

BY COURIER Maud.Ablain@environnement.gouv.qc.ca

Montreal, April 7, 2022

Ministère de l'Environnement et de la lutte contre les changements climatiques Direction de l'évaluation environnementale des projets industriels, miniers, énergétiques et nordiques Direction adjointe des projets industriels Édifice Marie-Guyart, 6<sup>e</sup> étage 675, boulevard René-Lévesque Est Québec (QC) G1R 5V7

## Subject: Application for certificate of exemption Responses to questions and comments – Borrow source project for site remediation of Coniagas Tailings Storage Facility by Galaxy Lithium (Ontario) Inc. (File 3214-14-054)

Ms. Ablain,

The Coniagas Tailings Storage Facility (TSF), located in the James Bay region of Northern Quebec, was in operation from March 1961 to May 1967 by the company "Coniagas Mines Ltd." and covers an estimated surface area of 63,000 m<sup>2</sup>. This mine extracted ore from underground operation nearly 700,000 tons of zinc and lead. The site was partially restored by the company Inmet in 1997. The restoration works that were performed in the framework of this partial restoration are:

- The dismantling of the infrastructures and surface buildings;
- Securing the openings.

At that time, no work was performed to rehabilitate the tailings impoundment area. In subsequent years, a breach developed in the containment dike northwest of the Tailings Storage Facility (TSF). This opening generated a Tailings' Spill Area (TSA) in the northwest area of the tailings pond. The current area of this TSA is estimated at 76,200 m<sup>2</sup>.

In 2012, Galaxy Resources acquired Lithium One, which was subsequently renamed Galaxy Lithium (Ontario) Inc. (GLOI or Galaxy). In this M&A process, GLOI inherited Lithium One's portfolio of active and passive projects, including the abandoned Coniagas site. It was not until 2018 that the current Galaxy team was informed by a MELCC representative of the existence of the Coniagas site as well as the remediation work to be undertaken.

Since the GLOI team became aware of the existence of this tailings facility, characterization work at the site and in several potential borrow sources has been completed. Several engineering and design studies (e.g., flow analysis, stability, etc.) have been conducted to compare several reclamation scenarios and select the one that best meets the technology



efficiency, environmental, social, legal and financial criteria. All of these steps led to the filing of a restoration plan with the Ministry of Energy and Natural Resources (MERN), which was commented on by MERN in December 2019. MERN supports the project but requires detailed drawings to issue approval. GLOI also submitted a request to COMEV for a certificate of exemption to avoid subjecting the remediation project to the environmental and social impact assessment and review process. The certificate was granted in October 2020 and included the opening of a borrow source of 0.9 ha.

Since then, additional site visits by surveyors and field technicians have been conducted to collect more information and samples of soil, water, and tailings. With these new samples, laboratory tests were conducted to better define the properties (e.g., geotechnical, hydrogeological, geochemical, etc.) of the materials modeled in the engineering analyses. Galaxy has also undertaken various information and discussion sessions with the mine owner (i.e., Bonterra) adjacent to the site as well as the community of Waswanipi, including the family of the tallyman who has hunting and fishing rights on the land. Galaxy has also initiated discussions with contractors and is expected to enter into a contractual agreement with one of them in the next few weeks in preparation for starting work in summer 2022. The detailed engineering required to support an application for a certificate of authorization with the MELCC and to answer questions from MERN that were raised when the restoration plan was filed is nearing completion.

The protection, redevelopment, and restoration measures that have been presented in the restoration plan and that will be supplemented by responses to MERN's questions are intended to return the Coniagas site to a satisfactory condition, as defined in Section 4-1 of the Guide for the Preparation of the Redevelopment and Restoration Plan for Mining Sites in Quebec (MERN, 2017), that is:

- Eliminate unacceptable health risks and ensure personal safety.
- Limit the generation and spread of substances that could adversely affect the receiving environment and, in the long term, aim to eliminate all forms of maintenance and monitoring.
- Restore the site to a visually acceptable condition for the community.

In order to extract and supply natural material (i.e., sand and gravel) for the restoration work, Galaxy has already obtained an existing non-exclusive lease (NEL) on the municipal territory of Eeyou Istchee James Bay, namely the PK0.9 borrow pit. Galaxy wishes to obtain authorization to proceed with the operation of a second borrow pit for the supply of compactable fine granular material (till). This application is for the extraction of till from the proposed borrow pit PK0.5 required for remediation work at the Coniagas site.



The proposed borrow pit PK0.5 (identified as Borrow Source 2 in previous studies) is located east of Provincial Road 113 and is accessible from a logging road that starts about 0.5 km east of Desmaraisville, along the road leading to the Coniagas site and the Bachelor Mine. The distance between the proposed borrow pit PK0.5 and the Coniagas site is about 3.1 km. It is a till borrow pit with a total area of approximately 29,000 m<sup>2</sup>. The PK0.5 borrow pit was chosen mainly because of its proximity to the Coniagas site, its accessibility, and the quality of the materials present in sufficient quantity. Restoration work at the Coniagas site is planned from summer 2022 to late summer 2024. Preparation and operation of the PK0.5 borrow pit is planned to take place during the summer months of May through October for a period of three years (2022 to 2024), subject to obtaining the required regulatory permits.

As part of the environmental and social impact assessment and review procedure provided for in Title II of the Environment Quality Act, and after consultation with the COMEV, the MELCC has sent a letter in response to the request for certificate of exemption for the operation of the PK0.5 borrow pit, dated March 31, 2022, which Galaxy has received. Galaxy hereby reiterates the questions and comments raised regarding the request for exemption, followed by explanations or additional information.

For further information, please do not hesitate to contact me.

Thank you for your attention to our request.

Denis Couture

Denis Couture, ing. Galaxy Lithium (Ontario) Inc.

c.c. Ms. Kelly Leblanc, coordonnatrice évaluation environnementale et sociale, Gouvernement de la Nation crie Ms. Sophie Cooper, secrétaire exécutive, COMEV

Attachments : Bordereau des prix et formulaire de soumission Vue en plan du parc à résidus et de la zone d'épanchement restaurée



QC - 1. The project for which the proponent obtained a certificate of exemption on October 7, 2020, was provided for the operation of borrow pit 2 on an area of 0.9 ha. In this new application, the proponent indicates that the required operating area has been increased to 2.9 ha. To justify the need for additional equipment, the proponent must indicate whether any changes have been made to their reclamation project and, if so, these changes must be presented and detailed. The proponent must justify the expansion of the borrow area. The proponent must also specify the new volumes of material required for the remediation of the Coniagas tailings facility. The proponent must also specify the reasons why the reclamation work did not begin in the summer following the issuance of the certificate of exemption, as provided for in the initial application.

Since the completion of the design advanced to submit the restoration plan and allow the Coniagas Project to be exempt from an impact assessment process, the restoration method has not changed. The general concept of the project is still to erect a peripheral dike around the Tailings Storage Facility (TSF) and a berm around the Tailings Spill Area (TSA). These containment structures combined with the capping layers will keep the acid generating tailings in a water saturated state. Since reception of the certificate of exemption in October 2020 and in order to finalize the design required for the issuance of detailed engineering plans and specifications, visits to the Coniagas site and borrow pits have been made to collect material samples. These additional analyses and detailed engineering revealed that our knowledge was not sufficient to produce detailed drawings and submit a permit application for the project.

In the summer of 2021, a detailed site survey was conducted to ensure that engineering was developed with the most representative surfaces of the ground conditions. With a more accurate topographic survey combined with the review of data from previous investigation campaigns, a 3D model was developed, and the configuration of the structures optimized. During the same period, water and tailings samples were collected and a site visit was conducted by Galaxy and the design engineers to further evaluate the project and provide more rigor in the development of the flow model, which must demonstrate the effectiveness of the selected design.

Additional site visits to borrow pits (i.e., KP0.5 and KP0.9) were conducted and samples collected in the summer and fall of 2021 to ensure the required quality of materials for use in the various applications. The availability of the materials has been demonstrated. However, Galaxy conducted additional tests on the till from PK0.5 and demonstrated that it will not be able to provide sufficient impervious barrier to build the core of the dike without amending it. In fact, by amending the till with bentonite, it will be possible to obtain a material, once compacted, with a low hydraulic conductivity that meets the design criteria. These tests were completed in early 2022. Detailed engineering will also be completed in the near future so that Galaxy can file an application with MELCC for ministerial approval of the project and provide answers to MERN's questions regarding the restoration plan.

The adjustments made to the concept during the detailed engineering also require an adjustment of the quantities of materials to build the various structures. For this purpose, you will find attached the most up-to-date schedule of quantities. Between the feasibility study and



the detailed engineering, the scale of the dike and berm is more considerable and requires more borrow material. The Lidar survey conducted in the summer of 2021 adjusted the topography of the entire site. Differences of more than one meter in elevation of the tailings surface and the existing terrain were corrected. These differences translate into increased excavation volumes to construct the peripheral dike, berm and tailings grading. In addition, the profile of the land and the configuration of the structures to be built were modeled in 3D taking into account all the data collected during the previous investigation campaigns. Considering the anchoring of the dike in the clay layer underlying the TSF and the recent 3D model of the various stratigraphic layers, it appeared that the excavation required to anchor the peripheral dike in the clay layer would require the removal of an additional thickness of up to 2 meters. By considering a deeper excavation and adjustment of the geometry of the structures, all the volumes of fill material increased significantly, particularly the volumes of sand and gravel and till to build the peripheral dike of the TSF.

## QC - 2 In its concept for the tailings dike and berm, it is noted that the berm does not meet the northeast portion of the dike. Based on the site topography, however, it appears that surface runoff may occur to the northeast. The proponent must specify the reasons why the design does not extend the berm to the dike.

The attached image shows the most up-to-date plan view of the Tailings Storage Facility (TSF) and Tailings Spill Area (TSA) after restoration. Note that the berm surrounding the TSA abuts the peripheral dike on the west side and terminates in the slope of the natural terrain on the east side. This configuration allows for the capture of all surface water coming into contact with the tailings. Runoff will flow along the topographic surface of the TSF and TSA from upstream to downstream (south to north). During heavy rainfall, water that does not infiltrate and run off the surface of the TSF and TSA will not come into contact with the tailings underlying the vegetation layer. This non-infiltrated water will exit through the berm and peripheral dike spillways. On the south side, where the slope is steeper, riprap will be placed to prevent erosion of the land. The water that will flow and infiltrate into the TSF and TSA will maintain the water table at the tailings-sand interface, keeping the acid generating tailings saturated.

The design does not extend the berm to the dike on the east side because the natural slope of the land, protected by riprap where the slope is steeper, directs the water to the TSA so that it can maintain the tailings saturated. Thus, closure of the berm is not necessary.

QC - 3. a meeting was held between the tallyman of the Blacksmith family (territory W-24A), his son and the proponent on June 3, 2021, to present the project. The proponent must present the comments or concerns raised at this meeting and, if applicable, indicate how these comments or concerns have been addressed in the development of the borrow pit/borrow source development plan. The proponent must also indicate what mitigation and restoration measures for the borrow pit have been incorporated into the project to address these comments or concerns.



By the time the project update was presented to the Blacksmith family in June 2021, not many days had passed since the father's death. The sons did not know at that time who would be awarded the title of tallyman on the territory. The family did not make any specific comments or ask any questions about the Coniagas site restoration project, much less about the use of the borrow pits.

The concerns were more centered on the possibility of obtaining jobs and contracts, either for the Coniagas site restoration project or for the James Bay Lithium Mine construction project.

The family also questioned the direction of water flow in the various watersheds and asked to verify the possibility of water flowing from the site towards Bachelor Lake. Galaxy provided a map showing the direction of regional water flow to demonstrate that Bachelor Lake is located upstream of the Coniagas site. There is no hydrological link with Bachelor Lake, and it would be impossible for water from Coniagas to flow into this lake.

Note that in December 2021, Joshua Blacksmith (Mining Coordinator, Natural Resources Department of the Waswanipi Cree First Nation) mentioned that he wanted to meet with Galaxy as part of the environmental assessment process for the James Bay Lithium Mine Project. Galaxy met with him via video conference in early February 2022 to provide an update on the lithium mine project. The restoration work at the Coniagas site was briefly discussed and no comments were made.

QC - 4. According to the new information transmitted by the proponent in the application for the expansion of the borrow pit 2 operating area from 0.9 ha to 2.9 ha, there would be no apprehended impacts at the level of borrow pit operations and trucking. Nevertheless, given that Route 113 is used by multiple users, it is recommended that the proponent pay particular attention to the safety of users during trucking. The proponent must indicate whether this aspect has been discussed with the environmental committee, and whether measures will be put in place.

The new structures will be constructed using material from borrow pits located near the site. Borrow pit PK0.5 (Borrow Pit 2), located 3.1 km west of the site, will be the source of till (core of the TSF dike) and borrow pit PK0.9, located 1.8 km from the site, will be the source of granular materials (sand, gravel, riprap). The PK0.5 borrow pit is a new borrow pit that will have to be developed, while the PK0.9 borrow pit is already in operation but needs to be expanded. The location of the borrow pits is shown in the figure below.

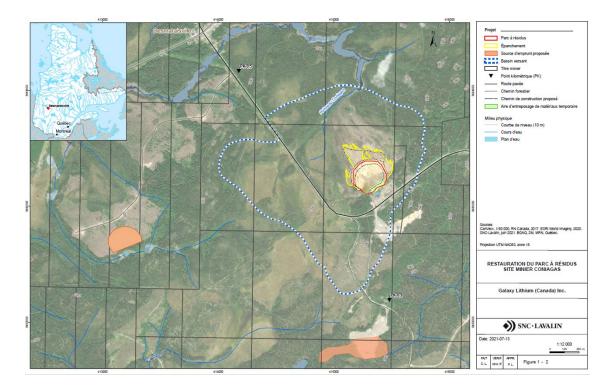
Route 113 may be used to mobilize equipment to the site; it will not be used to transport borrow material between the borrow pits and the site. Contractors will be required to comply with Galaxy's Occupational Health and Safety and Environmental Prevention Program. This program is in preparation and includes the respect of speed limits on the road leading to the Bachelor mine as well as between Route 113 and Bachelor Road. Galaxy and the main contractor will have occupational health and safety prevention officers to ensure that the work is carried out properly.



Galaxy has had and will continue to have regular discussions with Bonterra, the owner of the Bachelor Mine adjacent to the site, to ensure access to the Coniagas site through the existing gatehouse while ensuring the safety of pedestrians in the area.

Galaxy has discussed this work with the Blacksmith family and the Band Council's mining representative but not with an environmental committee. Galaxy has no contact with an environmental committee for this project.

The opening of the borrow pits and the extraction of materials will certainly generate shortterm impacts during the work. Nevertheless, the sites will be restored at the end of the work, in accordance with the requirements of the authorizations that will be issued.



QC - 5. According to the proponent, the site where the work is to be carried out does not contain any legally protected wildlife habitat, wildlife site of interest or occurrence of species that are threatened, vulnerable or likely to be so designated. Concerns have been raised, however, notably by the occupation of bank swallows in the sandpits, a species designated as threatened under the Species at Risk Act, and the common nighthawk, which may nest in the gravel pits. The proponent must present the measures it intends to put in place to limit the potential impact on these species. The proponent must obtain information from the Ministry of Forests, Wildlife and Parks (MFFP) on the terms and conditions for the protection of species that may nest in gravel pits.

It should be noted that the land has been completely cleared and that an access road was recently built in the PK0.5 area to allow for a possible geological exploration campaign by the owner of the subsurface mining rights (claims).



During the first year of work, it is planned to begin extracting material from the borrow pit in August after the nesting period. This will involve opening a new borrow pit to obtain the till in an area where there is currently no habitat for bank swallows and little habitat for common nighthawk.

Galaxy will check with the Ministry of Forests, Wildlife and Parks (MFFP) for information on the protection of species that may nest in gravel pits and sand pits and will comply with them. Periodically, during excavation operations at PK0.5, the presence of these 2 species will be verified by the supervisor responsible for environmental requirements. Galaxy will also comply with the Government of Canada's Migratory Bird Risk Reduction Guidelines to protect them should they be present.

QC - 6. The proponent must indicate if any verifications have been made with respect to the archaeological and cultural character of the borrow pit site. In addition, the proponent must indicate what measures will be put in place in the event of an incidental discovery. In this regard, the proponent must contact the traditional knowledge holders of the Waswanipi community and the Cree Aanischaaukamikw Cultural Institute.

Galaxy has no information that any sites of archaeological value were present in the area of the PK0.5 borrow pit. Galaxy will inquire of the claim holder if a preliminary archaeological investigation has already been conducted and has contacted the Mining Coordinator of the Natural Resources Department of the Cree First Nation of Waswanipi in order to make contact with a person holding the traditional knowledge. Galaxy is also awaiting a response from the Aanischaaukamikw Cree Cultural Institute in order to acknowledge any possibility of the presence of sites of cultural and archaeological value in the area. In the event that a site is discovered during the preparation and excavation work, the work will be stopped, and the authorities and groups mentioned above will be informed.

## NOTE TO THE READER

This document was translated from the original French version. Therefore, the French version constitutes the official version. In case of conflict of interpretation between the English and French versions, the French version prevails.

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		Unité		F	Prix unit	aire		Prix to	otal estima	atif
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N°	Description	mesure	estimée	Matériaux	М.О.	Équi.	Total	Matériaux	lation	Tota
1.0	Préparation des bancs d'emprunt et préparation de la ZPAR									
1.1	Mobilisation	Forfait	-	-	-	-	-	-	-	
1.2	Démobilisation	Forfait	-	-	-	-	-	-	-	
1.3	Déboisement du banc d'emprunt de till (PK 0,5), construction du chemin d'accès	Forfait	-	-	-	-	-	-	-	
1.4	Déboisement du banc d'emprunt de matériaux granulaires (PK 0,9)	Forfait	-	-	-	-	-	-	-	
1.5	Décapage et mise en réserve de la terre végétale au banc d'emprunt de till (PK 0,5)	Forfait	-	-	-	-	-	-	-	
1.6	Décapage et mise en réserve de la terre végétale au banc d'emprunt de matériaux granulaires (PK 0,9)	Forfait	-	-	-	-	-	-	-	
1.7	Ramassage des débris de bois, déboisement et enfouissement dans la ZPAR	Forfait	-	-	-	-	-	-	-	
1.8	Pompage et assèchement des excavations de la ZPAR	Forfait	-	-	-	-	-	-	-	
1.9	Excavation des résidus de la ZPAR	m³	123 460							
	TOTAL									

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2.0	Digue de la ZPAR (Zone du parc à résidus) et recouvrement									
2.1	Fourniture, transport, mélange et mise en place du till pour la construction du noyau de la digue	m³	30 450							
2.2	Fourniture et transport de la bentonite pour amendement au noyau de till	t	2 970							
2.3	Tamisage, transport et mise en place du sable filtrant pour la digue	m³	19 230							
2.4	Tamisage, transport et mise en place de sable et gravier Dmax 200 mm pour les épaulements de la digue	m³	79 900							
2.5	Transport et mise en place des résidus à l'amont de la digue	m³	69 690							
2.6	Tamisage, transport et mise en place de sable et gravier Dmax 200 mm pour le recouvrement de la ZPAR	m³	115 050							
2.7	Fourniture, transport et mise en place du géotextile de type Texel 918 ou équivalent sous l'assise de la couche de roulement	m²	7 970							
2.8	Tamissage, concassage, transport et mise en place de l'assise de la couche de roulement (type MG-56)	m³	5 400							

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2.9	Tamisage, concassage, transport et mise en place la couche de roulement de type MG-20	m³	2 520							
2.10	Tamisage, concassage, transport et mise en place de l'enrochement 100 - 200 mm à l'amont du déversoir	m³	250							
2.11	Fourniture et transport du gabion matelas (déversoir)	m²	700							
2.12	Tamisage, concassage, transport et mise en place de l'enrochement 100 - 200 mm pour le gabion matelas (déversoir)	m³	380							
2.13	Fourniture, transport et mise en place de géotextile type texel 918 (déversoir)	m²	1 300							
2.14	Tamisage, transport et mise en place d'empierrement (200-300 mm) pour la protection du secteur sud de la ZPAR	m³	2 010							
2.15	Nivellement des résidus dans la ZPAR	m³	53 770							
2.16	Fourniture, transport et mise en place de la terre végétale (0,2 m d'épaisseur) pour le recouvrement de la ZPAR, la pente aval de la digue et de l'aval ouest de la ZPAR	m³	20 500							
2.17	Hydro-ensemencement	m²	87 690							
	TOTAL									

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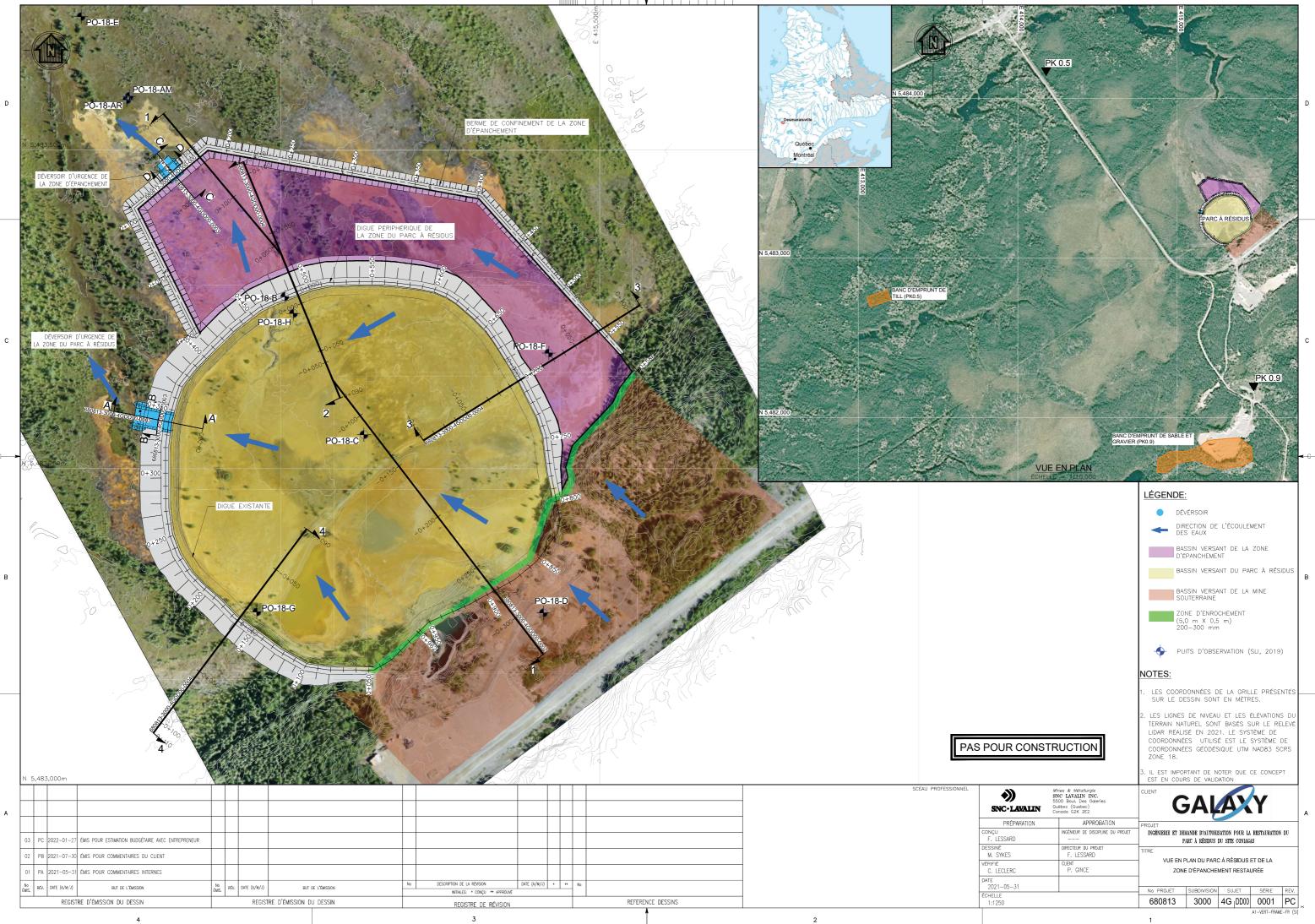
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N°	Description	mesure	estimée	Matériaux	M.O.	Équi.	Total	Matériaux	lation	Total
3.0	Préparation de la ZÉ (Zone d'épanchement)									
3.1	Ramassage des débris de bois, déboisement de la ZÉ et enfouissement dans la ZPAR	Forfait	-	-	-	-	-	-	-	
3.2	Assèchement de l'excavation de la berme	Forfait	-	-	-	-	-	-	-	
3.3	Excavation et transport des résidus de la ZÉ	m³	54 250							
	TOTAL									
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Pour I	le projet de : Parc à résidus Coniagas		Appel d'of	ffres N°:			en	date du:		

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		Unité de mesure	Quant. estimée	Prix unitaire				Prix total estimatif		
					Installation				Instal -	
N°	Description			Matériaux	M.O.	Équi.	Total	Matériaux	lation	Total
4.0	Berme de confinement et recouvrement de la zone d'épanchement (ZÉ)									
4.1	Tamisage, transport et mise en place de sable et gravier (Dmax 200 mm) pour la berme	m³	57 450							
4.2	Transport et mise en place des résidus à l'amont de la berme	m³	19 500							
4.3	Tamisage, transport et mise en place de sable et gravier (Dmax 200 mm) pour le recouvrement d'une épaisseur de 0,5 m	m³	36 040							
4.4	Fourniture, transport et installation d'un GCB pour la berme	m²	8 980							
4.5	Fourniture, transport et mise en place de l'enrochement 100 - 200 mm à l'amont du déversoir	m³	250							
4.6	Fourniture et transport du gabion matelas (déversoir)	m²	460							
4.7	Fourniture, transport et mise en place de l'enrochement 100 - 200 mm pour le gabion matelas (déversoir)	m³	250							
4.8	Fourniture, transport et mise en place de géotextile type texel 918 (déversoir)	m²	1 020							
4.9	Nivellement des résidus de la ZÉ	m³	34 750							

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N°	Description			Matériaux	M.O.	Équi.	Total	Matériaux	lation	Total
4.10	Fourniture, transport et mise en place de terre végétale sur le recouvrement, les talus et l'aval de la ZÉ	m³	12 800							
4.11	Hydroensemencement du recouvrement, des talus et à l'aval de la berme	m²	63 970							
	TOTAL									
La pré	esente Annexe fait partie intégrante de la Sour	mission pré	esentée par	·						
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