

# FORM 7

## MONTHLY PROGRESS REPORT

Name of CNSX Issuer: BacTech Environmental Corporation (the "Issuer").

Trading Symbol: BAC

Number of Outstanding Listed Securities: 61,262,930

Date: August 2, 2017

This Monthly Progress Report must be posted before the opening of trading on the fifth trading day of each month. This report is not intended to replace the Issuer's obligation to separately report material information forthwith upon the information becoming known to management or to post the forms required by the CNSX Policies. If material information became known and was reported during the preceding month to which this report relates, this report should refer to the material information, the news release date and the posting date on the CNSX.ca website.

This report is intended to keep investors and the market informed of the Issuer's ongoing business and management activities that occurred during the preceding month. Do not discuss goals or future plans unless they have crystallized to the point that they are "material information" as defined in the CNSX Policies. The discussion in this report must be factual, balanced and non-promotional.

### **General Instructions**

- (a) Prepare this Monthly Progress Report using the format set out below. The sequence of questions must not be altered nor should questions be omitted or left unanswered. The answers to the items must be in narrative form. State when the answer to any item is negative or not applicable to the Issuer. The title to each item must precede the answer.
- (b) The term "Issuer" includes the Issuer and any of its subsidiaries.
- (c) Terms used and not defined in this form are defined or interpreted in Policy 1 – Interpretation and General Provisions.

### **Report on Business**

1. Provide a general overview and discussion of the development of the Issuer's business and operations over the previous month. Where the Issuer was inactive disclose this fact.

*The BacTech bioleaching technology can be applied to the remediation of polluted mine waste in an economically beneficial manner. The BacTech bioleaching technology has been used commercially in the past for the liberation of precious and base metals from difficult to treat mine concentrates and ores. The business plan for BacTech Environmental Corporation is to apply the BacTech bioleaching technology to abatement*

projects to remove harmful elements such as arsenic and sulphur from the environment, where this can be assisted by a positive cash flow from metal recovery. Metals which could be extracted include gold, silver, cobalt, nickel, copper, uranium and zinc.

2. Provide a general overview and discussion of the activities of management.

## GENERAL CORPORATE

### BOLIVIA

On July 7, 2016, BacTech provided an update on the status of the Telamayu project. The Company recently arranged for a site visit by Bumigeme Inc., a Montreal-based engineering company to visit the Telamayu mill site in Bolivia. The purpose of the trip was to undertake a due diligence review on behalf of the Montreal-based engineering company. The following benefits were identified by the engineers:

- Availability of ample space in the existing plant;
- Water in sufficient quantity;
- Good power costs and availability (four cents to five cents per kilowatt-hour);
- New tailings site to be built at a small distance from the existing mill;
- Qualified manpower available locally; and
- Space for offices and housing is available.

The engineers made the following recommendations for the next phase of the project:

- Drilling of five holes twinning COMIBOL test pits dug in 2004;
- Subsequent coring, sampling and analysis of the tailings, confirming the concentrations of tin and gold, in addition to silver and copper;
- Preparation of a 400-kilogram sample for new metallurgical test work; and
- Completing a National Instrument 43-101 resource estimation, report and recommendations.

Special attention will be given to the tin content of the tailings. Additional sampling and analysis will determine whether the high tin concentrations generated by COMIBOL in 2004 exploration wells are, in fact, correct, in which case the tin values would exceed the silver values and greatly enhance the economics of the project.

The Company has completed the drill program on the Telamayu Tails and has released the assay results of 54 holes that were drilled. The dates of the press release were May 8, May 16 and June 27, all of which reported similar results.

Results from the June 27, 2017 press release are shown below.

Hole	From	To	Length (m)	% Recovery	Ag g/t	Sn %	Sol. Cu %	Cu Total %
f8	0,24	10,31	10,07	100,00	252,01	1,88	0,53	0,83
c8	0,30	12,30	12,00	100,00	212,10	0,69	3,45	8,00
b8	0,30	11,75	11,45	100,00	290,17	1,24	0,24	0,48
b7	0,40	10,70	10,30	100,00	176,01	1,14	1,01	1,34
b6	0,50	10,80	10,30	100,00	205,82	0,77	1,06	1,24

<b>b5</b>	0,40	11,50	11,10	100,00	274,30	0,84	0,38	0,55
<b>b3</b>	0,38	12,48	12,10	100,00	208,14	0,98	0,13	0,24
<b>c2</b>	0,10	10,01	9,91	100,00	259,18	1,35	0,72	1,09
<b>b2</b>	0,33	12,48	12,15	98,00	260,72	0,75	0,73	0,88
<b>a2</b>	0,32	12,22	11,90	98,00	198,91	0,74	0,86	1,03
<b>c9</b>	0,35	8,55	8,20	100,00	160,04	0,93	1,53	1,87
<b>c7</b>	0,33	8,96	8,63	100,00	126,98	0,62	0,74	1,41
<b>e3</b>	0,23	10,91	10,68	100,00	221,09	0,59	0,80	1,15
<b>e4</b>	0,44	10,81	10,37	98,00	274,25	0,68	1,47	2,84
<b>e5</b>	0,40	13,30	12,90	100,00	311,19	1,15	1,25	1,85
<b>d5</b>	0,42	12,87	12,45	100,00	247,53	0,93	0,52	1,02
<b>d4</b>	0,33	14,14	13,81	100,00	141,26	0,74	0,77	1,26
<b>d8</b>	0,19	13,38	13,19	100,00	185,32	1,31	1,78	3,57
<b>d3</b>	0,28	10,14	9,86	100,00	211,12	0,85	1,44	1,93
<b>d2</b>	0,10	11,63	11,53	100,00	191,22	0,73	0,59	0,64
<b>c3</b>	0,38	10,13	9,75	100,00	234,10	1,28	0,22	0,30
<b>c4</b>	0,30	11,24	10,94	100,00	159,49	0,70	0,48	0,83
<b>c5</b>	0,38	10,97	10,59	100,00	219,07	0,88	0,34	0,66
<b>c6</b>	0,24	12,16	11,92	100,00	275,11	1,43	0,47	0,85
<b>Average</b>			<b>11,13</b>	<b>99,74</b>	<b>219,27</b>	<b>0,93</b>	<b>0,91</b>	<b>1,52</b>

*The Company has started the metallurgical test work to determine the appropriate method for metal recovery. A complete NI 43-101 compliant preliminary economic assessment (PEA) will then be completed.*

*The second phase will be the design and construction of a processing plant that will create concentrates of silver, tin and copper using conventional processing. There will be contributions from gravity separation, flotation concentration, and copper precipitation from water creating the final products leaving site.*

*There is considerable infrastructure at the mill site including power, rail, a mill housing and a local workforce. The Telamayu mill has processed ores from the surrounding mines for over 70 years, with the Antigua and Nuevo tailings created from the operation. The existing infrastructure should lead to reduced capital costs.*

*The final stage is the commercialization of the plant which, including the stages above, is expected to be completed within the next 12 to 15 months. All three stages require the posting of a performance bond that is released upon completion of each phase. BacTech has posted a bond of US\$26,000 to cover the initial phase.*

*A significant point for this contract is that the association contract for the development of the remediation of tailings at Telamayu, Potosi, that was signed between Empresa Minera Ambiental Bactech SA (Emabsa), Bactech's 98-per-cent-owned Bolivian subsidiary, and Comibol, the Bolivian State mining company, and was approved by the Bolivian government by Law N degrees 831 dated September 15, 2016.*

## ECUADOR

*On January 27, 2016 the Company provided a Corporate on update on its activities and plans for the project in Ecuador. The following is the Company's vision for an Ecuadorian project, as reported in the press release, that includes the use of bioleaching to treat high-arsenic gold concentrates, resulting in a reduction in mercury use.*

### *Industry background*

*With the significant increase in the price of gold over the past 10 years, there has been a corresponding surge in the number of artisanal gold miners (AGM) globally. An AGM is someone who produces small amounts of ore, usually through the use of rudimentary methods and tools. There are literally hundreds of thousands of these AGMs in the countries of Peru, Ecuador and Colombia, according to Dr. Marcelo Veiga of the University of British Columbia (UBC) School of Mining, a specialist in this field. Over 30 million people globally participate in at least one facet of the industry, and collectively, AGMs produce an estimated 10 million ounces of gold (Barrick Gold Corp. produced 5.5 million ounces in 2016).*

### *The Problem*

*After mining the ore, AGMs typically use mercury as an amalgamator of gold and silver, and the resulting environmental damage is significant. In particular, the use of mercury to obtain gold from arsenopyrite-rich material can be an exercise in futility, as normally less than 10 per cent of the gold is separated from this refractory type of ore. This is due to the gold being physically encapsulated within the arsenopyrite, which is unreactive and impervious to mercury amalgamation. The increased use of mercury over the past 10 years has led to many governments and non-governmental organizations looking for a solution to the problem. Interested readers should visit the company's website (under newsroom, May 24, 2016) to view a video produced by a documentary company, Vice, on AGM mining in Colombia that illustrates the health risks of dealing with mercury. The long-term effects of mercury exposure to humans have been well documented.*

*In Ponce Enriquez, southern Ecuador, steps were taken with the assistance of Dr. Veiga and the Canadian government to build sulphide flotation plants to produce arsenopyrite concentrates that are easier to ship and treat using methods other than mercury amalgamation. For the most part, especially in the case of simple sulphides, this led to a noticeable reduction in the use of mercury. However, in cases where arsenopyrite is the main refractory mineral, it provided a double-edged sword, namely, very good gold grades in the concentrates but also prohibitively high arsenic levels (over 10 per cent), making the resulting product much less attractive to buyers.*

### *The Solution*

*This scenario creates a unique opportunity for Bactech and bioleaching. The reader may not be aware that bioleaching is an effective solution for processing high-arsenic compounds. Currently, due to the lack of buyers for arsenopyrite concentrates, in which arsenic can run as high as 17 per cent, there are few options for the miner to be paid a decent price for his labours. During the last year, over 150 tonnes per day of high arsenic compounds found their way to Asia for processing, but the prices paid to the miner can be as low as 50 per cent of the value of the concentrate before even more deductions are*

*made for high-arsenic penalties. In addition, the buyer retains any mineral credits such as silver and copper. Bactech would be able to recover more of the gold, as well as most of the other mineral credits, thus allowing higher payments to be made to local AGMs for their concentrate.*

*The opportunity provided to Bactech is real. Given Bactech's experience in bioleaching, and after studying the local market with the assistance of the company's newly appointed country representative, Bernardo Brito, Bactech is confident that a strategy of building a bioleach circuit in Ponce Enriquez would provide healthy returns, not only for the company, but also for the local inhabitants. With Ponce Enriquez exports of high-arsenic concentrates growing at a 15-to-20-per-cent yearly rate during the last decade, Bactech would be able to capitalize on a booming mining district and contribute to its sustainability with minimal competition.*

*The benefits to Ecuador and Ponce Enriquez are readily identifiable: from the government's perspective, an increase in employment and subsequent tax receipts; from the locals' perspective, an increase in what they are paid for their ores, as well as an improvement in the environment in which they live due to the elimination of the use of mercury because of the reduced arsenic release into the local environment from processing the concentrate.*

*Should Bactech be successful in implementing its strategy for Ecuador, there are opportunities to duplicate these plants in other high-arsenic areas of the Andes Mountains, namely northern Peru and Colombia.*

*It is Bactech's intention to source a local partner in all its international projects.*

#### *Current Activities*

*On June 7, 2017 the Company reported that it had shipped approximately 150 kg of arsenopyrite gold concentrate to Laurentian University in Canada. With the supervision of Inspectorate Ecuador (subsidiary of Bureau Veritas S.A.), the concentrates were collected from various flotation plants in Ponce Enriquez, Southern Ecuador. In addition to concentrate, smaller samples of oxidized rock and unprocessed arsenopyritic ore were shipped. The material contains various levels of arsenic and will be subject to a test work programme aimed at demonstrating the economic, environmental and technical viability of using BacTech's Bioleaching Technology as a pre-treatment method for gold extraction. The test work will be conducted and partially funded under the Ontario government's Center of Excellence program*

*The Company will be working closely with Dr. Nadia Mykytczuk at Laurentian University to complete the five-to-six-month bioleach test work program. A successful outcome from this program would allow Bactech to pursue the construction of a bioleach plant near the flotation circuits of the area, and to become the sole processor of gold concentrate that is currently shipped halfway around the world.*

*On May 2, 2017, the Company announced that their joint application with Laurentian University to Ontario Centres of Excellence had been approved for \$75,000 through OCE's Voucher for Innovation and Productivity II, offered on behalf of the Province of Ontario. The funding will be used to complete the bioleaching test work.*

## Peru

*In a joint press release dated November 17, 2015, BacTech announced that it had signed a non-binding memorandum of understanding with Duran Ventures Inc. ("Duran")*

*The basis of the memorandum of understanding is to determine the financial viability of constructing a bioleach circuit to be built as an add-on to Duran's Aquila Norte mineral processing plant near Trujillo, Peru (see Duran news release dated Oct. 19, 2015). Construction of the Aquila Norte plant, has reached the commercialization stage and should begin processing sulphide ores shortly.*

*If further investigation shows favourable economics on identifiable mineralized material, a joint venture will be formed with Duran's 80% subsidiary (Minera Aguila de Oro SAC) and BacTech, with each party holding 50% ownership of the bioleach circuit. BacTech will finance the cost of the construction of the bioleach circuit. Duran will have the right to participate in BacTech's financing if a construction decision is considered.*

*There has been very little progress in this project to date due to delays experienced by Duran in completing their sulphide flotation plant.*

## Other

*The Company continues to receive and evaluate other expressions of interest and potential projects from many different countries and companies, the latest being the project in Bolivia, Peru, and Ecuador.*

3. Describe and provide details of any new products or services developed or offered. For resource companies, provide details of new drilling, exploration or production programs and acquisitions of any new properties and attach any mineral or oil and gas or other reports required under Ontario securities law.

*Not applicable.*

4. Describe and provide details of any products or services that were discontinued. For resource companies, provide details of any drilling, exploration or production programs that have been amended or abandoned.

*Not applicable.*

5. Describe any new business relationships entered into between the Issuer, the Issuer's affiliates or third parties including contracts to supply products or services, joint venture agreements and licensing agreements etc. State whether the relationship is with a Related Person of the Issuer and provide details of the relationship.

*Not applicable.*

6. Describe the expiry or termination of any contracts or agreements between the Issuer, the Issuer's affiliates or third parties or cancellation of any financing arrangements that have been previously announced.

*Not applicable.*

7. Describe any acquisitions by the Issuer or dispositions of the Issuer's assets that occurred during the preceding month. Provide details of the nature of the assets acquired or disposed of and provide details of the consideration paid or payable together with a schedule of payments if applicable, and of any valuation. State how the consideration was determined and whether the acquisition was from or the disposition was to a Related Person of the Issuer and provide details of the relationship.

*Not applicable.*

8. Describe the acquisition of new customers or loss of customers.

*Not applicable.*

9. Describe any new developments or effects on intangible products such as brand names, circulation lists, copyrights, franchises, licenses, patents, software, subscription lists and trade-marks.

*Not applicable.*

10. Report on any employee hirings, terminations or lay-offs with details of anticipated length of lay-offs.

*Not applicable.*

11. Report on any labour disputes and resolutions of those disputes if applicable.

*Not applicable.*

12. Describe and provide details of legal proceedings to which the Issuer became a party, including the name of the court or agency, the date instituted, the principal parties to the proceedings, the nature of the claim, the amount claimed, if any, if the proceedings are being contested, and the present status of the proceedings.

*Not applicable.*

13. Provide details of any indebtedness incurred or repaid by the Issuer together with the terms of such indebtedness.

*Not applicable.*

14. Provide details of any securities issued and options or warrants granted.

Security	Number Issued	Details of Issuance	Use of Proceeds <sup>(1)</sup>
NA			

15. Provide details of any loans to or by Related Persons.

*Not applicable.*

16. Provide details of any changes in directors, officers or committee members.

*Not applicable.*

17. Discuss any trends which are likely to impact the Issuer including trends in the Issuer's market(s) or political/regulatory trends.

*Not applicable.*



## Certificate of Compliance

The undersigned hereby certifies that:

1. The undersigned is a director and/or senior officer of the Issuer and has been duly authorized by a resolution of the board of directors of the Issuer to sign this Certificate of Compliance.
2. As of the date hereof there were is no material information concerning the Issuer which has not been publicly disclosed.
3. The undersigned hereby certifies to CNSX that the Issuer is in compliance with the requirements of applicable securities legislation (as such term is defined in National Instrument 14-101) and all CNSX Requirements (as defined in CNSX Policy 1).
4. All of the information in this Form 7 Monthly Progress Report is true.

Dated: August 2, 2017

**Name of Director or Officer:** Louis R. Nagy

**Signature:** *signed "Louis R. Nagy"*

**Official Capacity:** Chief Financial Officer

<b>Issuer Details</b>		For Month	Date of Report
Name of Issuer		End	YY/MM/DD
BacTech Environmental Corporation		July 2017	17/08/02
Issuer Address			
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