova
1081258	MS-MRY-04	7-Jan-14	Total Suspended Solids	26	mg/L	Exova
1081258	MS-MRY-04	7-Jan-14	pH	7.75	pH units	Exova
1084226	MS-MRY-04	23-Jan-14	Biochemical Oxygen Demand	12	mg/L	Exova
1084227	MS-MRY-04	23-Jan-14	Faecal Coliforms	190	ct/100mL	Exova
1084226	MS-MRY-04	23-Jan-14	Total Kjeldahl Nitrogen	18.5	mg/L	Exova
1084226	MS-MRY-04	23-Jan-14	N-NH3 (Ammonia)	17.2	mg/L	Exova
1084226	MS-MRY-04	23-Jan-14	Oil & Grease - Total	3	mg/L	Exova
1084226	MS-MRY-04	23-Jan-14	Total Phosphorus	3.47	mg/L	Exova
1084226	MS-MRY-04	23-Jan-14	Total Suspended Solids	9	mg/L	Exova
1084226	MS-MRY-04	23-Jan-14	pH	7.66	pH units	Exova
1084720	MS-MRY-04	28-Jan-14	Biochemical Oxygen Demand	19	mg/L	Exova
1084722	MS-MRY-04	28-Jan-14	Faecal Coliforms	160	ct/100mL	Exova
1084720	MS-MRY-04	28-Jan-14	Total Kjeldahl Nitrogen	10.7	mg/L	Exova
1084720	MS-MRY-04	28-Jan-14	N-NH3 (Ammonia)	7.53	mg/L	Exova
1084720	MS-MRY-04	28-Jan-14	Oil & Grease - Total	2	mg/L	Exova
1084720	MS-MRY-04	28-Jan-14	Total Phosphorus	4.11	mg/L	Exova
1084720	MS-MRY-04	28-Jan-14	Total Suspended Solids	19	mg/L	Exova
1084720	MS-MRY-04	28-Jan-14	pH	7.51	pH units	Exova
1080954	MS-01	2-Jan-14	Biochemical Oxygen Demand	22	mg/L	Exova
1080958	MS-01	2-Jan-14	Faecal Coliforms	400	ct/100mL	Exova
1080954	MS-01	2-Jan-14	Total Kjeldahl Nitrogen	18.5	mg/L	Exova
1080954	MS-01	2-Jan-14	N-NH3 (Ammonia)	8.52	mg/L	Exova
1080954	MS-01	2-Jan-14	Oil & Grease - Total	<1	mg/L	Exova
1080954	MS-01	2-Jan-14	Total Phosphorus	29.7	mg/L	Exova
1080954	MS-01	2-Jan-14	Total Suspended Solids	28	mg/L	Exova
1080954	MS-01	2-Jan-14	pH	7.5	pH units	Exova
1081252	MS-01	7-Jan-14	Biochemical Oxygen Demand	53	mg/L	Exova
1081254	MS-01	7-Jan-14	Faecal Coliforms	140	ct/100mL	Exova
1081252	MS-01	7-Jan-14	Total Kjeldahl Nitrogen	18.9	mg/L	Exova
1081252	MS-01	7-Jan-14	N-NH3 (Ammonia)	16.7	mg/L	Exova
1081252	MS-01	7-Jan-14	Oil & Grease - Total	<1	mg/L	Exova
1081252	MS-01	7-Jan-14	Total Phosphorus	21.9	mg/L	Exova
1081252	MS-01	7-Jan-14	Total Suspended Solids	10	mg/L	Exova
1081252	MS-01	7-Jan-14	pH	7.34	pH units	Exova
1084223	MS-01	23-Jan-14	Biochemical Oxygen Demand	2	mg/L	Exova
1084224	MS-01	23-Jan-14	Faecal Coliforms	17	ct/100mL	Exova
1084223	MS-01	23-Jan-14	Total Kjeldahl Nitrogen	1.19	mg/L	Exova
1084223	MS-01	23-Jan-14	N-NH3 (Ammonia)	0.09	mg/L	Exova
1084223	MS-01	23-Jan-14	Oil & Grease - Total	<1	mg/L	Exova
1084223	MS-01	23-Jan-14	Total Phosphorus	12.7	mg/L	Exova
1084223	MS-01	23-Jan-14	Total Suspended Solids	<2	mg/L	Exova
1084223	MS-01	23-Jan-14	pH	7.98	pH units	Exova
1084737	MS-01	28-Jan-14	Biochemical Oxygen Demand	4	mg/L	Exova
1084751	MS-01	28-Jan-14	Faecal Coliforms	140	ct/100mL	Exova
1084737	MS-01	28-Jan-14	Total Kjeldahl Nitrogen	0.76	mg/L	Exova
1084737	MS-01	28-Jan-14	N-NH3 (Ammonia)	0.6	mg/L	Exova
1084737	MS-01	28-Jan-14	Oil & Grease - Total	<1	mg/L	Exova
1084737	MS-01	28-Jan-14	Total Phosphorus	0.17	mg/L	Exova
1084737	MS-01	28-Jan-14	Total Suspended Solids	4	mg/L	Exova
1084737	MS-01	28-Jan-14	pH	7.84	pH units	Exova
1084737	MS-01	28-Jan-14	*Toxicity	Non-lethal		Exova
1085204	MS-01	30-Jan-14	Biochemical Oxygen Demand	6	mg/L	Exova
1085205	MS-01	30-Jan-14	Faecal Coliforms	130	ct/100mL	Exova
1085204	MS-01	30-Jan-14	Total Kjeldahl Nitrogen	1.01	mg/L	Exova
1085204	MS-01	30-Jan-14	N-NH3 (Ammonia)	0.32	mg/L	Exova
1085204	MS-01	30-Jan-14	Oil & Grease - Total	<1	mg/L	Exova
1085204	MS-01	30-Jan-14	Total Phosphorus	0.26	mg/L	Exova
1085204	MS-01	30-Jan-14	Total Suspended Solids	16	mg/L	Exova
1085204	MS-01	30-Jan-14	pH	7.79	pH units	Exova

Exceedances to the Water Licence criteria are indicated by yellow shading. Sample Stations MS-MRY-04 (Mine Site RBC) and MS-01 (Mine Site MBR) showed exceedances for several parameters during January.

The discharge from the WWTPs was not to the receiving environment, but was to the PWSP, a lined and engineered containment pond. In the spring, after melt, the effluent will be resampled and re-treated if necessary prior to discharge to the receiving environment. The non-compliances for MS-MRY-04 and MS-01 were due to the decommissioning and commissioning process (for the exploration camp RBC and the new MBR, respectively) which caused upset conditions in the plants. The RBC (MS-MRY-04) was in the process of being phased out and is soon to be replaced shortly with the new MBR plant.

*Note: Acute lethality to Rainbow trout, *Oncorhynchus mykiss* (as per Environment Canada's Environmental Protection Series Method EPS/1/RM/13)

Acute lethality to *Daphnia magna* (as per Environment Canada's Environmental Protection Series Biological Test Method EPS/1/RM/14).

**Note: MP-0101 is a field duplicate of MP-01.

TABLE 2.8

BAFFINLAND IRON MINES CORPORATION
MARY RIVER PROJECT2014 ANNUAL REPORT TO THE NUNAVUT WATER BOARD
WATER QUALITY RESULTS FOR WATER LICENCE MONITORING LOCATIONS

Sample Number	Sample ID	Date Sampled	Parameter Name	Result	Unit	Lab
MILNE PORT						
1085952	MP-01	4-Feb-14	Biochemical Oxygen Demand	5	mg/L	Exova
1085954	MP-01	4-Feb-14	Faecal Coliforms	0	ct/100mL	Exova
1085952	MP-01	4-Feb-14	Total Kjeldahl Nitrogen	0.12	mg/L	Exova
1085952	MP-01	4-Feb-14	N-NH3 (Ammonia)	0.09	mg/L	Exova
1085952	MP-01	4-Feb-14	Oil & Grease - Total	<1	mg/L	Exova
1085952	MP-01	4-Feb-14	Total Suspended Solids	6	mg/L	Exova
1085952	MP-01	4-Feb-14	pH	7.95	pH units	Exova
1087024	MP-01	11-Feb-14	Biochemical Oxygen Demand	7	mg/L	Exova
1087026	MP-01	11-Feb-14	Faecal Coliforms	0	ct/100mL	Exova
1087024	MP-01	11-Feb-14	Total Kjeldahl Nitrogen	1.03	mg/L	Exova
1087024	MP-01	11-Feb-14	N-NH3 (Ammonia)	0.28	mg/L	Exova
1087024	MP-01	11-Feb-14	Oil & Grease - Total	<1	mg/L	Exova
1087024	MP-01	11-Feb-14	Total Suspended Solids	4	mg/L	Exova
1087024	MP-01	11-Feb-14	pH	7.98	pH units	Exova
1088012	MP-01	18-Feb-14	Biochemical Oxygen Demand	4	mg/L	Exova
1088014	MP-01	18-Feb-14	Faecal Coliforms	0	ct/100mL	Exova
1088012	MP-01	18-Feb-14	Total Kjeldahl Nitrogen	0.84	mg/L	Exova
1088012	MP-01	18-Feb-14	N-NH3 (Ammonia)	0.14	mg/L	Exova
1088012	MP-01	18-Feb-14	Oil & Grease - Total	<1	mg/L	Exova
1088012	MP-01	18-Feb-14	Total Suspended Solids	2	mg/L	Exova
1088012	MP-01	18-Feb-14	pH	8.05	pH units	Exova
1089629	MP-01	25-Feb-14	Biochemical Oxygen Demand	2	mg/L	Exova
1089631	MP-01	25-Feb-14	Faecal Coliforms	65	ct/100mL	Exova
1089629	MP-01	25-Feb-14	Total Kjeldahl Nitrogen	1.32	mg/L	Exova
1089629	MP-01	25-Feb-14	N-NH3 (Ammonia)	0.16	mg/L	Exova
1089629	MP-01	25-Feb-14	Oil & Grease - Total	<1	mg/L	Exova
1089629	MP-01	25-Feb-14	Total Suspended Solids	<2	mg/L	Exova
1089629	MP-01	25-Feb-14	pH	8.06	pH units	Exova
MARY RIVER MINE SITE						
1087031	MS-MRY-04	11-Feb-14	Biochemical Oxygen Demand	13	mg/L	Exova
1087034	MS-MRY-04	11-Feb-14	Faecal Coliforms	40	ct/100mL	Exova
1087031	MS-MRY-04	11-Feb-14	Total Kjeldahl Nitrogen	14.2	mg/L	Exova
1087031	MS-MRY-04	11-Feb-14	N-NH3 (Ammonia)	10.9	mg/L	Exova
1087031	MS-MRY-04	11-Feb-14	Oil & Grease - Total	5	mg/L	Exova
1087031	MS-MRY-04	11-Feb-14	Total Phosphorus	4.75	mg/L	Exova
1087031	MS-MRY-04	11-Feb-14	Total Suspended Solids	8	mg/L	Exova
1087031	MS-MRY-04	11-Feb-14	pH	7.55	pH units	Exova
1085956	MS-01	4-Feb-14	Biochemical Oxygen Demand	3	mg/L	Exova
1085958	MS-01	4-Feb-14	Faecal Coliforms	2	ct/100mL	Exova
1085956	MS-01	4-Feb-14	Total Kjeldahl Nitrogen	0.15	mg/L	Exova
1085956	MS-01	4-Feb-14	N-NH3 (Ammonia)	0.12	mg/L	Exova
1085956	MS-01	4-Feb-14	Oil & Grease - Total	<1	mg/L	Exova
1085956	MS-01	4-Feb-14	Total Phosphorus	0.389	mg/L	Exova
1085956	MS-01	4-Feb-14	Total Suspended Solids	35	mg/L	Exova
1085956	MS-01	4-Feb-14	pH	7.72	pH units	Exova
1087029	MS-01	11-Feb-14	Biochemical Oxygen Demand	3	mg/L	Exova
1087033	MS-01	11-Feb-14	Faecal Coliforms	0	ct/100mL	Exova
1087029	MS-01	11-Feb-14	Total Kjeldahl Nitrogen	<0.10	mg/L	Exova
1087029	MS-01	11-Feb-14	N-NH3 (Ammonia)	0.09	mg/L	Exova
1087029	MS-01	11-Feb-14	Oil & Grease - Total	<1	mg/L	Exova
1087029	MS-01	11-Feb-14	Total Phosphorus	0.13	mg/L	Exova
1087029	MS-01	11-Feb-14	Total Suspended Solids	18	mg/L	Exova
1087029	MS-01	11-Feb-14	pH	7.80	pH units	Exova
1088016	MS-01	18-Feb-14	Biochemical Oxygen Demand	5	mg/L	Exova
1088018	MS-01	18-Feb-14	Faecal Coliforms	0	ct/100mL	Exova
1088016	MS-01	18-Feb-14	Total Kjeldahl Nitrogen	2.45	mg/L	Exova
1088016	MS-01	18-Feb-14	N-NH3 (Ammonia)	2.2	mg/L	Exova
1088016	MS-01	18-Feb-14	Oil & Grease - Total	<1	mg/L	Exova
1088016	MS-01	18-Feb-14	Total Phosphorus	0.18	mg/L	Exova
1088016	MS-01	18-Feb-14	Total Suspended Solids	4	mg/L	Exova
1088016	MS-01	18-Feb-14	pH	7.72	pH units	Exova
1089633	MS-01	25-Feb-14	Biochemical Oxygen Demand	2	mg/L	Exova
1089636	MS-01	25-Feb-14	Faecal Coliforms	0	ct/100mL	Exova
1089633	MS-01	25-Feb-14	Total Kjeldahl Nitrogen	0.32	mg/L	Exova
1089633	MS-01	25-Feb-14	N-NH3 (Ammonia)	0.31	mg/L	Exova
1089633	MS-01	25-Feb-14	Oil & Grease - Total	2	mg/L	Exova
1089633	MS-01	25-Feb-14	Total Phosphorus	0.13	mg/L	Exova
1089633	MS-01	25-Feb-14	Total Suspended Solids	2	mg/L	Exova
1089633	MS-01	25-Feb-14	pH	7.78	pH units	Exova
1089634	MS-0101	25-Feb-14	Biochemical Oxygen Demand	<1	mg/L	Exova
1089637	MS-0101	25-Feb-14	Faecal Coliforms	0	ct/100mL	Exova
1089634	MS-0101	25-Feb-14	Total Kjeldahl Nitrogen	0.48	mg/L	Exova
1089634	MS-0101	25-Feb-14	N-NH3 (Ammonia)	0.4	mg/L	Exova
1089634	MS-0101	25-Feb-14	Oil & Grease - Total	<1	mg/L	Exova
1089634	MS-0101	25-Feb-14	Total Phosphorus	0.16	mg/L	Exova
1089634	MS-0101	25-Feb-14	Total Suspended Solids	4	mg/L	Exova
1089634	MS-0101	25-Feb-14	pH	7.70	pH units	Exova

Exceedances to the Water Licence criteria are indicated by yellow shading. Sample Stations MS-MRY-04 (Mine Site RBC) and MS-01 (Mine Site MBR) showed exceedances for several parameters at the beginning of February. Up until February 14th the discharge from the WWTFs was not to the receiving environment, but was to the PWSP, a lined and engineered containment pond. In the spring, after melt, the effluent will be resampled and re-treated if necessary prior to discharge to the receiving environment. The RBC was in an upset condition due in part to the fluctuating loadings received during the commissioning of the new sewage treatment plant (MS-01). As of February 14th, effluent from MS-01 is being discharged to Location #1. The RBC was taken offline as of February 24th.

****Note:** MS-0101 is a field duplicate of MS-01.

MILNE PORT						
1090474	MP-01	4-Mar-14	Biochemical Oxygen Demand	3	mg/L	Exova
1090476	MP-01	4-Mar-14	Faecal Coliforms	10	ct/100mL	Exova
1090474	MP-01	4-Mar-14	Total Kjeldahl Nitrogen	0.92	mg/L	Exova
1090474	MP-01	4-Mar-14	N-NH3 (Ammonia)	0.3	mg/L	Exova
1090474	MP-01	4-Mar-14	Oil & Grease - Total	<1	mg/L	Exova
1090474	MP-01	4-Mar-14	Total Suspended Solids	2	mg/L	Exova
1090474	MP-01	4-Mar-14	pH	8.16	pH units	Exova
1091981	MP-01	12-Mar-14	Biochemical Oxygen Demand	2	mg/L	Exova
1091983	MP-01	12-Mar-14	Faecal Coliforms	0	ct/100mL	Exova
1091981	MP-01	12-Mar-14	Total Kjeldahl Nitrogen	1.52	mg/L	Exova
1091981	MP-01	12-Mar-14	N-NH3 (Ammonia)	0.21	mg/L	Exova
1091981	MP-01	12-Mar-14	Oil & Grease - Total	<1	mg/L	Exova
1091981	MP-01	12-Mar-14	Total Suspended Solids	5	mg/L	Exova
1091981	MP-01	12-Mar-14	pH	7.63	pH units	Exova
1093120	MP-01	18-Mar-14	Biochemical Oxygen Demand	2	mg/L	Exova
1093122	MP-01	18-Mar-14	Faecal Coliforms	1	ct/100mL	Exova
1093120	MP-01	18-Mar-14	Total Kjeldahl Nitrogen	2.19	mg/L	Exova
1093120	MP-01	18-Mar-14	N-NH3 (Ammonia)	0.32	mg/L	Exova
1093120	MP-01	18-Mar-14	Oil & Grease - Total	<1	mg/L	Exova
1093120	MP-01	18-Mar-14	Total Suspended Solids	10	mg/L	Exova
1093120	MP-01	18-Mar-14	pH	7.86	pH units	Exova
1094288	MP-01	25-Mar-14	Biochemical Oxygen Demand	6	mg/L	Exova
*	MP-01	25-Mar-14	Faecal Coliforms	*	ct/100mL	Exova
1094288	MP-01	25-Mar-14	Total Kjeldahl Nitrogen	1.29	mg/L	Exova
1094288	MP-01	25-Mar-14	N-NH3 (Ammonia)	0.26	mg/L	Exova
1094288	MP-01	25-Mar-14	Oil & Grease - Total	2	mg/L	Exova
1094288	MP-01	25-Mar-14	Total Suspended Solids	10	mg/L	Exova
1094288	MP-01	25-Mar-14	pH	7.88	pH units	Exova
MARY RIVER MINE SITE						
1090481	MS-01	4-Mar-14	Biochemical Oxygen Demand	2	mg/L	Exova
1090487	MS-01	4-Mar-14	Faecal Coliforms	3	ct/100mL	Exova
1090481	MS-01	4-Mar-14	Total Kjeldahl Nitrogen	0.94	mg/L	Exova
1090481	MS-01	4-Mar-14	N-NH3 (Ammonia)	0.14	mg/L	Exova
1090481	MS-01	4-Mar-14	Oil & Grease - Total	<1	mg/L	Exova
1090481	MS-01	4-Mar-14	Total Phosphorus	0.2	mg/L	Exova
1090481	MS-01	4-Mar-14	Total Suspended Solids	5	mg/L	Exova
1090481	MS-01	4-Mar-14	pH	7.86	pH units	Exova
1090484	MS-0101	4-Mar-14	Biochemical Oxygen Demand	1	mg/L	Exova
1090489	MS-0101	4-Mar-14	Faecal Coliforms	1	ct/100mL	Exova
1090484	MS-0101	4-Mar-14	Total Kjeldahl Nitrogen	1.95	mg/L	Exova

TABLE 2.8

BAFFINLAND IRON MINES CORPORATION
MARY RIVER PROJECT

2014 ANNUAL REPORT TO THE NUNAVUT WATER BOARD
WATER QUALITY RESULTS FOR WATER LICENCE MONITORING LOCATIONS

Sample Number	Sample ID	Date Sampled	Parameter Name	Result	Unit	Lab
1090484	MS-0101	4-Mar-14	N-NH3 (Ammonia)	1.68	mg/L	Exova
1090484	MS-0101	4-Mar-14	Oil & Grease - Total	<1	mg/L	Exova
1090484	MS-0101	4-Mar-14	Total Phosphorus	0.24	mg/L	Exova
1090484	MS-0101	4-Mar-14	Total Suspended Solids	4	mg/L	Exova
1090484	MS-0101	4-Mar-14	pH	7.09	pH units	Exova
1090485	MS-0102	4-Mar-14	Biochemical Oxygen Demand	<1	mg/L	Exova
1090490	MS-0102	4-Mar-14	Faecal Coliforms	0	ct/100mL	Exova
1090485	MS-0102	4-Mar-14	Total Kjeldahl Nitrogen	0.27	mg/L	Exova
1090485	MS-0102	4-Mar-14	N-NH3 (Ammonia)	0.17	mg/L	Exova
1090485	MS-0102	4-Mar-14	Oil & Grease - Total	<1	mg/L	Exova
1090485	MS-0102	4-Mar-14	Total Phosphorus	<0.01	mg/L	Exova
1090485	MS-0102	4-Mar-14	Total Suspended Solids	<2	mg/L	Exova
1090485	MS-0102	4-Mar-14	pH	5.5	pH units	Exova
1090486	MS-0103	4-Mar-14	Biochemical Oxygen Demand	<1	mg/L	Exova
1090491	MS-0103	4-Mar-14	Faecal Coliforms	0	ct/100mL	Exova
1090486	MS-0103	4-Mar-14	Total Kjeldahl Nitrogen	0.29	mg/L	Exova
1090486	MS-0103	4-Mar-14	N-NH3 (Ammonia)	0.15	mg/L	Exova
1090486	MS-0103	4-Mar-14	Oil & Grease - Total	<1	mg/L	Exova
1090486	MS-0103	4-Mar-14	Total Phosphorus	<0.01	mg/L	Exova
1090486	MS-0103	4-Mar-14	Total Suspended Solids	<2	mg/L	Exova
1090486	MS-0103	4-Mar-14	pH	5.56	pH units	Exova
1091971	MS-01	12-Mar-14	Biochemical Oxygen Demand	<1	mg/L	Exova
1091973	MS-01	12-Mar-14	Faecal Coliforms	0	ct/100mL	Exova
1091971	MS-01	12-Mar-14	Total Kjeldahl Nitrogen	0.14	mg/L	Exova
1091971	MS-01	12-Mar-14	N-NH3 (Ammonia)	0.14	mg/L	Exova
1091971	MS-01	12-Mar-14	Oil & Grease - Total	3	mg/L	Exova
1091971	MS-01	12-Mar-14	Total Phosphorus	0.54	mg/L	Exova
1091971	MS-01	12-Mar-14	Total Suspended Solids	4	mg/L	Exova
1091971	MS-01	12-Mar-14	pH	7.85	pH units	Exova
1093124	MS-01	18-Mar-14	Biochemical Oxygen Demand	<1	mg/L	Exova
1093147	MS-01	18-Mar-14	Faecal Coliforms	1	ct/100mL	Exova
1093124	MS-01	18-Mar-14	Total Kjeldahl Nitrogen	0.64	mg/L	Exova
1093124	MS-01	18-Mar-14	N-NH3 (Ammonia)	0.14	mg/L	Exova
1093124	MS-01	18-Mar-14	Oil & Grease - Total	<1	mg/L	Exova
1093124	MS-01	18-Mar-14	Total Phosphorus	0.45	mg/L	Exova
1093124	MS-01	18-Mar-14	Total Suspended Solids	5	mg/L	Exova
1093124	MS-01	18-Mar-14	pH	7.31	pH units	Exova
1094294	MS-01	25-Mar-14	Biochemical Oxygen Demand	1	mg/L	Exova
*	MS-01	25-Mar-14	Faecal Coliforms	*	ct/100mL	Exova
1094294	MS-01	25-Mar-14	Total Kjeldahl Nitrogen	0.58	mg/L	Exova
1094294	MS-01	25-Mar-14	N-NH3 (Ammonia)	0.26	mg/L	Exova
1094294	MS-01	25-Mar-14	Oil & Grease - Total	<1	mg/L	Exova
1094294	MS-01	25-Mar-14	Total Phosphorus	0.44	mg/L	Exova
1094294	MS-01	25-Mar-14	Total Suspended Solids	2	mg/L	Exova
1094294	MS-01	25-Mar-14	pH	7.59	pH units	Exova
Notes: * March 25 samples were misdirected in shipment and the microbiological samples expired. MS-0101 is a field duplicate of MS-01. MS-0102 is a field blank of MS-01. MS-0103 is a travel blank for MS-01.						
MILNE PORT						
1095407	MP-01	1-Apr-14	Biochemical Oxygen Demand	4	mg/L	Exova
1095409	MP-01	1-Apr-14	Faecal Coliforms	83000	ct/100mL	Exova
1095407	MP-01	1-Apr-14	Total Kjeldahl Nitrogen	1.74	mg/L	Exova
1095407	MP-01	1-Apr-14	N-NH3 (Ammonia)	0.12	mg/L	Exova
1095407	MP-01	1-Apr-14	Oil & Grease - Total	<1	mg/L	Exova
1095407	MP-01	1-Apr-14	Total Suspended Solids	13	mg/L	Exova
1095407	MP-01	1-Apr-14	pH	7.79	pH units	Exova
1096485	MP-01	8-Apr-14	Biochemical Oxygen Demand	3	mg/L	Exova
1096499	MP-01	8-Apr-14	Faecal Coliforms	270	ct/100mL	Exova
1096485	MP-01	8-Apr-14	Total Kjeldahl Nitrogen	1.48	mg/L	Exova
1096485	MP-01	8-Apr-14	N-NH3 (Ammonia)	0.37	mg/L	Exova
1096485	MP-01	8-Apr-14	Oil & Grease - Total	<1	mg/L	Exova
1096485	MP-01	8-Apr-14	Total Suspended Solids	12	mg/L	Exova
1096485	MP-01	8-Apr-14	pH	7.88	pH units	Exova
1097758	MP-01	15-Apr-14	Biochemical Oxygen Demand	2	mg/L	Exova
1097761	MP-01	15-Apr-14	Faecal Coliforms	23	ct/100mL	Exova
1097758	MP-01	15-Apr-14	Total Kjeldahl Nitrogen	0.34	mg/L	Exova
1097758	MP-01	15-Apr-14	N-NH3 (Ammonia)	0.09	mg/L	Exova
1097758	MP-01	15-Apr-14	Oil & Grease - Total	<1	mg/L	Exova
1097758	MP-01	15-Apr-14	Total Suspended Solids	14	mg/L	Exova
1097758	MP-01	15-Apr-14	pH	8.00	pH units	Exova
1098762	MP-01	22-Apr-14	Biochemical Oxygen Demand	<1	mg/L	Exova
1098767	MP-01	22-Apr-14	Faecal Coliforms	0	ct/100mL	Exova
1098762	MP-01	22-Apr-14	Total Kjeldahl Nitrogen	1.32	mg/L	Exova
1098762	MP-01	22-Apr-14	N-NH3 (Ammonia)	1.16	mg/L	Exova
1098762	MP-01	22-Apr-14	Oil & Grease - Total	<1	mg/L	Exova
1098762	MP-01	22-Apr-14	Total Suspended Solids	5	mg/L	Exova
1098762	MP-01	22-Apr-14	pH	7.59	pH units	Exova
1100012	MP-01	29-Apr-14	Biochemical Oxygen Demand	<1	mg/L	Exova
1100015	MP-01	29-Apr-14	Faecal Coliforms	9	ct/100mL	Exova
1100012	MP-01	29-Apr-14	Total Kjeldahl Nitrogen	0.84	mg/L	Exova
1100012	MP-01	29-Apr-14	N-NH3 (Ammonia)	0.18	mg/L	Exova
1100012	MP-01	29-Apr-14	Oil & Grease - Total	3	mg/L	Exova
1100012	MP-01	29-Apr-14	Total Suspended Solids	2	mg/L	Exova
1100012	MP-01	29-Apr-14	pH	7.77	pH units	Exova
MARY RIVER MINE SITE						
1095412	MS-01	1-Apr-14	Biochemical Oxygen Demand	<1	mg/L	Exova
1095414	MS-01	1-Apr-14	Faecal Coliforms	0	ct/100mL	Exova
1095412	MS-01	1-Apr-14	Total Kjeldahl Nitrogen	1.00	mg/L	Exova
1095412	MS-01	1-Apr-14	N-NH3 (Ammonia)	0.29	mg/L	Exova
1095412	MS-01	1-Apr-14	Oil & Grease - Total	<1	mg/L	Exova
1095412	MS-01	1-Apr-14	Total Phosphorus	0.49	mg/L	Exova
1095412	MS-01	1-Apr-14	Total Suspended Solids	5	mg/L	Exova
1095412	MS-01	1-Apr-14	pH	7.51	pH units	Exova
1096918	MS-01	9-Apr-14	Biochemical Oxygen Demand	2	mg/L	Exova
1096921	MS-01	9-Apr-14	Faecal Coliforms	62	ct/100mL	Exova
1096918	MS-01	9-Apr-14	Total Kjeldahl Nitrogen	0.70	mg/L	Exova
1096918	MS-01	9-Apr-14	N-NH3 (Ammonia)	0.11	mg/L	Exova
1096918	MS-01	9-Apr-14	Oil & Grease - Total	<1	mg/L	Exova
1096918	MS-01	9-Apr-14	Total Phosphorus	0.31	mg/L	Exova
1096918	MS-01	9-Apr-14	Total Suspended Solids	2	mg/L	Exova
1096918	MS-01	9-Apr-14	pH	7.88	pH units	Exova
1097776	MS-01	15-Apr-14	Biochemical Oxygen Demand	<1	mg/L	Exova
1097782	MS-01	15-Apr-14	Faecal Coliforms	0	ct/100mL	Exova
1097776	MS-01	15-Apr-14	Total Kjeldahl Nitrogen	3.46	mg/L	Exova
1097776	MS-01	15-Apr-14	N-NH3 (Ammonia)	0.16	mg/L	Exova
1097776	MS-01	15-Apr-14	Oil & Grease - Total	<1	mg/L	Exova
1097776	MS-01	15-Apr-14	Total Phosphorus	0.29	mg/L	Exova
1097776	MS-01	15-Apr-14	Total Suspended Solids	3	mg/L	Exova
1097776	MS-01	15-Apr-14	pH	7.59	pH units	Exova
1098755	MS-01	22-Apr-14	Biochemical Oxygen Demand	<1	mg/L	Exova
1098575	MS-01	22-Apr-14	Faecal Coliforms	0	ct/100mL	Exova
1098755	MS-01	22-Apr-14	Total Kjeldahl Nitrogen	2.2	mg/L	Exova
1098755	MS-01	22-Apr-14	N-NH3 (Ammonia)	1.53	mg/L	Exova
1098755	MS-01	22-Apr-14	Oil & Grease - Total	<1	mg/L	Exova
1098755	MS-01	22-Apr-14	Total Phosphorus	0.24	mg/L	Exova
1098755	MS-01	22-Apr-14	Total Suspended Solids	6	mg/L	Exova
1098755	MS-01	22-Apr-14	pH	7.28	pH units	Exova
1100017	MS-01	29-Apr-14	Biochemical Oxygen Demand	<1	mg/L	Exova
1100029	MS-01	29-Apr-14	Faecal Coliforms	0	ct/100mL	Exova
1100017	MS-01	29-Apr-14	Total Kjeldahl Nitrogen	1.01	mg/L	Exova
1100017	MS-01	29-Apr-14	N-NH3 (Ammonia)	0.31	mg/L	Exova
1100017	MS-01	29-Apr-14	Oil & Grease - Total	<1	mg/L	Exova
1100017	MS-01	29-Apr-14	Total Phosphorus	0.18	mg/L	Exova
1100017	MS-01	29-Apr-14	Total Suspended Solids	<2	mg/L	Exova
1100017	MS-01	29-Apr-14	pH	6.79	pH units	Exova

TABLE 2.8

BAFFINLAND IRON MINES CORPORATION
MARY RIVER PROJECT

2014 ANNUAL REPORT TO THE NUNAVUT WATER BOARD
WATER QUALITY RESULTS FOR WATER LICENCE MONITORING LOCATIONS

Sample Number	Sample ID	Date Sampled	Parameter Name	Result	Unit	Lab
*Note: April 25 samples were misdirected in shipment and the microbiological samples expired.						
MILNE PORT						
1101699	MP-01	6-May-14	Biochemical Oxygen Demand	5	mg/L	Exova
1101702	MP-01	6-May-14	Faecal Coliforms	2	ct/100mL	Exova
1101699	MP-01	6-May-14	Total Kjeldahl Nitrogen	1.54	mg/L	Exova
1101699	MP-01	6-May-14	N-NH3 (Ammonia)	0.22	mg/L	Exova
1101699	MP-01	6-May-14	Oil & Grease - Total	<1	mg/L	Exova
1101699	MP-01	6-May-14	Total Suspended Solids	3	mg/L	Exova
1101699	MP-01	6-May-14	pH	7.88	pH units	Exova
1103490	MP-01	13-May-14	Biochemical Oxygen Demand	4	mg/L	Exova
1103492	MP-01	13-May-14	Faecal Coliforms	1	ct/100mL	Exova
1103490	MP-01	13-May-14	Total Kjeldahl Nitrogen	0.14	mg/L	Exova
1103490	MP-01	13-May-14	N-NH3 (Ammonia)	0.18	mg/L	Exova
1103490	MP-01	13-May-14	Oil & Grease - Total	<1	mg/L	Exova
1103490	MP-01	13-May-14	Total Suspended Solids	3	mg/L	Exova
1103490	MP-01	13-May-14	pH	7.92	pH units	Exova
1104706	MP-01	20-May-14	Biochemical Oxygen Demand	2	mg/L	Exova
1104709	MP-01	20-May-14	Faecal Coliforms	0	ct/100mL	Exova
1104706	MP-01	20-May-14	Total Kjeldahl Nitrogen	1.08	mg/L	Exova
1104706	MP-01	20-May-14	N-NH3 (Ammonia)	0.15	mg/L	Exova
1104706	MP-01	20-May-14	Oil & Grease - Total	<1	mg/L	Exova
1104706	MP-01	20-May-14	Total Suspended Solids	<2	mg/L	Exova
1104706	MP-01	20-May-14	pH	7.85	pH units	Exova
1106547	MP-01	27-May-14	Biochemical Oxygen Demand	<1	mg/L	Exova
1106549	MP-01	27-May-14	Faecal Coliforms	300	ct/100mL	Exova
1106547	MP-01	27-May-14	Total Kjeldahl Nitrogen	1.47	mg/L	Exova
1106547	MP-01	27-May-14	N-NH3 (Ammonia)	0.28	mg/L	Exova
1106547	MP-01	27-May-14	Oil & Grease - Total	1	mg/L	Exova
1106547	MP-01	27-May-14	Total Suspended Solids	2	mg/L	Exova
1106547	MP-01	27-May-14	pH	7.76	pH units	Exova
MARY RIVER MINE SITE						
1101712	MS-01	6-May-14	Biochemical Oxygen Demand	2	mg/L	Exova
1101715	MS-01	6-May-14	Faecal Coliforms	0	ct/100mL	Exova
1101712	MS-01	6-May-14	Total Kjeldahl Nitrogen	0.91	mg/L	Exova
1101712	MS-01	6-May-14	N-NH3 (Ammonia)	0.27	mg/L	Exova
1101712	MS-01	6-May-14	Oil & Grease - Total	3	mg/L	Exova
1101712	MS-01	6-May-14	Total Phosphorus	0.24	mg/L	Exova
1101712	MS-01	6-May-14	Total Suspended Solids	4	mg/L	Exova
1101712	MS-01	6-May-14	pH	7.62	pH units	Exova
1103484	MS-01	13-May-14	Biochemical Oxygen Demand	<1	mg/L	Exova
1103486	MS-01	13-May-14	Faecal Coliforms	0	ct/100mL	Exova
1103484	MS-01	13-May-14	Total Kjeldahl Nitrogen	0.92	mg/L	Exova
1103484	MS-01	13-May-14	N-NH3 (Ammonia)	0.31	mg/L	Exova
1103484	MS-01	13-May-14	Oil & Grease - Total	<1	mg/L	Exova
1103484	MS-01	13-May-14	Total Phosphorus	0.32	mg/L	Exova
1103484	MS-01	13-May-14	Total Suspended Solids	2	mg/L	Exova
1103484	MS-01	13-May-14	pH	7.60	pH units	Exova
1104712	MS-01	20-May-14	Biochemical Oxygen Demand	1	mg/L	Exova
1104714	MS-01	20-May-14	Faecal Coliforms	0	ct/100mL	Exova
1104712	MS-01	20-May-14	Total Kjeldahl Nitrogen	0.89	mg/L	Exova
1104712	MS-01	20-May-14	N-NH3 (Ammonia)	0.28	mg/L	Exova
1104712	MS-01	20-May-14	Oil & Grease - Total	<1	mg/L	Exova
1104712	MS-01	20-May-14	Total Phosphorus	0.21	mg/L	Exova
1104712	MS-01	20-May-14	Total Suspended Solids	2	mg/L	Exova
1104712	MS-01	20-May-14	pH	7.40	pH units	Exova
1106528	MS-01	27-May-14	Biochemical Oxygen Demand	1	mg/L	Exova
1106545	MS-01	27-May-14	Faecal Coliforms	3	ct/100mL	Exova
1106528	MS-01	27-May-14	Total Kjeldahl Nitrogen	0.52	mg/L	Exova
1106528	MS-01	27-May-14	N-NH3 (Ammonia)	0.38	mg/L	Exova
1106528	MS-01	27-May-14	Oil & Grease - Total	1	mg/L	Exova
1106528	MS-01	27-May-14	Total Phosphorus	0.37	mg/L	Exova
1106528	MS-01	27-May-14	Total Suspended Solids	10	mg/L	Exova
1106528	MS-01	27-May-14	pH	7.94	pH units	Exova
1108364	MQ-C-B	31-May-14	Conductivity	113	mg/L	Exova
1108364	MQ-C-B	31-May-14	N-NO3	0.1	ct/100mL	Exova
1108364	MQ-C-B	31-May-14	pH	7.59	mg/L	Exova
1108364	MQ-C-B	31-May-14	Total Suspended Solids	13	mg/L	Exova
1108364	MQ-C-B	31-May-14	Turbidity	8.8	mg/L	Exova
1108364	MQ-C-B	31-May-14	N-NH3 (Ammonia)	0.11	mg/L	Exova
1108365	MQ-C-D	31-May-14	Conductivity	113	mg/L	Exova
1108365	MQ-C-D	31-May-14	N-NO3	<0.10	ct/100mL	Exova
1108365	MQ-C-D	31-May-14	pH	7.61	mg/L	Exova
1108365	MQ-C-D	31-May-14	Total Suspended Solids	10	mg/L	Exova
1108365	MQ-C-D	31-May-14	Turbidity	13.6	mg/L	Exova
1108365	MQ-C-D	31-May-14	N-NH3 (Ammonia)	0.16	mg/L	Exova
1108366	MS-C-E	31-May-14	Conductivity	218	mg/L	Exova
1108366	MS-C-E	31-May-14	N-NO3	7.7	ct/100mL	Exova
1108366	MS-C-E	31-May-14	pH	7.7	mg/L	Exova
1108366	MS-C-E	31-May-14	Total Suspended Solids	101*	mg/L	Exova
1108366	MS-C-E	31-May-14	Turbidity	14.1	mg/L	Exova
1108366	MS-C-E	31-May-14	N-NH3 (Ammonia)	0.91	mg/L	Exova
1108367	MS-C-D	31-May-14	Conductivity	217	mg/L	Exova
1108367	MS-C-D	31-May-14	N-NO3	8.45	ct/100mL	Exova
1108367	MS-C-D	31-May-14	pH	7.65	mg/L	Exova
1108367	MS-C-D	31-May-14	Total Suspended Solids	11	mg/L	Exova
1108367	MS-C-D	31-May-14	Turbidity	20.5	mg/L	Exova
1108367	MS-C-D	31-May-14	N-NH3 (Ammonia)	1.22	mg/L	Exova

Notes: Yellow shading denotes exceedance of Water Licence criteria.
* MS-C-E results for May 31 indicated a marginal exceedance of TSS, though to be the result of minor siltation from the camp pad area. Installation of silt fences and riprap installation were used to reduce silt at this location. See attached map showing water monitoring locations.

MILNE PORT						
1108314	MP-01	3-Jun-14	Biochemical Oxygen Demand	3	mg/L	Exova
1108316	MP-01	3-Jun-14	Faecal Coliforms	2	ct/100mL	Exova
1108314	MP-01	3-Jun-14	Total Kjeldahl Nitrogen	1.12	mg/L	Exova
1108314	MP-01	3-Jun-14	N-NH3 (Ammonia)	0.33	mg/L	Exova
1108314	MP-01	3-Jun-14	Oil & Grease - Total	<1	mg/L	Exova
1108314	MP-01	3-Jun-14	Total Suspended Solids	8	mg/L	Exova
1108314	MP-01	3-Jun-14	pH	7.78	pH units	Exova
1111938	MP-01	17-Jun-14	Biochemical Oxygen Demand	2	mg/L	Exova
1111941	MP-01	17-Jun-14	Faecal Coliforms	0	ct/100mL	Exova
1111938	MP-01	17-Jun-14	Total Kjeldahl Nitrogen	0.63	mg/L	Exova
1111938	MP-01	17-Jun-14	N-NH3 (Ammonia)	0.33	mg/L	Exova
1111938	MP-01	17-Jun-14	Oil & Grease - Total	2	mg/L	Exova
1111938	MP-01	17-Jun-14	Total Suspended Solids	<2	mg/L	Exova
1111938	MP-01	17-Jun-14	pH	7.80	pH units	Exova
1114119	MP-01	24-Jun-14	Biochemical Oxygen Demand	<1	mg/L	Exova
1114128	MP-01	24-Jun-14	Faecal Coliforms	0	ct/100mL	Exova
1114119	MP-01	24-Jun-14	Total Kjeldahl Nitrogen	1.55	mg/L	Exova
1114119	MP-01	24-Jun-14	N-NH3 (Ammonia)	0.39	mg/L	Exova
1114119	MP-01	24-Jun-14	Oil & Grease - Total	<1	mg/L	Exova
1114119	MP-01	24-Jun-14	Total Suspended Solids	<2	mg/L	Exova
1114119	MP-01	24-Jun-14	pH	7.67	pH units	Exova
1114148	MP-Q1-01	23-Jun-14	Conductivity	104	uS/cm	Exova
1114148	MP-Q1-01	23-Jun-14	N-NO3	0.4	mg/L	Exova
1114148	MP-Q1-01	23-Jun-14	pH	7.75	pH units	Exova
1114148	MP-Q1-01	23-Jun-14	Total Suspended Solids	9	mg/L	Exova
1114148	MP-Q1-01	23-Jun-14	Oil & Grease - Total	1	mg/L	Exova
1114148	MP-Q1-01	23-Jun-14	N-NH3 (Ammonia)	0.15	mg/L	Exova
1115662	MP-Q1-01	30-Jun-14	Conductivity	128	uS/cm	Exova
1115662	MP-Q1-01	30-Jun-14	N-NO3	0.16	mg/L	Exova
1115662	MP-Q1-01	30-Jun-14	pH	7.94	pH units	Exova
1115662	MP-Q1-01	30-Jun-14	Total Suspended Solids	<2	mg/L	Exova
1115662	MP-Q1-01	30-Jun-14	Oil & Grease - Total	6	mg/L	Exova
1115662	MP-Q1-01	30-Jun-14	N-NH3 (Ammonia)	<0.02	mg/L	Exova

TABLE 2.8

BAFFINLAND IRON MINES CORPORATION
MARY RIVER PROJECT

2014 ANNUAL REPORT TO THE NUNAVUT WATER BOARD
WATER QUALITY RESULTS FOR WATER LICENCE MONITORING LOCATIONS

Sample Number	Sample ID	Date Sampled	Parameter Name	Result	Unit	Lab
1115663	MP-Q1-0101	30-Jun-14	Conductivity	128	uS/cm	Exova
1115663	MP-Q1-0101	30-Jun-14	N-NO3	0.12	mg/L	Exova
1115663	MP-Q1-0101	30-Jun-14	pH	7.94	pH units	Exova
1115663	MP-Q1-0101	30-Jun-14	Total Suspended Solids	2	mg/L	Exova
1115663	MP-Q1-0101	30-Jun-14	Oil & Grease - Total	<0.02	mg/L	Exova
1115663	MP-Q1-0101	30-Jun-14	N-NH3 (Ammonia)	3	mg/L	Exova
1114149	MP-Q1-02	23-Jun-14	Conductivity	203	uS/cm	Exova
1114149	MP-Q1-02	23-Jun-14	N-NO3	0.4	mg/L	Exova
1114149	MP-Q1-02	23-Jun-14	pH	7.97	pH units	Exova
1114149	MP-Q1-02	23-Jun-14	Total Suspended Solids	18	mg/L	Exova
1114149	MP-Q1-02	23-Jun-14	Oil & Grease - Total	<1	mg/L	Exova
1114149	MP-Q1-02	23-Jun-14	N-NH3 (Ammonia)	0.92	mg/L	Exova
1115664	MP-Q1-02	30-Jun-14	Conductivity	391	uS/cm	Exova
1115664	MP-Q1-02	30-Jun-14	N-NO3	13.2	mg/L	Exova
1115664	MP-Q1-02	30-Jun-14	pH	7.92	pH units	Exova
1115664	MP-Q1-02	30-Jun-14	Total Suspended Solids	290	mg/L	Exova
1115664	MP-Q1-02	30-Jun-14	Oil & Grease - Total	2	mg/L	Exova
1115664	MP-Q1-02	30-Jun-14	N-NH3 (Ammonia)	3.76	mg/L	Exova
1114150	MP-C-A	23-Jun-14	Conductivity	490	uS/cm	Exova
1114150	MP-C-A	23-Jun-14	N-NO3	0.54	mg/L	Exova
1114150	MP-C-A	23-Jun-14	pH	8.35	pH units	Exova
1114150	MP-C-A	23-Jun-14	Total Suspended Solids	5	mg/L	Exova
1114150	MP-C-A	23-Jun-14	Oil & Grease - Total	2	mg/L	Exova
1114150	MP-C-A	23-Jun-14	N-NH3 (Ammonia)	0.17	mg/L	Exova
1115665	MP-C-A	30-Jun-14	Conductivity	1960	uS/cm	Exova
1115665	MP-C-A	30-Jun-14	N-NO3	12.2	mg/L	Exova
1115665	MP-C-A	30-Jun-14	pH	8.02	pH units	Exova
1115665	MP-C-A	30-Jun-14	Total Suspended Solids	6	mg/L	Exova
1115665	MP-C-A	30-Jun-14	Oil & Grease - Total	1	mg/L	Exova
1115665	MP-C-A	30-Jun-14	N-NH3 (Ammonia)	1.17	mg/L	Exova
1114151	MP-C-B	23-Jun-14	Conductivity	244	uS/cm	Exova
1114151	MP-C-B	23-Jun-14	N-NO3	0.36	mg/L	Exova
1114151	MP-C-B	23-Jun-14	pH	8.3	pH units	Exova
1114151	MP-C-B	23-Jun-14	Total Suspended Solids	5	mg/L	Exova
1114151	MP-C-B	23-Jun-14	Oil & Grease - Total	3	mg/L	Exova
1114151	MP-C-B	23-Jun-14	N-NH3 (Ammonia)	0.1	mg/L	Exova
1115666	MP-C-B	30-Jun-14	Conductivity	200	uS/cm	Exova
1115666	MP-C-B	30-Jun-14	N-NO3	0.36	mg/L	Exova
1115666	MP-C-B	30-Jun-14	pH	8.37	pH units	Exova
1115666	MP-C-B	30-Jun-14	Total Suspended Solids	4	mg/L	Exova
1115666	MP-C-B	30-Jun-14	Oil & Grease - Total	1	mg/L	Exova
1115666	MP-C-B	30-Jun-14	N-NH3 (Ammonia)	0.11	mg/L	Exova
1114152	MP-C-B01	23-Jun-14	Conductivity	184	uS/cm	Exova
1114152	MP-C-B01	23-Jun-14	N-NO3	0.55	mg/L	Exova
1114152	MP-C-B01	23-Jun-14	pH	8.22	pH units	Exova
1114152	MP-C-B01	23-Jun-14	Total Suspended Solids	11	mg/L	Exova
1114152	MP-C-B01	23-Jun-14	Oil & Grease - Total	1	mg/L	Exova
1114152	MP-C-B01	23-Jun-14	N-NH3 (Ammonia)	0.1	mg/L	Exova
1114153	MP-C-B0101	23-Jun-14	Conductivity	183	uS/cm	Exova
1114153	MP-C-B0101	23-Jun-14	N-NO3	0.56	mg/L	Exova
1114153	MP-C-B0101	23-Jun-14	pH	8.21	pH units	Exova
1114153	MP-C-B0101	23-Jun-14	Total Suspended Solids	6	mg/L	Exova
1114153	MP-C-B0101	23-Jun-14	Oil & Grease - Total	2	mg/L	Exova
1114153	MP-C-B0101	23-Jun-14	N-NH3 (Ammonia)	0.12	mg/L	Exova
1115667	MP-C-B01	30-Jun-14	Conductivity	184	uS/cm	Exova
1115667	MP-C-B01	30-Jun-14	N-NO3	0.39	mg/L	Exova
1115667	MP-C-B01	30-Jun-14	pH	8.36	pH units	Exova
1115667	MP-C-B01	30-Jun-14	Total Suspended Solids	3	mg/L	Exova
1115667	MP-C-B01	30-Jun-14	Oil & Grease - Total	<1	mg/L	Exova
1115667	MP-C-B01	30-Jun-14	N-NH3 (Ammonia)	0.03	mg/L	Exova
1115683	MP-C-B01	30-Jun-14	Toxicity*	Non Lethal	mortality %	Exova
1115669	MP-C-F	30-Jun-14	Conductivity	855	uS/cm	Exova
1115669	MP-C-F	30-Jun-14	N-NO3	6.64	mg/L	Exova
1115669	MP-C-F	30-Jun-14	pH	8.04	pH units	Exova
1115669	MP-C-F	30-Jun-14	Total Suspended Solids	38	mg/L	Exova
1115669	MP-C-F	30-Jun-14	Oil & Grease - Total	<1	mg/L	Exova
1115669	MP-C-F	30-Jun-14	N-NH3 (Ammonia)	1.37	mg/L	Exova
1114154	MP-C-H	23-Jun-14	Conductivity	111	uS/cm	Exova
1114154	MP-C-H	23-Jun-14	N-NO3	<0.1	mg/L	Exova
1114154	MP-C-H	23-Jun-14	pH	7.99	pH units	Exova
1114154	MP-C-H	23-Jun-14	Total Suspended Solids	<2	mg/L	Exova
1114154	MP-C-H	23-Jun-14	Oil & Grease - Total	3	mg/L	Exova
1114154	MP-C-H	23-Jun-14	N-NH3 (Ammonia)	0.07	mg/L	Exova
1115668	MP-C-H	30-Jun-14	Conductivity	120	uS/cm	Exova
1115668	MP-C-H	30-Jun-14	N-NO3	<0.10	mg/L	Exova
1115668	MP-C-H	30-Jun-14	pH	8.00	pH units	Exova
1115668	MP-C-H	30-Jun-14	Total Suspended Solids	2	mg/L	Exova
1115668	MP-C-H	30-Jun-14	Oil & Grease - Total	22 (no sheen)	mg/L	Exova
1115668	MP-C-H	30-Jun-14	N-NH3 (Ammonia)	<0.02	mg/L	Exova
MARY RIVER MINE SITE						
1108608	MS-01	3-Jun-14	Biochemical Oxygen Demand	1	mg/L	Exova
1108606	MS-01	3-Jun-14	Faecal Coliforms	0	ct/100mL	Exova
1108608	MS-01	3-Jun-14	Total Kjeldahl Nitrogen	1.36	mg/L	Exova
1108608	MS-01	3-Jun-14	N-NH3 (Ammonia)	0.31	mg/L	Exova
1108608	MS-01	3-Jun-14	Oil & Grease - Total	<1	mg/L	Exova
1108608	MS-01	3-Jun-14	Total Phosphorus	0.64	mg/L	Exova
1108608	MS-01	3-Jun-14	Total Suspended Solids	<2	mg/L	Exova
1108608	MS-01	3-Jun-14	pH	7.63	pH units	Exova
1110164	MS-01	10-Jun-14	Biochemical Oxygen Demand	2	mg/L	Exova
1110137	MS-01	10-Jun-14	Faecal Coliforms	1	ct/100mL	Exova
1110164	MS-01	10-Jun-14	Total Kjeldahl Nitrogen	0.28	mg/L	Exova
1110164	MS-01	10-Jun-14	N-NH3 (Ammonia)	0.26	mg/L	Exova
1110164	MS-01	10-Jun-14	Oil & Grease - Total	<1	mg/L	Exova
1110164	MS-01	10-Jun-14	Total Phosphorus	0.14	mg/L	Exova
1110164	MS-01	10-Jun-14	Total Suspended Solids	2	mg/L	Exova
1110164	MS-01	10-Jun-14	pH	7.60	pH units	Exova
1111938	MS-01	17-Jun-14	Biochemical Oxygen Demand	<1	mg/L	Exova
1111941	MS-01	17-Jun-14	Faecal Coliforms	2	ct/100mL	Exova
1111938	MS-01	17-Jun-14	Total Kjeldahl Nitrogen	0.57	mg/L	Exova
1111938	MS-01	17-Jun-14	N-NH3 (Ammonia)	0.33	mg/L	Exova
1111938	MS-01	17-Jun-14	Oil & Grease - Total	1	mg/L	Exova
1111938	MS-01	17-Jun-14	Total Phosphorus	0.82	mg/L	Exova
1111938	MS-01	17-Jun-14	Total Suspended Solids	6	mg/L	Exova
1111938	MS-01	17-Jun-14	pH	7.82	pH units	Exova
1114121	MS-01	24-Jun-14	Biochemical Oxygen Demand	2	mg/L	Exova
1114129	MS-01	24-Jun-14	Faecal Coliforms	0	ct/100mL	Exova
1114121	MS-01	24-Jun-14	Total Kjeldahl Nitrogen	2.59	mg/L	Exova
1114121	MS-01	24-Jun-14	N-NH3 (Ammonia)	0.67	mg/L	Exova
1114121	MS-01	24-Jun-14	Oil & Grease - Total	<1	mg/L	Exova
1114121	MS-01	24-Jun-14	Total Phosphorus	1.78	mg/L	Exova
1114121	MS-01	24-Jun-14	Total Suspended Solids	20	mg/L	Exova
1114121	MS-01	24-Jun-14	pH	7.64	pH units	Exova
1110159	MS-MRY-4C	10-Jun-14	Biochemical Oxygen Demand	3	mg/L	Exova
1110145	MS-MRY-4C	10-Jun-14	Faecal Coliforms	0	ct/100mL	Exova
1110159	MS-MRY-4C	10-Jun-14	Total Kjeldahl Nitrogen	1.45	mg/L	Exova
1110159	MS-MRY-4C	10-Jun-14	N-NH3 (Ammonia)	0.43	mg/L	Exova
1110159	MS-MRY-4C	10-Jun-14	Oil & Grease - Total	<1	mg/L	Exova
1110159	MS-MRY-4C	10-Jun-14	Total Phosphorus	0.081	mg/L	Exova
1110159	MS-MRY-4C	10-Jun-14	Total Suspended Solids	7	mg/L	Exova
1110159	MS-MRY-4C	10-Jun-14	pH	7.36	pH units	Exova
1110131	MS-MRY-4C	10-Jun-14	Toxicity*	Non lethal	mortality %	Exova
1110160	MS-MRY-4C	10-Jun-14	Biochemical Oxygen Demand	4	mg/L	Exova
1110146	MS-MRY-4C	10-Jun-14	Faecal Coliforms	0	ct/100mL	Exova
1110160	MS-MRY-4C	10-Jun-14	Total Kjeldahl Nitrogen	1.37	mg/L	Exova
1110160	MS-MRY-4C	10-Jun-14	N-NH3 (Ammonia)	0.41	mg/L	Exova
1110160	MS-MRY-4C	10-Jun-14	Oil & Grease - Total	<1	mg/L	Exova
1110160	MS-MRY-4C	10-Jun-14	Total Phosphorus	0.148	mg/L	Exova

TABLE 2.8

BAFFINLAND IRON MINES CORPORATION
MARY RIVER PROJECT2014 ANNUAL REPORT TO THE NUNAVUT WATER BOARD
WATER QUALITY RESULTS FOR WATER LICENCE MONITORING LOCATIONS

Sample Number	Sample ID	Date Sampled	Parameter Name	Result	Unit	Lab
1110160	MS-MRY-4C	10-Jun-14	Total Suspended Solids	6	mg/L	Exova
1110160	MS-MRY-4C	10-Jun-14	pH	7.23	pH units	Exova
1110161	MS-MRY-4C	10-Jun-14	Biochemical Oxygen Demand	4	mg/L	Exova
1110147	MS-MRY-4C	10-Jun-14	Faecal Coliforms	0	ct/100mL	Exova
1110161	MS-MRY-4C	10-Jun-14	Total Kjeldahl Nitrogen	1.38	mg/L	Exova
1110161	MS-MRY-4C	10-Jun-14	N-NH3 (Ammonia)	0.41	mg/L	Exova
1110161	MS-MRY-4C	10-Jun-14	Oil & Grease - Total	2	mg/L	Exova
1110161	MS-MRY-4C	10-Jun-14	Total Phosphorus	0.159	mg/L	Exova
1110161	MS-MRY-4C	10-Jun-14	Total Suspended Solids	5	mg/L	Exova
1110161	MS-MRY-4C	10-Jun-14	pH	7.21	pH units	Exova
1112814	MS-MRY-4C	18-Jun-14	Biochemical Oxygen Demand	6	mg/L	Exova
1112817	MS-MRY-4C	18-Jun-14	Faecal Coliforms	0	ct/100mL	Exova
1112814	MS-MRY-4C	18-Jun-14	Total Kjeldahl Nitrogen	1.76	mg/L	Exova
1112814	MS-MRY-4C	18-Jun-14	N-NH3 (Ammonia)	0.34	mg/L	Exova
1112814	MS-MRY-4C	18-Jun-14	Oil & Grease - Total	<1	mg/L	Exova
1112814	MS-MRY-4C	18-Jun-14	Total Phosphorus	0.158	mg/L	Exova
1112814	MS-MRY-4C	18-Jun-14	Total Suspended Solids	12	mg/L	Exova
1112814	MS-MRY-4C	18-Jun-14	pH	7.23	pH units	Exova
1114117	MS-MRY-4C	19-Jun-14	Total Phosphorus	0.12	mg/L	Exova
1114115	MS-MRY-4C	21-Jun-14	Biochemical Oxygen Demand	11	mg/L	Exova
1114115	MS-MRY-4C	21-Jun-14	Total Kjeldahl Nitrogen	3.64	mg/L	Exova
1114115	MS-MRY-4C	21-Jun-14	N-NH3 (Ammonia)	0.34	mg/L	Exova
1114115	MS-MRY-4C	21-Jun-14	Total Phosphorus	0.121	mg/L	Exova
1114115	MS-MRY-4C	21-Jun-14	Total Suspended Solids	22	mg/L	Exova
1114115	MS-MRY-4C	21-Jun-14	pH	7.3	pH units	Exova
1114116	MS-MRY-4C	21-Jun-14	Biochemical Oxygen Demand	13	mg/L	Exova
1114116	MS-MRY-4C	21-Jun-14	Total Kjeldahl Nitrogen	2.54	mg/L	Exova
1114116	MS-MRY-4C	21-Jun-14	N-NH3 (Ammonia)	0.34	mg/L	Exova
1114116	MS-MRY-4C	21-Jun-14	Total Phosphorus	0.184	mg/L	Exova
1114116	MS-MRY-4C	21-Jun-14	Total Suspended Solids	16	mg/L	Exova
1114116	MS-MRY-4C	21-Jun-14	pH	7.2	pH units	Exova
1111979	MS-MRY-6	16-Jun-14	Benzene	<0.5	ug/L	Exova
1111979	MS-MRY-6	16-Jun-14	Ethylbenzene	<0.5	ug/L	Exova
1111979	MS-MRY-6	16-Jun-14	Toluene	<0.5	ug/L	Exova
1111979	MS-MRY-6	16-Jun-14	Total Lead	0.011	mg/L	Exova
1111979	MS-MRY-6	16-Jun-14	Oil & Grease - Total	<1	mg/L	Exova
1111981	MS-MRY-6	17-Jun-14	Total Suspended Solids	2	mg/L	Exova
1111981	MS-MRY-6	17-Jun-14	pH	8.85	pH units	Exova
1114721	MS-MRY-6	24-Jun-14	Benzene	<0.5	ug/L	Exova
1114721	MS-MRY-6	24-Jun-14	Ethylbenzene	<0.5	ug/L	Exova
1114721	MS-MRY-6	24-Jun-14	Toluene	<0.5	ug/L	Exova
1114721	MS-MRY-6	24-Jun-14	Total Lead	0.004	mg/L	Exova
1114721	MS-MRY-6	24-Jun-14	Oil & Grease - Total	<1	mg/L	Exova
1115656	MS-MRY-6	30-Jun-14	Benzene	<0.5	ug/L	Exova
1115656	MS-MRY-6	30-Jun-14	Ethylbenzene	<0.5	ug/L	Exova
1115656	MS-MRY-6	30-Jun-14	Toluene	<0.5	ug/L	Exova
1115656	MS-MRY-6	30-Jun-14	Total Lead	<0.001	mg/L	Exova
1115656	MS-MRY-6	30-Jun-14	Oil & Grease - Total	<1	mg/L	Exova
1112820	MS-MRY-13A	18-Jun-14	pH	7.53	pH units	Exova
1112820	MS-MRY-13A	18-Jun-14	Total Arsenic	0.14	µg/L	Exova
1112820	MS-MRY-13A	18-Jun-14	Total Copper	2.05	µg/L	Exova
1112820	MS-MRY-13A	18-Jun-14	Total Lead	0.25	µg/L	Exova
1112820	MS-MRY-13A	18-Jun-14	Total Nickel	4.8	µg/L	Exova
1112820	MS-MRY-13A	18-Jun-14	Total Zinc	3.5	µg/L	Exova
1112820	MS-MRY-13A	18-Jun-14	Total Suspended Solids	<2	mg/L	Exova
1112820	MS-MRY-13A	18-Jun-14	Oil & Grease - Total	<1	mg/L	Exova
1114220	MS-MRY-13A	23-Jun-14	pH	7.78	pH units	Exova
1114222	MS-MRY-13A	23-Jun-14	Total Arsenic	0.15	µg/L	Exova
1114222	MS-MRY-13A	23-Jun-14	Total Copper	2.43	µg/L	Exova
1114222	MS-MRY-13A	23-Jun-14	Total Lead	0.09	µg/L	Exova
1114222	MS-MRY-13A	23-Jun-14	Total Nickel	6.39	µg/L	Exova
1114222	MS-MRY-13A	23-Jun-14	Total Zinc	4.6	µg/L	Exova
1114220	MS-MRY-13A	23-Jun-14	Total Suspended Solids	<2	mg/L	Exova
1114220	MS-MRY-13A	23-Jun-14	Oil & Grease - Total	<1	mg/L	Exova
1115777	MS-MRY-13A	30-Jun-14	pH	-	pH units	Exova
1115779	MS-MRY-13A	30-Jun-14	Total Arsenic	0.15	µg/L	Exova
1115779	MS-MRY-13A	30-Jun-14	Total Copper	1.69	µg/L	Exova
1115779	MS-MRY-13A	30-Jun-14	Total Lead	<0.05	µg/L	Exova
1115779	MS-MRY-13A	30-Jun-14	Total Nickel	8.66	µg/L	Exova
1115779	MS-MRY-13A	30-Jun-14	Total Zinc	4.9	µg/L	Exova
1115777	MS-MRY-13A	30-Jun-14	Total Suspended Solids	-	mg/L	Exova
1115777	MS-MRY-13A	30-Jun-14	Oil & Grease - Total	<1	mg/L	Exova
1112821	MS-MRY-13B	18-Jun-14	pH	7.60	pH units	Exova
1112821	MS-MRY-13B	18-Jun-14	Total Arsenic	0.16	µg/L	Exova
1112821	MS-MRY-13B	18-Jun-14	Total Copper	2.93	µg/L	Exova
1112821	MS-MRY-13B	18-Jun-14	Total Lead	0.56	µg/L	Exova
1112821	MS-MRY-13B	18-Jun-14	Total Nickel	4.25	µg/L	Exova
1112821	MS-MRY-13B	18-Jun-14	Total Zinc	5.6	µg/L	Exova
1112821	MS-MRY-13B	18-Jun-14	Total Suspended Solids	<2	mg/L	Exova
1112821	MS-MRY-13B	18-Jun-14	Oil & Grease - Total	<1	mg/L	Exova
1114221	MS-MRY-13B	23-Jun-14	pH	7.90	pH units	Exova
1114223	MS-MRY-13B	23-Jun-14	Total Arsenic	0.13	µg/L	Exova
1114223	MS-MRY-13B	23-Jun-14	Total Copper	1.76	µg/L	Exova
1114223	MS-MRY-13B	23-Jun-14	Total Lead	<.05	µg/L	Exova
1114223	MS-MRY-13B	23-Jun-14	Total Nickel	5.92	µg/L	Exova
1114223	MS-MRY-13B	23-Jun-14	Total Zinc	<3.0	µg/L	Exova
1114221	MS-MRY-13B	23-Jun-14	Total Suspended Solids	<2	mg/L	Exova
1114221	MS-MRY-13B	23-Jun-14	Oil & Grease - Total	<1	mg/L	Exova
1115778	MS-MRY-13B	30-Jun-14	pH	7.98	pH units	Exova
1115780	MS-MRY-13B	30-Jun-14	Total Arsenic	0.14	µg/L	Exova
1115780	MS-MRY-13B	30-Jun-14	Total Copper	1.67	µg/L	Exova
1115780	MS-MRY-13B	30-Jun-14	Total Lead	<0.05	µg/L	Exova
1115780	MS-MRY-13B	30-Jun-14	Total Nickel	6.77	µg/L	Exova
1115780	MS-MRY-13B	30-Jun-14	Total Zinc	<3.0	µg/L	Exova
1115778	MS-MRY-13B	30-Jun-14	Total Suspended Solids	<2	mg/L	Exova
1115778	MS-MRY-13B	30-Jun-14	Oil & Grease - Total	<1	mg/L	Exova
1114171	MQ-C-A	23-Jun-14	Conductivity	115	uS/cm	Exova
1114171	MQ-C-A	23-Jun-14	N-NO3	<0.10	mg/L	Exova
1114171	MQ-C-A	23-Jun-14	pH	7.91	pH units	Exova
1114171	MQ-C-A	23-Jun-14	Total Suspended Solids	<2	mg/L	Exova
1114171	MQ-C-A	23-Jun-14	Oil & Grease - Total	<1	mg/L	Exova
1114171	MQ-C-A	23-Jun-14	N-NH3 (Ammonia)	0.12	mg/L	Exova
1115672	MQ-C-A	30-Jun-14	Conductivity	97	uS/cm	Exova
1115672	MQ-C-A	30-Jun-14	N-NO3	<0.10	mg/L	Exova
1115672	MQ-C-A	30-Jun-14	pH	7.9	pH units	Exova
1115672	MQ-C-A	30-Jun-14	Total Suspended Solids	<2	mg/L	Exova
1115672	MQ-C-A	30-Jun-14	Oil & Grease - Total	2	mg/L	Exova
1115672	MQ-C-A	30-Jun-14	N-NH3 (Ammonia)	0.05	mg/L	Exova
1114169	MQ-C-B	23-Jun-14	Conductivity	92	uS/cm	Exova
1114169	MQ-C-B	23-Jun-14	N-NO3	<0.10	mg/L	Exova
1114169	MQ-C-B	23-Jun-14	pH	7.71	pH units	Exova
1114169	MQ-C-B	23-Jun-14	Total Suspended Solids	<2	mg/L	Exova
1114169	MQ-C-B	23-Jun-14	Oil & Grease - Total	<1	mg/L	Exova
1114169	MQ-C-B	23-Jun-14	N-NH3 (Ammonia)	0.03	mg/L	Exova
1115670	MQ-C-B	30-Jun-14	Conductivity	121	uS/cm	Exova
1115670	MQ-C-B	30-Jun-14	N-NO3	0.1	mg/L	Exova
1115670	MQ-C-B	30-Jun-14	pH	7.92	pH units	Exova
1115670	MQ-C-B	30-Jun-14	Total Suspended Solids	3	mg/L	Exova
1115670	MQ-C-B	30-Jun-14	Oil & Grease - Total	<1	mg/L	Exova
1115670	MQ-C-B	30-Jun-14	N-NH3 (Ammonia)	0.05	mg/L	Exova
1115680	MQ-C-B	1-Jul-14	Toxicity*	Non Lethal	mortality %	Exova
1114170	MQ-C-D	23-Jun-14	Conductivity	105	uS/cm	Exova
1114170	MQ-C-D	23-Jun-14	N-NO3	<0.10	mg/L	Exova
1114170	MQ-C-D	23-Jun-14	pH	7.83	pH units	Exova
1114170	MQ-C-D	23-Jun-14	Total Suspended Solids	<2	mg/L	Exova
1114170	MQ-C-D	23-Jun-14	Oil & Grease - Total	<1	mg/L	Exova
1114170	MQ-C-D	23-Jun-14	N-NH3 (Ammonia)	0.03	mg/L	Exova

TABLE 2.8

BAFFINLAND IRON MINES CORPORATION
MARY RIVER PROJECT2014 ANNUAL REPORT TO THE NUNAVUT WATER BOARD
WATER QUALITY RESULTS FOR WATER LICENCE MONITORING LOCATIONS

Sample Number	Sample ID	Date Sampled	Parameter Name	Result	Unit	Lab
1115671	MQ-C-D	30-Jun-14	Conductivity	104	uS/cm	Exova
1115671	MQ-C-D	30-Jun-14	N-NO3	<0.10	mg/L	Exova
1115671	MQ-C-D	30-Jun-14	pH	7.84	pH units	Exova
1115671	MQ-C-D	30-Jun-14	Total Suspended Solids	<2	mg/L	Exova
1115671	MQ-C-D	30-Jun-14	Oil & Grease - Total	<1	mg/L	Exova
1115671	MQ-C-D	30-Jun-14	N-NH3 (Ammonia)	0.11	mg/L	Exova
1114177	MS-C-A	23-Jun-14	Conductivity	69	uS/cm	Exova
1114177	MS-C-A	23-Jun-14	N-NO3	<0.10	mg/L	Exova
1114177	MS-C-A	23-Jun-14	pH	7.73	pH units	Exova
1114177	MS-C-A	23-Jun-14	Total Suspended Solids	<2	mg/L	Exova
1114177	MS-C-A	23-Jun-14	Oil & Grease - Total	<1	mg/L	Exova
1114177	MS-C-A	23-Jun-14	N-NH3 (Ammonia)	0.11	mg/L	Exova
1115678	MS-C-A	30-Jun-14	Conductivity	86	uS/cm	Exova
1115678	MS-C-A	30-Jun-14	N-NO3	<0.10	mg/L	Exova
1115678	MS-C-A	30-Jun-14	pH	7.77	pH units	Exova
1115678	MS-C-A	30-Jun-14	Total Suspended Solids	<2	mg/L	Exova
1115678	MS-C-A	30-Jun-14	Oil & Grease - Total	2	mg/L	Exova
1115678	MS-C-A	30-Jun-14	N-NH3 (Ammonia)	0.08	mg/L	Exova
1114176	MS-C-B	23-Jun-14	Conductivity	80	uS/cm	Exova
1114176	MS-C-B	23-Jun-14	N-NO3	<0.10	mg/L	Exova
1114176	MS-C-B	23-Jun-14	pH	7.76	pH units	Exova
1114176	MS-C-B	23-Jun-14	Total Suspended Solids	<2	mg/L	Exova
1114176	MS-C-B	23-Jun-14	Oil & Grease - Total	<1	mg/L	Exova
1114176	MS-C-B	23-Jun-14	N-NH3 (Ammonia)	0.12	mg/L	Exova
1115677	MS-C-B	30-Jun-14	Conductivity	91	uS/cm	Exova
1115677	MS-C-B	30-Jun-14	N-NO3	<0.10	mg/L	Exova
1115677	MS-C-B	30-Jun-14	pH	7.77	pH units	Exova
1115677	MS-C-B	30-Jun-14	Total Suspended Solids	<2	mg/L	Exova
1115677	MS-C-B	30-Jun-14	Oil & Grease - Total	<1	mg/L	Exova
1115677	MS-C-B	30-Jun-14	N-NH3 (Ammonia)	0.1	mg/L	Exova
1114175	MS-C-C	23-Jun-14	Conductivity	543	uS/cm	Exova
1114175	MS-C-C	23-Jun-14	N-NO3	15.9	mg/L	Exova
1114175	MS-C-C	23-Jun-14	pH	7.88	pH units	Exova
1114175	MS-C-C	23-Jun-14	Total Suspended Solids	<2	mg/L	Exova
1114175	MS-C-C	23-Jun-14	Oil & Grease - Total	<1	mg/L	Exova
1114175	MS-C-C	23-Jun-14	N-NH3 (Ammonia)	0.12	mg/L	Exova
1114174	MS-C-D	23-Jun-14	Conductivity	207	uS/cm	Exova
1114174	MS-C-D	23-Jun-14	N-NO3	4.29	mg/L	Exova
1114174	MS-C-D	23-Jun-14	pH	7.93	pH units	Exova
1114174	MS-C-D	23-Jun-14	Total Suspended Solids	<2	mg/L	Exova
1114174	MS-C-D	23-Jun-14	Oil & Grease - Total	<1	mg/L	Exova
1114174	MS-C-D	23-Jun-14	N-NH3 (Ammonia)	0.12	mg/L	Exova
1115675	MS-C-D	30-Jun-14	Conductivity	318	uS/cm	Exova
1115675	MS-C-D	30-Jun-14	N-NO3	4.65	mg/L	Exova
1115675	MS-C-D	30-Jun-14	pH	8.4	pH units	Exova
1115675	MS-C-D	30-Jun-14	Total Suspended Solids	<2	mg/L	Exova
1115675	MS-C-D	30-Jun-14	Oil & Grease - Total	<1	mg/L	Exova
1115675	MS-C-D	30-Jun-14	N-NH3 (Ammonia)	0.09	mg/L	Exova
1114172	MS-C-E	23-Jun-14	Conductivity	117	uS/cm	Exova
1114172	MS-C-E	23-Jun-14	N-NO3	0.32	mg/L	Exova
1114172	MS-C-E	23-Jun-14	pH	7.92	pH units	Exova
1114172	MS-C-E	23-Jun-14	Total Suspended Solids	<2	mg/L	Exova
1114172	MS-C-E	23-Jun-14	Oil & Grease - Total	<1	mg/L	Exova
1114172	MS-C-E	23-Jun-14	N-NH3 (Ammonia)	0.05	mg/L	Exova
1114173	MS-C-E-DS	23-Jun-14	Conductivity	83	uS/cm	Exova
1114173	MS-C-E-DS	23-Jun-14	N-NO3	<0.10	mg/L	Exova
1114173	MS-C-E-DS	23-Jun-14	pH	7.81	pH units	Exova
1114173	MS-C-E-DS	23-Jun-14	Total Suspended Solids	<2	mg/L	Exova
1114173	MS-C-E-DS	23-Jun-14	Oil & Grease - Total	<1	mg/L	Exova
1114173	MS-C-E-DS	23-Jun-14	N-NH3 (Ammonia)	0.11	mg/L	Exova
1115673	MS-C-E	30-Jun-14	Conductivity	204	uS/cm	Exova
1115673	MS-C-E	30-Jun-14	N-NO3	0.6	mg/L	Exova
1115673	MS-C-E	30-Jun-14	pH	8.04	pH units	Exova
1115673	MS-C-E	30-Jun-14	Total Suspended Solids	<2	mg/L	Exova
1115673	MS-C-E	30-Jun-14	Oil & Grease - Total	<1	mg/L	Exova
1115673	MS-C-E	30-Jun-14	N-NH3 (Ammonia)	0.06	mg/L	Exova
1114178	MS-C-F	23-Jun-14	Conductivity	71	uS/cm	Exova
1114178	MS-C-F	23-Jun-14	N-NO3	<0.10	mg/L	Exova
1114178	MS-C-F	23-Jun-14	pH	7.70	pH units	Exova
1114178	MS-C-F	23-Jun-14	Total Suspended Solids	<2	mg/L	Exova
1114178	MS-C-F	23-Jun-14	Oil & Grease - Total	<1	mg/L	Exova
1114178	MS-C-F	23-Jun-14	N-NH3 (Ammonia)	0.1	mg/L	Exova
1115674	MS-C-F	30-Jun-14	Conductivity	90	uS/cm	Exova
1115674	MS-C-F	30-Jun-14	N-NO3	<0.10	mg/L	Exova
1115674	MS-C-F	30-Jun-14	pH	7.76	pH units	Exova
1115674	MS-C-F	30-Jun-14	Total Suspended Solids	<2	mg/L	Exova
1115674	MS-C-F	30-Jun-14	Oil & Grease - Total	<1	mg/L	Exova
1115674	MS-C-F	30-Jun-14	N-NH3 (Ammonia)	0.1	mg/L	Exova

Note: Acute lethality to Rainbow trout, *Oncorhynchus mykiss* (as per Environment Canada's Environmental Protection Series Method EPS/1/RM/13)
Acute lethality to *Daphnia magna* (as per Environment Canada's Environmental Protection Series Method EPS/1/RM/14)

Area of Water Quality Exceedance:

Sample Station MP-Q1-02 (Milne Port quarry runoff) showed an exceedance for total suspended solids on June 30, 2014 (290 mg/L). Silt fences were erected and upstream work was completed to minimize impacts. Subsequent sampling of this location on July 7, 2014 resulted in a

MILNE PORT						
1115644	MP-01	1-Jul-14	Biochemical Oxygen Demand	<1	mg/L	Exova
1115646	MP-01	1-Jul-14	Faecal Coliforms	0	ct/100mL	Exova
1115644	MP-01	1-Jul-14	Total Kjeldahl Nitrogen	0.82	mg/L	Exova
1115644	MP-01	1-Jul-14	N-NH3 (Ammonia)	0.15	mg/L	Exova
1115644	MP-01	1-Jul-14	Oil & Grease - Total	<1	mg/L	Exova
1115644	MP-01	1-Jul-14	Total Suspended Solids	<2	mg/L	Exova
1115644	MP-01	1-Jul-14	pH	7.67	pH units	Exova
1117762	MP-01	8-Jul-14	Biochemical Oxygen Demand	<1	mg/L	Exova
1117764	MP-01	8-Jul-14	Faecal Coliforms	1	ct/100mL	Exova
1117762	MP-01	8-Jul-14	Total Kjeldahl Nitrogen	0.71	mg/L	Exova
1117762	MP-01	8-Jul-14	N-NH3 (Ammonia)	0.09	mg/L	Exova
1117762	MP-01	8-Jul-14	Oil & Grease - Total	<1	mg/L	Exova
1117762	MP-01	8-Jul-14	Total Suspended Solids	<2	mg/L	Exova
1117762	MP-01	8-Jul-14	pH	7.77	pH units	Exova
1119638	MP-01	15-Jul-14	Biochemical Oxygen Demand	4	mg/L	Exova
1119640	MP-01	15-Jul-14	Faecal Coliforms	0	ct/100mL	Exova
1119638	MP-01	15-Jul-14	Total Kjeldahl Nitrogen	0.96	mg/L	Exova
1119638	MP-01	15-Jul-14	N-NH3 (Ammonia)	0.18	mg/L	Exova
1119638	MP-01	15-Jul-14	Oil & Grease - Total	<1	mg/L	Exova
1119638	MP-01	15-Jul-14	Total Suspended Solids	5	mg/L	Exova
1119638	MP-01	15-Jul-14	pH	7.68	pH units	Exova
1121265	MP-01	22-Jul-14	Biochemical Oxygen Demand	<1	mg/L	Exova
1121268	MP-01	22-Jul-14	Faecal Coliforms	0	ct/100mL	Exova
1121265	MP-01	22-Jul-14	Total Kjeldahl Nitrogen	1.69	mg/L	Exova
1121265	MP-01	22-Jul-14	N-NH3 (Ammonia)	0.09	mg/L	Exova
1121265	MP-01	22-Jul-14	Oil & Grease - Total	<1	mg/L	Exova
1121265	MP-01	22-Jul-14	Total Suspended Solids	<2	mg/L	Exova
1121265	MP-01	22-Jul-14	pH	7.93	pH units	Exova
1123435	MP-01	30-Jul-14	Biochemical Oxygen Demand	<1	mg/L	Exova
1123438	MP-01	30-Jul-14	Faecal Coliforms	0	ct/100mL	Exova
1123435	MP-01	30-Jul-14	Total Kjeldahl Nitrogen	0.9	mg/L	Exova
1123435	MP-01	30-Jul-14	N-NH3 (Ammonia)	0.08	mg/L	Exova
1123435	MP-01	30-Jul-14	Oil & Grease - Total	<1	mg/L	Exova
1123435	MP-01	30-Jul-14	Total Suspended Solids	2	mg/L	Exova
1123435	MP-01	30-Jul-14	pH	7.83	pH units	Exova
1119764	MP-01A	14-Jul-14	Toxicity*	non-lethal	mortality %	Exova
1123286	MP-01A	27-Jul-14	Biochemical Oxygen Demand	37	mg/L	Exova
1123286	MP-01A	27-Jul-14	Total Kjeldahl Nitrogen	12.8	mg/L	Exova
1123286	MP-01A	27-Jul-14	N-NH3 (Ammonia)	1.59	mg/L	Exova
1123286	MP-01A	27-Jul-14	Oil & Grease - Total	<1	mg/L	Exova
1123286	MP-01A	27-Jul-14	Total Suspended Solids	68	mg/L	Exova
1123286	MP-01A	27-Jul-14	pH	7.83	pH units	Exova

TABLE 2.8

BAFFINLAND IRON MINES CORPORATION
MARY RIVER PROJECT2014 ANNUAL REPORT TO THE NUNAVUT WATER BOARD
WATER QUALITY RESULTS FOR WATER LICENCE MONITORING LOCATIONS

Sample Number	Sample ID	Date Sampled	Parameter Name	Result	Unit	Lab
1118597	MP-03	9-Jul-14	Benzene	<0.5	ug/L	Exova
1118597	MP-03	9-Jul-14	Ethylbenzene	<0.5	ug/L	Exova
1118597	MP-03	9-Jul-14	Toluene	<0.5	ug/L	Exova
1118597	MP-03	9-Jul-14	Total Lead	<0.001	mg/L	Exova
1118597	MP-03	9-Jul-14	Oil & Grease - Total	<1	mg/L	Exova
1119808	MP-03	14-Jul-14	Benzene	<0.5	ug/L	Exova
1119808	MP-03	14-Jul-14	Ethylbenzene	<0.5	ug/L	Exova
1119808	MP-03	14-Jul-14	Toluene	<0.5	ug/L	Exova
1119808	MP-03	14-Jul-14	Total Lead	0.001	mg/L	Exova
1119808	MP-03	14-Jul-14	Oil & Grease - Total	<1	mg/L	Exova
1117741	MP-Q1-01	7-Jul-14	pH	7.99	pH units	Exova
1117741	MP-Q1-01	7-Jul-14	Total Suspended Solids	<2	mg/L	Exova
1117741	MP-Q1-01	7-Jul-14	Oil & Grease - Total	<1	mg/L	Exova
1117742	MP-Q1-0101	7-Jul-14	pH	8.04	pH units	Exova
1117742	MP-Q1-0101	7-Jul-14	Total Suspended Solids	<2	mg/L	Exova
1117742	MP-Q1-0101	7-Jul-14	Oil & Grease - Total	<1	mg/L	Exova
1119802	MP-Q1-01	14-Jul-14	Conductivity	208	uS/cm	Exova
1119802	MP-Q1-01	14-Jul-14	N-NO3	0.18	mg/L	Exova
1119802	MP-Q1-01	14-Jul-14	pH	7.94	pH units	Exova
1119802	MP-Q1-01	14-Jul-14	Total Suspended Solids	<2	mg/L	Exova
1119802	MP-Q1-01	14-Jul-14	Oil & Grease - Total	<1	mg/L	Exova
1119802	MP-Q1-01	14-Jul-14	N-NH3 (Ammonia)	0.23	mg/L	Exova
1121696	MP-Q1-01	22-Jul-14	pH	8.07	pH units	Exova
1121696	MP-Q1-01	22-Jul-14	Total Suspended Solids	<2	mg/L	Exova
1121696	MP-Q1-01	22-Jul-14	Oil & Grease - Total	2	mg/L	Exova
1121697	MP-Q1-0101	22-Jul-14	pH	8.1	pH units	Exova
1121697	MP-Q1-0101	22-Jul-14	Total Suspended Solids	<2	mg/L	Exova
1121697	MP-Q1-0101	22-Jul-14	Oil & Grease - Total	1	mg/L	Exova
1123768	MP-Q1-01	30-Jul-14	pH	8.11	pH units	Exova
1123768	MP-Q1-01	30-Jul-14	Total Suspended Solids	<2	mg/L	Exova
1123768	MP-Q1-01	30-Jul-14	Oil & Grease - Total	<1	mg/L	Exova
1117743	MP-Q1-02	7-Jul-14	pH	7.97	pH units	Exova
1117743	MP-Q1-02	7-Jul-14	Total Suspended Solids	2	mg/L	Exova
1117743	MP-Q1-02	7-Jul-14	Oil & Grease - Total	5	mg/L	Exova
1119803	MP-Q1-02	14-Jul-14	Conductivity	514	uS/cm	Exova
1119803	MP-Q1-02	14-Jul-14	N-NO3	15.3	mg/L	Exova
1119803	MP-Q1-02	14-Jul-14	pH	7.95	pH units	Exova
1119803	MP-Q1-02	14-Jul-14	Total Suspended Solids	38	mg/L	Exova
1119803	MP-Q1-02	14-Jul-14	Oil & Grease - Total	<1	mg/L	Exova
1119803	MP-Q1-02	14-Jul-14	N-NH3 (Ammonia)	8.23	mg/L	Exova
1121698	MP-Q1-02	22-Jul-14	pH	8.01	pH units	Exova
1121698	MP-Q1-02	22-Jul-14	Total Suspended Solids	13	mg/L	Exova
1121698	MP-Q1-02	22-Jul-14	Oil & Grease - Total	5	mg/L	Exova
1123769	MP-Q1-02	30-Jul-14	pH	8	pH units	Exova
1123769	MP-Q1-02	30-Jul-14	Total Suspended Solids	3	mg/L	Exova
1123769	MP-Q1-02	30-Jul-14	Oil & Grease - Total	<1	mg/L	Exova
1117747	MP-C-A	7-Jul-14	pH	8.05	pH units	Exova
1117747	MP-C-A	7-Jul-14	Total Suspended Solids	154	mg/L	Exova
1117747	MP-C-A	7-Jul-14	Oil & Grease - Total	3	mg/L	Exova
1119807	MP-C-A	14-Jul-14	Conductivity	1300	uS/cm	Exova
1119807	MP-C-A	14-Jul-14	N-NO3	17.8	mg/L	Exova
1119807	MP-C-A	14-Jul-14	pH	7.98	pH units	Exova
1119807	MP-C-A	14-Jul-14	Total Suspended Solids	5	mg/L	Exova
1119807	MP-C-A	14-Jul-14	Oil & Grease - Total	<1	mg/L	Exova
1119807	MP-C-A	14-Jul-14	N-NH3 (Ammonia)	0.16	mg/L	Exova
1117744	MP-C-B	7-Jul-14	pH	8.36	pH units	Exova
1117744	MP-C-B	7-Jul-14	Total Suspended Solids	2	mg/L	Exova
1117744	MP-C-B	7-Jul-14	Oil & Grease - Total	<1	mg/L	Exova
1119804	MP-C-B	14-Jul-14	Conductivity	274	uS/cm	Exova
1119804	MP-C-B	14-Jul-14	N-NO3	1.21	mg/L	Exova
1119804	MP-C-B	14-Jul-14	pH	8.07	pH units	Exova
1119804	MP-C-B	14-Jul-14	Total Suspended Solids	25	mg/L	Exova
1119804	MP-C-B	14-Jul-14	Oil & Grease - Total	<1	mg/L	Exova
1119804	MP-C-B	14-Jul-14	N-NH3 (Ammonia)	0.23	mg/L	Exova
1121699	MP-C-B	22-Jul-14	pH	8.41	pH units	Exova
1121699	MP-C-B	22-Jul-14	Total Suspended Solids	<2	mg/L	Exova
1121699	MP-C-B	22-Jul-14	Oil & Grease - Total	<1	mg/L	Exova
1123770	MP-C-B	30-Jul-14	pH	8.39	pH units	Exova
1123770	MP-C-B	30-Jul-14	Total Suspended Solids	<2	mg/L	Exova
1123770	MP-C-B	30-Jul-14	Oil & Grease - Total	<1	mg/L	Exova
1117745	MP-C-B01	7-Jul-14	pH	8.42	pH units	Exova
1117745	MP-C-B01	7-Jul-14	Total Suspended Solids	<2	mg/L	Exova
1117745	MP-C-B01	7-Jul-14	Oil & Grease - Total	1	mg/L	Exova
1119805	MP-C-B01	14-Jul-14	Conductivity	248	uS/cm	Exova
1119805	MP-C-B01	14-Jul-14	N-NO3	1.44	mg/L	Exova
1119805	MP-C-B01	14-Jul-14	pH	8.4	pH units	Exova
1119805	MP-C-B01	14-Jul-14	Total Suspended Solids	<2	mg/L	Exova
1119805	MP-C-B01	14-Jul-14	Oil & Grease - Total	<1	mg/L	Exova
1119805	MP-C-B01	14-Jul-14	N-NH3 (Ammonia)	0.14	mg/L	Exova
1121700	MP-C-B01	22-Jul-14	pH	8.36	pH units	Exova
1121700	MP-C-B01	22-Jul-14	Total Suspended Solids	<2	mg/L	Exova
1121700	MP-C-B01	22-Jul-14	Oil & Grease - Total	1	mg/L	Exova
1121575	MP-C-B01	22-Jul-14	Toxicity*	non-lethal	mortality %	Exova
1123771	MP-C-B01	30-Jul-14	pH	8.31	pH units	Exova
1123771	MP-C-B01	30-Jul-14	Total Suspended Solids	2	mg/L	Exova
1123771	MP-C-B01	30-Jul-14	Oil & Grease - Total	<1	mg/L	Exova
1117746	MP-C-H	7-Jul-14	pH	8.09	pH units	Exova
1117746	MP-C-H	7-Jul-14	Total Suspended Solids	<2	mg/L	Exova
1117746	MP-C-H	7-Jul-14	Oil & Grease - Total	<1	mg/L	Exova
1119806	MP-C-H	14-Jul-14	Conductivity	190	uS/cm	Exova
1119806	MP-C-H	14-Jul-14	N-NO3	<0.10	mg/L	Exova
1119806	MP-C-H	14-Jul-14	pH	8.18	pH units	Exova
1119806	MP-C-H	14-Jul-14	Total Suspended Solids	<2	mg/L	Exova
1119806	MP-C-H	14-Jul-14	Oil & Grease - Total	<1	mg/L	Exova
1119806	MP-C-H	14-Jul-14	N-NH3 (Ammonia)	0.12	mg/L	Exova
1121701	MP-C-H	22-Jul-14	pH	8.26	pH units	Exova
1121701	MP-C-H	22-Jul-14	Total Suspended Solids	<2	mg/L	Exova
1121701	MP-C-H	22-Jul-14	Oil & Grease - Total	1	mg/L	Exova
1123772	MP-C-H	30-Jul-14	pH	8.29	pH units	Exova
1123772	MP-C-H	30-Jul-14	Total Suspended Solids	<2	mg/L	Exova
1123772	MP-C-H	30-Jul-14	Oil & Grease - Total	<1	mg/L	Exova
MARY RIVER MINE SITE						
1115650	MS-01	1-Jul-14	Biochemical Oxygen Demand	<1	mg/L	Exova
1115653	MS-01	1-Jul-14	Faecal Coliforms	0	ct/100mL	Exova
1115650	MS-01	1-Jul-14	Total Kjeldahl Nitrogen	0.77	mg/L	Exova
1115650	MS-01	1-Jul-14	N-NH3 (Ammonia)	0.08	mg/L	Exova
1115650	MS-01	1-Jul-14	Oil & Grease - Total	<1	mg/L	Exova
1115650	MS-01	1-Jul-14	Total Phosphorus	1.02	mg/L	Exova
1115650	MS-01	1-Jul-14	Total Suspended Solids	3	mg/L	Exova
1115650	MS-01	1-Jul-14	pH	7.63	pH units	Exova
1117749	MS-01	8-Jul-14	Biochemical Oxygen Demand	<1	mg/L	Exova
1117751	MS-01	8-Jul-14	Faecal Coliforms	2	ct/100mL	Exova
1117749	MS-01	8-Jul-14	Total Kjeldahl Nitrogen	0.58	mg/L	Exova
1117749	MS-01	8-Jul-14	N-NH3 (Ammonia)	0.2	mg/L	Exova
1117749	MS-01	8-Jul-14	Oil & Grease - Total	1	mg/L	Exova
1117749	MS-01	8-Jul-14	Total Phosphorus	0.73	mg/L	Exova
1117749	MS-01	8-Jul-14	Total Suspended Solids	4	mg/L	Exova
1117749	MS-01	8-Jul-14	pH	7.82	pH units	Exova
1119796	MS-01	15-Jul-14	Biochemical Oxygen Demand	5	mg/L	Exova
1119798	MS-01	15-Jul-14	Faecal Coliforms	31	ct/100mL	Exova
1119796	MS-01	15-Jul-14	Total Kjeldahl Nitrogen	1.86	mg/L	Exova
1119796	MS-01	15-Jul-14	N-NH3 (Ammonia)	0.75	mg/L	Exova
1119796	MS-01	15-Jul-14	Oil & Grease - Total	<1	mg/L	Exova
1119796	MS-01	15-Jul-14	Total Phosphorus	1.08	mg/L	Exova
1119796	MS-01	15-Jul-14	Total Suspended Solids	29	mg/L	Exova
1119796	MS-01	15-Jul-14	pH	7.66	pH units	Exova

TABLE 2.8

BAFFINLAND IRON MINES CORPORATION
MARY RIVER PROJECT

2014 ANNUAL REPORT TO THE NUNAVUT WATER BOARD
WATER QUALITY RESULTS FOR WATER LICENCE MONITORING LOCATIONS

Sample Number	Sample ID	Date Sampled	Parameter Name	Result	Unit	Lab
1121270	MS-01	22-Jul-14	Biochemical Oxygen Demand	<1	mg/L	Exova
1121272	MS-01	22-Jul-14	Faecal Coliforms	210	ct/100mL	Exova
1121270	MS-01	22-Jul-14	Total Kjeldahl Nitrogen	0.89	mg/L	Exova
1121270	MS-01	22-Jul-14	N-NH3 (Ammonia)	0.51	mg/L	Exova
1121270	MS-01	22-Jul-14	Oil & Grease - Total	2	mg/L	Exova
1121270	MS-01	22-Jul-14	Total Phosphorus	0.31	mg/L	Exova
1121270	MS-01	22-Jul-14	Total Suspended Solids	<2	mg/L	Exova
1121270	MS-01	22-Jul-14	pH	7.68	pH units	Exova
1123287	MS-01	29-Jul-14	Biochemical Oxygen Demand	<1	mg/L	Exova
1123289	MS-01	29-Jul-14	Faecal Coliforms	0	ct/100mL	Exova
1123287	MS-01	29-Jul-14	Total Kjeldahl Nitrogen	0.91	mg/L	Exova
1123287	MS-01	29-Jul-14	N-NH3 (Ammonia)	0.19	mg/L	Exova
1123287	MS-01	29-Jul-14	Oil & Grease - Total	<1	mg/L	Exova
1123287	MS-01	29-Jul-14	Total Phosphorus	0.36	mg/L	Exova
1123287	MS-01	29-Jul-14	Total Suspended Solids	<2	mg/L	Exova
1123287	MS-01	29-Jul-14	pH	7.03	pH units	Exova
1122836	MS-MRY-09	28-Jul-14	Total Arsenic	<0.1	ug/L	Exova
1122836	MS-MRY-09	28-Jul-14	Total Copper	0.7	ug/L	Exova
1122836	MS-MRY-09	28-Jul-14	Total Lead	0.08	ug/L	Exova
1122836	MS-MRY-09	28-Jul-14	Total Nickel	<0.5	ug/L	Exova
1122836	MS-MRY-09	28-Jul-14	Total Zinc	<3	ug/L	Exova
1122834	MS-MRY-09	28-Jul-14	Total Suspended Solids	<2	mg/L	Exova
1122834	MS-MRY-09	28-Jul-14	pH	7.30	pH units	Exova
1122823	MS-MRY-09	28-Jul-14	Toxicity*	non-lethal	mortality %	Exova
1118147	MS-MRY-10	8-Jul-14	Total Arsenic	<0.1	ug/L	Exova
1118147	MS-MRY-10	8-Jul-14	Total Copper	0.7	ug/L	Exova
1118147	MS-MRY-10	8-Jul-14	Total Lead	0.21	ug/L	Exova
1118147	MS-MRY-10	8-Jul-14	Total Nickel	0.8	ug/L	Exova
1118147	MS-MRY-10	8-Jul-14	Total Zinc	<3	ug/L	Exova
1118146	MS-MRY-10	8-Jul-14	Total Suspended Solids	4	mg/L	Exova
1118146	MS-MRY-10	8-Jul-14	pH	7.07	pH units	Exova
1119833	MS-MRY-10	14-Jul-14	Total Arsenic	<0.1	ug/L	Exova
1119833	MS-MRY-10	14-Jul-14	Total Copper	0.6	ug/L	Exova
1119833	MS-MRY-10	14-Jul-14	Total Lead	0.09	ug/L	Exova
1119833	MS-MRY-10	14-Jul-14	Total Nickel	<0.5	ug/L	Exova
1119833	MS-MRY-10	14-Jul-14	Total Zinc	<3	ug/L	Exova
1119832	MS-MRY-10	14-Jul-14	Total Suspended Solids	<2	mg/L	Exova
1119832	MS-MRY-10	14-Jul-14	pH	7.32	pH units	Exova
1122837	MS-MRY-10	28-Jul-14	Total Arsenic	<0.1	ug/L	Exova
1122837	MS-MRY-10	28-Jul-14	Total Copper	1.5	ug/L	Exova
1122837	MS-MRY-10	28-Jul-14	Total Lead	<0.05	ug/L	Exova
1122837	MS-MRY-10	28-Jul-14	Total Nickel	0.6	ug/L	Exova
1122837	MS-MRY-10	28-Jul-14	Total Zinc	<3	ug/L	Exova
1122835	MS-MRY-10	28-Jul-14	Total Suspended Solids	<2	mg/L	Exova
1122835	MS-MRY-10	28-Jul-14	pH	8.17	pH units	Exova
1117819	MS-MRY-13A	7-Jul-14	pH	8.03	pH units	Exova
1117821	MS-MRY-13A	7-Jul-14	Total Arsenic	0.1	ug/L	Exova
1117821	MS-MRY-13A	7-Jul-14	Total Copper	1.3	ug/L	Exova
1117821	MS-MRY-13A	7-Jul-14	Total Lead	0.09	ug/L	Exova
1117821	MS-MRY-13A	7-Jul-14	Total Nickel	11	ug/L	Exova
1117821	MS-MRY-13A	7-Jul-14	Total Zinc	5	ug/L	Exova
1117819	MS-MRY-13A	7-Jul-14	Total Suspended Solids	4	mg/L	Exova
1117819	MS-MRY-13A	7-Jul-14	Oil & Grease - Total	<1	mg/L	Exova
1119814	MS-MRY-13A	14-Jul-14	pH	7.95	pH units	Exova
1119817	MS-MRY-13A	14-Jul-14	Total Arsenic	0.2	ug/L	Exova
1119817	MS-MRY-13A	14-Jul-14	Total Copper	1.4	ug/L	Exova
1119817	MS-MRY-13A	14-Jul-14	Total Lead	<0.05	ug/L	Exova
1119817	MS-MRY-13A	14-Jul-14	Total Nickel	10.7	ug/L	Exova
1119817	MS-MRY-13A	14-Jul-14	Total Zinc	3	ug/L	Exova
1119814	MS-MRY-13A	14-Jul-14	Total Suspended Solids	24	mg/L	Exova
1119814	MS-MRY-13A	14-Jul-14	Oil & Grease - Total	<1	mg/L	Exova
1121328	MS-MRY-13A	21-Jul-14	pH	7.86	pH units	Exova
1121330	MS-MRY-13A	21-Jul-14	Total Arsenic	0.1	ug/L	Exova
1121330	MS-MRY-13A	21-Jul-14	Total Copper	1.1	ug/L	Exova
1121330	MS-MRY-13A	21-Jul-14	Total Lead	<0.05	ug/L	Exova
1121330	MS-MRY-13A	21-Jul-14	Total Nickel	9.2	ug/L	Exova
1121330	MS-MRY-13A	21-Jul-14	Total Zinc	<3	ug/L	Exova
1121328	MS-MRY-13A	21-Jul-14	Total Suspended Solids	<2	mg/L	Exova
1121328	MS-MRY-13A	21-Jul-14	Oil & Grease - Total	<1	mg/L	Exova
1122842	MS-MRY-13A	28-Jul-14	pH	8.03	pH units	Exova
1122844	MS-MRY-13A	28-Jul-14	Total Arsenic	0.1	ug/L	Exova
1122844	MS-MRY-13A	28-Jul-14	Total Copper	1.7	ug/L	Exova
1122844	MS-MRY-13A	28-Jul-14	Total Lead	0.06	ug/L	Exova
1122844	MS-MRY-13A	28-Jul-14	Total Nickel	11.2	ug/L	Exova
1122844	MS-MRY-13A	28-Jul-14	Total Zinc	8	ug/L	Exova
1122842	MS-MRY-13A	28-Jul-14	Total Suspended Solids	3	mg/L	Exova
1117820	MS-MRY-13B	7-Jul-14	pH	8.30	pH units	Exova
1117822	MS-MRY-13B	7-Jul-14	Total Arsenic	<0.1	ug/L	Exova
1117822	MS-MRY-13B	7-Jul-14	Total Copper	1.2	ug/L	Exova
1117822	MS-MRY-13B	7-Jul-14	Total Lead	<0.05	ug/L	Exova
1117822	MS-MRY-13B	7-Jul-14	Total Nickel	3.6	ug/L	Exova
1117822	MS-MRY-13B	7-Jul-14	Total Zinc	<3	ug/L	Exova
1117820	MS-MRY-13B	7-Jul-14	Total Suspended Solids	2	mg/L	Exova
1117820	MS-MRY-13B	7-Jul-14	Oil & Grease - Total	<1	mg/L	Exova
1119815	MS-MRY-13B	14-Jul-14	pH	8.17	pH units	Exova
1119818	MS-MRY-13B	14-Jul-14	Total Arsenic	0.1	ug/L	Exova
1119818	MS-MRY-13B	14-Jul-14	Total Copper	1.6	ug/L	Exova
1119818	MS-MRY-13B	14-Jul-14	Total Lead	<0.05	ug/L	Exova
1119818	MS-MRY-13B	14-Jul-14	Total Nickel	8	ug/L	Exova
1119818	MS-MRY-13B	14-Jul-14	Total Zinc	<3	ug/L	Exova
1119815	MS-MRY-13B	14-Jul-14	Total Suspended Solids	<2	mg/L	Exova
1119815	MS-MRY-13B	14-Jul-14	Oil & Grease - Total	<1	mg/L	Exova
1121329	MS-MRY-13B	21-Jul-14	pH	8.04	pH units	Exova
1121331	MS-MRY-13B	21-Jul-14	Total Arsenic	<0.1	ug/L	Exova
1121331	MS-MRY-13B	21-Jul-14	Total Copper	1.2	ug/L	Exova
1121331	MS-MRY-13B	21-Jul-14	Total Lead	<0.05	ug/L	Exova
1121331	MS-MRY-13B	21-Jul-14	Total Nickel	7.2	ug/L	Exova
1121331	MS-MRY-13B	21-Jul-14	Total Zinc	<3	ug/L	Exova
1121329	MS-MRY-13B	21-Jul-14	Total Suspended Solids	<2	mg/L	Exova
1121329	MS-MRY-13B	21-Jul-14	Oil & Grease - Total	<1	mg/L	Exova
1122843	MS-MRY-13B	28-Jul-14	pH	8.21	pH units	Exova
1122845	MS-MRY-13B	28-Jul-14	Total Arsenic	0.1	ug/L	Exova
1122845	MS-MRY-13B	28-Jul-14	Total Copper	1.6	ug/L	Exova
1122845	MS-MRY-13B	28-Jul-14	Total Lead	<0.05	ug/L	Exova
1122845	MS-MRY-13B	28-Jul-14	Total Nickel	8.2	ug/L	Exova
1122845	MS-MRY-13B	28-Jul-14	Total Zinc	<3	ug/L	Exova
1122843	MS-MRY-13B	28-Jul-14	Total Suspended Solids	2	mg/L	Exova
1117818	MQ-C-A	7-Jul-14	pH	7.98	pH units	Exova
1117818	MQ-C-A	7-Jul-14	Total Suspended Solids	<2	mg/L	Exova
1117818	MQ-C-A	7-Jul-14	Oil & Grease - Total	<1	mg/L	Exova
1119780	MQ-C-A	14-Jul-14	Conductivity	162	uS/cm	Exova
1119780	MQ-C-A	14-Jul-14	N-NO3	<0.10	mg/L	Exova
1119780	MQ-C-A	14-Jul-14	pH	8.03	pH units	Exova
1119780	MQ-C-A	14-Jul-14	Total Suspended Solids	<2	mg/L	Exova
1119780	MQ-C-A	14-Jul-14	Oil & Grease - Total	<1	mg/L	Exova
1119780	MQ-C-A	14-Jul-14	N-NH3 (Ammonia)	0.06	mg/L	Exova
1121349	MQ-C-A	21-Jul-14	Conductivity	233	uS/cm	Exova
1121349	MQ-C-A	21-Jul-14	N-NO3	<0.10	mg/L	Exova
1121349	MQ-C-A	21-Jul-14	pH	8.15	pH units	Exova
1121349	MQ-C-A	21-Jul-14	Total Suspended Solids	<2	mg/L	Exova
1121349	MQ-C-A	21-Jul-14	Oil & Grease - Total	<1	mg/L	Exova
1121349	MQ-C-A	21-Jul-14	N-NH3 (Ammonia)	0.13	mg/L	Exova
1121338	MQ-C-A-01	21-Jul-14	Conductivity	234	uS/cm	Exova
1121338	MQ-C-A-01	21-Jul-14	N-NO3	<0.10	mg/L	Exova
1121338	MQ-C-A-01	21-Jul-14	pH	8.09	pH units	Exova
1121338	MQ-C-A-01	21-Jul-14	Total Suspended Solids	<2	mg/L	Exova
1121338	MQ-C-A-01	21-Jul-14	Oil & Grease - Total	<1	mg/L	Exova
1121338	MQ-C-A-01	21-Jul-14	N-NH3 (Ammonia)	0.03	mg/L	Exova

TABLE 2.8

BAFFINLAND IRON MINES CORPORATION
MARY RIVER PROJECT

2014 ANNUAL REPORT TO THE NUNAVUT WATER BOARD
WATER QUALITY RESULTS FOR WATER LICENCE MONITORING LOCATIONS

Sample Number	Sample ID	Date Sampled	Parameter Name	Result	Unit	Lab
1121339	MQ-C-A-02	21-Jul-14	Conductivity	<5	uS/cm	Exova
1121339	MQ-C-A-02	21-Jul-14	N-NO3	<0.10	mg/L	Exova
1121339	MQ-C-A-02	21-Jul-14	pH	5.68	pH units	Exova
1121339	MQ-C-A-02	21-Jul-14	Total Suspended Solids	<2	mg/L	Exova
1121339	MQ-C-A-02	21-Jul-14	Oil & Grease - Total	<1	mg/L	Exova
1121339	MQ-C-A-02	21-Jul-14	N-NH3 (Ammonia)	0.03	mg/L	Exova
1121340	MQ-C-A-03	21-Jul-14	Conductivity	<5	uS/cm	Exova
1121340	MQ-C-A-03	21-Jul-14	N-NO3	<0.10	mg/L	Exova
1121340	MQ-C-A-03	21-Jul-14	pH	5.60	pH units	Exova
1121340	MQ-C-A-03	21-Jul-14	Total Suspended Solids	<2	mg/L	Exova
1121340	MQ-C-A-03	21-Jul-14	Oil & Grease - Total	<1	mg/L	Exova
1121340	MQ-C-A-03	21-Jul-14	N-NH3 (Ammonia)	0.13	mg/L	Exova
1122832	MQ-C-A	28-Jul-14	Conductivity	249	uS/cm	Exova
1122832	MQ-C-A	28-Jul-14	N-NO3	<0.10	mg/L	Exova
1122832	MQ-C-A	28-Jul-14	pH	8.23	pH units	Exova
1122832	MQ-C-A	28-Jul-14	Total Suspended Solids	<2	mg/L	Exova
1122832	MQ-C-A	28-Jul-14	Oil & Grease - Total	<1	mg/L	Exova
1122832	MQ-C-A	28-Jul-14	N-NH3 (Ammonia)	0.03	mg/L	Exova
1122833	MQ-C-A-01	28-Jul-14	Conductivity	249	uS/cm	Exova
1122833	MQ-C-A-01	28-Jul-14	N-NO3	<0.10	mg/L	Exova
1122833	MQ-C-A-01	28-Jul-14	pH	8.25	pH units	Exova
1122833	MQ-C-A-01	28-Jul-14	Total Suspended Solids	<2	mg/L	Exova
1122833	MQ-C-A-01	28-Jul-14	Oil & Grease - Total	<1	mg/L	Exova
1122833	MQ-C-A-01	28-Jul-14	N-NH3 (Ammonia)	0.03	mg/L	Exova
1117816	MQ-C-B	7-Jul-14	pH	8.03	pH units	Exova
1117816	MQ-C-B	7-Jul-14	Total Suspended Solids	<2	mg/L	Exova
1117816	MQ-C-B	7-Jul-14	Oil & Grease - Total	<1	mg/L	Exova
1119778	MQ-C-B	14-Jul-14	Conductivity	662	uS/cm	Exova
1119778	MQ-C-B	14-Jul-14	N-NO3	5.29	mg/L	Exova
1119778	MQ-C-B	14-Jul-14	pH	8.01	pH units	Exova
1119778	MQ-C-B	14-Jul-14	Total Suspended Solids	<2	mg/L	Exova
1119778	MQ-C-B	14-Jul-14	Oil & Grease - Total	<1	mg/L	Exova
1119778	MQ-C-B	14-Jul-14	N-NH3 (Ammonia)	0.98	mg/L	Exova
1121347	MQ-C-B	21-Jul-14	Conductivity	372	uS/cm	Exova
1121347	MQ-C-B	21-Jul-14	N-NO3	1.94	mg/L	Exova
1121347	MQ-C-B	21-Jul-14	pH	8.09	pH units	Exova
1121347	MQ-C-B	21-Jul-14	Total Suspended Solids	10	mg/L	Exova
1121347	MQ-C-B	21-Jul-14	Oil & Grease - Total	<1	mg/L	Exova
1121347	MQ-C-B	21-Jul-14	N-NH3 (Ammonia)	0.6	mg/L	Exova
1121562	MQ-C-B	21-Jul-14	Toxicity*	non-lethal	mortality %	Exova
1122830	MQ-C-B	28-Jul-14	Conductivity	575	uS/cm	Exova
1122830	MQ-C-B	28-Jul-14	N-NO3	3.24	mg/L	Exova
1122830	MQ-C-B	28-Jul-14	pH	8.18	pH units	Exova
1122830	MQ-C-B	28-Jul-14	Total Suspended Solids	<2	mg/L	Exova
1122830	MQ-C-B	28-Jul-14	Oil & Grease - Total	<1	mg/L	Exova
1122830	MQ-C-B	28-Jul-14	N-NH3 (Ammonia)	0.91	mg/L	Exova
1122822	MQ-C-B	28-Jul-14	Toxicity*	non-lethal	mortality %	Exova
1117817	MQ-C-D	7-Jul-14	pH	8.02	pH units	Exova
1117817	MQ-C-D	7-Jul-14	Total Suspended Solids	<2	mg/L	Exova
1117817	MQ-C-D	7-Jul-14	Oil & Grease - Total	<1	mg/L	Exova
1119779	MQ-C-D	14-Jul-14	Conductivity	171	uS/cm	Exova
1119779	MQ-C-D	14-Jul-14	N-NO3	0.22	mg/L	Exova
1119779	MQ-C-D	14-Jul-14	pH	8.02	pH units	Exova
1119779	MQ-C-D	14-Jul-14	Total Suspended Solids	<2	mg/L	Exova
1119779	MQ-C-D	14-Jul-14	Oil & Grease - Total	<1	mg/L	Exova
1119779	MQ-C-D	14-Jul-14	N-NH3 (Ammonia)	0.08	mg/L	Exova
1121348	MQ-C-D	21-Jul-14	Conductivity	225	uS/cm	Exova
1121348	MQ-C-D	21-Jul-14	N-NO3	0.75	mg/L	Exova
1121348	MQ-C-D	21-Jul-14	pH	8.07	pH units	Exova
1121348	MQ-C-D	21-Jul-14	Total Suspended Solids	<2	mg/L	Exova
1121348	MQ-C-D	21-Jul-14	Oil & Grease - Total	<1	mg/L	Exova
1121348	MQ-C-D	21-Jul-14	N-NH3 (Ammonia)	0.11	mg/L	Exova
1122831	MQ-C-D	28-Jul-14	Conductivity	297	uS/cm	Exova
1122831	MQ-C-D	28-Jul-14	N-NO3	0.83	mg/L	Exova
1122831	MQ-C-D	28-Jul-14	pH	8.13	pH units	Exova
1122831	MQ-C-D	28-Jul-14	Total Suspended Solids	<2	mg/L	Exova
1122831	MQ-C-D	28-Jul-14	Oil & Grease - Total	<1	mg/L	Exova
1122831	MQ-C-D	28-Jul-14	N-NH3 (Ammonia)	0.26	mg/L	Exova
1117812	MS-C-A	7-Jul-14	pH	7.85	pH units	Exova
1117812	MS-C-A	7-Jul-14	Total Suspended Solids	<2	mg/L	Exova
1117812	MS-C-A	7-Jul-14	Oil & Grease - Total	<1	mg/L	Exova
1119774	MS-C-A	14-Jul-14	Conductivity	126	uS/cm	Exova
1119774	MS-C-A	14-Jul-14	N-NO3	0.14	mg/L	Exova
1119774	MS-C-A	14-Jul-14	pH	7.75	pH units	Exova
1119774	MS-C-A	14-Jul-14	Total Suspended Solids	<2	mg/L	Exova
1119774	MS-C-A	14-Jul-14	Oil & Grease - Total	<1	mg/L	Exova
1119774	MS-C-A	14-Jul-14	N-NH3 (Ammonia)	0.08	mg/L	Exova
1121343	MS-C-A	21-Jul-14	Conductivity	140	uS/cm	Exova
1121343	MS-C-A	21-Jul-14	N-NO3	0.20	mg/L	Exova
1121343	MS-C-A	21-Jul-14	pH	7.91	pH units	Exova
1121343	MS-C-A	21-Jul-14	Total Suspended Solids	<2	mg/L	Exova
1121343	MS-C-A	21-Jul-14	Oil & Grease - Total	<1	mg/L	Exova
1121343	MS-C-A	21-Jul-14	N-NH3 (Ammonia)	0.03	mg/L	Exova
1122826	MS-C-A	28-Jul-14	Conductivity	165	uS/cm	Exova
1122826	MS-C-A	28-Jul-14	N-NO3	0.27	mg/L	Exova
1122826	MS-C-A	28-Jul-14	pH	7.98	pH units	Exova
1122826	MS-C-A	28-Jul-14	Total Suspended Solids	<2	mg/L	Exova
1122826	MS-C-A	28-Jul-14	Oil & Grease - Total	<1	mg/L	Exova
1122826	MS-C-A	28-Jul-14	N-NH3 (Ammonia)	0.05	mg/L	Exova
1117811	MS-C-B	7-Jul-14	pH	7.77	pH units	Exova
1117811	MS-C-B	7-Jul-14	Total Suspended Solids	<2	mg/L	Exova
1117811	MS-C-B	7-Jul-14	Oil & Grease - Total	1	mg/L	Exova
1119773	MS-C-B	14-Jul-14	Conductivity	126	uS/cm	Exova
1119773	MS-C-B	14-Jul-14	N-NO3	0.15	mg/L	Exova
1119773	MS-C-B	14-Jul-14	pH	7.84	pH units	Exova
1119773	MS-C-B	14-Jul-14	Total Suspended Solids	<2	mg/L	Exova
1119773	MS-C-B	14-Jul-14	Oil & Grease - Total	<1	mg/L	Exova
1119773	MS-C-B	14-Jul-14	N-NH3 (Ammonia)	0.07	mg/L	Exova
1121342	MS-C-B	21-Jul-14	Conductivity	140	uS/cm	Exova
1121342	MS-C-B	21-Jul-14	N-NO3	0.22	mg/L	Exova
1121342	MS-C-B	21-Jul-14	pH	7.87	pH units	Exova
1121342	MS-C-B	21-Jul-14	Total Suspended Solids	<2	mg/L	Exova
1121342	MS-C-B	21-Jul-14	Oil & Grease - Total	2	mg/L	Exova
1121342	MS-C-B	21-Jul-14	N-NH3 (Ammonia)	0.13	mg/L	Exova
1122825	MS-C-B	28-Jul-14	Conductivity	168	uS/cm	Exova
1122825	MS-C-B	28-Jul-14	N-NO3	0.36	mg/L	Exova
1122825	MS-C-B	28-Jul-14	pH	7.95	pH units	Exova
1122825	MS-C-B	28-Jul-14	Total Suspended Solids	<2	mg/L	Exova
1122825	MS-C-B	28-Jul-14	Oil & Grease - Total	<1	mg/L	Exova
1122825	MS-C-B	28-Jul-14	N-NH3 (Ammonia)	0.04	mg/L	Exova
1117815	MS-C-C	7-Jul-14	pH	7.97	pH units	Exova
1117815	MS-C-C	7-Jul-14	Total Suspended Solids	<2	mg/L	Exova
1117815	MS-C-C	7-Jul-14	Oil & Grease - Total	<1	mg/L	Exova
1119777	MS-C-C	14-Jul-14	Conductivity	704	uS/cm	Exova
1119777	MS-C-C	14-Jul-14	N-NO3	15.8	mg/L	Exova
1119777	MS-C-C	14-Jul-14	pH	7.96	pH units	Exova
1119777	MS-C-C	14-Jul-14	Total Suspended Solids	<2	mg/L	Exova
1119777	MS-C-C	14-Jul-14	Oil & Grease - Total	<1	mg/L	Exova
1119777	MS-C-C	14-Jul-14	N-NH3 (Ammonia)	0.17	mg/L	Exova
1121346	MS-C-C	21-Jul-14	Conductivity	666	uS/cm	Exova
1121346	MS-C-C	21-Jul-14	N-NO3	14.60	mg/L	Exova
1121346	MS-C-C	21-Jul-14	pH	8.06	pH units	Exova
1121346	MS-C-C	21-Jul-14	Total Suspended Solids	<2	mg/L	Exova
1121346	MS-C-C	21-Jul-14	Oil & Grease - Total	<1	mg/L	Exova
1121346	MS-C-C	21-Jul-14	N-NH3 (Ammonia)	0.04	mg/L	Exova
1122829	MS-C-C	28-Jul-14	Conductivity	639	uS/cm	Exova
1122829	MS-C-C	28-Jul-14	N-NO3	7.98	mg/L	Exova

TABLE 2.8

BAFFINLAND IRON MINES CORPORATION
MARY RIVER PROJECT

2014 ANNUAL REPORT TO THE NUNAVUT WATER BOARD
WATER QUALITY RESULTS FOR WATER LICENCE MONITORING LOCATIONS

Sample Number	Sample ID	Date Sampled	Parameter Name	Result	Unit	Lab
1122829	MS-C-C	28-Jul-14	pH	8.14	pH units	Exova
1122829	MS-C-C	28-Jul-14	Total Suspended Solids	<2	mg/L	Exova
1122829	MS-C-C	28-Jul-14	Oil & Grease - Total	2	mg/L	Exova
1122829	MS-C-C	28-Jul-14	N-NH3 (Ammonia)	0.04	mg/L	Exova
1117814	MS-C-D	7-Jul-14	pH	8.61	pH units	Exova
1117814	MS-C-D	7-Jul-14	Total Suspended Solids	<2	mg/L	Exova
1117814	MS-C-D	7-Jul-14	Oil & Grease - Total	<1	mg/L	Exova
1119776	MS-C-D	14-Jul-14	Conductivity	465	uS/cm	Exova
1119776	MS-C-D	14-Jul-14	N-NO3	6.99	mg/L	Exova
1119776	MS-C-D	14-Jul-14	pH	8.56	pH units	Exova
1119776	MS-C-D	14-Jul-14	Total Suspended Solids	<2	mg/L	Exova
1119776	MS-C-D	14-Jul-14	Oil & Grease - Total	<1	mg/L	Exova
1119776	MS-C-D	14-Jul-14	N-NH3 (Ammonia)	0.10	mg/L	Exova
1121345	MS-C-D	21-Jul-14	Conductivity	625	uS/cm	Exova
1121345	MS-C-D	21-Jul-14	N-NO3	13.90	mg/L	Exova
1121345	MS-C-D	21-Jul-14	pH	8.24	pH units	Exova
1121345	MS-C-D	21-Jul-14	Total Suspended Solids	<2	mg/L	Exova
1121345	MS-C-D	21-Jul-14	Oil & Grease - Total	<1	mg/L	Exova
1121345	MS-C-D	21-Jul-14	N-NH3 (Ammonia)	0.06	mg/L	Exova
1122828	MS-C-D	28-Jul-14	Conductivity	620	uS/cm	Exova
1122828	MS-C-D	28-Jul-14	N-NO3	9.95	mg/L	Exova
1122828	MS-C-D	28-Jul-14	pH	8.35	pH units	Exova
1122828	MS-C-D	28-Jul-14	Total Suspended Solids	<2	mg/L	Exova
1122828	MS-C-D	28-Jul-14	Oil & Grease - Total	<1	mg/L	Exova
1122828	MS-C-D	28-Jul-14	N-NH3 (Ammonia)	0.07	mg/L	Exova
1117813	MS-C-E	7-Jul-14	pH	8.2	pH units	Exova
1117813	MS-C-E	7-Jul-14	Total Suspended Solids	5	mg/L	Exova
1117813	MS-C-E	7-Jul-14	Oil & Grease - Total	<1	mg/L	Exova
1119775	MS-C-E	14-Jul-14	Conductivity	341	uS/cm	Exova
1119775	MS-C-E	14-Jul-14	N-NO3	2.27	mg/L	Exova
1119775	MS-C-E	14-Jul-14	pH	8.18	pH units	Exova
1119775	MS-C-E	14-Jul-14	Total Suspended Solids	<2	mg/L	Exova
1119775	MS-C-E	14-Jul-14	Oil & Grease - Total	<1	mg/L	Exova
1119775	MS-C-E	14-Jul-14	N-NH3 (Ammonia)	0.14	mg/L	Exova
1121344	MS-C-E	21-Jul-14	Conductivity	304	uS/cm	Exova
1121344	MS-C-E	21-Jul-14	N-NO3	2.46	mg/L	Exova
1121344	MS-C-E	21-Jul-14	pH	8.17	pH units	Exova
1121344	MS-C-E	21-Jul-14	Total Suspended Solids	<2	mg/L	Exova
1121344	MS-C-E	21-Jul-14	Oil & Grease - Total	<1	mg/L	Exova
1121344	MS-C-E	21-Jul-14	N-NH3 (Ammonia)	0.04	mg/L	Exova
1122827	MS-C-E	28-Jul-14	Conductivity	361	uS/cm	Exova
1122827	MS-C-E	28-Jul-14	N-NO3	2.37	mg/L	Exova
1122827	MS-C-E	28-Jul-14	pH	8.18	pH units	Exova
1122827	MS-C-E	28-Jul-14	Total Suspended Solids	<2	mg/L	Exova
1122827	MS-C-E	28-Jul-14	Oil & Grease - Total	<1	mg/L	Exova
1122827	MS-C-E	28-Jul-14	N-NH3 (Ammonia)	0.11	mg/L	Exova
1117810	MS-C-F	7-Jul-14	pH	7.83	pH units	Exova
1117810	MS-C-F	7-Jul-14	Total Suspended Solids	<2	mg/L	Exova
1117810	MS-C-F	7-Jul-14	Oil & Grease - Total	<1	mg/L	Exova
1119772	MS-C-F	14-Jul-14	Conductivity	136	uS/cm	Exova
1119772	MS-C-F	14-Jul-14	N-NO3	0.17	mg/L	Exova
1119772	MS-C-F	14-Jul-14	pH	7.9	pH units	Exova
1119772	MS-C-F	14-Jul-14	Total Suspended Solids	<2	mg/L	Exova
1119772	MS-C-F	14-Jul-14	Oil & Grease - Total	<1	mg/L	Exova
1119772	MS-C-F	14-Jul-14	N-NH3 (Ammonia)	0.22	mg/L	Exova
1121341	MS-C-F	21-Jul-14	Conductivity	167	uS/cm	Exova
1121341	MS-C-F	21-Jul-14	N-NO3	0.43	mg/L	Exova
1121341	MS-C-F	21-Jul-14	pH	7.85	pH units	Exova
1121341	MS-C-F	21-Jul-14	Total Suspended Solids	2	mg/L	Exova
1121341	MS-C-F	21-Jul-14	Oil & Grease - Total	<1	mg/L	Exova
1121341	MS-C-F	21-Jul-14	N-NH3 (Ammonia)	0.13	mg/L	Exova
1122824	MS-C-F	28-Jul-14	Conductivity	176	uS/cm	Exova
1122824	MS-C-F	28-Jul-14	N-NO3	0.36	mg/L	Exova
1122824	MS-C-F	28-Jul-14	pH	7.99	pH units	Exova
1122824	MS-C-F	28-Jul-14	Total Suspended Solids	2	mg/L	Exova
1122824	MS-C-F	28-Jul-14	Oil & Grease - Total	<1	mg/L	Exova
1122824	MS-C-F	28-Jul-14	N-NH3 (Ammonia)	0.03	mg/L	Exova
Note: Acute lethality to Rainbow trout, <i>Oncorhynchus mykiss</i> (as per Environment Canada's Environmental Protection Series Method EPS/1/RM/13)						
Acute lethality to <i>Daphnia magna</i> (as per Environment Canada's Environmental Protection Series Method EPS/1/RM/14)						
Area of Non-Compliance :						
Sample Station MP-C-A (Surface discharge downstream of construction area at Mine Port) showed an exceedance for total suspended solids on July 7, 2014 (154 mg/L). Subsequent sampling of this location on July 14, 2014 resulted in a TSS value of 5 mg/L. Construction has						
Sample Station MS-MRY-13A (Non-Hazardous Waste Landfill - Downstream surface water drainage) showed a non-compliance for total suspended solids on July 14, 2014 (24 mg/L). Subsequent sampling of this location on July 21, 2014 resulted in a TSS value of <2 mg/L.						
MILNE PORT						
1124259	MP-01	5-Aug-14	Biochemical Oxygen Demand	<1	mg/L	Exova
1124261	MP-01	5-Aug-14	Faecal Coliforms	0	ct/100mL	Exova
1124259	MP-01	5-Aug-14	Total Kjeldahl Nitrogen	0.91	mg/L	Exova
1124259	MP-01	5-Aug-14	N-NH3 (Ammonia)	0.13	mg/L	Exova
1124259	MP-01	5-Aug-14	Oil & Grease - Total	<1	mg/L	Exova
1124259	MP-01	5-Aug-14	Total Suspended Solids	<2	mg/L	Exova
1124259	MP-01	5-Aug-14	pH	7.90	pH units	Exova
1126109	MP-01	12-Aug-14	Biochemical Oxygen Demand	<1	mg/L	Exova
1126111	MP-01	12-Aug-14	Faecal Coliforms	0	ct/100mL	Exova
1126109	MP-01	12-Aug-14	Total Kjeldahl Nitrogen	0.65	mg/L	Exova
1126109	MP-01	12-Aug-14	N-NH3 (Ammonia)	0.08	mg/L	Exova
1126109	MP-01	12-Aug-14	Oil & Grease - Total	<1	mg/L	Exova
1126109	MP-01	12-Aug-14	Total Suspended Solids	<2	mg/L	Exova
1126109	MP-01	12-Aug-14	pH	7.70	pH units	Exova
1128273	MP-01	20-Aug-14	Biochemical Oxygen Demand	4	mg/L	Exova
1128275	MP-01	20-Aug-14	Faecal Coliforms	0	ct/100mL	Exova
1128273	MP-01	20-Aug-14	Total Kjeldahl Nitrogen	1.75	mg/L	Exova
1128273	MP-01	20-Aug-14	N-NH3 (Ammonia)	0.24	mg/L	Exova
1128273	MP-01	20-Aug-14	Oil & Grease - Total	<1	mg/L	Exova
1128273	MP-01	20-Aug-14	Total Suspended Solids	<2	mg/L	Exova
1128273	MP-01	20-Aug-14	pH	7.91	pH units	Exova
1129497	MP-01	27-Aug-14	Biochemical Oxygen Demand	4	mg/L	Exova
1129502	MP-01	27-Aug-14	Faecal Coliforms	0	ct/100mL	Exova
1129497	MP-01	27-Aug-14	Total Kjeldahl Nitrogen	1.45	mg/L	Exova
1129497	MP-01	27-Aug-14	N-NH3 (Ammonia)	0.45	mg/L	Exova
1129497	MP-01	27-Aug-14	Oil & Grease - Total	<1	mg/L	Exova
1129497	MP-01	27-Aug-14	Total Suspended Solids	3	mg/L	Exova
1129497	MP-01	27-Aug-14	pH	7.79	pH units	Exova
1214828	MP-Q1-01	5-Aug-14	pH	8.27	pH units	Exova
1214828	MP-Q1-01	5-Aug-14	Total Suspended Solids	<2	mg/L	Exova
1214828	MP-Q1-01	5-Aug-14	Oil & Grease - Total	<1	mg/L	Exova
1126112	MP-Q1-01	11-Aug-14	Conductivity	280	uS/cm	Exova
1126112	MP-Q1-01	11-Aug-14	N-NO3	0.10	mg/L	Exova
1126112	MP-Q1-01	11-Aug-14	pH	8.01	pH units	Exova
1126112	MP-Q1-01	11-Aug-14	Total Suspended Solids	2	mg/L	Exova
1126112	MP-Q1-01	11-Aug-14	Oil & Grease - Total	<1	mg/L	Exova
1126112	MP-Q1-01	11-Aug-14	N-NH3 (Ammonia)	0.08	mg/L	Exova
1127596	MP-Q1-01	18-Aug-14	pH	8.02	pH units	Exova
1127596	MP-Q1-01	18-Aug-14	Total Suspended Solids	4	mg/L	Exova
1127596	MP-Q1-01	18-Aug-14	Oil & Grease - Total	1	mg/L	Exova
1129116	MP-Q1-01	25-Aug-14	Conductivity	320	uS/cm	Exova
1129116	MP-Q1-01	25-Aug-14	N-NO3	0.11	mg/L	Exova
1129116	MP-Q1-01	25-Aug-14	pH	8.10	pH units	Exova
1129116	MP-Q1-01	25-Aug-14	Total Suspended Solids	2	mg/L	Exova
1129116	MP-Q1-01	25-Aug-14	Oil & Grease - Total	<1	mg/L	Exova
1129116	MP-Q1-01	25-Aug-14	N-NH3 (Ammonia)	0.04	mg/L	Exova
1124829	MP-Q1-02	5-Aug-14	pH	8.17	pH units	Exova
1124829	MP-Q1-02	5-Aug-14	Total Suspended Solids	2	mg/L	Exova
1124829	MP-Q1-02	5-Aug-14	Oil & Grease - Total	<1	mg/L	Exova
1126113	MP-Q1-02	11-Aug-14	Conductivity	663	uS/cm	Exova
1126113	MP-Q1-02	11-Aug-14	N-NO3	15.7	mg/L	Exova
1126113	MP-Q1-02	11-Aug-14	pH	8.04	pH units	Exova
1126113	MP-Q1-02	11-Aug-14	Total Suspended Solids	<2	mg/L	Exova
1126113	MP-Q1-02	11-Aug-14	Oil & Grease - Total	<1	mg/L	Exova
1126113	MP-Q1-02	11-Aug-14	N-NH3 (Ammonia)	5.50	mg/L	Exova

TABLE 2.8

BAFFINLAND IRON MINES CORPORATION
MARY RIVER PROJECT

2014 ANNUAL REPORT TO THE NUNAVUT WATER BOARD
WATER QUALITY RESULTS FOR WATER LICENCE MONITORING LOCATIONS

Sample Number	Sample ID	Date Sampled	Parameter Name	Result	Unit	Lab
1127597	MP-Q1-02	18-Aug-14	pH	8.01	pH units	Exova
1127597	MP-Q1-02	18-Aug-14	Total Suspended Solids	<2	mg/L	Exova
1127597	MP-Q1-02	18-Aug-14	Oil & Grease - Total	2	mg/L	Exova
LH14-041-08	MP-Q1-02	18-Aug-14	Toxicity	non-lethal*	mg/L	Exova
1129117	MP-Q1-02	25-Aug-14	Conductivity	608	uS/cm	Exova
1129117	MP-Q1-02	25-Aug-14	N-NO3	16.3	mg/L	Exova
1129117	MP-Q1-02	25-Aug-14	pH	8.07	pH units	Exova
1129117	MP-Q1-02	25-Aug-14	Total Suspended Solids	4	mg/L	Exova
1129117	MP-Q1-02	25-Aug-14	Oil & Grease - Total	<1	mg/L	Exova
1129117	MP-Q1-02	25-Aug-14	N-NH3 (Ammonia)	3.03	mg/L	Exova
1124830	MP-C-B	5-Aug-14	pH	8.43	pH units	Exova
1124830	MP-C-B	5-Aug-14	Total Suspended Solids	<2	mg/L	Exova
1124830	MP-C-B	5-Aug-14	Oil & Grease - Total	<1	mg/L	Exova
1126115	MP-C-B	11-Aug-14	Conductivity	468	uS/cm	Exova
1126115	MP-C-B	11-Aug-14	N-NO3	1.37	mg/L	Exova
1126115	MP-C-B	11-Aug-14	pH	8.27	pH units	Exova
1126115	MP-C-B	11-Aug-14	Total Suspended Solids	10	mg/L	Exova
1126115	MP-C-B	11-Aug-14	Oil & Grease - Total	<1	mg/L	Exova
1126115	MP-C-B	11-Aug-14	N-NH3 (Ammonia)	0.20	mg/L	Exova
LH14-041-06	MP-C-B	11-Aug-14	Toxicity	non-lethal*	mg/L	Exova
1127598	MP-C-B	18-Aug-14	pH	8.28	pH units	Exova
1127598	MP-C-B	18-Aug-14	Total Suspended Solids	<2	mg/L	Exova
1127598	MP-C-B	18-Aug-14	Oil & Grease - Total	2	mg/L	Exova
1129118	MP-C-B	25-Aug-14	Conductivity	466	uS/cm	Exova
1129118	MP-C-B	25-Aug-14	N-NO3	1.10	mg/L	Exova
1129118	MP-C-B	25-Aug-14	pH	8.32	pH units	Exova
1129118	MP-C-B	25-Aug-14	Total Suspended Solids	<2	mg/L	Exova
1129118	MP-C-B	25-Aug-14	Oil & Grease - Total	<1	mg/L	Exova
1129118	MP-C-B	25-Aug-14	N-NH3 (Ammonia)	0.13	mg/L	Exova
1124831	MP-C-B01	5-Aug-14	pH	8.43	pH units	Exova
1124831	MP-C-B01	5-Aug-14	Total Suspended Solids	<2	mg/L	Exova
1124831	MP-C-B01	5-Aug-14	Oil & Grease - Total	<1	mg/L	Exova
1126116	MP-C-B01	11-Aug-14	Conductivity	460	uS/cm	Exova
1126116	MP-C-B01	11-Aug-14	N-NO3	1.78	mg/L	Exova
1126116	MP-C-B01	11-Aug-14	pH	8.29	pH units	Exova
1126116	MP-C-B01	11-Aug-14	Total Suspended Solids	8	mg/L	Exova
1126116	MP-C-B01	11-Aug-14	Oil & Grease - Total	<1	mg/L	Exova
1126116	MP-C-B01	11-Aug-14	N-NH3 (Ammonia)	0.23	mg/L	Exova
1127599	MP-C-B01	18-Aug-14	pH	8.31	pH units	Exova
1127599	MP-C-B01	18-Aug-14	Total Suspended Solids	<2	mg/L	Exova
1127599	MP-C-B01	18-Aug-14	Oil & Grease - Total	1	mg/L	Exova
1129119	MP-C-B01	25-Aug-14	Conductivity	457	uS/cm	Exova
1129119	MP-C-B01	25-Aug-14	N-NO3	1.41	mg/L	Exova
1129119	MP-C-B01	25-Aug-14	pH	8.32	pH units	Exova
1129119	MP-C-B01	25-Aug-14	Total Suspended Solids	<2	mg/L	Exova
1129119	MP-C-B01	25-Aug-14	Oil & Grease - Total	<1	mg/L	Exova
1129119	MP-C-B01	25-Aug-14	N-NH3 (Ammonia)	0.11	mg/L	Exova
1124832	MP-C-H	5-Aug-14	pH	8.39	pH units	Exova
1124832	MP-C-H	5-Aug-14	Total Suspended Solids	<2	mg/L	Exova
1124832	MP-C-H	5-Aug-14	Oil & Grease - Total	<1	mg/L	Exova
1126114	MP-C-H	11-Aug-14	Conductivity	302	uS/cm	Exova
1126114	MP-C-H	11-Aug-14	N-NO3	0.50	mg/L	Exova
1126114	MP-C-H	11-Aug-14	pH	8.27	pH units	Exova
1126114	MP-C-H	11-Aug-14	Total Suspended Solids	<2	mg/L	Exova
1126114	MP-C-H	11-Aug-14	Oil & Grease - Total	<1	mg/L	Exova
1126114	MP-C-H	11-Aug-14	N-NH3 (Ammonia)	0.10	mg/L	Exova
1127600	MP-C-H	18-Aug-14	pH	8.25	pH units	Exova
1127600	MP-C-H	18-Aug-14	Total Suspended Solids	<2	mg/L	Exova
1127600	MP-C-H	18-Aug-14	Oil & Grease - Total	1	mg/L	Exova
1129120	MP-C-H	25-Aug-14	Conductivity	337	uS/cm	Exova
1129120	MP-C-H	25-Aug-14	N-NO3	0.16	mg/L	Exova
1129120	MP-C-H	25-Aug-14	pH	8.30	pH units	Exova
1129120	MP-C-H	25-Aug-14	Total Suspended Solids	<2	mg/L	Exova
1129120	MP-C-H	25-Aug-14	Oil & Grease - Total	<1	mg/L	Exova
1129120	MP-C-H	25-Aug-14	N-NH3 (Ammonia)	0.10	mg/L	Exova
MARY RIVER MINE SITE						
1124255	MS-01	5-Aug-14	Biochemical Oxygen Demand	<1	mg/L	Exova
1124257	MS-01	5-Aug-14	Faecal Coliforms	0	ct/100mL	Exova
1124255	MS-01	5-Aug-14	Total Kjeldahl Nitrogen	0.75	mg/L	Exova
1124255	MS-01	5-Aug-14	N-NH3 (Ammonia)	0.37	mg/L	Exova
1124255	MS-01	5-Aug-14	Oil & Grease - Total	<1	mg/L	Exova
1124255	MS-01	5-Aug-14	Total Phosphorus	0.27	mg/L	Exova
1124255	MS-01	5-Aug-14	Total Suspended Solids	<2	mg/L	Exova
1124255	MS-01	5-Aug-14	pH	7.50	pH units	Exova
1126104	MS-01	12-Aug-14	Biochemical Oxygen Demand	2	mg/L	Exova
1126106	MS-01	12-Aug-14	Faecal Coliforms	9300	ct/100mL	Exova
1126104	MS-01	12-Aug-14	Total Kjeldahl Nitrogen	0.27	mg/L	Exova
1126104	MS-01	12-Aug-14	N-NH3 (Ammonia)	0.13	mg/L	Exova
1126104	MS-01	12-Aug-14	Oil & Grease - Total	<1	mg/L	Exova
1126104	MS-01	12-Aug-14	Total Phosphorus	0.53	mg/L	Exova
1126104	MS-01	12-Aug-14	Total Suspended Solids	<2	mg/L	Exova
1126104	MS-01	12-Aug-14	pH	7.69	pH units	Exova
1127593	MS-01	19-Aug-14	Biochemical Oxygen Demand	<1	mg/L	Exova
1127591	MS-01	19-Aug-14	Faecal Coliforms	0	ct/100mL	Exova
1127593	MS-01	19-Aug-14	Total Kjeldahl Nitrogen	0.30	mg/L	Exova
1127593	MS-01	19-Aug-14	N-NH3 (Ammonia)	0.21	mg/L	Exova
1127593	MS-01	19-Aug-14	Oil & Grease - Total	<1	mg/L	Exova
1127593	MS-01	19-Aug-14	Total Phosphorus	0.57	mg/L	Exova
1127593	MS-01	19-Aug-14	Total Suspended Solids	3	mg/L	Exova
1127593	MS-01	19-Aug-14	pH	7.42	pH units	Exova
1129113	MS-01	26-Aug-14	Biochemical Oxygen Demand	<1	mg/L	Exova
1129115	MS-01	26-Aug-14	Faecal Coliforms	68	ct/100mL	Exova
1129113	MS-01	26-Aug-14	Total Kjeldahl Nitrogen	<0.10	mg/L	Exova
1129113	MS-01	26-Aug-14	N-NH3 (Ammonia)	0.23	mg/L	Exova
1129113	MS-01	26-Aug-14	Oil & Grease - Total	<1	mg/L	Exova
1129113	MS-01	26-Aug-14	Total Phosphorus	0.79	mg/L	Exova
1129113	MS-01	26-Aug-14	Total Suspended Solids	<2	mg/L	Exova
1129113	MS-01	26-Aug-14	pH	7.69	pH units	Exova
1129111	MS-03	25-Aug-14	Benzene	<0.5	ug/L	Exova
1129111	MS-03	25-Aug-14	Ethylbenzene	<0.5	ug/L	Exova
1129111	MS-03	25-Aug-14	Toluene	<0.5	ug/L	Exova
1129111	MS-03	25-Aug-14	Total Lead	0.001	mg/L	Exova
1129111	MS-03	25-Aug-14	Oil & Grease - Total	<1	mg/L	Exova
1126863	MS-MRY-04b	14-Aug-14	Biochemical Oxygen Demand	4	mg/L	Exova
1126865	MS-MRY-04b	14-Aug-14	Faecal Coliforms	0	ct/100mL	Exova
1126863	MS-MRY-04b	14-Aug-14	Total Kjeldahl Nitrogen	1.70	mg/L	Exova
1126863	MS-MRY-04b	14-Aug-14	N-NH3 (Ammonia)	0.15	mg/L	Exova
1126863	MS-MRY-04b	14-Aug-14	Oil & Grease - Total	<1	mg/L	Exova
1126863	MS-MRY-04b	14-Aug-14	Total Phosphorus	0.15	mg/L	Exova
1126863	MS-MRY-04b	14-Aug-14	Total Suspended Solids	25	mg/L	Exova
1126863	MS-MRY-04b	14-Aug-14	pH	7.22	pH units	Exova
1126864	MS-MRY-04b	14-Aug-14	Biochemical Oxygen Demand	6	mg/L	Exova
1126866	MS-MRY-04b	14-Aug-14	Faecal Coliforms	0	ct/100mL	Exova
1126864	MS-MRY-04b	14-Aug-14	Total Kjeldahl Nitrogen	1.61	mg/L	Exova
1126864	MS-MRY-04b	14-Aug-14	N-NH3 (Ammonia)	0.16	mg/L	Exova
1126864	MS-MRY-04b	14-Aug-14	Oil & Grease - Total	<1	mg/L	Exova
1126864	MS-MRY-04b	14-Aug-14	Total Phosphorus	0.16	mg/L	Exova
1126864	MS-MRY-04b	14-Aug-14	Total Suspended Solids	24	mg/L	Exova
1126864	MS-MRY-04b	14-Aug-14	pH	7.31	pH units	Exova
1126740	MS-MRY-11-TP1	13-Aug-14	pH	8.01	pH units	Exova
1126744	MS-MRY-11-TP1	13-Aug-14	Total Arsenic	0.2	ug/L	Exova
1126744	MS-MRY-11-TP1	13-Aug-14	Total Copper	1.8	ug/L	Exova
1126744	MS-MRY-11-TP1	13-Aug-14	Total Lead	0.54	ug/L	Exova
1126744	MS-MRY-11-TP1	13-Aug-14	Total Nickel	2.2	ug/L	Exova
1126744	MS-MRY-11-TP1	13-Aug-14	Total Zinc	<3	ug/L	Exova
1126740	MS-MRY-11-TP1	13-Aug-14	Total Suspended Solids	<2	mg/L	Exova
1126740	MS-MRY-11-TP1	13-Aug-14	Oil & Grease - Total	<1	mg/L	Exova

TABLE 2.8

BAFFINLAND IRON MINES CORPORATION
MARY RIVER PROJECT2014 ANNUAL REPORT TO THE NUNAVUT WATER BOARD
WATER QUALITY RESULTS FOR WATER LICENCE MONITORING LOCATIONS

Sample Number	Sample ID	Date Sampled	Parameter Name	Result	Unit	Lab
1124844	MS-MRY-13A	5-Aug-14	pH	8.10	pH units	Exova
1124848	MS-MRY-13A	5-Aug-14	Total Arsenic	0.1	ug/L	Exova
1124848	MS-MRY-13A	5-Aug-14	Total Copper	1.1	ug/L	Exova
1124848	MS-MRY-13A	5-Aug-14	Total Lead	<0.05	ug/L	Exova
1124848	MS-MRY-13A	5-Aug-14	Total Nickel	8.5	ug/L	Exova
1124848	MS-MRY-13A	5-Aug-14	Total Zinc	<3	ug/L	Exova
1124844	MS-MRY-13A	5-Aug-14	Total Suspended Solids	<2	mg/L	Exova
1124844	MS-MRY-13A	5-Aug-14	Oil & Grease - Total	<1	mg/L	Exova
1126735	MS-MRY-13A	12-Aug-14	pH	8.04	pH units	Exova
1126737	MS-MRY-13A	12-Aug-14	Total Arsenic	0.1	ug/L	Exova
1126737	MS-MRY-13A	12-Aug-14	Total Copper	1.6	ug/L	Exova
1126737	MS-MRY-13A	12-Aug-14	Total Lead	0.05	ug/L	Exova
1126737	MS-MRY-13A	12-Aug-14	Total Nickel	10.0	ug/L	Exova
1126737	MS-MRY-13A	12-Aug-14	Total Zinc	<3	ug/L	Exova
1126735	MS-MRY-13A	12-Aug-14	Total Suspended Solids	<2	mg/L	Exova
1126735	MS-MRY-13A	12-Aug-14	Oil & Grease - Total	1	mg/L	Exova
1127629	MS-MRY-13A	18-Aug-14	pH	8.05	pH units	Exova
1126731	MS-MRY-13A	18-Aug-14	Total Arsenic	<0.1	ug/L	Exova
1126731	MS-MRY-13A	18-Aug-14	Total Copper	1.6	ug/L	Exova
1126731	MS-MRY-13A	18-Aug-14	Total Lead	0.06	ug/L	Exova
1126731	MS-MRY-13A	18-Aug-14	Total Nickel	10.2	ug/L	Exova
1126731	MS-MRY-13A	18-Aug-14	Total Zinc	<3	ug/L	Exova
1127629	MS-MRY-13A	18-Aug-14	Total Suspended Solids	2	mg/L	Exova
1127629	MS-MRY-13A	18-Aug-14	Oil & Grease - Total	<1	mg/L	Exova
1129709	MS-MRY-13A	27-Aug-14	pH	8.20	pH units	Exova
1129712	MS-MRY-13A	27-Aug-14	Total Arsenic	0.2	ug/L	Exova
1129712	MS-MRY-13A	27-Aug-14	Total Copper	1.8	ug/L	Exova
1129712	MS-MRY-13A	27-Aug-14	Total Lead	0.12	ug/L	Exova
1129712	MS-MRY-13A	27-Aug-14	Total Nickel	11.0	ug/L	Exova
1129712	MS-MRY-13A	27-Aug-14	Total Zinc	4	ug/L	Exova
1129709	MS-MRY-13A	27-Aug-14	Total Suspended Solids	<2	mg/L	Exova
1129709	MS-MRY-13A	27-Aug-14	Oil & Grease - Total	1	mg/L	Exova
1124845	MS-MRY-13B	5-Aug-14	pH	8.25	pH units	Exova
1124849	MS-MRY-13B	5-Aug-14	Total Arsenic	<0.1	ug/L	Exova
1124849	MS-MRY-13B	5-Aug-14	Total Copper	1.2	ug/L	Exova
1124849	MS-MRY-13B	5-Aug-14	Total Lead	<0.05	ug/L	Exova
1124849	MS-MRY-13B	5-Aug-14	Total Nickel	6.4	ug/L	Exova
1124849	MS-MRY-13B	5-Aug-14	Total Zinc	<3	ug/L	Exova
1124845	MS-MRY-13B	5-Aug-14	Total Suspended Solids	<2	mg/L	Exova
1124845	MS-MRY-13B	5-Aug-14	Oil & Grease - Total	2	mg/L	Exova
1126736	MS-MRY-13B	12-Aug-14	pH	8.04	pH units	Exova
1126738	MS-MRY-13B	12-Aug-14	Total Arsenic	<0.01	ug/L	Exova
1126738	MS-MRY-13B	12-Aug-14	Total Copper	1.6	ug/L	Exova
1126738	MS-MRY-13B	12-Aug-14	Total Lead	<0.05	ug/L	Exova
1126738	MS-MRY-13B	12-Aug-14	Total Nickel	7.1	ug/L	Exova
1126738	MS-MRY-13B	12-Aug-14	Total Zinc	<3	ug/L	Exova
1126736	MS-MRY-13B	12-Aug-14	Total Suspended Solids	<2	mg/L	Exova
1126736	MS-MRY-13B	12-Aug-14	Oil & Grease - Total	1	mg/L	Exova
1127630	MS-MRY-13B	18-Aug-14	pH	8.11	pH units	Exova
1126732	MS-MRY-13B	18-Aug-14	Total Arsenic	<0.1	ug/L	Exova
1126732	MS-MRY-13B	18-Aug-14	Total Copper	1.5	ug/L	Exova
1126732	MS-MRY-13B	18-Aug-14	Total Lead	<0.05	ug/L	Exova
1126732	MS-MRY-13B	18-Aug-14	Total Nickel	7.4	ug/L	Exova
1126732	MS-MRY-13B	18-Aug-14	Total Zinc	<3	ug/L	Exova
1127630	MS-MRY-13B	18-Aug-14	Total Suspended Solids	<2	mg/L	Exova
1127630	MS-MRY-13B	18-Aug-14	Oil & Grease - Total	<1	mg/L	Exova
1129710	MS-MRY-13B	27-Aug-14	pH	8.24	pH units	Exova
1129713	MS-MRY-13B	27-Aug-14	Total Arsenic	<0.01	ug/L	Exova
1129713	MS-MRY-13B	27-Aug-14	Total Copper	1.3	ug/L	Exova
1129713	MS-MRY-13B	27-Aug-14	Total Lead	<0.05	ug/L	Exova
1129713	MS-MRY-13B	27-Aug-14	Total Nickel	6.5	ug/L	Exova
1129713	MS-MRY-13B	27-Aug-14	Total Zinc	<3	ug/L	Exova
1129710	MS-MRY-13B	27-Aug-14	Total Suspended Solids	<2	mg/L	Exova
1129710	MS-MRY-13B	27-Aug-14	Oil & Grease - Total	<1	mg/L	Exova
1124841	MQ-C-A	5-Aug-14	Conductivity	298	uS/cm	Exova
1124841	MQ-C-A	5-Aug-14	N-NO3	<0.10	mg/L	Exova
1124841	MQ-C-A	5-Aug-14	pH	8.36	pH units	Exova
1124841	MQ-C-A	5-Aug-14	Total Suspended Solids	<2	mg/L	Exova
1124841	MQ-C-A	5-Aug-14	Oil & Grease - Total	<1	mg/L	Exova
1124841	MQ-C-A	5-Aug-14	N-NH3 (Ammonia)	0.10	mg/L	Exova
1126312	MQ-C-A	12-Aug-14	Conductivity	268	uS/cm	Exova
1126312	MQ-C-A	12-Aug-14	N-NO3	<0.10	mg/L	Exova
1126312	MQ-C-A	12-Aug-14	pH	7.58	pH units	Exova
1126312	MQ-C-A	12-Aug-14	Total Suspended Solids	<2	mg/L	Exova
1126312	MQ-C-A	12-Aug-14	Oil & Grease - Total	2	mg/L	Exova
1126312	MQ-C-A	12-Aug-14	N-NH3 (Ammonia)	0.15	mg/L	Exova
1127609	MQ-C-A	18-Aug-14	Conductivity	285	uS/cm	Exova
1127609	MQ-C-A	18-Aug-14	N-NO3	<0.10	mg/L	Exova
1127609	MQ-C-A	18-Aug-14	pH	8.17	pH units	Exova
1127609	MQ-C-A	18-Aug-14	Total Suspended Solids	<2	mg/L	Exova
1127609	MQ-C-A	18-Aug-14	Oil & Grease - Total	<1	mg/L	Exova
1127609	MQ-C-A	18-Aug-14	N-NH3 (Ammonia)	0.10	mg/L	Exova
1129706	MQ-C-A	27-Aug-14	Conductivity	291	uS/cm	Exova
1129706	MQ-C-A	27-Aug-14	N-NO3	<0.10	mg/L	Exova
1129706	MQ-C-A	27-Aug-14	pH	8.31	pH units	Exova
1129706	MQ-C-A	27-Aug-14	Total Suspended Solids	<2	mg/L	Exova
1129706	MQ-C-A	27-Aug-14	Oil & Grease - Total	<1	mg/L	Exova
1129706	MQ-C-A	27-Aug-14	N-NH3 (Ammonia)	0.10	mg/L	Exova
1127612	MQ-C-A-01	18-Aug-14	Conductivity	284	uS/cm	Exova
1127612	MQ-C-A-01	18-Aug-14	N-NO3	<0.10	mg/L	Exova
1127612	MQ-C-A-01	18-Aug-14	pH	8.12	pH units	Exova
1127612	MQ-C-A-01	18-Aug-14	Total Suspended Solids	<2	mg/L	Exova
1127612	MQ-C-A-01	18-Aug-14	Oil & Grease - Total	<1	mg/L	Exova
1127612	MQ-C-A-01	18-Aug-14	N-NH3 (Ammonia)	0.16	mg/L	Exova
1124839	MQ-C-B	5-Aug-14	Conductivity	487	uS/cm	Exova
1124839	MQ-C-B	5-Aug-14	N-NO3	1.80	mg/L	Exova
1124839	MQ-C-B	5-Aug-14	pH	8.30	pH units	Exova
1124839	MQ-C-B	5-Aug-14	Total Suspended Solids	<2	mg/L	Exova
1124839	MQ-C-B	5-Aug-14	Oil & Grease - Total	<1	mg/L	Exova
1124839	MQ-C-B	5-Aug-14	N-NH3 (Ammonia)	0.53	mg/L	Exova
1126313	MQ-C-B	12-Aug-14	Conductivity	501	uS/cm	Exova
1126313	MQ-C-B	12-Aug-14	N-NO3	2.12	mg/L	Exova
1126313	MQ-C-B	12-Aug-14	pH	7.53	pH units	Exova
1126313	MQ-C-B	12-Aug-14	Total Suspended Solids	<2	mg/L	Exova
1126313	MQ-C-B	12-Aug-14	Oil & Grease - Total	2	mg/L	Exova
1126313	MQ-C-B	12-Aug-14	N-NH3 (Ammonia)	0.65	mg/L	Exova
LH14-041-07	MQ-C-B	12-Aug-14	Toxicity	non-lethal*	mg/L	Exova
1127607	MQ-C-B	18-Aug-14	Conductivity	470	uS/cm	Exova
1127607	MQ-C-B	18-Aug-14	N-NO3	1.61	mg/L	Exova
1127607	MQ-C-B	18-Aug-14	pH	8.19	pH units	Exova
1127607	MQ-C-B	18-Aug-14	Total Suspended Solids	<2	mg/L	Exova
1127607	MQ-C-B	18-Aug-14	Oil & Grease - Total	<1	mg/L	Exova
1127607	MQ-C-B	18-Aug-14	N-NH3 (Ammonia)	0.40	mg/L	Exova
1129705	MQ-C-B	27-Aug-14	Conductivity	543	uS/cm	Exova
1129705	MQ-C-B	27-Aug-14	N-NO3	1.91	mg/L	Exova
1129705	MQ-C-B	27-Aug-14	pH	8.19	pH units	Exova
1129705	MQ-C-B	27-Aug-14	Total Suspended Solids	<2	mg/L	Exova
1129705	MQ-C-B	27-Aug-14	Oil & Grease - Total	<1	mg/L	Exova
1129705	MQ-C-B	27-Aug-14	N-NH3 (Ammonia)	0.60	mg/L	Exova
LH14-041-09	MQ-C-B	28-Aug-14	Toxicity	non-lethal*	mg/L	Exova
1124840	MQ-C-D	5-Aug-14	Conductivity	339	uS/cm	Exova
1124840	MQ-C-D	5-Aug-14	N-NO3	1.16	mg/L	Exova
1124840	MQ-C-D	5-Aug-14	pH	8.22	pH units	Exova
1124840	MQ-C-D	5-Aug-14	Total Suspended Solids	<2	mg/L	Exova
1124840	MQ-C-D	5-Aug-14	Oil & Grease - Total	<1	mg/L	Exova
1124840	MQ-C-D	5-Aug-14	N-NH3 (Ammonia)	0.37	mg/L	Exova

TABLE 2.8

BAFFINLAND IRON MINES CORPORATION
MARY RIVER PROJECT

2014 ANNUAL REPORT TO THE NUNAVUT WATER BOARD
WATER QUALITY RESULTS FOR WATER LICENCE MONITORING LOCATIONS

Sample Number	Sample ID	Date Sampled	Parameter Name	Result	Unit	Lab
1126311	MQ-C-D	12-Aug-14	Conductivity	382	uS/cm	Exova
1126311	MQ-C-D	12-Aug-14	N-NO3	1.39	mg/L	Exova
1126311	MQ-C-D	12-Aug-14	pH	7.56	pH units	Exova
1126311	MQ-C-D	12-Aug-14	Total Suspended Solids	<2	mg/L	Exova
1126311	MQ-C-D	12-Aug-14	Oil & Grease - Total	<1	mg/L	Exova
1126311	MQ-C-D	12-Aug-14	N-NH3 (Ammonia)	0.32	mg/L	Exova
1127608	MQ-C-D	18-Aug-14	Conductivity	402	uS/cm	Exova
1127608	MQ-C-D	18-Aug-14	N-NO3	1.45	mg/L	Exova
1127608	MQ-C-D	18-Aug-14	pH	8.15	pH units	Exova
1127608	MQ-C-D	18-Aug-14	Total Suspended Solids	<2	mg/L	Exova
1127608	MQ-C-D	18-Aug-14	Oil & Grease - Total	<1	mg/L	Exova
1127608	MQ-C-D	18-Aug-14	N-NH3 (Ammonia)	0.34	mg/L	Exova
1129707	MQ-C-D	27-Aug-14	Conductivity	409	uS/cm	Exova
1129707	MQ-C-D	27-Aug-14	N-NO3	1.38	mg/L	Exova
1129707	MQ-C-D	27-Aug-14	pH	8.22	pH units	Exova
1129707	MQ-C-D	27-Aug-14	Total Suspended Solids	<2	mg/L	Exova
1129707	MQ-C-D	27-Aug-14	Oil & Grease - Total	<1	mg/L	Exova
1129707	MQ-C-D	27-Aug-14	N-NH3 (Ammonia)	0.33	mg/L	Exova
1124834	MS-C-A	5-Aug-14	Conductivity	181	uS/cm	Exova
1124834	MS-C-A	5-Aug-14	N-NO3	0.32	mg/L	Exova
1124834	MS-C-A	5-Aug-14	pH	8.07	pH units	Exova
1124834	MS-C-A	5-Aug-14	Total Suspended Solids	<2	mg/L	Exova
1124834	MS-C-A	5-Aug-14	Oil & Grease - Total	2	mg/L	Exova
1124834	MS-C-A	5-Aug-14	N-NH3 (Ammonia)	0.05	mg/L	Exova
1126305	MS-C-A	12-Aug-14	Conductivity	153	uS/cm	Exova
1126305	MS-C-A	12-Aug-14	N-NO3	0.17	mg/L	Exova
1126305	MS-C-A	12-Aug-14	pH	7.36	pH units	Exova
1126305	MS-C-A	12-Aug-14	Total Suspended Solids	<2	mg/L	Exova
1126305	MS-C-A	12-Aug-14	Oil & Grease - Total	2	mg/L	Exova
1126305	MS-C-A	12-Aug-14	N-NH3 (Ammonia)	0.15	mg/L	Exova
1126310	MS-C-A-01	12-Aug-14	Conductivity	154	uS/cm	Exova
1126310	MS-C-A-01	12-Aug-14	N-NO3	0.17	mg/L	Exova
1126310	MS-C-A-01	12-Aug-14	pH	7.38	pH units	Exova
1126310	MS-C-A-01	12-Aug-14	Total Suspended Solids	<2	mg/L	Exova
1126310	MS-C-A-01	12-Aug-14	Oil & Grease - Total	<1	mg/L	Exova
1126310	MS-C-A-01	12-Aug-14	N-NH3 (Ammonia)	0.04	mg/L	Exova
1127603	MS-C-A	18-Aug-14	Conductivity	166	uS/cm	Exova
1127603	MS-C-A	18-Aug-14	N-NO3	0.18	mg/L	Exova
1127603	MS-C-A	18-Aug-14	pH	7.96	pH units	Exova
1127603	MS-C-A	18-Aug-14	Total Suspended Solids	<2	mg/L	Exova
1127603	MS-C-A	18-Aug-14	Oil & Grease - Total	<1	mg/L	Exova
1127603	MS-C-A	18-Aug-14	N-NH3 (Ammonia)	0.08	mg/L	Exova
1129687	MS-C-A	27-Aug-14	Conductivity	171	uS/cm	Exova
1129687	MS-C-A	27-Aug-14	N-NO3	19	mg/L	Exova
1129687	MS-C-A	27-Aug-14	pH	8.04	pH units	Exova
1129687	MS-C-A	27-Aug-14	Total Suspended Solids	<2	mg/L	Exova
1129687	MS-C-A	27-Aug-14	Oil & Grease - Total	<1	mg/L	Exova
1129687	MS-C-A	27-Aug-14	N-NH3 (Ammonia)	0.08	mg/L	Exova
1124833	MS-C-B	5-Aug-14	Conductivity	188	uS/cm	Exova
1124833	MS-C-B	5-Aug-14	N-NO3	0.43	mg/L	Exova
1124833	MS-C-B	5-Aug-14	pH	7.95	pH units	Exova
1124833	MS-C-B	5-Aug-14	Total Suspended Solids	<2	mg/L	Exova
1124833	MS-C-B	5-Aug-14	Oil & Grease - Total	3	mg/L	Exova
1124833	MS-C-B	5-Aug-14	N-NH3 (Ammonia)	0.10	mg/L	Exova
1126304	MS-C-B	12-Aug-14	Conductivity	155	uS/cm	Exova
1126304	MS-C-B	12-Aug-14	N-NO3	0.21	mg/L	Exova
1126304	MS-C-B	12-Aug-14	pH	7.36	pH units	Exova
1126304	MS-C-B	12-Aug-14	Total Suspended Solids	<2	mg/L	Exova
1126304	MS-C-B	12-Aug-14	Oil & Grease - Total	1	mg/L	Exova
1126304	MS-C-B	12-Aug-14	N-NH3 (Ammonia)	0.03	mg/L	Exova
1127602	MS-C-B	18-Aug-14	Conductivity	168	uS/cm	Exova
1127602	MS-C-B	18-Aug-14	N-NO3	0.21	mg/L	Exova
1127602	MS-C-B	18-Aug-14	pH	7.96	pH units	Exova
1127602	MS-C-B	18-Aug-14	Total Suspended Solids	<2	mg/L	Exova
1127602	MS-C-B	18-Aug-14	Oil & Grease - Total	<1	mg/L	Exova
1127602	MS-C-B	18-Aug-14	N-NH3 (Ammonia)	0.18	mg/L	Exova
1129688	MS-C-B	27-Aug-14	Conductivity	171	uS/cm	Exova
1129688	MS-C-B	27-Aug-14	N-NO3	0.21	mg/L	Exova
1129688	MS-C-B	27-Aug-14	pH	8.05	pH units	Exova
1129688	MS-C-B	27-Aug-14	Total Suspended Solids	<2	mg/L	Exova
1129688	MS-C-B	27-Aug-14	Oil & Grease - Total	<1	mg/L	Exova
1129688	MS-C-B	27-Aug-14	N-NH3 (Ammonia)	0.09	mg/L	Exova
1129695	MS-C-B-01	27-Aug-14	Conductivity	174	uS/cm	Exova
1129695	MS-C-B-01	27-Aug-14	N-NO3	0.20	mg/L	Exova
1129695	MS-C-B-01	27-Aug-14	pH	8.07	pH units	Exova
1129695	MS-C-B-01	27-Aug-14	Total Suspended Solids	<2	mg/L	Exova
1129695	MS-C-B-01	27-Aug-14	Oil & Grease - Total	<1	mg/L	Exova
1129695	MS-C-B-01	27-Aug-14	N-NH3 (Ammonia)	0.02	mg/L	Exova
1129701	MS-C-B-02	27-Aug-14	Conductivity	<5	uS/cm	Exova
1129701	MS-C-B-02	27-Aug-14	N-NO3	<0.10	mg/L	Exova
1129701	MS-C-B-02	27-Aug-14	pH	6.03	pH units	Exova
1129701	MS-C-B-02	27-Aug-14	Total Suspended Solids	<2	mg/L	Exova
1129701	MS-C-B-02	27-Aug-14	Oil & Grease - Total	<1	mg/L	Exova
1129701	MS-C-B-02	27-Aug-14	N-NH3 (Ammonia)	0.08	mg/L	Exova
1129702	MS-C-B-03	27-Aug-14	Conductivity	<5	uS/cm	Exova
1129702	MS-C-B-03	27-Aug-14	N-NO3	<0.10	mg/L	Exova
1129702	MS-C-B-03	27-Aug-14	pH	6.07	pH units	Exova
1129702	MS-C-B-03	27-Aug-14	Total Suspended Solids	<2	mg/L	Exova
1129702	MS-C-B-03	27-Aug-14	Oil & Grease - Total	<1	mg/L	Exova
1129702	MS-C-B-03	27-Aug-14	N-NH3 (Ammonia)	0.02	mg/L	Exova
1124838	MS-C-C	5-Aug-14	Conductivity	561	uS/cm	Exova
1124838	MS-C-C	5-Aug-14	N-NO3	7.17	mg/L	Exova
1124838	MS-C-C	5-Aug-14	pH	8.28	pH units	Exova
1124838	MS-C-C	5-Aug-14	Total Suspended Solids	<2	mg/L	Exova
1124838	MS-C-C	5-Aug-14	Oil & Grease - Total	1	mg/L	Exova
1124838	MS-C-C	5-Aug-14	N-NH3 (Ammonia)	0.10	mg/L	Exova
1126309	MS-C-C	12-Aug-14	Conductivity	599	uS/cm	Exova
1126309	MS-C-C	12-Aug-14	N-NO3	7.8	mg/L	Exova
1126309	MS-C-C	12-Aug-14	pH	7.51	pH units	Exova
1126309	MS-C-C	12-Aug-14	Total Suspended Solids	<2	mg/L	Exova
1126309	MS-C-C	12-Aug-14	Oil & Grease - Total	<1	mg/L	Exova
1126309	MS-C-C	12-Aug-14	N-NH3 (Ammonia)	0.13	mg/L	Exova
1127606	MS-C-C	18-Aug-14	Conductivity	616	uS/cm	Exova
1127606	MS-C-C	18-Aug-14	N-NO3	7.52	mg/L	Exova
1127606	MS-C-C	18-Aug-14	pH	8.09	pH units	Exova
1127606	MS-C-C	18-Aug-14	Total Suspended Solids	<2	mg/L	Exova
1127606	MS-C-C	18-Aug-14	Oil & Grease - Total	<1	mg/L	Exova
1127606	MS-C-C	18-Aug-14	N-NH3 (Ammonia)	0.15	mg/L	Exova
1127610	MS-C-C-03	18-Aug-14	Conductivity	<5	uS/cm	Exova
1127610	MS-C-C-03	18-Aug-14	N-NO3	<0.10	mg/L	Exova
1127610	MS-C-C-03	18-Aug-14	pH	5.95	pH units	Exova
1127610	MS-C-C-03	18-Aug-14	Total Suspended Solids	<2	mg/L	Exova
1127610	MS-C-C-03	18-Aug-14	Oil & Grease - Total	<1	mg/L	Exova
1127610	MS-C-C-03	18-Aug-14	N-NH3 (Ammonia)	0.03	mg/L	Exova
1129689	MS-C-C	27-Aug-14	Conductivity	694	uS/cm	Exova
1129689	MS-C-C	27-Aug-14	N-NO3	11.6	mg/L	Exova
1129689	MS-C-C	27-Aug-14	pH	8.16	pH units	Exova
1129689	MS-C-C	27-Aug-14	Total Suspended Solids	<2	mg/L	Exova
1129689	MS-C-C	27-Aug-14	Oil & Grease - Total	<1	mg/L	Exova
1129689	MS-C-C	27-Aug-14	N-NH3 (Ammonia)	0.09	mg/L	Exova
1124837	MS-C-D	5-Aug-14	Conductivity	575	uS/cm	Exova
1124837	MS-C-D	5-Aug-14	N-NO3	8.36	mg/L	Exova
1124837	MS-C-D	5-Aug-14	pH	8.40	pH units	Exova
1124837	MS-C-D	5-Aug-14	Total Suspended Solids	<2	mg/L	Exova
1124837	MS-C-D	5-Aug-14	Oil & Grease - Total	2	mg/L	Exova
1124837	MS-C-D	5-Aug-14	N-NH3 (Ammonia)	0.14	mg/L	Exova

TABLE 2.8

BAFFINLAND IRON MINES CORPORATION
MARY RIVER PROJECT2014 ANNUAL REPORT TO THE NUNAVUT WATER BOARD
WATER QUALITY RESULTS FOR WATER LICENCE MONITORING LOCATIONS

Sample Number	Sample ID	Date Sampled	Parameter Name	Result	Unit	Lab
1126308	MS-C-D	12-Aug-14	Conductivity	632	uS/cm	Exova
1126308	MS-C-D	12-Aug-14	N-NO3	11.2	mg/L	Exova
1126308	MS-C-D	12-Aug-14	pH	7.66	pH units	Exova
1126308	MS-C-D	12-Aug-14	Total Suspended Solids	<2	mg/L	Exova
1126308	MS-C-D	12-Aug-14	Oil & Grease - Total	<1	mg/L	Exova
1126308	MS-C-D	12-Aug-14	N-NH3 (Ammonia)	0.25	mg/L	Exova
1127605	MS-C-D	18-Aug-14	Conductivity	615	uS/cm	Exova
1127605	MS-C-D	18-Aug-14	N-NO3	9.17	mg/L	Exova
1127605	MS-C-D	18-Aug-14	pH	8.29	pH units	Exova
1127605	MS-C-D	18-Aug-14	Total Suspended Solids	<2	mg/L	Exova
1127605	MS-C-D	18-Aug-14	Oil & Grease - Total	<1	mg/L	Exova
1127605	MS-C-D	18-Aug-14	N-NH3 (Ammonia)	0.06	mg/L	Exova
1129690	MS-C-D	27-Aug-14	Conductivity	619	uS/cm	Exova
1129690	MS-C-D	27-Aug-14	N-NO3	9.39	mg/L	Exova
1129690	MS-C-D	27-Aug-14	pH	8.35	pH units	Exova
1129690	MS-C-D	27-Aug-14	Total Suspended Solids	<2	mg/L	Exova
1129690	MS-C-D	27-Aug-14	Oil & Grease - Total	2	mg/L	Exova
1129690	MS-C-D	27-Aug-14	N-NH3 (Ammonia)	0.15	mg/L	Exova
1124836	MS-C-E	5-Aug-14	Conductivity	334	uS/cm	Exova
1124836	MS-C-E	5-Aug-14	N-NO3	1.66	mg/L	Exova
1124836	MS-C-E	5-Aug-14	pH	8.32	pH units	Exova
1124836	MS-C-E	5-Aug-14	Total Suspended Solids	<2	mg/L	Exova
1124836	MS-C-E	5-Aug-14	Oil & Grease - Total	<1	mg/L	Exova
1124836	MS-C-E	5-Aug-14	N-NH3 (Ammonia)	0.11	mg/L	Exova
1126307	MS-C-E	12-Aug-14	Conductivity	314	uS/cm	Exova
1126307	MS-C-E	12-Aug-14	N-NO3	1.69	mg/L	Exova
1126307	MS-C-E	12-Aug-14	pH	7.61	pH units	Exova
1126307	MS-C-E	12-Aug-14	Total Suspended Solids	<2	mg/L	Exova
1126307	MS-C-E	12-Aug-14	Oil & Grease - Total	1	mg/L	Exova
1126307	MS-C-E	12-Aug-14	N-NH3 (Ammonia)	0.05	mg/L	Exova
1127604	MS-C-E	18-Aug-14	Conductivity	358	uS/cm	Exova
1127604	MS-C-E	18-Aug-14	N-NO3	2.25	mg/L	Exova
1127604	MS-C-E	18-Aug-14	pH	8.18	pH units	Exova
1127604	MS-C-E	18-Aug-14	Total Suspended Solids	<2	mg/L	Exova
1127604	MS-C-E	18-Aug-14	Oil & Grease - Total	<1	mg/L	Exova
1127604	MS-C-E	18-Aug-14	N-NH3 (Ammonia)	0.03	mg/L	Exova
1129691	MS-C-E	27-Aug-14	Conductivity	371	uS/cm	Exova
1129691	MS-C-E	27-Aug-14	N-NO3	2.79	mg/L	Exova
1129691	MS-C-E	27-Aug-14	pH	8.30	pH units	Exova
1129691	MS-C-E	27-Aug-14	Total Suspended Solids	<2	mg/L	Exova
1129691	MS-C-E	27-Aug-14	Oil & Grease - Total	<1	mg/L	Exova
1129691	MS-C-E	27-Aug-14	N-NH3 (Ammonia)	0.09	mg/L	Exova
1124835	MS-C-F	5-Aug-14	Conductivity	197	uS/cm	Exova
1124835	MS-C-F	5-Aug-14	N-NO3	0.40	mg/L	Exova
1124835	MS-C-F	5-Aug-14	pH	8.15	pH units	Exova
1124835	MS-C-F	5-Aug-14	Total Suspended Solids	<2	mg/L	Exova
1124835	MS-C-F	5-Aug-14	Oil & Grease - Total	1	mg/L	Exova
1124835	MS-C-F	5-Aug-14	N-NH3 (Ammonia)	0.14	mg/L	Exova
1126306	MS-C-F	12-Aug-14	Conductivity	157	uS/cm	Exova
1126306	MS-C-F	12-Aug-14	N-NO3	0.18	mg/L	Exova
1126306	MS-C-F	12-Aug-14	pH	7.37	pH units	Exova
1126306	MS-C-F	12-Aug-14	Total Suspended Solids	<2	mg/L	Exova
1126306	MS-C-F	12-Aug-14	Oil & Grease - Total	4	mg/L	Exova
1126306	MS-C-F	12-Aug-14	N-NH3 (Ammonia)	0.13	mg/L	Exova
1127601	MS-C-F	18-Aug-14	Conductivity	167	uS/cm	Exova
1127601	MS-C-F	18-Aug-14	N-NO3	0.18	mg/L	Exova
1127601	MS-C-F	18-Aug-14	pH	8.06	pH units	Exova
1127601	MS-C-F	18-Aug-14	Total Suspended Solids	<2	mg/L	Exova
1127601	MS-C-F	18-Aug-14	Oil & Grease - Total	<1	mg/L	Exova
1127601	MS-C-F	18-Aug-14	N-NH3 (Ammonia)	0.13	mg/L	Exova
1129692	MS-C-F	27-Aug-14	Conductivity	182	uS/cm	Exova
1129692	MS-C-F	27-Aug-14	N-NO3	0.27	mg/L	Exova
1129692	MS-C-F	27-Aug-14	pH	8.13	pH units	Exova
1129692	MS-C-F	27-Aug-14	Total Suspended Solids	<2	mg/L	Exova
1129692	MS-C-F	27-Aug-14	Oil & Grease - Total	<1	mg/L	Exova
1129692	MS-C-F	27-Aug-14	N-NH3 (Ammonia)	0.15	mg/L	Exova
1129693	MS-C-G	27-Aug-14	Conductivity	173	uS/cm	Exova
1129693	MS-C-G	27-Aug-14	N-NO3	<0.10	mg/L	Exova
1129693	MS-C-G	27-Aug-14	pH	8.12	pH units	Exova
1129693	MS-C-G	27-Aug-14	Total Suspended Solids	<2	mg/L	Exova
1129693	MS-C-G	27-Aug-14	Oil & Grease - Total	1	mg/L	Exova
1129693	MS-C-G	27-Aug-14	N-NH3 (Ammonia)	0.12	mg/L	Exova
1129694	MS-C-H	27-Aug-14	Conductivity	220	uS/cm	Exova
1129694	MS-C-H	27-Aug-14	N-NO3	<0.10	mg/L	Exova
1129694	MS-C-H	27-Aug-14	pH	8.26	pH units	Exova
1129694	MS-C-H	27-Aug-14	Total Suspended Solids	<2	mg/L	Exova
1129694	MS-C-H	27-Aug-14	Oil & Grease - Total	2	mg/L	Exova
1129694	MS-C-H	27-Aug-14	N-NH3 (Ammonia)	0.10	mg/L	Exova

Note: Acute lethality to Rainbow trout, *Oncorhynchus mykiss* (as per Environment Canada's Environmental Protection Series Method EPS/1/RM/13)

Acute lethality to *Daphnia magna* (as per Environment Canada's Environmental Protection Series Method EPS/1/RM/14)

Area of Non-Compliance :

Sample Station MS-01 (Mine Site Sewage Treatment Facility) showed an exceedance for faecal coliform on August 12, 2014 (9300 ct/100mL). This result is thought to be anomalous and is likely a result of sampling error as the prior and subsequent sampling of this location on August 5 and August 19 respectively resulted in a faecal coliform value of 0 ct/100mL. Also, there were no upset conditions reported by the Water Treatment Operator during this period.

MILNE PORT						
1130371	MP-01	2-Sep-14	Biochemical Oxygen Demand	3	mg/L	Exova
1130366	MP-01	2-Sep-14	Faecal Coliforms	7	ct/100mL	Exova
1130371	MP-01	2-Sep-14	Total Kjeldahl Nitrogen	2.3	mg/L	Exova
1130371	MP-01	2-Sep-14	N-NH3 (Ammonia)	0.56	mg/L	Exova
1130371	MP-01	2-Sep-14	Oil & Grease - Total	<1	mg/L	Exova
1130371	MP-01	2-Sep-14	Total Suspended Solids	5	mg/L	Exova
1130371	MP-01	2-Sep-14	pH	7.31	pH units	Exova
1132591	MP-01	9-Sep-14	Biochemical Oxygen Demand	1	mg/L	Exova
1132587	MP-01	9-Sep-14	Faecal Coliforms	0	ct/100mL	Exova
1132591	MP-01	9-Sep-14	Total Kjeldahl Nitrogen	5.34	mg/L	Exova
1132591	MP-01	9-Sep-14	N-NH3 (Ammonia)	3.90	mg/L	Exova
1132591	MP-01	9-Sep-14	Oil & Grease - Total	<1	mg/L	Exova
1132591	MP-01	9-Sep-14	Total Suspended Solids	2	mg/L	Exova
1132591	MP-01	9-Sep-14	pH	7.86	pH units	Exova
1134123	MP-01	16-Sep-14	Biochemical Oxygen Demand	4	mg/L	Exova
1134120	MP-01	16-Sep-14	Faecal Coliforms	0	ct/100mL	Exova
1134123	MP-01	16-Sep-14	Total Kjeldahl Nitrogen	0.83	mg/L	Exova
1134123	MP-01	16-Sep-14	N-NH3 (Ammonia)	0.38	mg/L	Exova
1134123	MP-01	16-Sep-14	Oil & Grease - Total	3	mg/L	Exova
1134123	MP-01	16-Sep-14	Total Suspended Solids	4	mg/L	Exova
1134123	MP-01	16-Sep-14	pH	7.55	pH units	Exova
1135624	MP-01	23-Sep-14	Biochemical Oxygen Demand	5	mg/L	Exova
1135626	MP-01	23-Sep-14	Faecal Coliforms	0	ct/100mL	Exova
1135624	MP-01	23-Sep-14	Total Kjeldahl Nitrogen	1.13	mg/L	Exova
1135624	MP-01	23-Sep-14	N-NH3 (Ammonia)	0.27	mg/L	Exova
1135624	MP-01	23-Sep-14	Oil & Grease - Total	<1	mg/L	Exova
1135624	MP-01	23-Sep-14	Total Suspended Solids	4	mg/L	Exova
1135624	MP-01	23-Sep-14	pH	7.71	pH units	Exova
1137193	MP-01	30-Sep-14	Biochemical Oxygen Demand	1	mg/L	Exova
1137190	MP-01	30-Sep-14	Faecal Coliforms	0	ct/100mL	Exova
1137193	MP-01	30-Sep-14	Total Kjeldahl Nitrogen	1.45	mg/L	Exova
1137193	MP-01	30-Sep-14	N-NH3 (Ammonia)	0.21	mg/L	Exova
1137193	MP-01	30-Sep-14	Oil & Grease - Total	1	mg/L	Exova
1137193	MP-01	30-Sep-14	Total Suspended Solids	<2	mg/L	Exova
1137193	MP-01	30-Sep-14	pH	7.83	pH units	Exova
1132592	MP-0101	9-Sep-14	Biochemical Oxygen Demand	<1	mg/L	Exova
1132588	MP-0101	9-Sep-14	Faecal Coliforms	0	ct/100mL	Exova
1132592	MP-0101	9-Sep-14	Total Kjeldahl Nitrogen	5.70	mg/L	Exova
1132592	MP-0101	9-Sep-14	N-NH3 (Ammonia)	4.02	mg/L	Exova
1132592	MP-0101	9-Sep-14	Oil & Grease - Total	<1	mg/L	Exova
1132592	MP-0101	9-Sep-14	Total Suspended Solids	<2	mg/L	Exova
1132592	MP-0101	9-Sep-14	pH	7.83	pH units	Exova

TABLE 2.8

BAFFINLAND IRON MINES CORPORATION
MARY RIVER PROJECT

2014 ANNUAL REPORT TO THE NUNAVUT WATER BOARD
WATER QUALITY RESULTS FOR WATER LICENCE MONITORING LOCATIONS

Sample Number	Sample ID	Date Sampled	Parameter Name	Result	Unit	Lab
1134124	MP-0102	16-Sep-14	Biochemical Oxygen Demand	<2	mg/L	Exova
1134121	MP-0102	16-Sep-14	Faecal Coliforms	0	ct/100mL	Exova
1134124	MP-0102	16-Sep-14	Total Kjeldahl Nitrogen	0.14	mg/L	Exova
1134124	MP-0102	16-Sep-14	N-NH3 (Ammonia)	0.04	mg/L	Exova
1134124	MP-0102	16-Sep-14	Oil & Grease - Total	2	mg/L	Exova
1134124	MP-0102	16-Sep-14	Total Suspended Solids	<2	mg/L	Exova
1134124	MP-0102	16-Sep-14	pH	6.04	pH units	Exova
1132593	MP-0103	9-Sep-14	Biochemical Oxygen Demand	<1	mg/L	Exova
1132589	MP-0103	9-Sep-14	Faecal Coliforms	0	ct/100mL	Exova
1132593	MP-0103	9-Sep-14	Total Kjeldahl Nitrogen	<0.10	mg/L	Exova
1132593	MP-0103	9-Sep-14	N-NH3 (Ammonia)	0.04	mg/L	Exova
1132593	MP-0103	9-Sep-14	Oil & Grease - Total	<1	mg/L	Exova
1132593	MP-0103	9-Sep-14	Total Suspended Solids	<2	mg/L	Exova
1132593	MP-0103	9-Sep-14	pH	6.10	pH units	Exova
1129680	MP-01a	27-Aug-14	Biochemical Oxygen Demand	82	mg/L	Exova
1129680	MP-01a	27-Aug-14	Total Kjeldahl Nitrogen	19.5	mg/L	Exova
1129680	MP-01a	27-Aug-14	N-NH3 (Ammonia)	0.32	mg/L	Exova
1129680	MP-01a	27-Aug-14	Oil & Grease - Total	<1	mg/L	Exova
1129680	MP-01a	27-Aug-14	Total Suspended Solids	104	mg/L	Exova
1132599	MP-01a	7-Sep-14	Biochemical Oxygen Demand	36	mg/L	Exova
1132598	MP-01a	7-Sep-14	Faecal Coliforms	0	ct/100mL	Exova
1132599	MP-01a	7-Sep-14	Total Kjeldahl Nitrogen	20.2	mg/L	Exova
1132599	MP-01a	7-Sep-14	N-NH3 (Ammonia)	0.41	mg/L	Exova
1132599	MP-01a	7-Sep-14	Oil & Grease - Total	2	mg/L	Exova
1132599	MP-01a	7-Sep-14	Total Suspended Solids	112	mg/L	Exova
1132599	MP-01a	7-Sep-14	pH	9.37	pH units	Exova
1130466	MP-Q1-01	1-Sep-14	pH	8.1	pH units	Exova
1130466	MP-Q1-01	1-Sep-14	Total Suspended Solids	2	mg/L	Exova
1130466	MP-Q1-01	1-Sep-14	Oil & Grease - Total	<1	mg/L	Exova
1132568	MP-Q1-01	8-Sep-14	Conductivity	352	uS/cm	Exova
1132568	MP-Q1-01	8-Sep-14	N-NO3	0.62	mg/L	Exova
1132568	MP-Q1-01	8-Sep-14	pH	8.15	pH units	Exova
1132568	MP-Q1-01	8-Sep-14	Total Suspended Solids	<2	mg/L	Exova
1132568	MP-Q1-01	8-Sep-14	Oil & Grease - Total	<1	mg/L	Exova
1132568	MP-Q1-01	8-Sep-14	N-NH3 (Ammonia)	0.04	mg/L	Exova
1130467	MP-Q1-02	1-Sep-14	pH	8.06	pH units	Exova
1130467	MP-Q1-02	1-Sep-14	Total Suspended Solids	<2	mg/L	Exova
1130467	MP-Q1-02	1-Sep-14	Oil & Grease - Total	<1	mg/L	Exova
1132569	MP-Q1-02	8-Sep-14	Conductivity	513	uS/cm	Exova
1132569	MP-Q1-02	8-Sep-14	N-NO3	11.4	mg/L	Exova
1132569	MP-Q1-02	8-Sep-14	pH	8.09	pH units	Exova
1132569	MP-Q1-02	8-Sep-14	Total Suspended Solids	<2	mg/L	Exova
1132569	MP-Q1-02	8-Sep-14	Oil & Grease - Total	<1	mg/L	Exova
1132569	MP-Q1-02	8-Sep-14	N-NH3 (Ammonia)	0.81	mg/L	Exova
1130468	MP-C-B	1-Sep-14	pH	8.29	pH units	Exova
1130468	MP-C-B	1-Sep-14	Total Suspended Solids	<2	mg/L	Exova
1130468	MP-C-B	1-Sep-14	Oil & Grease - Total	<1	mg/L	Exova
1132571	MP-C-B	8-Sep-14	Conductivity	485	uS/cm	Exova
1132571	MP-C-B	8-Sep-14	N-NO3	0.98	mg/L	Exova
1132571	MP-C-B	8-Sep-14	pH	8.27	pH units	Exova
1132571	MP-C-B	8-Sep-14	Total Suspended Solids	<2	mg/L	Exova
1132571	MP-C-B	8-Sep-14	Oil & Grease - Total	4	mg/L	Exova
1132571	MP-C-B	8-Sep-14	N-NH3 (Ammonia)	0.11	mg/L	Exova
LH14-041-12	MP-C-B	8-Sep-14	Toxicity	non-lethal*	mg/L	Exova
1130469	MP-C-B01	1-Sep-14	pH	8.30	pH units	Exova
1130469	MP-C-B01	1-Sep-14	Total Suspended Solids	<2	mg/L	Exova
1130469	MP-C-B01	1-Sep-14	Oil & Grease - Total	<1	mg/L	Exova
1130470	MP-C-B0101	1-Sep-14	pH	8.3	pH units	Exova
1130470	MP-C-B0101	1-Sep-14	Total Suspended Solids	<2	mg/L	Exova
1130470	MP-C-B0101	1-Sep-14	Oil & Grease - Total	<1	mg/L	Exova
1132572	MP-C-B01	8-Sep-14	Conductivity	452	uS/cm	Exova
1132572	MP-C-B01	8-Sep-14	N-NO3	1.38	mg/L	Exova
1132572	MP-C-B01	8-Sep-14	pH	8.29	pH units	Exova
1132572	MP-C-B01	8-Sep-14	Total Suspended Solids	<2	mg/L	Exova
1132572	MP-C-B01	8-Sep-14	Oil & Grease - Total	<1	mg/L	Exova
1132572	MP-C-B01	8-Sep-14	N-NH3 (Ammonia)	0.05	mg/L	Exova
1130471	MP-C-H	1-Sep-14	pH	8.31	pH units	Exova
1130471	MP-C-H	1-Sep-14	Total Suspended Solids	<2	mg/L	Exova
1130471	MP-C-H	1-Sep-14	Oil & Grease - Total	<1	mg/L	Exova
1126114	MP-C-H	8-Sep-14	Conductivity	301	uS/cm	Exova
1126114	MP-C-H	8-Sep-14	N-NO3	0.15	mg/L	Exova
1126114	MP-C-H	8-Sep-14	pH	8.24	pH units	Exova
1126114	MP-C-H	8-Sep-14	Total Suspended Solids	<2	mg/L	Exova
1126114	MP-C-H	8-Sep-14	Oil & Grease - Total	<1	mg/L	Exova
1126114	MP-C-H	8-Sep-14	N-NH3 (Ammonia)	0.03	mg/L	Exova
MARY RIVER MINE SITE						
1130382	MS-01	2-Sep-14	Biochemical Oxygen Demand	<1	mg/L	Exova
1130380	MS-01	2-Sep-14	Faecal Coliforms	1	ct/100mL	Exova
1130382	MS-01	2-Sep-14	Total Kjeldahl Nitrogen	0.99	mg/L	Exova
1130382	MS-01	2-Sep-14	N-NH3 (Ammonia)	0.35	mg/L	Exova
1130382	MS-01	2-Sep-14	Oil & Grease - Total	<1	mg/L	Exova
1130382	MS-01	2-Sep-14	Total Phosphorus	0.71	mg/L	Exova
1130382	MS-01	2-Sep-14	Total Suspended Solids	<2	mg/L	Exova
1130382	MS-01	2-Sep-14	pH	7.58	pH units	Exova
1134115	MS-01	16-Sep-14	Biochemical Oxygen Demand	<1	mg/L	Exova
1134113	MS-01	16-Sep-14	Faecal Coliforms	0	ct/100mL	Exova
1134115	MS-01	16-Sep-14	Total Kjeldahl Nitrogen	2.12	mg/L	Exova
1134115	MS-01	16-Sep-14	N-NH3 (Ammonia)	0.32	mg/L	Exova
1134115	MS-01	16-Sep-14	Oil & Grease - Total	<1	mg/L	Exova
1134115	MS-01	16-Sep-14	Total Phosphorus	0.88	mg/L	Exova
1134115	MS-01	16-Sep-14	Total Suspended Solids	<2	mg/L	Exova
1134115	MS-01	16-Sep-14	pH	7.23	pH units	Exova
1135584	MS-01	23-Sep-14	Biochemical Oxygen Demand	1	mg/L	Exova
1135586	MS-01	23-Sep-14	Faecal Coliforms	0	ct/100mL	Exova
1135584	MS-01	23-Sep-14	Total Kjeldahl Nitrogen	0.50	mg/L	Exova
1135584	MS-01	23-Sep-14	N-NH3 (Ammonia)	0.27	mg/L	Exova
1135584	MS-01	23-Sep-14	Oil & Grease - Total	<1	mg/L	Exova
1135584	MS-01	23-Sep-14	Total Phosphorus	0.29	mg/L	Exova
1135584	MS-01	23-Sep-14	Total Suspended Solids	<2	mg/L	Exova
1135584	MS-01	23-Sep-14	pH	7.50	pH units	Exova
1137188	MS-01	30-Sep-14	Biochemical Oxygen Demand	2	mg/L	Exova
1137184	MS-01	30-Sep-14	Faecal Coliforms	0	ct/100mL	Exova
1137188	MS-01	30-Sep-14	Total Kjeldahl Nitrogen	1.33	mg/L	Exova
1137188	MS-01	30-Sep-14	N-NH3 (Ammonia)	0.36	mg/L	Exova
1137188	MS-01	30-Sep-14	Oil & Grease - Total	1	mg/L	Exova
1137188	MS-01	30-Sep-14	Total Phosphorus	0.31	mg/L	Exova
1137188	MS-01	30-Sep-14	Total Suspended Solids	5	mg/L	Exova
1137188	MS-01	30-Sep-14	pH	7.59	pH units	Exova
1130530	MS-MRY-9	1-Sep-14	pH	7.46	pH units	Exova
1130579	MS-MRY-9	1-Sep-14	Total Arsenic	<0.1	ug/L	Exova
1130579	MS-MRY-9	1-Sep-14	Total Copper	0.6	ug/L	Exova
1130579	MS-MRY-9	1-Sep-14	Total Lead	0.16	ug/L	Exova
1130579	MS-MRY-9	1-Sep-14	Total Nickel	<0.5	ug/L	Exova
1130579	MS-MRY-9	1-Sep-14	Total Zinc	3	ug/L	Exova
1130530	MS-MRY-9	1-Sep-14	Total Suspended Solids	<2	mg/L	Exova
1130530	MS-MRY-9	1-Sep-14	Oil & Grease - Total	-	mg/L	Exova
1130531	MS-MRY-10	1-Sep-14	pH	8.06	pH units	Exova
1130580	MS-MRY-10	1-Sep-14	Total Arsenic	<0.1	ug/L	Exova
1130580	MS-MRY-10	1-Sep-14	Total Copper	0.8	ug/L	Exova
1130580	MS-MRY-10	1-Sep-14	Total Lead	0.06	ug/L	Exova
1130580	MS-MRY-10	1-Sep-14	Total Nickel	<0.5	ug/L	Exova
1130580	MS-MRY-10	1-Sep-14	Total Zinc	5	ug/L	Exova
1130531	MS-MRY-10	1-Sep-14	Total Suspended Solids	<2	mg/L	Exova
1130531	MS-MRY-10	1-Sep-14	Oil & Grease - Total	-	mg/L	Exova
1130534	MS-MRY-11-TP3	1-Sep-14	pH	8.20	pH units	Exova
1130583	MS-MRY-11-TP3	1-Sep-14	Total Arsenic	<0.1	ug/L	Exova
1130583	MS-MRY-11-TP3	1-Sep-14	Total Copper	1	ug/L	Exova

TABLE 2.8

BAFFINLAND IRON MINES CORPORATION
MARY RIVER PROJECT2014 ANNUAL REPORT TO THE NUNAVUT WATER BOARD
WATER QUALITY RESULTS FOR WATER LICENCE MONITORING LOCATIONS

Sample Number	Sample ID	Date Sampled	Parameter Name	Result	Unit	Lab
1130583	MS-MRY-11-TP3	1-Sep-14	Total Lead	<0.05	ug/L	Exova
1130583	MS-MRY-11-TP3	1-Sep-14	Total Nickel	0.9	ug/L	Exova
1130583	MS-MRY-11-TP3	1-Sep-14	Total Zinc	<3	ug/L	Exova
1130534	MS-MRY-11-TP3	1-Sep-14	Total Suspended Solids	<2	mg/L	Exova
1130534	MS-MRY-11-TP3	1-Sep-14	Oil & Grease - Total	-	mg/L	Exova
LH14-041-11	MS-MRY-11-TP3	1-Sep-14	Toxicity	non-lethal*	mg/L	Exova
1130514	MS-MRY-13A	1-Sep-14	pH	8.24	pH units	Exova
1130520	MS-MRY-13A	1-Sep-14	Total Arsenic	0.2	ug/L	Exova
1130520	MS-MRY-13A	1-Sep-14	Total Copper	2.2	ug/L	Exova
1130520	MS-MRY-13A	1-Sep-14	Total Lead	0.15	ug/L	Exova
1130520	MS-MRY-13A	1-Sep-14	Total Nickel	11.4	ug/L	Exova
1130520	MS-MRY-13A	1-Sep-14	Total Zinc	3	ug/L	Exova
1130514	MS-MRY-13A	1-Sep-14	Total Suspended Solids	<2	mg/L	Exova
1130514	MS-MRY-13A	1-Sep-14	Oil & Grease - Total	<1	mg/L	Exova
1130515	MS-MRY-13B	1-Sep-14	pH	8.27	pH units	Exova
1130521	MS-MRY-13B	1-Sep-14	Total Arsenic	<0.1	ug/L	Exova
1130521	MS-MRY-13B	1-Sep-14	Total Copper	1.4	ug/L	Exova
1130521	MS-MRY-13B	1-Sep-14	Total Lead	<0.05	ug/L	Exova
1130521	MS-MRY-13B	1-Sep-14	Total Nickel	6.3	ug/L	Exova
1130521	MS-MRY-13B	1-Sep-14	Total Zinc	<3	ug/L	Exova
1130515	MS-MRY-13B	1-Sep-14	Total Suspended Solids	<2	mg/L	Exova
1130515	MS-MRY-13B	1-Sep-14	Oil & Grease - Total	<1	mg/L	Exova
1130357	MQ-C-A	1-Sep-14	pH	7.45	pH units	Exova
1130357	MQ-C-A	1-Sep-14	Total Suspended Solids	<2	mg/L	Exova
1130357	MQ-C-A	1-Sep-14	Oil & Grease - Total	<1	mg/L	Exova
1132583	MQ-C-A	8-Sep-14	Conductivity	310	uS/cm	Exova
1132583	MQ-C-A	8-Sep-14	N-NO3	<0.10	mg/L	Exova
1132583	MQ-C-A	8-Sep-14	pH	8.22	pH units	Exova
1132583	MQ-C-A	8-Sep-14	Total Suspended Solids	<2	mg/L	Exova
1132583	MQ-C-A	8-Sep-14	Oil & Grease - Total	<1	mg/L	Exova
1132583	MQ-C-A	8-Sep-14	N-NH3 (Ammonia)	0.14	mg/L	Exova
1130358	MQ-C-B	1-Sep-14	pH	8.02	pH units	Exova
1130358	MQ-C-B	1-Sep-14	Total Suspended Solids	<2	mg/L	Exova
1130358	MQ-C-B	1-Sep-14	Oil & Grease - Total	<1	mg/L	Exova
LH14-041-10	MQ-C-B	1-Sep-14	Toxicity	non-lethal*	mg/L	Exova
1132584	MQ-C-B	8-Sep-14	Conductivity	507	uS/cm	Exova
1132584	MQ-C-B	8-Sep-14	N-NO3	1.31	mg/L	Exova
1132584	MQ-C-B	8-Sep-14	pH	8.15	pH units	Exova
1132584	MQ-C-B	8-Sep-14	Total Suspended Solids	<2	mg/L	Exova
1132584	MQ-C-B	8-Sep-14	Oil & Grease - Total	<1	mg/L	Exova
1132584	MQ-C-B	8-Sep-14	N-NH3 (Ammonia)	0.48	mg/L	Exova
1130359	MQ-C-D	1-Sep-14	pH	8.09	pH units	Exova
1130359	MQ-C-D	1-Sep-14	Total Suspended Solids	<2	mg/L	Exova
1130359	MQ-C-D	1-Sep-14	Oil & Grease - Total	<1	mg/L	Exova
1132585	MQ-C-D	8-Sep-14	Conductivity	429	uS/cm	Exova
1132585	MQ-C-D	8-Sep-14	N-NO3	1.19	mg/L	Exova
1132585	MQ-C-D	8-Sep-14	pH	8.18	pH units	Exova
1132585	MQ-C-D	8-Sep-14	Total Suspended Solids	<2	mg/L	Exova
1132585	MQ-C-D	8-Sep-14	Oil & Grease - Total	<1	mg/L	Exova
1132585	MQ-C-D	8-Sep-14	N-NH3 (Ammonia)	0.56	mg/L	Exova
1130450	MS-C-A	1-Sep-14	pH	8.18	pH units	Exova
1130450	MS-C-A	1-Sep-14	Total Suspended Solids	<2	mg/L	Exova
1130450	MS-C-A	1-Sep-14	Oil & Grease - Total	<1	mg/L	Exova
1132574	MS-C-A	8-Sep-14	Conductivity	175	uS/cm	Exova
1132574	MS-C-A	8-Sep-14	N-NO3	0.18	mg/L	Exova
1132574	MS-C-A	8-Sep-14	pH	7.95	pH units	Exova
1132574	MS-C-A	8-Sep-14	Total Suspended Solids	<2	mg/L	Exova
1132574	MS-C-A	8-Sep-14	Oil & Grease - Total	<1	mg/L	Exova
1132574	MS-C-A	8-Sep-14	N-NH3 (Ammonia)	0.12	mg/L	Exova
1130451	MS-C-B	1-Sep-14	pH	7.96	pH units	Exova
1130451	MS-C-B	1-Sep-14	Total Suspended Solids	<2	mg/L	Exova
1130451	MS-C-B	1-Sep-14	Oil & Grease - Total	<1	mg/L	Exova
1132575	MS-C-B	8-Sep-14	Conductivity	189	uS/cm	Exova
1132575	MS-C-B	8-Sep-14	N-NO3	0.4	mg/L	Exova
1132575	MS-C-B	8-Sep-14	pH	7.90	pH units	Exova
1132575	MS-C-B	8-Sep-14	Total Suspended Solids	<2	mg/L	Exova
1132575	MS-C-B	8-Sep-14	Oil & Grease - Total	<1	mg/L	Exova
1132575	MS-C-B	8-Sep-14	N-NH3 (Ammonia)	0.04	mg/L	Exova
1130452	MS-C-C	1-Sep-14	pH	8.11	pH units	Exova
1130452	MS-C-C	1-Sep-14	Total Suspended Solids	<2	mg/L	Exova
1130452	MS-C-C	1-Sep-14	Oil & Grease - Total	<1	mg/L	Exova
1132576	MS-C-C	8-Sep-14	Conductivity	625	uS/cm	Exova
1132576	MS-C-C	8-Sep-14	N-NO3	7.98	mg/L	Exova
1132576	MS-C-C	8-Sep-14	pH	8.06	pH units	Exova
1132576	MS-C-C	8-Sep-14	Total Suspended Solids	<2	mg/L	Exova
1132576	MS-C-C	8-Sep-14	Oil & Grease - Total	<1	mg/L	Exova
1132576	MS-C-C	8-Sep-14	N-NH3 (Ammonia)	0.04	mg/L	Exova
1130453	MS-C-D	1-Sep-14	pH	8.39	pH units	Exova
1130453	MS-C-D	1-Sep-14	Total Suspended Solids	<2	mg/L	Exova
1130453	MS-C-D	1-Sep-14	Oil & Grease - Total	<1	mg/L	Exova
1132577	MS-C-D	8-Sep-14	Conductivity	642	uS/cm	Exova
1132577	MS-C-D	8-Sep-14	N-NO3	10.1	mg/L	Exova
1132577	MS-C-D	8-Sep-14	pH	8.30	pH units	Exova
1132577	MS-C-D	8-Sep-14	Total Suspended Solids	<2	mg/L	Exova
1132577	MS-C-D	8-Sep-14	Oil & Grease - Total	<1	mg/L	Exova
1132577	MS-C-D	8-Sep-14	N-NH3 (Ammonia)	0.07	mg/L	Exova
1130454	MS-C-E	1-Sep-14	pH	8.22	pH units	Exova
1130454	MS-C-E	1-Sep-14	Total Suspended Solids	<2	mg/L	Exova
1130454	MS-C-E	1-Sep-14	Oil & Grease - Total	<1	mg/L	Exova
1132578	MS-C-E	8-Sep-14	Conductivity	419	uS/cm	Exova
1132578	MS-C-E	8-Sep-14	N-NO3	3.55	mg/L	Exova
1132578	MS-C-E	8-Sep-14	pH	8.15	pH units	Exova
1132578	MS-C-E	8-Sep-14	Total Suspended Solids	<2	mg/L	Exova
1132578	MS-C-E	8-Sep-14	Oil & Grease - Total	<1	mg/L	Exova
1132578	MS-C-E	8-Sep-14	N-NH3 (Ammonia)	0.16	mg/L	Exova
1134106	MS-C-E	15-Sep-14	pH	7.90	pH units	Exova
1134106	MS-C-E	15-Sep-14	Total Suspended Solids	<2	mg/L	Exova
1134106	MS-C-E	15-Sep-14	Oil & Grease - Total	<1	mg/L	Exova
1130455	MS-C-F	1-Sep-14	pH	8.13	pH units	Exova
1130455	MS-C-F	1-Sep-14	Total Suspended Solids	<2	mg/L	Exova
1130455	MS-C-F	1-Sep-14	Oil & Grease - Total	<1	mg/L	Exova
1132579	MS-C-F	8-Sep-14	Conductivity	189	uS/cm	Exova
1132579	MS-C-F	8-Sep-14	N-NO3	0.2	mg/L	Exova
1132579	MS-C-F	8-Sep-14	pH	8.09	pH units	Exova
1132579	MS-C-F	8-Sep-14	Total Suspended Solids	<2	mg/L	Exova
1132579	MS-C-F	8-Sep-14	Oil & Grease - Total	<1	mg/L	Exova
1132579	MS-C-F	8-Sep-14	N-NH3 (Ammonia)	0.09	mg/L	Exova
1130458	MS-C-F-01	1-Sep-14	pH	8.08	pH units	Exova
1130458	MS-C-F-01	1-Sep-14	Total Suspended Solids	<2	mg/L	Exova
1130458	MS-C-F-01	1-Sep-14	Oil & Grease - Total	3	mg/L	Exova
1130456	MS-C-G	1-Sep-14	pH	7.94	pH units	Exova
1130456	MS-C-G	1-Sep-14	Total Suspended Solids	<2	mg/L	Exova
1130456	MS-C-G	1-Sep-14	Oil & Grease - Total	<1	mg/L	Exova
1132580	MS-C-G	8-Sep-14	Conductivity	191	uS/cm	Exova
1132580	MS-C-G	8-Sep-14	N-NO3	0.11	mg/L	Exova
1132580	MS-C-G	8-Sep-14	pH	7.97	pH units	Exova
1132580	MS-C-G	8-Sep-14	Total Suspended Solids	<2	mg/L	Exova
1132580	MS-C-G	8-Sep-14	Oil & Grease - Total	<1	mg/L	Exova
1132580	MS-C-G	8-Sep-14	N-NH3 (Ammonia)	0.16	mg/L	Exova
1134107	MS-C-G	15-Sep-14	pH	7.88	pH units	Exova
1134107	MS-C-G	15-Sep-14	Total Suspended Solids	<2	mg/L	Exova
1134107	MS-C-G	15-Sep-14	Oil & Grease - Total	2	mg/L	Exova
1132582	MS-C-G-01	8-Sep-14	Conductivity	189	uS/cm	Exova
1132582	MS-C-G-01	8-Sep-14	N-NO3	<0.10	mg/L	Exova
1132582	MS-C-G-01	8-Sep-14	pH	8.08	pH units	Exova
1132582	MS-C-G-01	8-Sep-14	Total Suspended Solids	<2	mg/L	Exova

TABLE 2.8

BAFFINLAND IRON MINES CORPORATION
MARY RIVER PROJECT

2014 ANNUAL REPORT TO THE NUNAVUT WATER BOARD
WATER QUALITY RESULTS FOR WATER LICENCE MONITORING LOCATIONS

Sample Number	Sample ID	Date Sampled	Parameter Name	Result	Unit	Lab
1132582	MS-C-G-01	8-Sep-14	Oil & Grease - Total	<1	mg/L	Exova
1132582	MS-C-G-01	8-Sep-14	N-NH3 (Ammonia)	0.11	mg/L	Exova
1130457	MS-C-H	1-Sep-14	pH	8.22	pH units	Exova
1130457	MS-C-H	1-Sep-14	Total Suspended Solids	<2	mg/L	Exova
1130457	MS-C-H	1-Sep-14	Oil & Grease - Total	<1	mg/L	Exova
1132581	MS-C-H	8-Sep-14	Conductivity	232	uS/cm	Exova
1132581	MS-C-H	8-Sep-14	N-NO3	<0.10	mg/L	Exova
1132581	MS-C-H	8-Sep-14	pH	8.16	pH units	Exova
1132581	MS-C-H	8-Sep-14	Total Suspended Solids	<2	mg/L	Exova
1132581	MS-C-H	8-Sep-14	Oil & Grease - Total	<1	mg/L	Exova
1132581	MS-C-H	8-Sep-14	N-NH3 (Ammonia)	0.04	mg/L	Exova

Note: Acute lethality to Rainbow trout, Oncorhynchus mykiss (as per Environment Canada's Environmental Protection Series Method EPS/1/RM/13)

Acute lethality to Daphnia magna (as per Environment Canada's Environmental Protection Series Method EPS/1/RM/14)

MLNE PORT						
1138805	MP-01	7-Oct-14	Faecal Coliforms	0	ct/100mL	Exova
1138807	MP-01	7-Oct-14	pH	7.41	pH units	Exova
1138807	MP-01	7-Oct-14	Total Suspended Solids	<2	mg/L	Exova
1138807	MP-01	7-Oct-14	Biochemical Oxygen Demand	<1	mg/L	Exova
1138807	MP-01	7-Oct-14	N-NH3 (Ammonia)	0.09	mg/L	Exova
1138807	MP-01	7-Oct-14	Total Kjeldahl Nitrogen	1.57	mg/L	Exova
1138807	MP-01	7-Oct-14	Total Phosphorus	7.43	mg/L	Exova
1138807	MP-01	7-Oct-14	Oil & Grease - Total	1	mg/L	Exova
1139978	MP-01	14-Oct-14	Faecal Coliforms	0	ct/100mL	Exova
1139980	MP-01	14-Oct-14	pH	7.62	pH units	Exova
1139980	MP-01	14-Oct-14	Total Suspended Solids	<2	mg/L	Exova
1139980	MP-01	14-Oct-14	Biochemical Oxygen Demand	<1	mg/L	Exova
1139980	MP-01	14-Oct-14	N-NH3 (Ammonia)	0.26	mg/L	Exova
1139980	MP-01	14-Oct-14	Total Kjeldahl Nitrogen	1.49	mg/L	Exova
1139980	MP-01	14-Oct-14	Total Phosphorus	11.6	mg/L	Exova
1139980	MP-01	14-Oct-14	Oil & Grease - Total	1	mg/L	Exova
L1536059-1	MP-01	21-Oct-14	pH	7.36	pH units	ALS
L1536059-1	MP-01	21-Oct-14	Total Suspended Solids	<2.0	mg/L	ALS
L1536059-1	MP-01	21-Oct-14	N-NH3 (Ammonia)	0.323	mg/L	ALS
L1536059-1	MP-01	21-Oct-14	Total Kjeldahl Nitrogen	0.39	mg/L	ALS
L1536059-1	MP-01	21-Oct-14	Total Phosphorus	13.7	mg/L	ALS
L1536059-1	MP-01	21-Oct-14	Faecal Coliforms	-	ct/100mL	ALS
L1536059-1	MP-01	21-Oct-14	Biochemical Oxygen Demand	<2.0	mg/L	ALS
L1536059-1	MP-01	21-Oct-14	Oil & Grease - Total	<2.0	mg/L	ALS
L1538778-1	MP-01	28-Oct-14	pH	7.59	pH units	ALS
L1538778-1	MP-01	28-Oct-14	Total Suspended Solids	<2.0	mg/L	ALS
L1538778-1	MP-01	28-Oct-14	N-NH3 (Ammonia)	0.072	mg/L	ALS
L1538778-1	MP-01	28-Oct-14	Total Kjeldahl Nitrogen	0.29	mg/L	ALS
L1538778-1	MP-01	28-Oct-14	Total Phosphorus	16.5	mg/L	ALS
L1538778-3	MP-01	28-Oct-14	Faecal Coliforms	0	ct/100mL	ALS
L1538778-1	MP-01	28-Oct-14	Biochemical Oxygen Demand	<2.0	mg/L	ALS
L1538778-1	MP-01	28-Oct-14	Oil & Grease - Total	<2.0	mg/L	ALS

MARY RIVER MINE SITE						
1138818	MS-01	7-Oct-14	Faecal Coliforms	0	ct/100mL	Exova
1138812	MS-01	7-Oct-14	pH	7.27	pH units	Exova
1138812	MS-01	7-Oct-14	Total Suspended Solids	<2	mg/L	Exova
1138812	MS-01	7-Oct-14	Biochemical Oxygen Demand	1	mg/L	Exova
1138812	MS-01	7-Oct-14	N-NH3 (Ammonia)	0.52	mg/L	Exova
1138812	MS-01	7-Oct-14	Total Kjeldahl Nitrogen	0.82	mg/L	Exova
1138812	MS-01	7-Oct-14	Total Phosphorus	0.21	mg/L	Exova
1138812	MS-01	7-Oct-14	Oil & Grease - Total	<1	mg/L	Exova
1139965	MS-01	14-Oct-14	Faecal Coliforms	0	ct/100mL	Exova
1139970	MS-01	14-Oct-14	pH	7.48	pH units	Exova
1139970	MS-01	14-Oct-14	Total Suspended Solids	<2	mg/L	Exova
1139970	MS-01	14-Oct-14	Biochemical Oxygen Demand	<1	mg/L	Exova
1139970	MS-01	14-Oct-14	N-NH3 (Ammonia)	0.38	mg/L	Exova
1139970	MS-01	14-Oct-14	Total Kjeldahl Nitrogen	1.2	mg/L	Exova
1139970	MS-01	14-Oct-14	Total Phosphorus	0	mg/L	Exova
1139970	MS-01	14-Oct-14	Oil & Grease - Total	<1	mg/L	Exova
L1536029-1	MS-01	21-Oct-14	pH	7.09	pH units	ALS
L1536029-1	MS-01	21-Oct-14	Total Suspended Solids	3	mg/L	ALS
L1536029-1	MS-01	21-Oct-14	N-NH3 (Ammonia)	0.31	mg/L	ALS
L1536029-1	MS-01	21-Oct-14	Total Kjeldahl Nitrogen	0.73	mg/L	ALS
L1536029-1	MS-01	21-Oct-14	Total Phosphorus	0.434	mg/L	ALS
L1536029-1	MS-01	21-Oct-14	Faecal Coliforms	0	ct/100mL	ALS
L1536029-1	MS-01	21-Oct-14	Biochemical Oxygen Demand	<2.0	mg/L	ALS
L1536029-1	MS-01	21-Oct-14	Oil & Grease - Total	<2.0	mg/L	ALS
L1538741-1	MS-01	29-Oct-14	pH	7.26	pH units	ALS
L1538741-1	MS-01	29-Oct-14	Total Suspended Solids	<2.0	mg/L	ALS
L1538741-1	MS-01	29-Oct-14	N-NH3 (Ammonia)	0.556	mg/L	ALS
L1538741-1	MS-01	29-Oct-14	Total Kjeldahl Nitrogen	1.33	mg/L	ALS
L1538741-1	MS-01	29-Oct-14	Total Phosphorus	0.66	mg/L	ALS
L1538741-1	MS-01	29-Oct-14	Faecal Coliforms	1	ct/100mL	ALS
L1538741-1	MS-01	29-Oct-14	Biochemical Oxygen Demand	<2.0	mg/L	ALS
L1538741-1	MS-01	29-Oct-14	Oil & Grease - Total	<2.0	mg/L	ALS
1138820	MS-0101	7-Oct-14	Faecal Coliforms	0	ct/100mL	Exova
1138815	MS-0101	7-Oct-14	pH	7.18	pH units	Exova
1138815	MS-0101	7-Oct-14	Total Suspended Solids	2.00	mg/L	Exova
1138815	MS-0101	7-Oct-14	Biochemical Oxygen Demand	<1	mg/L	Exova
1138815	MS-0101	7-Oct-14	N-NH3 (Ammonia)	0.46	mg/L	Exova
1138815	MS-0101	7-Oct-14	Total Kjeldahl Nitrogen	0.98	mg/L	Exova
1138815	MS-0101	7-Oct-14	Total Phosphorus	0.22	mg/L	Exova
1138815	MS-0101	7-Oct-14	Oil & Grease - Total	<1	mg/L	Exova
1139967	MS-0101	14-Oct-14	Faecal Coliforms	0	ct/100mL	Exova
1139972	MS-0101	14-Oct-14	pH	7.35	pH units	Exova
1139972	MS-0101	14-Oct-14	Total Suspended Solids	2.00	mg/L	Exova
1139972	MS-0101	14-Oct-14	Biochemical Oxygen Demand	<1	mg/L	Exova
1139972	MS-0101	14-Oct-14	N-NH3 (Ammonia)	0.32	mg/L	Exova
1139972	MS-0101	14-Oct-14	Total Kjeldahl Nitrogen	1.6	mg/L	Exova
1139972	MS-0101	14-Oct-14	Total Phosphorus	0.42	mg/L	Exova
1139972	MS-0101	14-Oct-14	Oil & Grease - Total	<1	mg/L	Exova
1138821	MS-0102	7-Oct-14	Faecal Coliforms	0	ct/100mL	Exova
1138816	MS-0102	7-Oct-14	pH	6.00	pH units	Exova
1138816	MS-0102	7-Oct-14	Total Suspended Solids	<2	mg/L	Exova
1138816	MS-0102	7-Oct-14	Biochemical Oxygen Demand	<1	mg/L	Exova
1138816	MS-0102	7-Oct-14	N-NH3 (Ammonia)	0.09	mg/L	Exova
1138816	MS-0102	7-Oct-14	Total Kjeldahl Nitrogen	0.25	mg/L	Exova
1138816	MS-0102	7-Oct-14	Total Phosphorus	<0.003	mg/L	Exova
1138816	MS-0102	7-Oct-14	Oil & Grease - Total	<1	mg/L	Exova
1139968	MS-0102	14-Oct-14	Faecal Coliforms	0	ct/100mL	Exova
1139973	MS-0102	14-Oct-14	pH	6.00	pH units	Exova
1139973	MS-0102	14-Oct-14	Total Suspended Solids	<2	mg/L	Exova
1139973	MS-0102	14-Oct-14	Biochemical Oxygen Demand	<1	mg/L	Exova
1139973	MS-0102	14-Oct-14	N-NH3 (Ammonia)	0.04	mg/L	Exova
1139973	MS-0102	14-Oct-14	Total Kjeldahl Nitrogen	<0.10	mg/L	Exova
1139973	MS-0102	14-Oct-14	Total Phosphorus	<0.003	mg/L	Exova
1139973	MS-0102	14-Oct-14	Oil & Grease - Total	<1	mg/L	Exova
1138822	MS-0103	7-Oct-14	Faecal Coliforms	0	ct/100mL	Exova
1138817	MS-0103	7-Oct-14	pH	5.77	pH units	Exova
1138817	MS-0103	7-Oct-14	Total Suspended Solids	<2	mg/L	Exova
1138817	MS-0103	7-Oct-14	Biochemical Oxygen Demand	<1	mg/L	Exova
1138817	MS-0103	7-Oct-14	N-NH3 (Ammonia)	0.11	mg/L	Exova
1138817	MS-0103	7-Oct-14	Total Kjeldahl Nitrogen	0.22	mg/L	Exova
1138817	MS-0103	7-Oct-14	Total Phosphorus	<0.003	mg/L	Exova
1138817	MS-0103	7-Oct-14	Oil & Grease - Total	<1	mg/L	Exova
1139969	MS-0103	14-Oct-14	Faecal Coliforms	0	ct/100mL	Exova
1139974	MS-0103	14-Oct-14	pH	5.87	pH units	Exova
1139974	MS-0103	14-Oct-14	Total Suspended Solids	<2	mg/L	Exova
1139974	MS-0103	14-Oct-14	Biochemical Oxygen Demand	<1	mg/L	Exova
1139974	MS-0103	14-Oct-14	N-NH3 (Ammonia)	0.14	mg/L	Exova
1139974	MS-0103	14-Oct-14	Total Kjeldahl Nitrogen	0.12	mg/L	Exova
1139974	MS-0103	14-Oct-14	Total Phosphorus	<0.003	mg/L	Exova
1139974	MS-0103	14-Oct-14	Oil & Grease - Total	<1	mg/L	Exova

TABLE 2.8

BAFFINLAND IRON MINES CORPORATION
MARY RIVER PROJECT

2014 ANNUAL REPORT TO THE NUNAVUT WATER BOARD
WATER QUALITY RESULTS FOR WATER LICENCE MONITORING LOCATIONS

Sample Number	Sample ID	Date Sampled	Parameter Name	Result	Unit	Lab
Note: Acute lethality to Rainbow trout, Oncorhynchus mykiss (as per Environment Canada's Environmental Protection Series Method EPS/1/RM/13) Acute lethality to Daphnia magna (as per Environment Canada's Environmental Protection Series Method EPS/1/RM/14)						
MILNE PORT						
L1542580-3	MP-01	5-Nov-14	pH	6.76	ct/100mL	Exova
L1542580-3	MP-01	5-Nov-14	Total Suspended Solids	<2.0	pH units	Exova
L1542580-3	MP-01	5-Nov-14	N-NH3 (Ammonia)	0.455	mg/L	Exova
L1542580-3	MP-01	5-Nov-14	Total Kjeldahl Nitrogen	1.73	mg/L	Exova
L1542580-3	MP-01	5-Nov-14	Total Phosphorus	12.2	mg/L	Exova
L1542580-3	MP-01	5-Nov-14	Faecal Coliforms	0	mg/L	Exova
L1542580-3	MP-01	5-Nov-14	Biochemical Oxygen Demand	<2.0	mg/L	Exova
L1542580-3	MP-01	5-Nov-14	Oil & Grease - Total	<2.0	mg/L	Exova
L1545257-1	MP-01	12-Nov-14	pH	7.25	ct/100mL	Exova
L1545257-1	MP-01	12-Nov-14	Total Suspended Solids	<2.0	pH units	Exova
L1545257-1	MP-01	12-Nov-14	N-NH3 (Ammonia)	1.22	mg/L	Exova
L1545257-1	MP-01	12-Nov-14	Total Kjeldahl Nitrogen	2.75	mg/L	Exova
L1545257-1	MP-01	12-Nov-14	Total Phosphorus	13.4	mg/L	Exova
L1545257-1	MP-01	12-Nov-14	Faecal Coliforms	1	mg/L	Exova
L1545257-1	MP-01	12-Nov-14	Biochemical Oxygen Demand	<2.0	mg/L	Exova
L1545257-1	MP-01	12-Nov-14	Oil & Grease - Total	<2.0	mg/L	Exova
L1548269-1	MP-01	19-Nov-14	pH	7.26	pH units	ALS
L1548269-1	MP-01	19-Nov-14	Total Suspended Solids	<2.0	mg/L	ALS
L1548269-1	MP-01	19-Nov-14	N-NH3 (Ammonia)	0.069	mg/L	ALS
L1548269-1	MP-01	19-Nov-14	Total Kjeldahl Nitrogen	0.26	mg/L	ALS
L1548269-1	MP-01	19-Nov-14	Total Phosphorus	16	mg/L	ALS
L1548269-1	MP-01	19-Nov-14	Faecal Coliforms	2	ct/100mL	ALS
L1548269-1	MP-01	19-Nov-14	Biochemical Oxygen Demand	<2.0	mg/L	ALS
L1548269-1	MP-01	19-Nov-14	Oil & Grease - Total	4.6	mg/L	ALS
L1550941-1	MP-01	26-Nov-14	pH	7.25	pH units	ALS
L1550941-1	MP-01	26-Nov-14	Total Suspended Solids	2.40	mg/L	ALS
L1550941-1	MP-01	26-Nov-14	N-NH3 (Ammonia)	0.061	mg/L	ALS
L1550941-1	MP-01	26-Nov-14	Total Kjeldahl Nitrogen	<0.15	mg/L	ALS
L1550941-1	MP-01	26-Nov-14	Total Phosphorus	12.2	mg/L	ALS
L1550941-1	MP-01	26-Nov-14	Faecal Coliforms	2	ct/100mL	ALS
L1550941-1	MP-01	26-Nov-14	Biochemical Oxygen Demand	<2.0	mg/L	ALS
L1550941-1	MP-01	26-Nov-14	Oil & Grease - Total	<2.0	mg/L	ALS
MARY RIVER MINE SITE						
L1542536-1	MS-01	5-Nov-14	pH	7.48	ct/100mL	Exova
L1542536-1	MS-01	5-Nov-14	Total Suspended Solids	2.8	pH units	Exova
L1542536-1	MS-01	5-Nov-14	N-NH3 (Ammonia)	0.38	mg/L	Exova
L1542536-1	MS-01	5-Nov-14	Total Kjeldahl Nitrogen	0.73	mg/L	Exova
L1542536-1	MS-01	5-Nov-14	Total Phosphorus	0.83	mg/L	Exova
L1542536-1	MS-01	5-Nov-14	Faecal Coliforms	0	mg/L	Exova
L1542536-1	MS-01	5-Nov-14	Biochemical Oxygen Demand	<2.0	mg/L	Exova
L1542536-1	MS-01	5-Nov-14	Oil & Grease - Total	2.80	mg/L	Exova
L1542536-3	MS-0101	5-Nov-14	pH	7.23	ct/100mL	Exova
L1542536-3	MS-0101	5-Nov-14	Total Suspended Solids	<2.0	pH units	Exova
L1542536-3	MS-0101	5-Nov-14	N-NH3 (Ammonia)	0.37	mg/L	Exova
L1542536-3	MS-0101	5-Nov-14	Total Kjeldahl Nitrogen	0.82	mg/L	Exova
L1542536-3	MS-0101	5-Nov-14	Total Phosphorus	0.839	mg/L	Exova
L1542536-3	MS-0101	5-Nov-14	Faecal Coliforms	0	mg/L	Exova
L1542536-3	MS-0101	5-Nov-14	Biochemical Oxygen Demand	<2.0	mg/L	Exova
L1542536-3	MS-0101	5-Nov-14	Oil & Grease - Total	<2.0	mg/L	Exova
L1542536-4	MS-0102	5-Nov-14	pH	5.98	pH units	ALS
L1542536-4	MS-0102	5-Nov-14	Total Suspended Solids	<2.0	mg/L	ALS
L1542536-4	MS-0102	5-Nov-14	N-NH3 (Ammonia)	0.06	mg/L	ALS
L1542536-4	MS-0102	5-Nov-14	Total Kjeldahl Nitrogen	<0.15	mg/L	ALS
L1542536-4	MS-0102	5-Nov-14	Total Phosphorus	0.0038	mg/L	ALS
L1542536-4	MS-0102	5-Nov-14	Faecal Coliforms	0	ct/100mL	ALS
L1542536-4	MS-0102	5-Nov-14	Biochemical Oxygen Demand	<2.0	mg/L	ALS
L1542536-4	MS-0102	5-Nov-14	Oil & Grease - Total	<2.0	mg/L	ALS
L1542536-5	MS-0103	5-Nov-14	pH	5.62	pH units	ALS
L1542536-5	MS-0103	5-Nov-14	Total Suspended Solids	<2.0	mg/L	ALS
L1542536-5	MS-0103	5-Nov-14	N-NH3 (Ammonia)	<0.050	mg/L	ALS
L1542536-5	MS-0103	5-Nov-14	Total Kjeldahl Nitrogen	<0.15	mg/L	ALS
L1542536-5	MS-0103	5-Nov-14	Total Phosphorus	<0.0030	mg/L	ALS
L1542536-5	MS-0103	5-Nov-14	Faecal Coliforms	0	ct/100mL	ALS
L1542536-5	MS-0103	5-Nov-14	Biochemical Oxygen Demand	<2.0	mg/L	ALS
L1542536-5	MS-0103	5-Nov-14	Oil & Grease - Total	<2.0	mg/L	ALS
L1545200-1	MS-01	12-Nov-14	pH	7.2	ct/100mL	Exova
L1545200-1	MS-01	12-Nov-14	Total Suspended Solids	2.4	pH units	Exova
L1545200-1	MS-01	12-Nov-14	N-NH3 (Ammonia)	0.57	mg/L	Exova
L1545200-1	MS-01	12-Nov-14	Total Kjeldahl Nitrogen	1.12	mg/L	Exova
L1545200-1	MS-01	12-Nov-14	Total Phosphorus	0.485	mg/L	Exova
L1545200-1	MS-01	12-Nov-14	Faecal Coliforms	0	mg/L	Exova
L1545200-1	MS-01	12-Nov-14	Biochemical Oxygen Demand	<2.0	mg/L	Exova
L1545200-1	MS-01	12-Nov-14	Oil & Grease - Total	<2.0	mg/L	Exova
L1545200-3	MS-0101	12-Nov-14	pH	7.22	ct/100mL	Exova
L1545200-3	MS-0101	12-Nov-14	Total Suspended Solids	2	pH units	Exova
L1545200-3	MS-0101	12-Nov-14	N-NH3 (Ammonia)	0.43	mg/L	Exova
L1545200-3	MS-0101	12-Nov-14	Total Kjeldahl Nitrogen	1.22	mg/L	Exova
L1545200-3	MS-0101	12-Nov-14	Total Phosphorus	0.573	mg/L	Exova
L1545200-3	MS-0101	12-Nov-14	Faecal Coliforms	0	mg/L	Exova
L1545200-3	MS-0101	12-Nov-14	Biochemical Oxygen Demand	<2.0	mg/L	Exova
L1545200-3	MS-0101	12-Nov-14	Oil & Grease - Total	<2.0	mg/L	Exova
L1545200-4	MS-0102	12-Nov-14	pH	5.72	ct/100mL	Exova
L1545200-4	MS-0102	12-Nov-14	Total Suspended Solids	<2.0	pH units	Exova
L1545200-4	MS-0102	12-Nov-14	N-NH3 (Ammonia)	<0.050	mg/L	Exova
L1545200-4	MS-0102	12-Nov-14	Total Kjeldahl Nitrogen	<0.15	mg/L	Exova
L1545200-4	MS-0102	12-Nov-14	Total Phosphorus	<0.0030	mg/L	Exova
L1545200-4	MS-0102	12-Nov-14	Faecal Coliforms	0	mg/L	Exova
L1545200-4	MS-0102	12-Nov-14	Biochemical Oxygen Demand	<2.0	mg/L	Exova
L1545200-4	MS-0102	12-Nov-14	Oil & Grease - Total	<2.0	mg/L	Exova
L1545200-5	MS-0103	12-Nov-14	pH	5.63	ct/100mL	Exova
L1545200-5	MS-0103	12-Nov-14	Total Suspended Solids	<2.0	pH units	Exova
L1545200-5	MS-0103	12-Nov-14	N-NH3 (Ammonia)	<0.050	mg/L	Exova
L1545200-5	MS-0103	12-Nov-14	Total Kjeldahl Nitrogen	<0.15	mg/L	Exova
L1545200-5	MS-0103	12-Nov-14	Total Phosphorus	<0.0030	mg/L	Exova
L1545200-5	MS-0103	12-Nov-14	Faecal Coliforms	0	mg/L	Exova
L1545200-5	MS-0103	12-Nov-14	Biochemical Oxygen Demand	<2.0	mg/L	Exova
L1545200-5	MS-0103	12-Nov-14	Oil & Grease - Total	<2.0	mg/L	Exova
L1548249-1	MS-01	19-Nov-14	pH	7.10	ct/100mL	Exova
L1548249-1	MS-01	19-Nov-14	Total Suspended Solids	4.40	pH units	Exova
L1548249-1	MS-01	19-Nov-14	N-NH3 (Ammonia)	0.38	mg/L	Exova
L1548249-1	MS-01	19-Nov-14	Total Kjeldahl Nitrogen	1.09	mg/L	Exova
L1548249-1	MS-01	19-Nov-14	Total Phosphorus	0.775	mg/L	Exova
L1548249-1	MS-01	19-Nov-14	Faecal Coliforms	0	mg/L	Exova
L1548249-1	MS-01	19-Nov-14	Biochemical Oxygen Demand	<2.0	mg/L	Exova
L1548249-1	MS-01	19-Nov-14	Oil & Grease - Total	<2.0	mg/L	Exova
L1550927-1	MS-01	26-Nov-14	pH	7.25	ct/100mL	Exova
L1550927-1	MS-01	26-Nov-14	Total Suspended Solids	3.6	pH units	Exova
L1550927-1	MS-01	26-Nov-14	N-NH3 (Ammonia)	0.47	mg/L	Exova
L1550927-1	MS-01	26-Nov-14	Total Kjeldahl Nitrogen	1.1	mg/L	Exova
L1550927-1	MS-01	26-Nov-14	Total Phosphorus	0.356	mg/L	Exova
L1550927-1	MS-01	26-Nov-14	Faecal Coliforms	0	mg/L	Exova
L1550927-1	MS-01	26-Nov-14	Biochemical Oxygen Demand	<2.0	mg/L	Exova
L1550927-1	MS-01	26-Nov-14	Oil & Grease - Total	<2.0	mg/L	Exova
MILNE PORT SITE						
L1553754-1	MP-01	3-Dec-14	pH	7.33	pH units	Exova
L1553754-1	MP-01	3-Dec-14	Total Suspended Solids	<2.0	mg/L	Exova
L1553754-1	MP-01	3-Dec-14	N-NH3 (Ammonia)	0.262	mg/L	Exova
L1553754-1	MP-01	3-Dec-14	Total Kjeldahl Nitrogen	1.8	mg/L	Exova
L1553754-1	MP-01	3-Dec-14	Total Phosphorus	16.5	mg/L	Exova
L1553754-1	MP-01	3-Dec-14	Faecal Coliforms	10	ct/100mL	Exova
L1553754-1	MP-01	3-Dec-14	Biochemical Oxygen Demand	<2.0	mg/L	Exova
L1553754-1	MP-01	3-Dec-14	Oil & Grease - Total	<2.0	mg/L	Exova

TABLE 2.8

BAFFINLAND IRON MINES CORPORATION
MARY RIVER PROJECT

2014 ANNUAL REPORT TO THE NUNAVUT WATER BOARD
WATER QUALITY RESULTS FOR WATER LICENCE MONITORING LOCATIONS

Sample Number	Sample ID	Date Sampled	Parameter Name	Result	Unit	Lab
L1557624-5	MP-01	11-Dec-14	pH	7.20	pH units	Exova
L1557624-5	MP-01	11-Dec-14	Total Suspended Solids	<2.0	mg/L	Exova
L1557624-5	MP-01	11-Dec-14	N-NH3 (Ammonia)	0.404	mg/L	Exova
L1557624-5	MP-01	11-Dec-14	Total Kjeldahl Nitrogen	<0.15	mg/L	Exova
L1557624-5	MP-01	11-Dec-14	Total Phosphorus	15.1	mg/L	Exova
L1557624-5	MP-01	11-Dec-14	Faecal Coliforms	2	ct/100mL	Exova
L1557624-5	MP-01	11-Dec-14	Biochemical Oxygen Demand	<2.0	mg/L	Exova
L1557624-5	MP-01	11-Dec-14	Oil & Grease - Total	<2.0	mg/L	Exova
L1559303-1	MP-01	17-Dec-14	pH	7.34	pH units	Exova
L1559303-1	MP-01	17-Dec-14	Total Suspended Solids	4.8	mg/L	Exova
L1559303-1	MP-01	17-Dec-14	N-NH3 (Ammonia)	0.221	mg/L	Exova
L1559303-1	MP-01	17-Dec-14	Total Kjeldahl Nitrogen	<0.15	mg/L	Exova
L1559303-1	MP-01	17-Dec-14	Total Phosphorus	14.3	mg/L	Exova
L1559303-1	MP-01	17-Dec-14	Faecal Coliforms	0	ct/100mL	Exova
L1559303-1	MP-01	17-Dec-14	Biochemical Oxygen Demand	<2.0	mg/L	Exova
L1559303-1	MP-01	17-Dec-14	Oil & Grease - Total	<2.0	mg/L	Exova
L1562250-1	MP-01	25-Dec-14	pH	7.63	pH units	Exova
L1562250-1	MP-01	25-Dec-14	Total Suspended Solids	<2.0	mg/L	Exova
L1562250-1	MP-01	25-Dec-14	N-NH3 (Ammonia)	0.344	mg/L	Exova
L1562250-1	MP-01	25-Dec-14	Total Kjeldahl Nitrogen	1.38	mg/L	Exova
L1562250-1	MP-01	25-Dec-14	Total Phosphorus	13.5	mg/L	Exova
L1562250-1	MP-01	25-Dec-14	Faecal Coliforms	0	ct/100mL	Exova
L1562250-1	MP-01	25-Dec-14	Biochemical Oxygen Demand	<2.0	mg/L	Exova
L1562250-1	MP-01	25-Dec-14	Oil & Grease - Total	<2.0	mg/L	Exova
MARY RIVER MINE SITE						
L1553733-1	MS-01	3-Dec-14	pH	7.42	pH units	ALS
L1553733-1	MS-01	3-Dec-14	Total Suspended Solids	<2.0	mg/L	ALS
L1553733-1	MS-01	3-Dec-14	N-NH3 (Ammonia)	0.45	mg/L	ALS
L1553733-1	MS-01	3-Dec-14	Total Kjeldahl Nitrogen	1.55	mg/L	ALS
L1553733-1	MS-01	3-Dec-14	Total Phosphorus	0.872	mg/L	ALS
L1553733-1	MS-01	3-Dec-14	Faecal Coliforms	0	ct/100mL	ALS
L1553733-1	MS-01	3-Dec-14	Biochemical Oxygen Demand	<2.0	mg/L	ALS
L1553733-1	MS-01	3-Dec-14	Oil & Grease - Total	<2.0	mg/L	ALS
L1557168-1	MS-01	11-Dec-14	pH	7.04	pH units	ALS
L1557168-1	MS-01	11-Dec-14	Total Suspended Solids	4.8	mg/L	ALS
L1557168-1	MS-01	11-Dec-14	N-NH3 (Ammonia)	0.33	mg/L	ALS
L1557168-1	MS-01	11-Dec-14	Total Kjeldahl Nitrogen	0.29	mg/L	ALS
L1557168-1	MS-01	11-Dec-14	Total Phosphorus	0.812	mg/L	ALS
L1557168-1	MS-01	11-Dec-14	Faecal Coliforms	0	ct/100mL	ALS
L1557168-1	MS-01	11-Dec-14	Biochemical Oxygen Demand	<2.0	mg/L	ALS
L1557168-1	MS-01	11-Dec-14	Oil & Grease - Total	<2.0	mg/L	ALS
L1559251-1	MS-01	17-Dec-14	pH	7.28	pH units	ALS
L1559251-1	MS-01	17-Dec-14	Total Suspended Solids	2.4	mg/L	ALS
L1559251-1	MS-01	17-Dec-14	N-NH3 (Ammonia)	0.32	mg/L	ALS
L1559251-1	MS-01	17-Dec-14	Total Kjeldahl Nitrogen	<0.15	mg/L	ALS
L1559251-1	MS-01	17-Dec-14	Total Phosphorus	0.222	mg/L	ALS
L1559251-1	MS-01	17-Dec-14	Faecal Coliforms	0	ct/100mL	ALS
L1559251-1	MS-01	17-Dec-14	Biochemical Oxygen Demand	<2.0	mg/L	ALS
L1559251-1	MS-01	17-Dec-14	Oil & Grease - Total	<2.0	mg/L	ALS
L1562249-1	MS-01	25-Dec-14	pH	7.51	pH units	ALS
L1562249-1	MS-01	25-Dec-14	Total Suspended Solids	2.4	mg/L	ALS
L1562249-1	MS-01	25-Dec-14	N-NH3 (Ammonia)	0.42	mg/L	ALS
L1562249-1	MS-01	25-Dec-14	Total Kjeldahl Nitrogen	0.93	mg/L	ALS
L1562249-1	MS-01	25-Dec-14	Total Phosphorus	0.151	mg/L	ALS
L1562249-1	MS-01	25-Dec-14	Faecal Coliforms	0	ct/100mL	ALS
L1562249-1	MS-01	25-Dec-14	Biochemical Oxygen Demand	<2.0	mg/L	ALS
L1562249-1	MS-01	25-Dec-14	Oil & Grease - Total	<6.0	mg/L	ALS

Note: Acute lethality to Rainbow trout, *Oncorhynchus mykiss* (as per Environment Canada's Environmental Protection Series Method EPS/1/RM/13)
Acute lethality to *Daphnia magna* (as per Environment Canada's Environmental Protection Series Method EPS/1/RM/14)

TABLE 2.9

BAFFINLAND IRON MINES CORPORATION
MARY RIVER PROJECT

2014 QIA AND NWB ANNUAL REPORT
TOXICITY MONITORING RESULTS FOR WATER LICENCE MONITORING LOCATIONS

Sample Number	Sample ID	Date Sampled	Toxicity Test	Result	Lab
1084752	MP-01	28-Jan-14	Rainbow Trout	Non Lethal	Exova
1084752	MP-01	28-Jan-14	Daphnia	Non Lethal	Exova
1084737	MS-01	28-Jan-14	Rainbow Trout	Non Lethal	Exova
1084737	MS-01	28-Jan-14	Daphnia	Non Lethal	Exova
1110131	MS-MRY-4C	10-Jun-14	Rainbow Trout	Non Lethal	Exova
1110131	MS-MRY-4C	10-Jun-14	Daphnia	Non Lethal	Exova
1115683	MP-C-B01	30-Jun-14	Rainbow Trout	Non Lethal	Exova
1115683	MP-C-B01	30-Jun-14	Daphnia	Non Lethal	Exova
1115680	MQ-C-B	1-Jul-14	Rainbow Trout	Non Lethal	Exova
1115680	MQ-C-B	1-Jul-14	Daphnia	Non Lethal	Exova
1119764	MP-01A	14-Jul-14	Rainbow Trout	Non Lethal	Exova
1119764	MP-01A	14-Jul-14	Daphnia	Non Lethal	Exova
1121562	MQ-C-B	21-Jul-14	Rainbow Trout	Non Lethal	Exova
1121562	MQ-C-B	21-Jul-14	Daphnia	Non Lethal	Exova
1121575	MP-C-B01	22-Jul-14	Rainbow Trout	Non Lethal	Exova
1121575	MP-C-B01	22-Jul-14	Daphnia	Non Lethal	Exova
1122823	MS-MRY-09	28-Jul-14	Rainbow Trout	Non Lethal	Exova
1122823	MS-MRY-09	28-Jul-14	Daphnia	Non Lethal	Exova
1122822	MQ-C-B	28-Jul-14	Rainbow Trout	Non Lethal	Exova
1122822	MQ-C-B	28-Jul-14	Daphnia	Non Lethal	Exova
LH14-041-06	MP-C-B	11-Aug-14	Rainbow Trout	Non Lethal	ALS
LH14-041-06	MP-C-B	11-Aug-14	Daphnia	Non Lethal	ALS
LH14-041-07	MQ-C-B	12-Aug-14	Rainbow Trout	Non Lethal	ALS
LH14-041-07	MQ-C-B	12-Aug-14	Daphnia	Non Lethal	ALS
LH14-041-08	MP-Q1-02	18-Aug-14	Rainbow Trout	Non Lethal	ALS
LH14-041-08	MP-Q1-02	18-Aug-14	Daphnia	Non Lethal	ALS
LH14-041-11	MS-MRY-11-TP3	1-Sep-14	Rainbow Trout	Non Lethal	ALS
LH14-041-11	MS-MRY-11-TP3	1-Sep-14	Daphnia	Non Lethal	ALS
LH14-041-10	MQ-C-B	1-Sep-14	Rainbow Trout	Non Lethal	ALS
LH14-041-10	MQ-C-B	1-Sep-14	Daphnia	Non Lethal	ALS
LH14-041-12	MP-C-B	8-Sep-14	Rainbow Trout	Non Lethal	ALS
LH14-041-12	MP-C-B	8-Sep-14	Daphnia	Non Lethal	ALS

TABLE 2.8

**BAFFINLAND IRON MINES CORPORATION
MARY RIVER PROJECT**

**2014 QIA AND NWB ANNUAL REPORT
FIELD QA/QC WATER QUALITY DATA ANALYSIS**

DUPLICATES

Sample Number	Sample ID	Date Sampled	Parameter Name	Result	Unit	Lab
1080947	MP-01	2-Jan-14	Biochemical Oxygen Demand	2	mg/L	Exova
1080951	MP-01	2-Jan-14	Faecal Coliforms	0	ct/100mL	Exova
1080947	MP-01	2-Jan-14	Total Kjeldahl Nitrogen	0.32	mg/L	Exova
1080947	MP-01	2-Jan-14	N-NH3 (Ammonia)	0.19	mg/L	Exova
1080947	MP-01	2-Jan-14	Oil & Grease - Total	<1	mg/L	Exova
1080947	MP-01	2-Jan-14	Total Suspended Solids	<2	mg/L	Exova
1080947	MP-01	2-Jan-14	pH	7.82	pH units	Exova
1080948	MP-0101	2-Jan-14	Biochemical Oxygen Demand	2	mg/L	Exova
1080952	MP-0101	2-Jan-14	Faecal Coliforms	0	ct/100mL	Exova
1080948	MP-0101	2-Jan-14	Total Kjeldahl Nitrogen	0.26	mg/L	Exova
1080948	MP-0101	2-Jan-14	N-NH3 (Ammonia)	0.11	mg/L	Exova
1080948	MP-0101	2-Jan-14	Oil & Grease - Total	<1	mg/L	Exova
1080948	MP-0101	2-Jan-14	Total Suspended Solids	<2	mg/L	Exova
1080948	MP-0101	2-Jan-14	pH	7.84	pH units	Exova
1089633	MS-01	25-Feb-14	Biochemical Oxygen Demand	2	mg/L	Exova
1089636	MS-01	25-Feb-14	Faecal Coliforms	0	ct/100mL	Exova
1089633	MS-01	25-Feb-14	Total Kjeldahl Nitrogen	0.32	mg/L	Exova
1089633	MS-01	25-Feb-14	N-NH3 (Ammonia)	0.31	mg/L	Exova
1089633	MS-01	25-Feb-14	Oil & Grease - Total	2	mg/L	Exova
1089633	MS-01	25-Feb-14	Total Phosphorus	0.13	mg/L	Exova
1089633	MS-01	25-Feb-14	Total Suspended Solids	2	mg/L	Exova
1089633	MS-01	25-Feb-14	pH	7.78	pH units	Exova
1089634	MS-0101	25-Feb-14	Biochemical Oxygen Demand	<1	mg/L	Exova
1089637	MS-0101	25-Feb-14	Faecal Coliforms	0	ct/100mL	Exova
1089634	MS-0101	25-Feb-14	Total Kjeldahl Nitrogen	0.48	mg/L	Exova
1089634	MS-0101	25-Feb-14	N-NH3 (Ammonia)	0.4	mg/L	Exova
1089634	MS-0101	25-Feb-14	Oil & Grease - Total	<1	mg/L	Exova
1089634	MS-0101	25-Feb-14	Total Phosphorus	0.16	mg/L	Exova
1089634	MS-0101	25-Feb-14	Total Suspended Solids	4	mg/L	Exova
1089634	MS-0101	25-Feb-14	pH	7.70	pH units	Exova
1090481	MS-01	4-Mar-14	Biochemical Oxygen Demand	2	mg/L	Exova
1090487	MS-01	4-Mar-14	Faecal Coliforms	3	ct/100mL	Exova
1090481	MS-01	4-Mar-14	Total Kjeldahl Nitrogen	0.94	mg/L	Exova
1090481	MS-01	4-Mar-14	N-NH3 (Ammonia)	0.14	mg/L	Exova
1090481	MS-01	4-Mar-14	Oil & Grease - Total	<1	mg/L	Exova
1090481	MS-01	4-Mar-14	Total Phosphorus	0.2	mg/L	Exova
1090481	MS-01	4-Mar-14	Total Suspended Solids	5	mg/L	Exova
1090481	MS-01	4-Mar-14	pH	7.86	pH units	Exova
1090484	MS-0101	4-Mar-14	Biochemical Oxygen Demand	1	mg/L	Exova
1090489	MS-0101	4-Mar-14	Faecal Coliforms	1	ct/100mL	Exova
1090484	MS-0101	4-Mar-14	Total Kjeldahl Nitrogen	1.95	mg/L	Exova
1090484	MS-0101	4-Mar-14	N-NH3 (Ammonia)	1.68	mg/L	Exova
1090484	MS-0101	4-Mar-14	Oil & Grease - Total	<1	mg/L	Exova
1090484	MS-0101	4-Mar-14	Total Phosphorus	0.24	mg/L	Exova
1090484	MS-0101	4-Mar-14	Total Suspended Solids	4	mg/L	Exova
1090484	MS-0101	4-Mar-14	pH	7.09	pH units	Exova
1114152	MP-C-B01	23-Jun-14	Conductivity	184	uS/cm	Exova
1114152	MP-C-B01	23-Jun-14	N-NO3	0.55	mg/L	Exova
1114152	MP-C-B01	23-Jun-14	pH	8.22	pH units	Exova
1114152	MP-C-B01	23-Jun-14	Total Suspended Solids	11	mg/L	Exova
1114152	MP-C-B01	23-Jun-14	Oil & Grease - Total	1	mg/L	Exova
1114152	MP-C-B01	23-Jun-14	N-NH3 (Ammonia)	0.1	mg/L	Exova
1114153	MP-C-B0101	23-Jun-14	Conductivity	183	uS/cm	Exova
1114153	MP-C-B0101	23-Jun-14	N-NO3	0.56	mg/L	Exova
1114153	MP-C-B0101	23-Jun-14	pH	8.21	pH units	Exova
1114153	MP-C-B0101	23-Jun-14	Total Suspended Solids	6	mg/L	Exova
1114153	MP-C-B0101	23-Jun-14	Oil & Grease - Total	2	mg/L	Exova
1114153	MP-C-B0101	23-Jun-14	N-NH3 (Ammonia)	0.12	mg/L	Exova

TABLE 2.8

**BAFFINLAND IRON MINES CORPORATION
MARY RIVER PROJECT**

**2014 QIA AND NWB ANNUAL REPORT
FIELD QA/QC WATER QUALITY DATA ANALYSIS**

DUPLICATES

Sample Number	Sample ID	Date Sampled	Parameter Name	Result	Unit	Lab
1115662	MP-Q1-01	30-Jun-14	Conductivity	128	uS/cm	Exova
1115662	MP-Q1-01	30-Jun-14	N-NO3	0.16	mg/L	Exova
1115662	MP-Q1-01	30-Jun-14	pH	7.94	pH units	Exova
1115662	MP-Q1-01	30-Jun-14	Total Suspended Solids	<2	mg/L	Exova
1115662	MP-Q1-01	30-Jun-14	Oil & Grease - Total	6	mg/L	Exova
1115662	MP-Q1-01	30-Jun-14	N-NH3 (Ammonia)	<0.02	mg/L	Exova
1115663	MP-Q1-0101	30-Jun-14	Conductivity	128	uS/cm	Exova
1115663	MP-Q1-0101	30-Jun-14	N-NO3	0.12	mg/L	Exova
1115663	MP-Q1-0101	30-Jun-14	pH	7.94	pH units	Exova
1115663	MP-Q1-0101	30-Jun-14	Total Suspended Solids	2	mg/L	Exova
1115663	MP-Q1-0101	30-Jun-14	Oil & Grease - Total	<0.02	mg/L	Exova
1115663	MP-Q1-0101	30-Jun-14	N-NH3 (Ammonia)	3	mg/L	Exova
1117741	MP-Q1-01	7-Jul-14	pH	7.99	pH units	Exova
1117741	MP-Q1-01	7-Jul-14	Total Suspended Solids	<2	mg/L	Exova
1117741	MP-Q1-01	7-Jul-14	Oil & Grease - Total	<1	mg/L	Exova
1117742	MP-Q1-0101	7-Jul-14	pH	8.04	pH units	Exova
1117742	MP-Q1-0101	7-Jul-14	Total Suspended Solids	<2	mg/L	Exova
1117742	MP-Q1-0101	7-Jul-14	Oil & Grease - Total	<1	mg/L	Exova
1121349	MQ-C-A	21-Jul-14	Conductivity	233	uS/cm	Exova
1121349	MQ-C-A	21-Jul-14	N-NO3	<0.10	mg/L	Exova
1121349	MQ-C-A	21-Jul-14	pH	8.15	pH units	Exova
1121349	MQ-C-A	21-Jul-14	Total Suspended Solids	<2	mg/L	Exova
1121349	MQ-C-A	21-Jul-14	Oil & Grease - Total	<1	mg/L	Exova
1121349	MQ-C-A	21-Jul-14	N-NH3 (Ammonia)	0.13	mg/L	Exova
1121338	MQ-C-A01	21-Jul-14	Conductivity	234	uS/cm	Exova
1121338	MQ-C-A01	21-Jul-14	N-NO3	<0.10	mg/L	Exova
1121338	MQ-C-A01	21-Jul-14	pH	8.09	pH units	Exova
1121338	MQ-C-A01	21-Jul-14	Total Suspended Solids	<2	mg/L	Exova
1121338	MQ-C-A01	21-Jul-14	Oil & Grease - Total	<1	mg/L	Exova
1121338	MQ-C-A01	21-Jul-14	N-NH3 (Ammonia)	0.03	mg/L	Exova
1121696	MP-Q1-01	22-Jul-14	pH	8.07	pH units	Exova
1121696	MP-Q1-01	22-Jul-14	Total Suspended Solids	<2	mg/L	Exova
1121696	MP-Q1-01	22-Jul-14	Oil & Grease - Total	2	mg/L	Exova
1121697	MP-Q1-0101	22-Jul-14	pH	8.1	pH units	Exova
1121697	MP-Q1-0101	22-Jul-14	Total Suspended Solids	<2	mg/L	Exova
1121697	MP-Q1-0101	22-Jul-14	Oil & Grease - Total	1	mg/L	Exova
1122832	MQ-C-A	28-Jul-14	Conductivity	249	uS/cm	Exova
1122832	MQ-C-A	28-Jul-14	N-NO3	<0.10	mg/L	Exova
1122832	MQ-C-A	28-Jul-14	pH	8.23	pH units	Exova
1122832	MQ-C-A	28-Jul-14	Total Suspended Solids	<2	mg/L	Exova
1122832	MQ-C-A	28-Jul-14	Oil & Grease - Total	<1	mg/L	Exova
1122832	MQ-C-A	28-Jul-14	N-NH3 (Ammonia)	0.03	mg/L	Exova
1122833	MQ-C-A01	28-Jul-14	Conductivity	249	uS/cm	Exova
1122833	MQ-C-A01	28-Jul-14	N-NO3	<0.10	mg/L	Exova
1122833	MQ-C-A01	28-Jul-14	pH	8.25	pH units	Exova
1122833	MQ-C-A01	28-Jul-14	Total Suspended Solids	<2	mg/L	Exova
1122833	MQ-C-A01	28-Jul-14	Oil & Grease - Total	<1	mg/L	Exova
1122833	MQ-C-A01	28-Jul-14	N-NH3 (Ammonia)	0.03	mg/L	Exova
1126305	MS-C-A	12-Aug-14	Conductivity	153	uS/cm	Exova
1126305	MS-C-A	12-Aug-14	N-NO3	0.17	mg/L	Exova
1126305	MS-C-A	12-Aug-14	pH	7.36	pH units	Exova
1126305	MS-C-A	12-Aug-14	Total Suspended Solids	<2	mg/L	Exova
1126305	MS-C-A	12-Aug-14	Oil & Grease - Total	2	mg/L	Exova
1126305	MS-C-A	12-Aug-14	N-NH3 (Ammonia)	0.15	mg/L	Exova
1126310	MQ-C-A01	12-Aug-14	Conductivity	154	uS/cm	Exova
1126310	MQ-C-A01	12-Aug-14	N-NO3	0.17	mg/L	Exova
1126310	MQ-C-A01	12-Aug-14	pH	7.38	pH units	Exova

TABLE 2.8

**BAFFINLAND IRON MINES CORPORATION
MARY RIVER PROJECT**

**2014 QIA AND NWB ANNUAL REPORT
FIELD QA/QC WATER QUALITY DATA ANALYSIS**

DUPLICATES

Sample Number	Sample ID	Date Sampled	Parameter Name	Result	Unit	Lab
1126310	MQ-C-A01	12-Aug-14	Total Suspended Solids	<2	mg/L	Exova
1126310	MQ-C-A01	12-Aug-14	Oil & Grease - Total	<1	mg/L	Exova
1126310	MQ-C-A01	12-Aug-14	N-NH3 (Ammonia)	0.04	mg/L	Exova
1127609	MQ-C-A	18-Aug-14	Conductivity	285	uS/cm	Exova
1127609	MQ-C-A	18-Aug-14	N-NO3	<0.10	mg/L	Exova
1127609	MQ-C-A	18-Aug-14	pH	8.17	pH units	Exova
1127609	MQ-C-A	18-Aug-14	Total Suspended Solids	<2	mg/L	Exova
1127609	MQ-C-A	18-Aug-14	Oil & Grease - Total	<1	mg/L	Exova
1127609	MQ-C-A	18-Aug-14	N-NH3 (Ammonia)	0.10	mg/L	Exova
1127612	MQ-C-A01	18-Aug-14	Conductivity	284	uS/cm	Exova
1127612	MQ-C-A01	18-Aug-14	N-NO3	<0.10	mg/L	Exova
1127612	MQ-C-A01	18-Aug-14	pH	8.12	pH units	Exova
1127612	MQ-C-A01	18-Aug-14	Total Suspended Solids	<2	mg/L	Exova
1127612	MQ-C-A01	18-Aug-14	Oil & Grease - Total	<1	mg/L	Exova
1127612	MQ-C-A01	18-Aug-14	N-NH3 (Ammonia)	0.16	mg/L	Exova
1129688	MS-C-B	27-Aug-14	Conductivity	171	uS/cm	Exova
1129688	MS-C-B	27-Aug-14	N-NO3	0.21	mg/L	Exova
1129688	MS-C-B	27-Aug-14	pH	8.05	pH units	Exova
1129688	MS-C-B	27-Aug-14	Total Suspended Solids	<2	mg/L	Exova
1129688	MS-C-B	27-Aug-14	Oil & Grease - Total	<1	mg/L	Exova
1129688	MS-C-B	27-Aug-14	N-NH3 (Ammonia)	0.09	mg/L	Exova
1129695	MS-C-B01	27-Aug-14	Conductivity	174	uS/cm	Exova
1129695	MS-C-B01	27-Aug-14	N-NO3	0.20	mg/L	Exova
1129695	MS-C-B01	27-Aug-14	pH	8.07	pH units	Exova
1129695	MS-C-B01	27-Aug-14	Total Suspended Solids	<2	mg/L	Exova
1129695	MS-C-B01	27-Aug-14	Oil & Grease - Total	<1	mg/L	Exova
1129695	MS-C-B01	27-Aug-14	N-NH3 (Ammonia)	0.02	mg/L	Exova
1130469	MP-C-B01	1-Sep-14	pH	8.30	pH units	Exova
1130469	MP-C-B01	1-Sep-14	Total Suspended Solids	<2	mg/L	Exova
1130469	MP-C-B01	1-Sep-14	Oil & Grease - Total	<1	mg/L	Exova
1130470	MP-C-B0101	1-Sep-14	pH	8.30	pH units	Exova
1130470	MP-C-B0101	1-Sep-14	Total Suspended Solids	<2	mg/L	Exova
1130470	MP-C-B0101	1-Sep-14	Oil & Grease - Total	<1	mg/L	Exova
1130455	MS-C-F	1-Sep-14	pH	8.13	pH units	Exova
1130455	MS-C-F	1-Sep-14	Total Suspended Solids	<2	mg/L	Exova
1130455	MS-C-F	1-Sep-14	Oil & Grease - Total	<1	mg/L	Exova
1130458	MS-C-F01	1-Sep-14	pH	8.08	pH units	Exova
1130458	MS-C-F01	1-Sep-14	Total Suspended Solids	<2	mg/L	Exova
1130458	MS-C-F01	1-Sep-14	Oil & Grease - Total	3	mg/L	Exova
1132580	MS-C-G	8-Sep-14	Conductivity	191	uS/cm	Exova
1132580	MS-C-G	8-Sep-14	N-NO3	0.11	mg/L	Exova
1132580	MS-C-G	8-Sep-14	pH	7.97	pH units	Exova
1132580	MS-C-G	8-Sep-14	Total Suspended Solids	<2	mg/L	Exova
1132580	MS-C-G	8-Sep-14	Oil & Grease - Total	<1	mg/L	Exova
1132580	MS-C-G	8-Sep-14	N-NH3 (Ammonia)	0.16	mg/L	Exova
1132582	MS-C-G01	8-Sep-14	Conductivity	189	uS/cm	Exova
1132582	MS-C-G01	8-Sep-14	N-NO3	<0.10	mg/L	Exova
1132582	MS-C-G01	8-Sep-14	pH	8.08	pH units	Exova
1132582	MS-C-G01	8-Sep-14	Total Suspended Solids	<2	mg/L	Exova
1132582	MS-C-G01	8-Sep-14	Oil & Grease - Total	<1	mg/L	Exova
1132582	MS-C-G01	8-Sep-14	N-NH3 (Ammonia)	0.11	mg/L	Exova
1132591	MP-01	9-Sep-14	Biochemical Oxygen Demand	1	mg/L	Exova
1132587	MP-01	9-Sep-14	Faecal Coliforms	0	ct/100mL	Exova
1132591	MP-01	9-Sep-14	Total Kjeldahl Nitrogen	5.34	mg/L	Exova
1132591	MP-01	9-Sep-14	N-NH3 (Ammonia)	3.90	mg/L	Exova
1132591	MP-01	9-Sep-14	Oil & Grease - Total	<1	mg/L	Exova
1132591	MP-01	9-Sep-14	Total Suspended Solids	2	mg/L	Exova
1132591	MP-01	9-Sep-14	pH	7.86	pH units	Exova

TABLE 2.8

**BAFFINLAND IRON MINES CORPORATION
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**2014 QIA AND NWB ANNUAL REPORT
FIELD QA/QC WATER QUALITY DATA ANALYSIS**

DUPLICATES

Sample Number	Sample ID	Date Sampled	Parameter Name	Result	Unit	Lab
1132592	MP-0101	9-Sep-14	Biochemical Oxygen Demand	<1	mg/L	Exova
1132588	MP-0101	9-Sep-14	Faecal Coliforms	0	ct/100mL	Exova
1132592	MP-0101	9-Sep-14	Total Kjeldahl Nitrogen	5.70	mg/L	Exova
1132592	MP-0101	9-Sep-14	N-NH3 (Ammonia)	4.02	mg/L	Exova
1132592	MP-0101	9-Sep-14	Oil & Grease - Total	<1	mg/L	Exova
1132592	MP-0101	9-Sep-14	Total Suspended Solids	<2	mg/L	Exova
1132592	MP-0101	9-Sep-14	pH	7.83	pH units	Exova
1138818	MS-01	7-Oct-14	Faecal Coliforms	0	ct/100mL	Exova
1138812	MS-01	7-Oct-14	pH	7.27	pH units	Exova
1138812	MS-01	7-Oct-14	Total Suspended Solids	<2	mg/L	Exova
1138812	MS-01	7-Oct-14	Biochemical Oxygen Demand	1	mg/L	Exova
1138812	MS-01	7-Oct-14	N-NH3 (Ammonia)	0.52	mg/L	Exova
1138812	MS-01	7-Oct-14	Total Kjeldahl Nitrogen	0.82	mg/L	Exova
1138812	MS-01	7-Oct-14	Total Phosphorus	0.21	mg/L	Exova
1138812	MS-01	7-Oct-14	Oil & Grease - Total	<1	mg/L	Exova
1138820	MS-0101	7-Oct-14	Faecal Coliforms	0	ct/100mL	Exova
1138815	MS-0101	7-Oct-14	pH	7.18	pH units	Exova
1138815	MS-0101	7-Oct-14	Total Suspended Solids	2.00	mg/L	Exova
1138815	MS-0101	7-Oct-14	Biochemical Oxygen Demand	<1	mg/L	Exova
1138815	MS-0101	7-Oct-14	N-NH3 (Ammonia)	0.46	mg/L	Exova
1138815	MS-0101	7-Oct-14	Total Kjeldahl Nitrogen	0.98	mg/L	Exova
1138815	MS-0101	7-Oct-14	Total Phosphorus	0.22	mg/L	Exova
1138815	MS-0101	7-Oct-14	Oil & Grease - Total	<1	mg/L	Exova
1139965	MS-01	14-Oct-14	Faecal Coliforms	0	ct/100mL	Exova
1139970	MS-01	14-Oct-14	pH	7.48	pH units	Exova
1139970	MS-01	14-Oct-14	Total Suspended Solids	<2	mg/L	Exova
1139970	MS-01	14-Oct-14	Biochemical Oxygen Demand	<1	mg/L	Exova
1139970	MS-01	14-Oct-14	N-NH3 (Ammonia)	0.38	mg/L	Exova
1139970	MS-01	14-Oct-14	Total Kjeldahl Nitrogen	1.2	mg/L	Exova
1139970	MS-01	14-Oct-14	Total Phosphorus	0	mg/L	Exova
1139970	MS-01	14-Oct-14	Oil & Grease - Total	<1	mg/L	Exova
1139967	MS-0101	14-Oct-14	Faecal Coliforms	0	ct/100mL	Exova
1139972	MS-0101	14-Oct-14	pH	7.35	pH units	Exova
1139972	MS-0101	14-Oct-14	Total Suspended Solids	2.00	mg/L	Exova
1139972	MS-0101	14-Oct-14	Biochemical Oxygen Demand	<1	mg/L	Exova
1139972	MS-0101	14-Oct-14	N-NH3 (Ammonia)	0.32	mg/L	Exova
1139972	MS-0101	14-Oct-14	Total Kjeldahl Nitrogen	1.6	mg/L	Exova
1139972	MS-0101	14-Oct-14	Total Phosphorus	0.42	mg/L	Exova
1139972	MS-0101	14-Oct-14	Oil & Grease - Total	<1	mg/L	Exova
L1542536-1	MS-01	5-Nov-14	pH	7.48	pH units	ALS
L1542536-1	MS-01	5-Nov-14	Total Suspended Solids	2.8	mg/L	ALS
L1542536-1	MS-01	5-Nov-14	N-NH3 (Ammonia)	0.38	mg/L	ALS
L1542536-1	MS-01	5-Nov-14	Total Kjeldahl Nitrogen	0.73	mg/L	ALS
L1542536-1	MS-01	5-Nov-14	Total Phosphorus	0.83	mg/L	ALS
L1542536-1	MS-01	5-Nov-14	Faecal Coliforms	0	ct/100mL	ALS
L1542536-1	MS-01	5-Nov-14	Biochemical Oxygen Demand	<2.0	mg/L	ALS
L1542536-1	MS-01	5-Nov-14	Oil & Grease - Total	2.80	mg/L	ALS
L1542536-3	MS-0101	5-Nov-14	pH	7.23	pH units	ALS
L1542536-3	MS-0101	5-Nov-14	Total Suspended Solids	<2.0	mg/L	ALS
L1542536-3	MS-0101	5-Nov-14	N-NH3 (Ammonia)	0.37	mg/L	ALS
L1542536-3	MS-0101	5-Nov-14	Total Kjeldahl Nitrogen	0.82	mg/L	ALS
L1542536-3	MS-0101	5-Nov-14	Total Phosphorus	0.839	mg/L	ALS
L1542536-3	MS-0101	5-Nov-14	Faecal Coliforms	0	ct/100mL	ALS
L1542536-3	MS-0101	5-Nov-14	Biochemical Oxygen Demand	<2.0	mg/L	ALS
L1542536-3	MS-0101	5-Nov-14	Oil & Grease - Total	<2.0	mg/L	ALS
L1545200-1	MS-01	12-Nov-14	pH	7.2	pH units	ALS
L1545200-1	MS-01	12-Nov-14	Total Suspended Solids	2.4	mg/L	ALS
L1545200-1	MS-01	12-Nov-14	N-NH3 (Ammonia)	0.57	mg/L	ALS

TABLE 2.8

**BAFFINLAND IRON MINES CORPORATION
MARY RIVER PROJECT**

**2014 QIA AND NWB ANNUAL REPORT
FIELD QA/QC WATER QUALITY DATA ANALYSIS**

DUPLICATES

Sample Number	Sample ID	Date Sampled	Parameter Name	Result	Unit	Lab
L1545200-1	MS-01	12-Nov-14	Total Kjeldahl Nitrogen	1.12	mg/L	ALS
L1545200-1	MS-01	12-Nov-14	Total Phosphorus	0.485	mg/L	ALS
L1545200-1	MS-01	12-Nov-14	Faecal Coliforms	0	ct/100mL	ALS
L1545200-1	MS-01	12-Nov-14	Biochemical Oxygen Demand	<2.0	mg/L	ALS
L1545200-1	MS-01	12-Nov-14	Oil & Grease - Total	<2.0	mg/L	ALS
L1545200-3	MS-0101	12-Nov-14	pH	7.22	pH units	ALS
L1545200-3	MS-0101	12-Nov-14	Total Suspended Solids	2	mg/L	ALS
L1545200-3	MS-0101	12-Nov-14	N-NH3 (Ammonia)	0.43	mg/L	ALS
L1545200-3	MS-0101	12-Nov-14	Total Kjeldahl Nitrogen	1.22	mg/L	ALS
L1545200-3	MS-0101	12-Nov-14	Total Phosphorus	0.573	mg/L	ALS
L1545200-3	MS-0101	12-Nov-14	Faecal Coliforms	0	ct/100mL	ALS
L1545200-3	MS-0101	12-Nov-14	Biochemical Oxygen Demand	<2.0	mg/L	ALS
L1545200-3	MS-0101	12-Nov-14	Oil & Grease - Total	<2.0	mg/L	ALS

Note: Sample ID ending in "01" denotes duplicate.

FIELD BLANKS AND TRAVEL BLANKS

Sample Number	Sample ID	Date Sampled	Parameter Name	Result	Unit	Lab
1090485	MS-0102	4-Mar-14	Biochemical Oxygen Demand	<1	mg/L	Exova
1090490	MS-0102	4-Mar-14	Faecal Coliforms	0	ct/100mL	Exova
1090485	MS-0102	4-Mar-14	Total Kjeldahl Nitrogen	0.27	mg/L	Exova
1090485	MS-0102	4-Mar-14	N-NH3 (Ammonia)	0.17	mg/L	Exova
1090485	MS-0102	4-Mar-14	Oil & Grease - Total	<1	mg/L	Exova
1090485	MS-0102	4-Mar-14	Total Phosphorus	<0.01	mg/L	Exova
1090485	MS-0102	4-Mar-14	Total Suspended Solids	<2	mg/L	Exova
1090485	MS-0102	4-Mar-14	pH	5.5	pH units	Exova
1090486	MS-0103	4-Mar-14	Biochemical Oxygen Demand	<1	mg/L	Exova
1090491	MS-0103	4-Mar-14	Faecal Coliforms	0	ct/100mL	Exova
1090486	MS-0103	4-Mar-14	Total Kjeldahl Nitrogen	0.29	mg/L	Exova
1090486	MS-0103	4-Mar-14	N-NH3 (Ammonia)	0.15	mg/L	Exova
1090486	MS-0103	4-Mar-14	Oil & Grease - Total	<1	mg/L	Exova
1090486	MS-0103	4-Mar-14	Total Phosphorus	<0.01	mg/L	Exova
1090486	MS-0103	4-Mar-14	Total Suspended Solids	<2	mg/L	Exova
1090486	MS-0103	4-Mar-14	pH	5.56	pH units	Exova
1121339	MQ-C-A02	21-Jul-14	Conductivity	<5	uS/cm	Exova
1121339	MQ-C-A02	21-Jul-14	N-NO3	<0.10	mg/L	Exova
1121339	MQ-C-A02	21-Jul-14	pH	5.68	pH units	Exova
1121339	MQ-C-A02	21-Jul-14	Total Suspended Solids	<2	mg/L	Exova
1121339	MQ-C-A02	21-Jul-14	Oil & Grease - Total	<1	mg/L	Exova
1121339	MQ-C-A02	21-Jul-14	N-NH3 (Ammonia)	0.03	mg/L	Exova
1121340	MQ-C-A03	21-Jul-14	Conductivity	<5	uS/cm	Exova
1121340	MQ-C-A03	21-Jul-14	N-NO3	<0.10	mg/L	Exova
1121340	MQ-C-A03	21-Jul-14	pH	5.60	pH units	Exova
1121340	MQ-C-A03	21-Jul-14	Total Suspended Solids	<2	mg/L	Exova
1121340	MQ-C-A03	21-Jul-14	Oil & Grease - Total	<1	mg/L	Exova
1121340	MQ-C-A03	21-Jul-14	N-NH3 (Ammonia)	0.13	mg/L	Exova
1129701	MS-C-B02	27-Aug-14	Conductivity	<5	uS/cm	Exova
1129701	MS-C-B02	27-Aug-14	N-NO3	<0.10	mg/L	Exova
1129701	MS-C-B02	27-Aug-14	pH	6.03	pH units	Exova
1129701	MS-C-B02	27-Aug-14	Total Suspended Solids	<2	mg/L	Exova
1129701	MS-C-B02	27-Aug-14	Oil & Grease - Total	<1	mg/L	Exova
1129701	MS-C-B02	27-Aug-14	N-NH3 (Ammonia)	0.08	mg/L	Exova
1129702	MS-C-B03	27-Aug-14	Conductivity	<5	uS/cm	Exova
1129702	MS-C-B03	27-Aug-14	N-NO3	<0.10	mg/L	Exova
1129702	MS-C-B03	27-Aug-14	pH	6.07	pH units	Exova
1129702	MS-C-B03	27-Aug-14	Total Suspended Solids	<2	mg/L	Exova
1129702	MS-C-B03	27-Aug-14	Oil & Grease - Total	<1	mg/L	Exova
1129702	MS-C-B03	27-Aug-14	N-NH3 (Ammonia)	0.02	mg/L	Exova

TABLE 2.8

**BAFFINLAND IRON MINES CORPORATION
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FIELD QA/QC WATER QUALITY DATA ANALYSIS**

DUPLICATES

Sample Number	Sample ID	Date Sampled	Parameter Name	Result	Unit	Lab
1127610	MS-C-C03	18-Aug-14	Conductivity	<5	uS/cm	Exova
1127610	MS-C-C03	18-Aug-14	N-NO3	<0.10	mg/L	Exova
1127610	MS-C-C03	18-Aug-14	pH	5.95	pH units	Exova
1127610	MS-C-C03	18-Aug-14	Total Suspended Solids	<2	mg/L	Exova
1127610	MS-C-C03	18-Aug-14	Oil & Grease - Total	<1	mg/L	Exova
1127610	MS-C-C03	18-Aug-14	N-NH3 (Ammonia)	0.03	mg/L	Exova
1132593	MP-0103	9-Sep-14	Biochemical Oxygen Demand	<1	mg/L	Exova
1132589	MP-0103	9-Sep-14	Faecal Coliforms	0	ct/100mL	Exova
1132593	MP-0103	9-Sep-14	Total Kjeldahl Nitrogen	<0.10	mg/L	Exova
1132593	MP-0103	9-Sep-14	N-NH3 (Ammonia)	0.04	mg/L	Exova
1132593	MP-0103	9-Sep-14	Oil & Grease - Total	<1	mg/L	Exova
1132593	MP-0103	9-Sep-14	Total Suspended Solids	<2	mg/L	Exova
1132593	MP-0103	9-Sep-14	pH	6.10	pH units	Exova
1134124	MP-0102	16-Sep-14	Biochemical Oxygen Demand	<2	mg/L	Exova
1134121	MP-0102	16-Sep-14	Faecal Coliforms	0	ct/100mL	Exova
1134124	MP-0102	16-Sep-14	Total Kjeldahl Nitrogen	0.14	mg/L	Exova
1134124	MP-0102	16-Sep-14	N-NH3 (Ammonia)	0.04	mg/L	Exova
1134124	MP-0102	16-Sep-14	Oil & Grease - Total	2	mg/L	Exova
1134124	MP-0102	16-Sep-14	Total Suspended Solids	<2	mg/L	Exova
1134124	MP-0102	16-Sep-14	pH	6.04	pH units	Exova
1138821	MS-0102	7-Oct-14	Faecal Coliforms	0	ct/100mL	Exova
1138816	MS-0102	7-Oct-14	pH	6.00	pH units	Exova
1138816	MS-0102	7-Oct-14	Total Suspended Solids	<2	mg/L	Exova
1138816	MS-0102	7-Oct-14	Biochemical Oxygen Demand	<1	mg/L	Exova
1138816	MS-0102	7-Oct-14	N-NH3 (Ammonia)	0.09	mg/L	Exova
1138816	MS-0102	7-Oct-14	Total Kjeldahl Nitrogen	0.25	mg/L	Exova
1138816	MS-0102	7-Oct-14	Total Phosphorus	<0.003	mg/L	Exova
1138816	MS-0102	7-Oct-14	Oil & Grease - Total	<1	mg/L	Exova
1138822	MS-0103	7-Oct-14	Faecal Coliforms	0	ct/100mL	Exova
1138817	MS-0103	7-Oct-14	pH	5.77	pH units	Exova
1138817	MS-0103	7-Oct-14	Total Suspended Solids	<2	mg/L	Exova
1138817	MS-0103	7-Oct-14	Biochemical Oxygen Demand	<1	mg/L	Exova
1138817	MS-0103	7-Oct-14	N-NH3 (Ammonia)	0.11	mg/L	Exova
1138817	MS-0103	7-Oct-14	Total Kjeldahl Nitrogen	0.22	mg/L	Exova
1138817	MS-0103	7-Oct-14	Total Phosphorus	<0.003	mg/L	Exova
1138817	MS-0103	7-Oct-14	Oil & Grease - Total	<1	mg/L	Exova
1139968	MS-0102	14-Oct-14	Faecal Coliforms	0	ct/100mL	Exova
1139973	MS-0102	14-Oct-14	pH	6.00	pH units	Exova
1139973	MS-0102	14-Oct-14	Total Suspended Solids	<2	mg/L	Exova
1139973	MS-0102	14-Oct-14	Biochemical Oxygen Demand	<1	mg/L	Exova
1139973	MS-0102	14-Oct-14	N-NH3 (Ammonia)	0.04	mg/L	Exova
1139973	MS-0102	14-Oct-14	Total Kjeldahl Nitrogen	<0.10	mg/L	Exova
1139973	MS-0102	14-Oct-14	Total Phosphorus	<0.003	mg/L	Exova
1139973	MS-0102	14-Oct-14	Oil & Grease - Total	<1	mg/L	Exova
1139969	MS-0103	14-Oct-14	Faecal Coliforms	0	ct/100mL	Exova
1139974	MS-0103	14-Oct-14	pH	5.87	pH units	Exova
1139974	MS-0103	14-Oct-14	Total Suspended Solids	<2	mg/L	Exova
1139974	MS-0103	14-Oct-14	Biochemical Oxygen Demand	<1	mg/L	Exova
1139974	MS-0103	14-Oct-14	N-NH3 (Ammonia)	0.14	mg/L	Exova
1139974	MS-0103	14-Oct-14	Total Kjeldahl Nitrogen	0.12	mg/L	Exova
1139974	MS-0103	14-Oct-14	Total Phosphorus	<0.003	mg/L	Exova
1139974	MS-0103	14-Oct-14	Oil & Grease - Total	<1	mg/L	Exova
L1542536-4	MS-0102	5-Nov-14	pH	5.98	pH units	ALS
L1542536-4	MS-0102	5-Nov-14	Total Suspended Solids	<2.0	mg/L	ALS
L1542536-4	MS-0102	5-Nov-14	N-NH3 (Ammonia)	0.06	mg/L	ALS
L1542536-4	MS-0102	5-Nov-14	Total Kjeldahl Nitrogen	<0.15	mg/L	ALS
L1542536-4	MS-0102	5-Nov-14	Total Phosphorus	0.0038	mg/L	ALS
L1542536-4	MS-0102	5-Nov-14	Faecal Coliforms	0	ct/100mL	ALS
L1542536-4	MS-0102	5-Nov-14	Biochemical Oxygen Demand	<2.0	mg/L	ALS
L1542536-4	MS-0102	5-Nov-14	Oil & Grease - Total	<2.0	mg/L	ALS

TABLE 2.8

**BAFFINLAND IRON MINES CORPORATION
MARY RIVER PROJECT**

**2014 QIA AND NWB ANNUAL REPORT
FIELD QA/QC WATER QUALITY DATA ANALYSIS**

DUPLICATES

Sample Number	Sample ID	Date Sampled	Parameter Name	Result	Unit	Lab
L1542536-5	MS-0103	5-Nov-14	pH	5.62	pH units	ALS
L1542536-5	MS-0103	5-Nov-14	Total Suspended Solids	<2.0	mg/L	ALS
L1542536-5	MS-0103	5-Nov-14	N-NH ₃ (Ammonia)	<0.050	mg/L	ALS
L1542536-5	MS-0103	5-Nov-14	Total Kjeldahl Nitrogen	<0.15	mg/L	ALS
L1542536-5	MS-0103	5-Nov-14	Total Phosphorus	<0.003	mg/L	ALS
L1542536-5	MS-0103	5-Nov-14	Faecal Coliforms	0	ct/100mL	ALS
L1542536-5	MS-0103	5-Nov-14	Biochemical Oxygen Demand	<2.0	mg/L	ALS
L1542536-5	MS-0103	5-Nov-14	Oil & Grease - Total	<2.0	mg/L	ALS
L1545200-4	MS-0102	12-Nov-14	pH	5.72	ct/100mL	Exova
L1545200-4	MS-0102	12-Nov-14	Total Suspended Solids	<2.0	pH units	Exova
L1545200-4	MS-0102	12-Nov-14	N-NH ₃ (Ammonia)	<0.050	mg/L	Exova
L1545200-4	MS-0102	12-Nov-14	Total Kjeldahl Nitrogen	<0.15	mg/L	Exova
L1545200-4	MS-0102	12-Nov-14	Total Phosphorus	<0.003	mg/L	Exova
L1545200-4	MS-0102	12-Nov-14	Faecal Coliforms	0	mg/L	Exova
L1545200-4	MS-0102	12-Nov-14	Biochemical Oxygen Demand	<2.0	mg/L	Exova
L1545200-4	MS-0102	12-Nov-14	Oil & Grease - Total	<2.0	mg/L	Exova
L1545200-5	MS-0103	12-Nov-14	pH	5.63	ct/100mL	Exova
L1545200-5	MS-0103	12-Nov-14	Total Suspended Solids	<2.0	pH units	Exova
L1545200-5	MS-0103	12-Nov-14	N-NH ₃ (Ammonia)	<0.050	mg/L	Exova
L1545200-5	MS-0103	12-Nov-14	Total Kjeldahl Nitrogen	<0.15	mg/L	Exova
L1545200-5	MS-0103	12-Nov-14	Total Phosphorus	<0.003	mg/L	Exova
L1545200-5	MS-0103	12-Nov-14	Faecal Coliforms	0	mg/L	Exova
L1545200-5	MS-0103	12-Nov-14	Biochemical Oxygen Demand	<2.0	mg/L	Exova
L1545200-5	MS-0103	12-Nov-14	Oil & Grease - Total	<2.0	mg/L	Exova

Note: Sample IDs ending in "02" denotes field blank.
Sample IDs ending in "03" denotes travel blank.

TABLE 3.1

BAFFINLAND IRON MINES CORPORATION
MARY RIVER PROJECT

2014 QIA AND NWB ANNUAL REPORT
BREAKDOWN OF MONTHLY AND ANNUAL QUANTITIES OF SPECIFIED SUBSTANCES FROM BORROWS AND QUARRIES

Month - Year	Quarry QMR2 (Material Removed, BCMs)		Quarry Q1 ((Material Removed, BCMs)		Quarry D1Q2 ((Material Removed, BCMs)	
	Till	Rock	Till	Rock	Till	Rock
Jan-14	0	14,584	0	0	0	0
Feb-14	425	28,081	0	10,300	0	0
Mar-14	3,800	50,216	0	3,797	0	0
Apr-14	50	96,019	0	5,869	0	0
May-14	950	84,296	0	22,885	0	0
Jun-14	0	58,055	0	55,236	0	0
Jul-14	0	70,208	0	91,205	0	3,040
Aug-14	2,200	42,700	0	108,400	0	2,471
Sep-14	0	9,900	0	87,000	0	16,635
Oct-14	0	0	0	5,030	0	16,643
Nov-14	0	34,100	0	0	0	1,361
Dec-14	0	32,000	0	14,900	0	0
Cumulative Total for 2014	7,425	520,159	0	404,622	0	40,150

Notes: Volumes based on a comparison between survey surfaces. Volumes removed expressed in Banked Cubic Metres (BCMs).

Only a very thin layer of organic material was present at some locations. Separation and segregation of this material was not successful as it was mixed in primarily with till. Till consisted of undifferentiated silts, sands, gravels, and cobbles.

There was no ice present in the surface soils.

TABLE 6.1
BAFFINLAND IRON MINES CORPORATION
MARY RIVER PROJECT
2014 QIA AND NWB ANNUAL REPORT
SUMMARY OF UNAUTHORIZED DISCHARGES

Date of Occurrence	Quantity	Product Spilled	Immediate Cause and Follow-up Actions	Approximate Location	Proximity to Water body?	Basic Cause, Corrective Actions Taken, and Follow-up	Spill Line ID No.
10-Mar-14	130 kgs	3M Novec 1230	Upon doing annual inspection checks on fire suppression systems, Levitt Safety found that one of the systems had released about 246 lbs of "3M Novec 1230" in one of the Electric Rooms. Date and time of occurrence are unknown as this was found on the inspection undertaken on March 7th, 2014.	17 W 503975 7976081	>100 m	Equipment Failure Issue, extreme temperatures Upon further investigation, it was noted that the fire suppression gases can possibly be released when temperatures drops below zero degrees Celsius. The release of the Novec 1230 could have therefore occurred at any point during the commissioning of the E-House, when shutdowns occurred and outdoor temperatures were below the freezing point. The investigation therefore could not reveal the exact date and time of occurrence. Recommendations: Accidental releases of the fire suppression gases should be avoided in the future by enduring that adequate heating of all E-Houses is maintained at all times to keep the ambient temperature inside the E-Houses about the freezing mark. Supplementary heaters should be used in the event of extended or planned power outages as well. Also, the fire suppression systems should be inspected regularly and records of inspections should be maintained on labels affixed to the cylinders.	14-075
7-Apr-14	130 kgs	3M Novec 1230	On Monday April 7, 2014 at approximately 10:30 am problems were reported with the G203 generator at the Milne Port Complex. Mechanics responded to the area and noticed coolant on the floor of the Genset Building. A malfunction of the radiator caused the fire suppression system to be discharged due to the steam created by the release of the liquid. The suppression system discharged resulting in the release of approximately 130 kg of 3M Novec 1230 to the atmosphere. The coolant was contained within the building structure and there was no coolant released to the adjacent ground surface	17 W 503692 7976047	>300 m	Equipment Failure Issue, Design Failure. Upon further investigation, it was determined that the coupling connection to the radiator was not adequate in the number of the threads on the fitting. This caused the coupling to loosen and release the glycol. This in turn caused vapour which activated the fire suppression system. Recommendations: The proper threaded coupling is currently being procured in order to replace the faulty coupling all on Genset units. These are new units and the active Genset is being monitored on a regular basis (i.e.; every two hours or less).	14-098
7-Apr-14	2 m ³	Sewage (untreated)	On Monday April 7, 2014, at approx. 06:30 HRS, ice and discoloured snow were observed under the sewage return line from one wing of the accommodations building. The situation was immediately reported and the Environmental Superintendent together with Site Services Department investigated and discovered that one or more joints on a section of the sewage return line had failed and were leaking. The sewage line was immediately taken out of commission for repairs. The leakage was not immediately detected due to the location of the line which is underneath the building as well as the snow cover on the ground. Estimates of the volume of sewage spilled were between 2 and 3 m ³ , based on the estimated impacted area of approximately 50 m ² . Cleanup of the sewage is not possible at the present time due to the inaccessibility of the location. The spill poses no immediate environmental or health risk.	17 W 503972 7975986	>150 m	Equipment Failure Issue, Design Issue, Temperature Extremes. Camp Maintenance crew located the leak and identified that it is a poor installation joint. Site services cleared out as much of the snow and ice as practical due to the location, investigated and repaired the joint. Recommendations: All sewage lines are in progress of being investigated. Agricultural lime will be ordered and applied to the area during thaw to control odours and pathogens. The run-off water quality from the camp pad will be monitored, particularly during freshet, at Water Licence Monitoring locations.	14-099
5-May-14	200 L	Sewage (untreated)	At approximately 20:40 HRS on May 5, 2014 a leak was detected at the main lift station of the Milne Port Complex. It appeared that a previously repaired breach in the tank failed again. An estimated 200 litres was discharged to the adjacent land surface, with an approximate impacted area of 8 square metres. Personnel immediately started the manual pump to the Sewage Treatment Plant and acquired vacuum truck services to empty the tank. The high float switch was lowered below the breach to prevent further leakage. Additionally, the tank will be monitored periodically until it can be fully inspected and repaired to ensure no further leakage. Frozen ground conditions have limited the depth of soil contamination to just the surface. The contaminated snow and untreated sewage effluent were transferred to the Milne Exploration Phase Sewage PWSP (MP-MRY-04a).	17 W 503943 7975985	>200 m	Equipment Failure Issue, Design Issue, Temperature Extremes. This being the second incident related to the breach in the tank, the recommendation is to replace the tank with a new one. Current Status: Currently, we are looking into purchasing a new tank.	14-137

TABLE 6.1
BAFFINLAND IRON MINES CORPORATION
MARY RIVER PROJECT
2014 QIA AND NWB ANNUAL REPORT
SUMMARY OF UNAUTHORIZED DISCHARGES

Date of Occurrence	Quantity	Product Spilled	Immediate Cause and Follow-up Actions	Approximate Location	Proximity to Water body?	Basic Cause, Corrective Actions Taken, and Follow-up	Spill Line ID No.
25-Jun-14	1 - 2 m ³	Oily Water	On June 25th at 10:00 am Baffinland Iron Mines Corp. (Baffinland) Site Services Department was relocating a dissolved air flotation (DAF) tank used as part of its oil/water separation system at its Milne Inlet construction laydown area. While Site Services was moving the tank, the discharge pipe connection located at the bottom of the tank ruptured causing approximately 1,000- 2,000 L of water containing melt-water and undetermined low concentration emulsified free product hydrocarbon onto the ground surface consisting of sands with some gravels. Photos of the release on June 25th, as well as following recovery and remedial efforts are attached. A map identifying the location of the impacted area is also attached. Immediate and Follow-Up Action: The cause of the release was the rupture of the discharge pipe located at the bottom of one side of the tank. The release spilled to the sand/gravel ground. When the operator moving the tank noticed the spill, movement of the tank ceased and the tank was immediately placed on an incline with the discharge upgrade to maintain some material within the tank, thus preventing the release of remaining water downgrade. The spill area was flagged off and the minor volume of free product present was collected by means of absorbent pads and shop vac. It was confirmed by the past operators of the treatment plant, that the volume of free phase hydrocarbons within the water/hydrocarbon mixture was minor in consideration that the tank was fully emptied during the treatment system shutdown procedure. The water in the tank originated from snow melt that had accumulated in the vessel over the course of the winter. A limited soil sampling program will be conducted in the area to confirm hydrocarbon impact. If soils are contaminated above applicable soil guidelines, the soils will be removed and placed in the future land farm facility (currently under construction).	17 W 503490 7976108	> 300 m	Procedural Issue, Error in Procedure After the release, Baffinland implemented strict instructions for the completion of a more thorough inspection of all containers containing hazardous waste prior to intra and inter site movements. Such inspections shall be completed to assess the risks associated with the release of their contents to the surrounding environment and shall include inspections of container integrity (breaks/faults in container walls), loose hoses/pipes/valve fittings connected to the container, and the method of securing the container to the moving vehicle prior to transit to assess the risk of the container becoming dismounted enroute. Enforcement and monitoring of these inspections shall be ongoing. Current Status: The area and extent of hydrocarbons present will be confirmed pending a limited soil assessment of the impacted area.	14-240
23-Sep-15	200 L	Sewage (untreated)	On September 23rd, 2014 at 12:00, a leak from the primary sewer force main south of the Milne Port accommodations complex was identified by camp maintenance personnel. The leak occurred at a mechanical joint that was used to repair the line previously. Upon discovery of the leak, the camp maintenance personnel turned-off and locked-out pump sump #1 to stop the flow to the primary line. A vacuum truck was then used to remove the released liquid from the ground.	17 W 503914 7975953	200 m	Equipment Failure Issue, Design Issue The line was isolated, drained and a permanent coupling was installed to repair the pipe. Routine (daily) inspections of sewage lines are being completed by camp maintenance to identify line deformities/deficiencies as part of their preventative maintenance planning.	14-338
24-Sep-15	200 L	Sewage (untreated)	On September 24, 2014 at 18:00, the wastewater treatment plant (WWTP) operator reported a spill at the Milne Port WWTP. The spill occurred when the filter tank pump failed to engage causing the filter tank to overflow. It was estimated that approximately 200 L of wastewater was released inside of the building and out of the door onto the gravel ground adjacent to the WWTP. Upon discovery of the spill, the operator turned off the flow to the plant. The overflow was removed with a vacuum truck from the interior and exterior of the building. The control system error (as indicated on the WWTP control panel) was corrected and monitored until 24:00 to confirm that no further issues were present.	17 W 503798 7975985	350 m	Equipment Failure Issue, Safety System Failure. Ongoing, routine (daily) inspections of sewage lines and pumps (lift stations and WWTP) are being completed by camp maintenance to identify line and pump deformities/deficiencies as part of their preventative maintenance planning.	14-340
8-Oct-15	120L	Fuel - Diesel	On October 8th at 23:15, a worker was filling a fuel tanker at the refueling station of the Milne Port complex when he noticed the truck started to overflow from the top plate. An estimated 120L of diesel overflowed the tanker based on the area of 50 m ² impacted within the engineered, lined, and bermed containment area. Approximately 15 m ³ of contaminated soil was excavated on the morning of October 9th and disposed of in the Landfarm. The location of the spill was more than 100 m away from the closest body of water (Milne Inlet). The worker immediately hit the shut-off switch on the fueling module and began recovering the spill using absorbent pads and placing duck ponds under the vent tubes of the truck (photos 1 and 2). Response personnel arrived and continued to work at recovering the diesel using absorbent pads (photo 3). The contaminated area was cordoned off with caution tape until further clean-up during the day shift. Due to the frozen ground and engineered liner at a depth of 1 foot, excavation was limited to 6-8' deep to prevent damage to the liner. Area was then back-filled with new material.	17 W 503710 7976204	160 m	Equipment Failure Issue, Safety System Failure. Investigation revealed that the electronic overflow control system (iScully System) had malfunctioned. The Scully System should have automatically shut-off the pump when fuel reached the top sensor. Identified corrective actions were: - Have the Scully system repaired; - Revise refueling procedure so as to provide additional environmental controls such as including a spotter on top of the fuel tank of the truck; - Review and sign-off the revised standard operating procedure by all lube/tanker truck operators. SEI Industries has been retained by the BIM Maintenance Department to visit site and address the situation. In the interim, lube and fuel truck drivers have reviewed the revised fueling procedure and are refueling their tankers with the assistance of a spotter.	14-365
28-Nov-15	200L	Sewage (untreated)	On November 28th at approximately 12:15 PM, in preparation for pumping out sewage from a holding tank at Milne Port, a worker used a frost fighter to thaw the line. Upon returning to the area an hour later, he noticed that the outlet was dripping sewage and that sewage leaked out of the lined insulated box onto the adjacent ground surface in front of the tank and under the wash car trailer, impacting an approximate area of 10 m ² . The volume of the spill is conservatively estimated to be 200 L. The location of the spill is more than 150 m away from the closest body of water, Milne Inlet. The worker pumped the sewage from the tank, the ground and the area inside the liner. The wash car was taken out of service to prevent any further contamination to the receiving environment. Frozen sewage was broken into pieces and disposed of in the polishing waste stabilization pond.	17 W 503547 7976253	150 m	Procedural Issue, Error in Procedure Investigation revealed that a power outage caused the outlet pipe to freeze. The freeze-thaw condition appeared to have caused the shutoff valve to close improperly and crack the tank. Thawing the line caused sewage above outlet line to gravity flow outside the tank. The sewage tank and lined insulated box need to be replaced. The Site Services Fixed Plant Maintenance group must communicate all power shutdowns to departments that may be affected by a shutdown. It was also recommended that potentially impacted processes be identified to prevent negative impacts caused by freeze-thaw events, such as inspections of critical systems, better insulation, temporary heat, etc. The sewage tank and insulated lined box have been replaced (Figure 3). Improved communication procedures have been implemented for planned and unplanned shutdowns / power outages.	14-425

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1-Dec-15	200 L	Fuel - Diesel	On December 1st at 17:15, a worker was filling the bulk tank of a lube truck at the refueling station of the Milne Port complex when he noticed the truck started to overflow from the top plate. An estimated 200L of diesel overflowed the tanker based on the area of 60 m ² impacted within the engineered lined containment area. The location of the spill is more than 150 m away from the closest body of water (Milne Inlet). The worker immediately engaged the shut-off switch on the fueling module and called his supervisor. Workers started cleanup of the fuel on the frozen ground with absorbent pads. A volume of 4 m ³ of contaminated snow was removed from the area and stockpiled in the contaminated snow dump adjacent to the Landfarm facility at Milne Port.	17 W 561333 7913402	200 m	Procedural Issue, Error in Procedure Investigation revealed that the fueling procedure was not adequate for its purpose and the worker did not follow the requirement of having a spotter monitoring the fuel level in the tanker. It was recommended that the fueling procedure be revised and communicated to all personnel involved in bulk tank refuelling. The electronic overflow control (Scully) system was not activated at this location. The maintenance department is in the process of revising the fueling procedure, and currently working on a solution to repair the rScully System.	14-430
10-Dec-15	3000 L	Sewage (untreated)	On December 10 2014 at 4:30am, a worker detected a leak at the PSC main sewer line main. He immediately called the housing maintainer who shut off the pump at the main lift station and the vacuum truck mobilized to pump sewage out of the main lift station. It was conservatively estimated that the volume of the spill was 3 m ³ , based on an area of contamination of approximately 100 square metres. The sewage froze in place and did not migrate further. The closest water body, Milne Inlet, is more than 350 m away and is presently frozen. There was no risk to the water body from the spilled frozen sewage. The line was isolated, and a permanent pipe section was installed to repair the joint. An excavator was mobilized to scrape up the frozen sewage to the extent that access allowed. The frozen sewage was disposed of in the polishing waste stabilizing pond.	17 W 503914 7975957	200 m	Equipment Failure Issue, Freeze/Thaw Extreme temperature changes caused the piping to expand and contract promotes leaks and pipe failure. Ongoing routine inspection of the piping systems are required to inspect for leaks and potential locations of failure. A longer term plan to solve this issue is in development. The system is back in service and regular inspections are conducted on the sewage lift station and sewer lines to verify there is no leakage throughout.	14-442
6-Mar-14	120 L	Transmission Oil	On March 6, 2014 at approximately 23:00, a D6 bulldozer was working in the area of KM 77 of the Tote Road. The operator was traveling over a snow covered portion of the area when the machine hit a large rock that was not visible due to the snow cover. The rock sheared off the transmission's inspection port cover, in turn causing the transmission oil to drain out. The machine was shut down immediately and the spill was contained and cleaned up. The conservative estimate of the spill volume is approximately 120 liters and impacted an approximate area of roughly 3 square meters.	17 W 539273 7920882	>750 m	Equipment not being used properly. The machine was shut down immediately and the spill was contained and cleaned up. All of the contaminated snow was collected and placed into a lined quatrex bag (Photo 2). The quatrex bag was brought back to the Mine Site and has been placed in lined secondary containment. It will be transferred to an overpack drum where it will melt out in the spring and then will be processed as part of our oily water treatment process this coming summer season. Once the machine was moved off the rock, the area was inspected further to ensure that all of the contaminated snow was captured (Photo 3). Recommendations have been made to the operators that when travelling into new, snow covered areas for the first time they travel forward with the blade as low as possible to avoid striking snow covered boulders with the machines' undercarriage.	14-070
24-Jun-14	15 L	Hydraulic Oil	On June 25th at 16:00 HRS, the Milne Port water truck parked adjacent to the Km 32 intake location for routine water uptake (Water Licence Station MP-MRY-03). Upon engagement of the water pump it was noticed by the operator that the pump was releasing hydraulic oil onto the soil/water directly below the pump. The Operator stopped the pump immediately. Booms were set in place to contain the spilled hydraulic oil and prevent migration. Absorbent pads were used to soak up spilled product from the ground surface. Approximately 15 L of hydraulic oil was released. BIM Environment responded to the incident at 17:00 HRS. Residual spillage was collected (suctioned) from ground surface for proper disposal. No contamination to the lake was observed at the time; however, an in-house Total Oil and Grease (TOG) analysis was completed to determine hydrocarbon contamination to adjacent lake surface water. The TOG result was less than detection limits indicating negligible hydraulic oil present on the lake surface at that time. Immediate and Follow-Up Action: The cause of the release was a disconnect to the hydraulic line feeding the water pump located on the driver's side of the vehicle. Upon engagement of the water pump, the hydraulic line became pressurized causing it to separate from the hydraulic oil tank, thus releasing the hydraulic oil that was contained within the line in addition to a volume released from the tank for an approximated combined volume of less than 15 L. The truck was checked for continual leaks before removing it from the immediate spill location to allow for clean-up response of the impacted area. The truck was later returned to Milne Port for repairs. As per Baffinland protocol, a spill kit was present at the site from which spill response supplies (booms & absorbent pads) were obtained. Booms were set in place downstream from the spill area to contain the spilled hydraulic oil and prevent migration. Absorbent pads were used to soak-up free product from the ground surface. Residual hydrocarbon sheen was suctioned from impacted surface water puddles. A post clean-up verification sample was collected to confirm that the area was free of residual contamination thus insuring successful clean-up of the area. Results of the TOG analysis indicated a concentration less than detection limit indicating negligible impact. Further clean-up was therefore not warranted.	17 W 521542 7953721	within 30 m	Equipment Failure Issue, Maintenance Issue, Design Issue After the release, Baffinland implemented strict instructions for the use of spill trays during the routine water uptake procedure at the Lake 32. The requirement for the use of a spill tray under the pump has been communicated to water truck operators. Ongoing monitoring of the implementation of this practice is under way. A more thorough vehicle inspection has been developed and implemented to include the inspection of hydraulic oil lines for deformities and potential faults (disconnects and/or cracks). Current Status: The results of the post-clean-up verification sample and ongoing visual observations confirm that the lake surface and adjacent impacted area (location of spill) is free of residual hydrocarbon contamination.	14-237

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11-Aug-14	260 L	Hydraulic Oil	On August 11 2014 at 12:00, a boom truck was travelling south bound on the tote road between km 20 and 21 when the hydraulic tank mounted underneath the bed and in-front of the left rear tandem axle detached and fell from the truck. The hydraulic tank was also struck by the left rear wheels of the truck causing damage to the truck and came to rest on its side in the center of the Tote Road. Approximately 260 liters of hydraulic oil was spilled onto the roadway over approximately 0.4 km in an area of 40 m ² . Neither the water body nor the natural environment were impacted by product. Immediate and Follow-Up Action: The boom truck was part of a larger crew, some of which immediately initiated the cleanup and others headed north towards Milne Port to report the incident ASAP. Boom Truck operator immediately pulled vehicle to the East Side of the Tote Road and shut the vehicle ignition off. The operator and the passenger quickly assessed the situation and obtained a shovel to create earthen berms in order to contain as much of the spill as possible to prevent any of the hydraulic oil from entering into the nearby waterway. Operator and passenger tipped the hydraulic tank spout-up in order to prevent the remaining contents from being released to the environment and moved it to the side of the road. Workers were stationed at both ends of the incident scene to stop any traffic that might be approaching the spill area from either direction. Spill cleanup was initiated approximately 2 hours after the incident, time for a loader and haul truck to arrive to scene. The finish of cleanup was completed August 13th in the morning. Contaminated soil was brought to the landfarm and absorbent pads were put in Quatrex bag which was disposed of in Hazardous waste lined containment.	17 W 515291 7963860	20 m	Equipment Failure Issue, Maintenance Issue Road surface maintenance is an ongoing task by BIM. Additional and regular attention to rough areas has been recommended to the Material Handling department as this is a likely contributing factor in this incident. It has also been recommended that the Maintenance department add regular check of mounting straps, bolts, brackets and other similar hardware on vehicles subject to rough service in order to identify potential problems developing (metal fatigue, broken welds, broken/sheared bolts, etc.). Enforcement and monitoring of these inspections shall be ongoing. Current Status: The area has been fully cleaned up.	14-297
2-Jan-14	200L	Fuel - Diesel	On January 1st, 2014, at approximately 2230h, the operator of a 14M grader was attempting to plow some snow from the shoulder of road in the new road construction area when the grader suddenly dropped and became hung up on a rock underneath the blade. The operator was attempting to move the grader off the rock when the bottom of the fuel tank struck a rock and knocked off the fuel line at the bottom of the fuel tank. The operator remained unaware of the spill until the grader began to stall due to low fuel. The quantity of fuel spill was approximately 200 L and contaminated an area of 4 square meters.	17W 509278 7968442	>100 m	Equipment not being used properly. Upon noticing the spill, the operator immediately notified his supervisor and the acting environmental coordinator. After inspecting the scene, the grader was transported back onto the road and the spill response plan was initiated. Approximately nine cubic meters of contaminated snow was removed from the spill location and stored temporarily in a secured lined area for processing in the contaminated snow dump (to be constructed later this year). The spill location was greater than 30 m from the nearest water body. Once the snow starts melting in the area, a visual inspection will be completed for evidence of additional hydrocarbon contamination. Further clean-up will be completed as required. The investigation revealed that the grader operator should not have used the grader to grade off road in deep snow where boulders and other hazards could not be seen. The grader operator, although experienced and qualified, should be re-trained for operation of the grader and this incident put onto his record as a failure to follow standard grader operations procedure. During a follow-up inspection completed by AANDC on August 23, 2014, evidence of residual diesel contamination was observed at the spill location. Additional excavation was completed (September 12, 2014) to remove any remaining contaminated soil and a verification sample was collected to confirm a successful clean-up of the impacted area. External laboratory results (refer to sample 1134105, MP-SPILL-2014-002, September 12, 2014 on attached lab report) indicate that residual total petroleum hydrocarbons present in the soil fall below CCME Guidelines for Tier 1 Industrial coarse-grain soils, thus confirming the successful remediation of the area.	14-002
7-Jan-14	150L	Fuel - Diesel	On January 7th, 2014, at approximately 1230h, a fire occurred in a small building located at the Mary River Mine Site (Exploration Camp) use by our fixed wing charter company to store tools, parts, supplies, and equipment. Our Emergency Team responded. Less than 150 L of fuel stored in frost fighters were consumed by the fire. In addition, a small quantity of aircraft de-icer fluid (approximately <100L) and isopropyl alcohol (<10L). The extremely cold temperatures froze the water at of very close to the site of the fire.	17W 558122 7914612	>100 m	Fire The site of the fire is being cleaned up and any hazardous materials identified will be treated as such, stored appropriately, and shipped off site to an accredited hazardous waste receiving facility. Other non-hazardous materials from the fire site will be disposed of within the site landfill. During the spring freshet, melt water that flows from the area will be monitored and sampled for a list of parameters that will be developed in concert with the AANDC and QIA inspectors. The soil below the fire site will be sampled for select parameters as well.	
17-Apr-14	500 L	Sewage (untreated)	On April 17, 2014, at 6:00 hrs, the wastewater treatment plant (WWTP) operator discovered sewage leaking out of the Mine Site WWTP. The WWTP alarm indicator was solid green, indicating that no faults had occurred. When the operator attempted to reset the main PLC, there was no power at the uninterrupted power source (UPS). The operator switched the UPS to a GCFI outlet, restored power to the PLC, cleared alarms, and returned the plant to partial operation. It was estimated that 500 L of sewage had spilled onto the ground around the WWTP.	17W 561342 7913179	>200 m	Equipment Failure Issue, Safety System Failure. The operator contacted her Supervisor who in turn coordinated an electrician and the sewage truck operator to respond to the scene. The sewage truck operator was stationed at the main lift station in order to monitor its level and prevent additional spills from occurring until the WWTP was fully operational. Recommendations: Upon further investigation the cause of the power loss was due to a loose connection involving the outlet that the UPS was plugged into. The loose connection was repaired shortly after the incident. The power supply to PLC will be inspected more regularly to ensure a similar incident does not occur. Current Status: The Mine Site WWTP is currently fully operational and has had no power supply incidents in the last 14 days.	14-110

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20-Apr-14	1000 L	Fuel - Diesel	Tanker trucks were offloading P-50 diesel fuel to the #4 - 500,000 litre tank of the Mine Site Tank Farm. After completion of the offload, fuel was observed running down the side of the tank and into the engineered lined containment facility. Fuel was transferred from Tank #4 to Tank #1 to decrease the overfill. Preliminary estimate of the overfilled volume is approximately 1,000 litres. The actual amount will be determined following reconciliation of fuel transfer volumes. Fuel was transferred from Tank #4 to Tank #1 to decrease the overfilled volume.	17 W 561319 7913244	>200 m	Procedural Issue, Error in Procedure Tanks to be monitored on a daily basis, with checks by operators at each transfer. Install high level shutoffs. Install signage to indicate active tanks for dispensing and offloading. Perform audit of all fuel handling activities. Current Status: All tanks will be monitored and checked prior to fuel offloads by the tanker operators. Regular measurements (dips) of all tanks will be completed; previously the tanks were dipped on Mondays, following the overfill dips are being completed three times/week until high level shutoffs can be installed on the tanks. Valves have had signage attached to indicate which tanks are active. A third party will be reviewing the site fuel management system and practices in relation to applicable regulations and guideline to identify gaps in all fuel handling activities. Stormwater will be treated in the open water season.	14-112
25-Apr-14	2 m ³	Sewage (untreated)	At 7:00 AM on April 25, 2014 it was discovered that raw sewage had pooled between two wings of the Mary River Mine Site accommodations building. The spill was reported immediately and was investigated by the onsite Environmental Coordinator and Accommodations Superintendent. Upon inspecting the area it was discovered that one or more joints of the lift station discharge line that runs under the wing had separated. The affected sewage line was locked out and repaired shortly after. The sewage spill spread from the separated pipe under the accommodation wing and pooled on the north side of the wing. Estimates of the volume released were between 1 and 2 m ³ , based on the estimated impact area of 15 m ² . Cleanup of the sewage under the building is not possible at the present time due to the inaccessibility of the location. The spill poses no immediate environmental or health risk.	17 W 561364 7913400	>150 m	Equipment Failure Issue, Design Issue, Temperature Extremes. The Camp Maintenance crew reported the spill immediately to the Environment Department and locked out the affected sewage discharge line. Site services removed as much of the snow and ice as practical due to the location investigated and repaired the joint. The spill was attributed to poor installation of the sewage line joints. Recommendations: All sewage lines are in progress of being investigated. Agricultural lime will be ordered and applied to the area during thaw to control any odours and pathogens. The run-off water quality from the camp pad will be monitored, particularly during freshet, at Water Licence Monitoring locations.	14-120
12-May-14	2 m ³	Sewage (untreated)	At approximately 8:00 AM on May 12, 2014 it was discovered that raw sewage had pooled between two wings of the accommodations complex at the Mary River Mine Site. Upon investigation it was discovered that a joint on the lift station pump line had separated. A conservative estimate of approximately 2 m ³ was released to the adjacent land surface, with an approximate impact area of 15 m ² . Immediate and Follow-Up Action: Personnel immediately took the sewage line out of service for repairs and notified the Environment and Maintenance Department. A vac truck was used to clean up the spill wherever possible. Cleanup of the sewage under the building is not possible at the present time due to the inaccessibility of the location. The spill poses no immediate environmental or health risk.	17 W 561364 7913400	>150 m	Equipment Failure Issue, Design Issue, Temperature Extremes. Sewage lines throughout the accommodations complex will continue to be routinely inspected to prevent similar incidents from occurring in the future. The spill site will be reassessed after the snow melts and agricultural lime will be applied on the impacted area to control odour, if necessary. Current Status: The sewage line is repaired and back in service.	14-188
30-May-14	4 - 6 m ³	Fuel - Diesel & Oily Water	During an inspection of the Mine Site Bladder Farm at 4 pm on May 30, open water was observed for the first time this year. A strong odour was encountered and a measurable thickness of fuel (mixture of Jet A and P-50diesel) was observed on the open water surface of the facility. The product was observed at two locations: near on top of an existing Jet A bladder (south end) and around the sump at the north end. The fuel release was entirely contained within the bladder farm facility which is constructed within engineered lined containment that is inspected annually by a qualified Geotechnical Engineer. The original spill report was submitted on May 31 st was based on available observations and volume estimates at that time of between 4 and 6 m ³ . Subsequent to that report, ongoing remedial and recovery efforts resulted in additional data coming to light that are presented in a supplementary spill report. The supplementary report indicates that a total of approximately 36 m ³ of product/emulsion was recovered. Immediate and Follow-Up Action: Since the fuel release, frequent inspections around the foot of the berm of the facility have indicated no leakage to the environment. The facility is located >500 m from the nearest water body. A skimmer was deployed on May 31 and recovery of the fuel-water-emulsion mixture from the surface continued for a 19 day period with decreased product recovered over time. Within one week, the bulk of the remaining P-50 fuel was pumped from the bladders and transferred to the steel tanks at the Mine Site Camp, thereby reducing the risk of further release. An Oily Water Separation/Treatment (OWS) plant was commissioned on June 15 and treatment of hydrocarbon impacted water commenced at that time. The exact cause of the release is still not apparent but based on the volume of fuel released, it is likely a breach in one or more of the bladders, combined with expected weeping through the bladders. Since there is still some contact water in the facility, and a small relatively small volume of fuel still remaining in each bladder, the identification of the specific breached bladder(s) has not as yet been confirmed. Once all of the fuel has been removed from each bladder, and all of the contact water removed, each bladder will be inspected for the expected breach.	17 W 558346 7914402	>150 m	Soon after the fuel release, Baffinland has kept the lead agencies (AANDC and QIA) informed concerning recovery efforts since reporting the release. In addition, on June 4, Baffinland provided AANDC and QIA with an action plan that it had implemented in response to the release. The plan involves the following: 1. Skim off all product from the surface water of the facility. Skimmed product to be re-used on site or shipped south for recycling/reuse. 2. Remove most of the fuel from the facility and transfer to the steel fuel tanks at the Mine Site Camp. A small quantity of fuel will remain in each bladder. 3. Treat and release hydrocarbon contaminated water from the facility. 4. Extract remaining residual fuel from the bladders. Examine each bladder for potential cause of bladder leakage. 5. Remove bladders and store in lined sea-can for shipment south to an accredited disposal facility. 6. Remove piping, ensure decontaminated, and store for reuse. 7. Remediate facility in manner similar to that used for Mine Inlet Bladder Farm decommissioning. (Appendix E.8 i Decommissioning Mine Inlet Fuel Bladder Farm, 2013 QIA and NWB Annual Report). 8. Residual soils from the facility will be stored in a secure facility for future land farming. Current Status: Recommendations No. 1 i As of June 18, 36,000 litres of free product and emulsion/water mixture has been skimmed and stored in drums and totes now located in on-site lined containment. Recommendation No. 2 i 420,000 L of P-50 product has been transferred from the bladders to the steel tanks at the Mine Site Camp within five days of the fuel release. Recommendation No. 3 i Treatment and discharge of hydrocarbon impacted water has been underway since June 15 utilizing the on-site portable Oily Water Separation/Treatment (OWS) plant. As of June 26, a total of 543 m ³ of hydrocarbon contaminated contact water been treated by the OWS and released. Currently there is less than 0.15 m depth of water around the sump end of the bladder farm. Recommendations No. 4 to 8 - These activities will be completed before the end of 2014.	14-189

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6-Jul-14	500 L	Sewage (untreated)	At approximately 9:00 AM on July 6th, 2014 sewage was observed pooling around a lift station within the lined containment. Approximately 500 litres of sewage had pooled around the south lift station of AB Wing Lift Station at the Mine Site accommodation complex. The lift station is contained in a lined area and no sewage escaped to the receiving environment. The spill was a result of a discharge pipe from the lift station which had failed. Immediate and Follow-Up Action: Personnel immediately took the sewage line out of service for repairs and notified the Environment and Maintenance Department. The pumps were immediately turned off and the vacuum truck used to clean up both inside and outside the lift station. The lift station was then monitored until the pipe could be repaired.	17 W 561346 7913337	> 200 m	Equipment Failure Issue, Design Issue Sewage lines throughout the accommodations complex will continue to be routinely inspected to prevent similar incidents from occurring in the future. Current Status: The sewage line is repaired and back in service.	14-249
24-Aug-15	200 L	Fuel - Diesel	On August 24, 2014 at 2:00 PM a worker discovered a P-50 diesel spill at the Mine Site tank farm refueling area and immediately notified the Environment Department. It was estimated that 100 to 200 litres of diesel was released within the lined tank farm refueling area (secondary containment), based on the impacted area of approximately 20 m ² . It is suspected that the spill was caused by an over fill during equipment refueling. Upon arriving at the refueling area, Environmental personnel initiated the spill response by using absorbents and 20 L pails to recover the remaining liquid product. Used absorbents were put into a Quatex bag and transported to the lined hazardous waste containment area.	17 W 561259 7913270	100 m	Procedure Not Followed The Environment Department will continue to deliver spill management training to all departments and contractors onsite in the coming weeks. This training will highlight spill response, spill reporting and control measures that can be used to prevent spills from occurring in the future. Current Status: The area has been fully cleaned up. The investigation was unsuccessful in determining the exact cause of the spill and led to training sessions for all personnel involved in bulk fuel transfers.	14-310
23-Sep-15	100 L	Sewage (untreated)	At 7:30 AM on September 23, 2014 the discharge line from the lift station on the south side of AE Wing at the Mine Site Complex was observed to be leaking. It was estimated that approximately 100 litres of untreated sewage was released. The lift station pumps were turned off. The level of the lift station was monitored during the repairs to the failed joint, with vacuum truck standing by. The spill posed no immediate environmental or health risk. The location of the spill is on the camp pad more than 200 meters from the closest water body. The Camp Maintenance crew reported the spill immediately to the Environment Department and locked out the affected sewage discharge line. Site services removed as much of the snow and ice as practical due to the location investigated and repaired the joint. The spill was attributed to poor installation of the sewage line joints.	17 W 561405 7913370	200 m	Equipment Failure Issue, Design Issue The Camp Maintenance crew reported the spill immediately to the Environment Department and locked out the affected sewage discharge line. Site services removed as much of the snow and ice as practical due to the location investigated and repaired the joint. The spill was attributed to poor installation of the sewage line joints. The sewage lines are in progress of being investigated. The run-off water quality from the camp pad will be monitored, particularly during freshet, at Water Licence Monitoring locations.	14-337
7-Oct-15	150 L	Glycol - De-icer	On October 7th, 2014 at approximately 09:00, a Glycol de-icer fluid tote at the Mine Site Weatherhaven Maintenance Shop was discovered to be leaking during a routine inspection, the contents of which overflowed the portable spill berm which the tote was stored in. It was conservatively estimated that 150 litres was released from the 500 litre Glycol holding tank. The spill resulted in an impacted area of approximately 15m ² to the adjacent ground. The location of the spill was greater than 500 meters from the nearest water body. A valve failure on the Glycol holding tank was determined to have caused the leak. The Environment department immediately notified the Maintenance department and a vacuum truck was used to remove the excess glycol from the impacted area. The contaminated snow and material was then scraped up with a grader and transferred into Quatex bags.	17 W 558176 7914459	200 m	Equipment not being used properly. Other similar totes should be inspected to ensure that none of the valves are defective. Also, whenever the totes are not in use and are storing contents they should be placed into lined berm areas for secondary containment as a precautionary measure. The Quatex bags which contain the contaminated soil and snow have been transported to a lined hazardous waste containment area for storage and the defective valve was replaced on the holding tank	14-361
9-Oct-15	200L	Sewage (untreated)	On October 9th, 2014 at approximately 17:30, the WWTP operator discovered sewage flowing out of the WWTP building. The spill originated from the overtopping of the screen tank. It was estimated 200 litres was released, based on the impacted camp pad area of 15 m ² . The location of the spill was greater than 100 m from the nearest water body. A temporary screen that had been installed to augment the solids filtering had caused the spill. The Site Services department responded to the main lift station with the sewage truck to pump out the tank and monitor the levels. A loader was used to clean up the spill. The operator had been checking the screen regularly and suggested a large instantaneous amount of solids came into the system and caused the blockage and overflow condition.	17 W 561341 7913182	350 m	Equipment Failure Issue, Safety System Failure. Operators at both plants have increased monitoring of lift stations and plant facilities. Improvements to the screening system in the WWTP are currently being investigated.	14-367
16-Oct-15	150L	Sewage (untreated)	On October 16th, 2014 at approximately 17:30, the kitchen lift station at the Mine Site Complex was observed to be overflowing. It is estimated that approximately 150 litres of sewage was released based on the extent of the spill. Frozen ground conditions limited the depth of soil contamination to more or less just the surface. The location of the spill was greater than 200 m from the nearest water body. The high level float switch failed to turn on the pumps causing the overflow. The vacuum truck was used to clean-up the sewage surrounding the lift station and pump out the lift station itself. The recovered sewage was deposited into PWSP No. 1, an engineered and lined containment facility. The level of the lift station was monitored regularly until the float was replaced.	17 W 561356 7913338	250 m	Equipment Failure Issue, Overflow All lift station floats were inspected. Float was replaced as the wiring had been damaged. During regular inspections, lift station floats are tested and the pumps engaged to verify that there is no leakage from the force mains.	14-382

TABLE 6.1
BAFFINLAND IRON MINES CORPORATION
MARY RIVER PROJECT
2014 QIA AND NWB ANNUAL REPORT
SUMMARY OF UNAUTHORIZED DISCHARGES

Date of Occurrence	Quantity	Product Spilled	Immediate Cause and Follow-up Actions	Approximate Location	Proximity to Water body?	Basic Cause, Corrective Actions Taken, and Follow-up	Spill Line ID No.
31-Oct-15	200L	Sewage (untreated)	On Friday, October 31, 2014 at approximately 09:00 AM, it was discovered that a high pressure sewer line outside of the AG wing at the MSC had separated, causing sewage to spill onto the surrounding snow and ice covered ground. Frozen ground conditions limited the depth of soil contamination to more or less just the surface. It is conservatively estimated that approximately 200 litres of sewage was released based on the extent of the spill. The closest water body is > 100 m away from this location and is presently frozen. The source was immediately contained and a front end loader was used to scrape up and dispose of the contaminated snow and ice into the PWSP#1, an engineered and lined containment facility. The broken sewer line was repaired and put back in to service.	17 W 561345 7913368	200 m	Equipment Failure Issue, Freeze/Thaw Extreme temperature changes which cause the piping to expand and contract promotes leaks and pipe failure. Ongoing routine inspection of the piping systems are required to inspect for leaks and potential locations of failure. The system is back in service and regular inspections are conducted on the sewage lift station and sewer lines to verify there is no leakage throughout.	14-403
1-Dec-15	130 kg	3M Novec 1230	On Monday December 1, 2014 at approximately 3:30 am, MSG-403 generator at the Mine Site Complex shut down. The electrical department responded to the scene. On initial inspection, the Bilmo actuator motors had failed to work, causing MSG-403 to overheat and shutdown due to high temperature. The glycol in the radiator expanded causing excess glycol to spill through the overflow. Steam resulted from this release of glycol caused the fire suppression system to activate. The fire suppression system discharged approximately 130 kg of 3M Novec 1230 to the atmosphere. There was no release of Glycol to the receiving environment. Upon further investigation, an inadequate fitting was found that had allowed coolant to spray into the module, causing the discharge of the fire suppressant.	17 W 503708 7976208	150 m	Equipment Failure Issue, Fitting Ensure that all generators have the correct fittings and detectors are functioning properly. Fitting was replaced on MSG-403 and one of two detectors in the module disconnected.	14-434
2-Dec-15	200 L	Gear/Lube Oil	On Tuesday, December 2, 2014, the main crusher plant at the Mary River Mine Site was shut down for roughly 6 hours in -36 °C weather. When the operator went to start up the crusher plant, the cone-crusher unit motor would not start. The operator went outside to investigate and saw the oil coming out from the top of the gear oil tank. The crusher operator immediately shut down the plant and the crusher crew quickly contained the spill with the spill kit that was located at the crusher. The oil was cleaned up using spill pads and the impacted ground was shoveled up into a Quatex bag and removed to secondary containment for storage to await transport to the landfill facility at Mine Port. Approximately 200L of lube oil was spilled onto the ground under the cone unit. The closest water body is more than 200 m away and is presently frozen.	17 W 561696 7913079	200 m	There are heaters in the tank to keep the oil temperature up to operating temperature and the tank is insulated, but the oil lines to and from the tank are not insulated. With the lines being exposed to -36 °C, the oil thickened, restricting flow through the filter, causing high pressures in the tank. This caused the filter cover on the cone oil lube tank to separate and the oil escape to the ground surface. The oil lines require insulating / heating. The oil lines to and from the tank that are exposed to cold temperatures have been insulated and/or heated.	14-432
1-Dec-15	5000 L	Sewage (untreated)	On Monday, December 1, 2014, the water treatment operator reported that the MBR had a large quantity of sewage that was unaccounted for. Site Services investigated and found that sewage had been released from the AF wing lift station at the Mine Site Complex. The surrounding snow and ice covered ground appeared to be slightly impacted, however upon further investigation it was discovered that the majority of the sewage had migrated underneath the AG wing and froze, making the spill volume and area of contamination hard to determine. It is conservatively estimated that roughly 5000 litres of sewage was released to the receiving environment. The pumps were immediately shut off upon discovery and the lift station tank and housing unit were pumped out with a vacuum truck. There was no flow of sewage to the closest water body which is > 200 m away and is presently frozen. All water was shut off and Environment was notified. The Lift Station and housing unit were pumped out with a vacuum truck and contaminated material was removed and disposed of in the polishing waste stabilizing pond, more remains under the wing. The joint that failed was replaced and tested.	17 W 561240 7913242	100 m	Equipment Failure Issue, Freeze/Thaw Extreme temperature changes which cause the piping to expand and contract promotes leaks and pipe failure. Ongoing routine inspection of the piping systems are required to inspect for leaks and potential locations of failure. A longer term plan to solve this issue is in development. The system is back in service and regular inspections are conducted on the sewage lift station and sewer lines to verify there is no leakage throughout.	14-431

TABLE 10.1

**BAFFINLAND IRON MINES CORPORATION
MARY RIVER PROJECT**

2014 QIA AND NWB ANNUAL REPORT

MEETINGS WITH PUBLIC, GOVERNMENT AND INUIT ORGANIZATIONS

Date	Group	Location	Description
January 27-31, 2014	NIRB	Pond Inlet	Final Hearings for the Early Revenue Phase
January 6-10, 2014	NPC and NIRB	Clyde River, Grise Fiord, Resolute Bay, Arctic Bay, Pond Inlet	Joint Public Review with NPC and NIRB
February 10, 2014	QIA	Teleconference	Project Financial Security Discussions
March 6, 2014	QIA	Oakville	Project Financial Security Discussions
March 12, 2014	CANNOR	Teleconference	Status of NPC Determination and Project Update
March 20, 2014	GN	Teleconference	Status of NPC Determination and Project Update
March 21, 2014	CANNOR	Teleconference	Project Status
March 25, 2014	DFO	Burlington	Project Update and Fisheries Authorization for Ore Dock
March 28, 2014	CANNOR	Teleconference	Project Update and General Discussion
April 3, 2014	EC, AANDC, NWB	Teleconference	Aquatic Effects Monitoring Program meeting
April 7-11, 2014	Various	Iqaluit	Nunavut Mining Symposium
April 10, 2014	GN, AANDC, QIA	Iqaluit	Mary River Project Socio-Economic Working Group
April 14, 2014	CANNOR and Other Federal Departments	Ottawa	Update on Project
April 16, 2014	EC, CCG, TC, QIA, HTO, Pond Inlet MRPC	Oakville	Fuel Spill Preparedness Workshop
April 22, 2014	QIA	Oakville	Project Financial Security Discussions
April 23, 2014	EC, QIA, GN	Iqaluit	Terrestrial Environment Working Group
April 24, 2014	EC, QIA, GN, DFO, PC, WWF, Makivik	Iqaluit	Marine Environment Working Group
May 12-16, 2014	Various	Whitehorse	Caribou Conference
May 13-14, 2014	Community Advisory Group	Pond Inlet	CAG Meeting
May 13-15, 2014	Transport Canada	Milne Port	Site Tour for OUMF
May 14, 2014	Mittimatalik HTO	Pond Inlet	Relocation of Hunting Cabin at Mary River, Dock at Milne Port, Site Access
May 14, 2014	Parks Canada	Teleconference	Public Consultation on Sirmilik National Park
May 15, 2014	CMAC (Canadian Marine Advisory Council)	Ottawa	Marine Advisory Update Meeting
May 16, 2014	CANNOR	Ottawa	Project Update
June 3, 2014	QIA	Teleconference	Project Financial Security Discussions
June 13, 2014	NPC and NIRB	Teleconference	Project Update
June 13, 2014	CANNOR	Teleconference	Project Update
July 8, 2014	QIA	Oakville	Project Financial Security Discussions
July 10, 2014	Community Advisory Group	Pond Inlet	CAG Meeting
July 18, 2014	Mittimatalik HTO	Teleconference	Hunting Cabin Relocation
August 18, 2014	Pond Inlet Community Member	Milne Port	Spill Training Exercise
August 7 to 12, 2014	QIA	Mary River/Milne Port	Project Financial Security Site Survey and Environmental Audit
August 19-21, 2014	OSRL	Mary River/Milne Port	Site Tour
September 2-4, 2014	AANDC	Mary River	Site Tour for New Hires
September 16-18, 2014	NIRB	Mary River	Site Tour
September 18, 2014	CANNOR	Teleconference	Update on Project
September 23-25, 2014	DFO and GN	Mary River	Site Tour
September 26, 2014	QIA	Teleconference	Project Financial Security Discussions
September 29-October 1, 2014	QIA	Iqaluit	Project Financial Security Discussions
October 9, 2014	QIA	Teleconference	Project Financial Security Discussions
October 27-28, 2014	QIA	Pond Inlet	IIBA Forum
October 28, 2014	Community Members	Pond Inlet	Announcement of Phase 2 of the Mary River Project
October 29, 2014	Community Advisory Group	Pond Inlet	CAG Meeting
October 29, 2014	Community Members	Pond Inlet	IQ Community Celebration
November 5, 2014	NIRB and NPC	Cambridge Bay	Update on Phase 2
November 6, 2014	CANNOR	Yellowknife	Update on Phase 2
November 6, 2014	Environment Canada and DFO	Yellowknife	Update on Phase 2
November 14, 2014	CANNOR and Other Federal Departments	Ottawa	Update on Phase 2
November 26, 2014	GN, EC, QIA	Iqaluit	Terrestrial Environment Working Group
November 27, 2014	GN, EC, QIA, WWF, PC, DFO	Iqaluit	Marine Environment Working Group
November 28, 2014	CANNOR, PC, EC, NRCAN, AANDC	Iqaluit	Update on Phase 2
December 2, 2014	Community Advisory Group	Pond Inlet	CAG Meeting
December 18, 2014	NWB	Teleconference	Annual Security Review

TABLE 10.2

BAFFINLAND IRON MINES CORPORATION
MARY RIVER PROJECT

2014 QIA AND NWB ANNUAL REPORT

STAKEHOLDER SITE VISITS TO MARY RIVER

Date	Organization or Group
January 15 and 16, 2014	WSCC Mines Inspector
March 18 to 20, 2014	WSCC Mines Inspector
April 15 to 17, 2014	AANDC Water Resources Officers
May 6 to 8, 2014	QIA - Environmental Inspectors
May 20 to 22, 2014	WSCC Mines Inspector
June 4, 2014	NIRB Site Tour
June 17 to 19, 2014	AANDC Water Resources Officers
June 24 to 26, 2014	QIA - Environmental Inspectors
July 10 to 16, 2014	WSCC Mines Inspector
July 14, 2014	AANDC Water Resources Officers
August 7 to 12, 2014	QIA - Auditors
August 21 to 25, 2014	AANDC Water Resources Officers
September 16 and 17, 2014	NIRB Inspection
October 23 to 28, 2014	WSCC Mines Inspector
November 18 to 20, 2013	AANDC Water Resources Officers
December 11 to 16, 2014	WSCC Mines Inspector