

ADMINISTRATION

CNSC CCSN



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2008 JUL 11 AM 8:11

July 21, 2008

Michael Binder PhD.  
President and CEO  
Canadian Nuclear Safety Commission  
Headquarters  
280 Slater Street  
P.O. Box 1046  
Station B  
Ottawa, ON  
K1P 5S9

FILE NUMBER	4.05.02 37-5-4-0
APPROVED BY	Cameroon J.K

**Re: Release of treated contaminated water - Welcome CNSC licensed facility into Lake Ontario - WNSL-W1-2339.0/indf.**

The undersigned residents of Ontario would like to bring to your attention that Cameco Corporation has been dumping "treated" but contaminated water in to Lake Ontario from a CNSC licensed site in Welcome (Port Hope) through a CNSC approved pipeline on municipal property. This is an apparent breach of numerous Federal and Provincial Statutes. The pipeline break was discovered recently on a public beach on the shore of Lake Ontario. The pipeline is currently broken and is ejecting copious amounts of water into Lake Ontario.

The break was discovered by a pilot flying low over Lake Ontario. Curious, the pilot contacted a local resident who along with a number of the undersigned paid for a series of tests of the hundreds of gallons of contaminated water that are hourly pouring into Lake Ontario under pressure. The initial two test results are attached for review by your staff.(schedule "A") They indicate levels of arsenic that exceed provincial drinking water quality standards by two (2) times and uranium concentrations that exceed standards by fifty times. Subsequently five additional sets of tests have been taken and we are awaiting those test results from the laboratories.

They will be forwarded to you when they are available. A number of the signatories to this letter draw water directly from Lake Ontario downstream from the pipeline break as does the municipal water treatment system. It has only recently been upgraded to eliminate the contaminants that concern us.

The pipe was installed after 15 cows of one of the signatories died in 1957 from drinking the water from a local creek into which the contamination drained. The pipeline was installed to route the water directly into the Lake Ontario. It was intended to pump the ARSENIC and radioactive contaminants directly into Lake Ontario, the source of drinking water for hundreds of thousands Canadians and Americans. Apparently, the thinking of the day was that the "...solution to pollution is dilution."

Modern thinking has changed and the Safe Drinking Water Act, 2002 and Ontario Regulations 169/03 ONTARIO DRINKING WATER QUALITY STANDARDS strictly control drinking water and protect it at Source. (Source Water Protection Act.) We have once again provided sections of the relevant provincial legislation for you to discuss with your staff.

We have attached a copy of information on the dead cows and the building of the pipeline which we can only assume has been draining contaminated water into Lake Ontario for the past 40 plus years.

The pipe goes well out into the Lake where no one ever noticed or tested the water before recent frost heaves broke the pipe at waters edge allowing for testing. It is our understanding that Cameco is supposed to maintain the pipeline.

The pipeline runs south from the "NUMBER ONE DUMP on LOT 2, Concession 2, down the municipal right of way between lots 14 and 15 to Lake Ontario. This is municipal property and the broken pipe is venting onto the beach and thus the municipality of Port Hope is subject to the provisions of the Source Water Protection Act.

The taking of water samples followed the instructions of Caduceon Environmental Laboratories in Peterborough, who was one of three laboratories contacted. The water sampling was filmed both with digital cameras and video cameras and the sampling was done as instructed by the laboratory. We have attached some of the photographs of the sample taking for your review and that of your staff. (schedule "B")

We chose Caduceon Environmental Laboratories in Peterborough, as the tests are done at their facilities in Ottawa. We were not able to afford tests that would have told us what types of uranium are venting. The dumpsite from which the water is being pumped contains waste from decades of operation of Eldorado the forerunner to Cameco and is known to contain a toxic chemical soup. Copies of two sets of tests taken on the 22<sup>nd</sup> of June and the 7<sup>th</sup> of July are attached as schedule "C" hereto.

A number of individuals who have signed this letter have raised the new Provincial Regulations with your senior staff and at Commission Hearings with no apparent action.

The license in question, WNSL-W1-2339.0/indf., was granted by the CNSC on May 16, 2002, for an indefinite period. The license limits the outflow of arsenic to 0.5 mg/L – that is 50 times the Canadian Drinking Water Guidelines. Our readings so far of arsenic concentrations of .02 mg/L are four times the Canadian and Ontario (IPWQO) drinking standards but well within the CNSC license limits. Cameco's own testing, done July – September 2007, shows concentrations from .011 to .04 mg/L.

Commissioner Binder, uranium is another story. The license sets no limits. That's right – no limits for uranium effluent into Lake Ontario and the Great Lakes basin which is subject to numerous treaties and agreements on water quality and contamination. Our readings so far, of .070 and .246 mg/L, are equivalent to Cameco's own readings. They

range from .03 to .24 mg/L for July to September 2007. Theirs and ours are more than 12 times the Canadian Drinking Water Guideline.

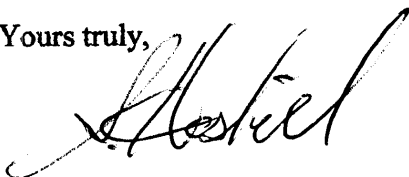
In summary Commissioner Binder, there are two issues that concern us greatly. The first is the huge discrepancy between the safe drinking water guidelines set out by Health Canada and the province of Ontario and that proposed by your staff and agreed to by the Commission and the other is the apparent attention paid by Cameco to the repair of the pipe. Had the pipe broken further north acres of land and the Creek might have been contaminated unnoticed until a third party discovered a break and contaminated land.

These concerns must be addressed in detail by the CNSC, Cameco, the Municipality of Port Hope and the various Federal and Provincial Ministries that are responsible for fisheries and the environment.

We expect the regulator to undertake the following steps immediately in conjunction with Cameco and the Municipality of Port Hope.

- 1.) suspend the license to dump contaminated nuclear waste and arsenic into lake Ontario immediately and require Cameco and the municipality of Port Hope to arrange for disposal of the contaminated water into a licensed treatment facility until the Welcome site can be upgraded to meet federal and provincial standards,
- 2.) Shut down the pumping system until a treatment method that meets all provincial and federal standards is installed and tested,
- 3.) Conduct an investigation to determine why Health Canada guidelines and the provisions of new legislation in Ontario relating to Source Water Protection and safe Drinking water have been ignored by your staff in spite of the concerns raised at CNSC Hearings and conversations,
- 4.) Undertake the appropriate test for negative impact on aquatic life and report the results and make them available to the public,
- 5.) Have the water tested to determine which radionuclides (there are over 200 possible) are being pumped into Lake Ontario and make the reports public,
- 6.) Undertake extensive soil testing at the exit of the pipe both at its terminus underwater and where it is currently spewing into Lake Ontario and on the public beach and release the results of those tests and require clean-up and removal of any contaminated soil on the beach and in Lake Ontario to a licensed dump site,
- 7.) Immediately review the license and bring it into conformity with Health Canada and Province of Ontario Drinking Water Guidelines and legislation,
- 8.) Make all correspondence and documentation available to the public without the costly FOI process.

Yours truly,



Contact: Sanford Haskill 905-885-8743.

John Haskill

+ Mark Haskill

Lynne Power

Walter Blecker

Tony Power

Hans Blecker

S Haskill

~~Mark~~

Helen Anne Haskill

Laura Julie Blecker

Stephen Grayson

Ken Watts

Scott Bracken

Patricia Briskos

Susan Bracken

POINT HOPE CONSULT.

Arthur Willey

FAIR BOARD MEMBER.

Constance Cunningham

Don Rudka

(FORMER NUCLEAR WORKER)

Blakely Cunningham

Dorlene Rudka

Dan Tom

Jill Barradough

Louise Barradough

John E. Rainbird

FARE BOARD MEMBER

Andrew Jones

Louise Therese Jones

Fred Hodgson

C.O.C.: 27995

REPORT No. B08-19236

**Report To:**  
 Private - Peterborough

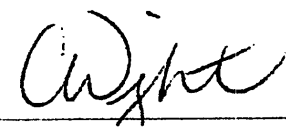
**Caduceon Environmental Laboratories**  
 160 Charlotte St. Suite 206  
 Peterborough, Ontario, K9J 2T8  
 Tel: 705-748-1506  
 Fax: 705-748-6514

**Attention:** Sanford Haskill  
**DATE RECEIVED:** 23-Jun-08  
**DATE REPORTED:** 27-Jun-08  
**SAMPLE MATRIX:** Surface Water

**JOB/PROJECT NO.:** Ganaraska River  
**P.O. NUMBER:**  
**WATERWORKS NO.:**

			Client I.D.:			Nuclear Dump Pipeline		
			Sample I.D.:			B08-19236-1		
			Date Collected:			22-Jun-08		
Parameter	Units	M.D.L.	Reference Method	Date/Site Analyzed	CDWG Guideline			
Chloride	mg/L	0.5	EPA 300.0	24-Jun-08/O	250	69.0		
Fluoride	mg/L	0.1	EPA 300.0	24-Jun-08/O	1.5	0.2		
Nitrite (N)	mg/L	0.1	EPA 300.0	24-Jun-08/O	1	< 0.1		
Nitrate (N)	mg/L	0.1	EPA 300.0	24-Jun-08/O	10	0.1		
Sulphate	mg/L	1	EPA 300.0	24-Jun-08/O	500	11		
Hardness (as CaCO3)	mg/L	1	SM 3120	25-Jun-08/O	200	181		
Aluminum	mg/L	0.01	SM 3120	25-Jun-08/O	0.1-0.2	< 0.01		
Antimony	mg/L	0.0005	EPA 200.8	26-Jun-08/O	0.006	0.0010		
Arsenic	mg/L	0.0005	EPA 200.8	26-Jun-08/O	0.010	0.0250		
Beryllium	mg/L	0.002	SM 3120	25-Jun-08/O		< 0.002		
Boron	mg/L	0.005	SM 3120	25-Jun-08/O	5.0	0.031		
Cadmium	mg/L	0.0001	EPA 200.8	26-Jun-08/O	0.005	< 0.0001		
Calcium	mg/L	0.02	SM 3120	25-Jun-08/O		57.8		
Chromium	mg/L	0.002	SM 3120	25-Jun-08/O	0.05	< 0.002		
Cobalt	mg/L	0.0005	EPA 200.8	26-Jun-08/O		0.0017		
Copper	mg/L	0.002	SM 3120	25-Jun-08/O	1.0	< 0.002		
Iron	mg/L	0.005	SM 3120	25-Jun-08/O	0.3	0.365		
Lead	mg/L	0.0001	EPA 200.8	26-Jun-08/O	0.010	< 0.0001		
Magnesium	mg/L	0.01	SM 3120	25-Jun-08/O		8.86		
Molybdenum	mg/L	0.0005	EPA 200.8	26-Jun-08/O		0.0025		
Nickel	mg/L	0.01	SM 3120	25-Jun-08/O		< 0.01		
Selenium	mg/L	0.001	EPA 200.8	26-Jun-08/O	0.01	0.003		
Silver	mg/L	0.0001	EPA 200.8	26-Jun-08/O		< 0.0001		

CDWG = Canadian Drinking Water Guidelines



Christine Wright  
 Lab Supervisor

M.D.L. = Method Detection Limit  
 Site Analyzed=K-Kingston, W-Windsor, O-Ottawa, P-Peterborough, M-Moncton

Accredited by CAEAL for specific tests.  
 The analytical results reported herein refer to the samples as received. Reproduction of this analytical report in full or in part is prohibited without prior written consent from Caduceon Environmental Laboratories.

**C.O.C.: 27995**

**REPORT No. B08-19236**

**Report To:**  
 Private - Peterborough

**Caduceon Environmental Laboratories**  
 160 Charlotte St. Suite 206  
 Peterborough, Ontario, K9J 2T8  
 Tel: 705-748-1508  
 Fax: 705-748-6514

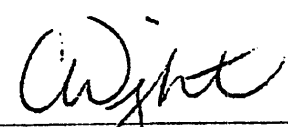
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			Sample I.D.:		B08-19236-1		
			Date Collected:		22-Jun-08		
Parameter	Units	M.D.L.	Reference Method	Date/Site Analyzed	CDWG Guideline		
Thallium	mg/L	0.0003	EPA 200.8	26-Jun-08/O		< 0.0003	
Tungsten	mg/L	0.01	SM 3120	25-Jun-08/O		< 0.01	
Uranium	mg/L	0.0003	EPA 200.8	26-Jun-08/O	0.02	0.246	
Vanadium	mg/L	0.005	SM 3120	25-Jun-08/O		< 0.005	
Zinc	mg/L	0.005	SM 3120	25-Jun-08/O	5.0	< 0.005	
Zirconium	mg/L	0.003	SM 3120	25-Jun-08/O		< 0.003	

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**Christine Wright**  
 Lab Supervisor

**M.D.L. = Method Detection Limit**  
**Site Analyzed=K-Kingston,W-Windsor,O-Ottawa,P-Peterborough,M-Moncton**

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C.O.C.: 28082

REPORT No. B08-21082

**Report To:**  
 Private - Peterborough

**Caduceon Environmental Laboratories**  
 160 Charlotte St. Suite 206  
 Peterborough, Ontario, K9J 2T8  
 Tel: 705-748-1506  
 Fax: 705-748-6514

**Attention:** Sanford Haskill

DATE RECEIVED: 07-Jul-08

JOB/PROJECT NO.: Ganaraska River

DATE REPORTED: 15-Jul-08

P.O. NUMBER:

SAMPLE MATRIX: Surface Water

WATERWORKS NO.

Parameter	Units	M.D.L.	Reference Method	Date/Site Analyzed	CDWG Guideline	Client I.D.:		Pipe Line Water	
						Sample I.D.:	Date Collected:		
Chloride	mg/L	0.5	EPA 300.0	11-Jul-08/O	250	89.8	B08-21082-1	07-Jul-08	
Fluoride	mg/L	0.1	EPA 300.0	11-Jul-08/O	1.5	0.2			
Nitrite (N)	mg/L	0.1	EPA 300.0	11-Jul-08/O	1	< 0.1			
Nitrate (N)	mg/L	0.1	EPA 300.0	11-Jul-08/O	10	< 0.1			
Sulphate	mg/L	1	EPA 300.0	11-Jul-08/O	500	9			
Hardness (as CaCO3)	mg/L	1	SM 3120	08-Jul-08/O	200	183			
Aluminum	mg/L	0.01	SM 3120	08-Jul-08/O	0.1-0.2	0.02			
Antimony	mg/L	0.0005	EPA 200.8	14-Jul-08/O	0.006	< 0.001			
Arsenic	mg/L	0.0005	EPA 200.8	14-Jul-08/O	0.010	0.020			
Beryllium	mg/L	0.002	SM 3120	08-Jul-08/O		< 0.002			
Boron	mg/L	0.005	SM 3120	08-Jul-08/O	5.0	0.043			
Cadmium	mg/L	0.0001	EPA 200.8	14-Jul-08/O	0.005	< 0.0002			
Calcium	mg/L	0.02	SM 3120	08-Jul-08/O		58.5			
Chromium	mg/L	0.002	SM 3120	08-Jul-08/O	0.05	< 0.002			
Cobalt	mg/L	0.0005	EPA 200.8	14-Jul-08/O		< 0.001			
Copper	mg/L	0.002	SM 3120	08-Jul-08/O	1.0	< 0.002			
Iron	mg/L	0.005	SM 3120	08-Jul-08/O	0.3	0.434			
Lead	mg/L	0.0001	EPA 200.8	14-Jul-08/O	0.010	< 0.0002			
Magnesium	mg/L	0.01	SM 3120	08-Jul-08/O		8.93			
Molybdenum	mg/L	0.0005	EPA 200.8	14-Jul-08/O		0.0438			
Nickel	mg/L	0.01	SM 3120	08-Jul-08/O		< 0.01			
Selenium	mg/L	0.001	EPA 200.8	14-Jul-08/O	0.01	< 0.002			
Silver	mg/L	0.0001	EPA 200.8	14-Jul-08/O		< 0.0002			

CDWG = Canadian Drinking Water Guidelines



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 Lab Supervisor

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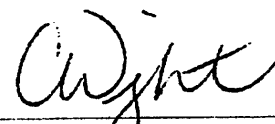
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**DATE RECEIVED:** 07-Jul-08  
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Parameter	Units	M.D.L.	Reference Method	Date/Site Analyzed	CDWG Guideline	Client I.D.:		
						Pipe Line Water		
						Sample I.D.:		
						Date Collected:		
						B08-21082-1		
						07-Jul-08		
Thallium	mg/L	0.0003	EPA 200.8	14-Jul-08/O		< 0.0005		
Tungsten	mg/L	0.01	SM 3120	08-Jul-08/O		0.05		
Uranium	mg/L	0.0003	EPA 200.8	14-Jul-08/O	0.02	0.0704		
Vanadium	mg/L	0.005	SM 3120	08-Jul-08/O		< 0.005		
Zinc	mg/L	0.005	SM 3120	08-Jul-08/O	5.0	< 0.005		
Zirconium	mg/L	0.003	SM 3120	08-Jul-08/O		< 0.003		

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Port Hope's Historic Low-Level Radioactive Waste  
Located at  
Welcome Dump Site (Between Brand Rd. & Baulch Rd.)

The Welcome Dump Site is the headwaters of Brand Creek, which flows to the west and then southerly to Lake Ontario. In 1955, the cattle of several farmers were pastured on land that Brand Creek ran through and the cattle died. Arsenic in the creek was the cause.

As a result, in 1956, a pipeline from the dump site down Brand Road to Lake Ontario, was built and another nuclear dump was started by the shore of Lake Ontario at Port Grandby.

The attached newspaper article is the story of cattle being found dead on Eldorado (now Cameco) property.

# 6 cows found dead in nuclear dump

PORT HOPE — Only three mounds of freshly disturbed topsoil in a quiet corner of the Eldorado Nuclear Limited dump remain as evidence that six Holstein cows were buried after they were found dead in the nuclear dump on Friday.

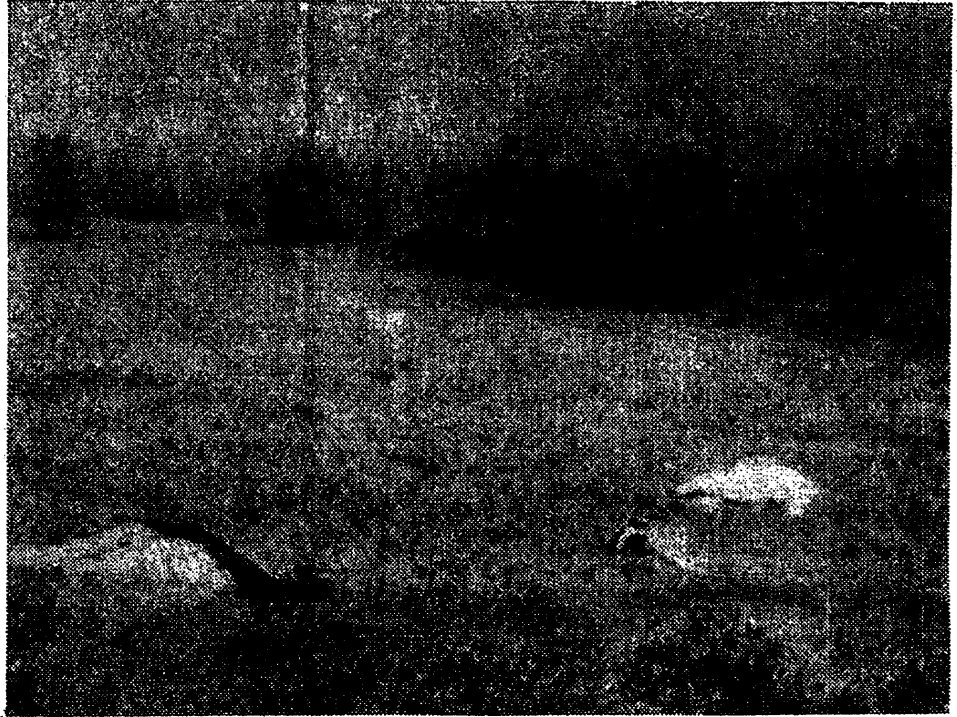
The fully grown cows owned by Bud Elliott, of RR 3, Newcastle, apparently wandered into the adjacent nuclear fuel disposal area at Port Granby through a break in the security fence along the lakefront. The dump is about 10 miles west of Port Hope.

It is believed the animals may have fed on some contaminated residue stored in the disposal area used by the Port Hope uranium refinery.

When contacted by The Examiner this morning, Gordon F. Colborne, manager of the plant, said he had no comment at the present time. He said he would issue a statement concerning the incident at the first of the week, "for anyone who may be interested."

A veterinarian from the Brighton office of the department of agriculture was called to the Fort Granby dump to examine the six Holstein carcasses. The department could not be reached this morning for comment.

A backhoe from Oliver's Construction Company in Port Hope was brought to the site to bury the dead cows.



DEAD COWS FOUND ON EL DORADO PROPERTY

Friday 21<sup>st</sup> 1974

**NOT TO BE CONFUSED WITH CANADA PIPELINE**

# Pipeline Problems Come To Port Hope

Hope Township, Durham County, has "PIPELINE PROBLEMS", not to be confused with Canada Pipe Lines but nevertheless the problem emanating from Port Hope was important enough to have had a hearing in the House of Commons earlier this year.

Gas to be this year or not, is not the question in Durham County, a question which disturbed the whole country and eventually retired George Drew to the hospital. The burning quandary in Hope Township, as it has been for many months, will be "settled" by a pipeline, estimated cost \$20,000, to "retire" alleged contamination from a dump out Port Britain way, west of Port Hope on the Lakeshore Road.

Readers of this newspaper are aware of two Eldorado dumps in Hope Township having read earlier this year about an indignation meeting concerning contaminated waters, sick livestock and worried farmers.

A sequel came to the question of pollution in the town at a meeting in Port Hope. Solicitor Russell C. Honey, representing Eldorado Mining and Refining Company, also

representing Hope Township Council, spoke on behalf of one body—Eldorado. He asked permission of Hope Township Council for the "right of way" to run a PIPELINE from NUMBER ONE DUMP on LOT 2, Concession 2, down the side-road between lots 14 and 15 to Lake Ontario.

Mr. Honey stated that the pipeline was required to drain away effluence said to be polluting the stream known as Brand's Creek, Port Britain. The solicitor showed three alternative proposed routes planned on a blueprint.

James Alexander, resident of the immediate locality, said he was not in favor of the PIPELINE running down the road adjacent to his property due to the possibility of a plastic PIPE being damaged with pollution resulting. Even Mortgage Man or (Lex Schrag) complains that a poor grade of tinfoil is used for pipe section joints.

A councillor remarked that the project would be costly—an official response was to the effect that the PIPELINE might be a less costly venture than

the subsequent payment of damages to farmers.

Reeve Victor Wilson, Deputy-reeve George Stapleton, Councillors Carmen Bell, John D. Ford, Mac Walker, later viewed the proposed PIPELINE routes, decided on approval of 3-inch plastic pipe, with joints every 100 feet—and an Oshawa firm to do the job.

Earlier this year Hansard, official Government record of parliament day-to-day procedure, duly recorded a query of Green (PC), BC, and reply by C. D. Howe concerning contamination in Hope Township. Little did the doughty political warrior realize that there would be NOT ONE but TWO PIPELINE PROBLEMS in Canada this year.

Latest report is that Canada Pipeline will not be completed this year—Durham County Pipeline (if its "generous" 3-inch diameter can take it, 15,000 feet and all at 86c per foot, plus accessories) is destined to carry some ARSENIC into Lake Ontario if it is not plugged up by Old Lace on the way.

A spectrographic and chemical examination of liquid tak-

en from Brand's Creek, Hope Township, revealed 4.0 ppm arsenic—"the presence of Arsenic and — are significant" runs the report.

Excerpt from a letter from The Department of Health, Province of Ontario, signed by A. E. Berry, to a township farmer: "I am attaching a copy of a report prepared by our Mr. Ball following his inspection on July 4th of the creek which passes through your farm and which drains the tailings dump of Eldorado and Refining Company. A copy of this report and analysis has been forwarded to the Company with a request that this office be advised of action being taken to deal with the matter."

Sing a song of Arsenic  
Add some aqua pure;  
Stir up the muddy mix  
For Bessy cow's "liqueur".

Arsenic and Old Lace  
From Brand's Creek transferred,  
Pumped up a mighty line  
Into the lake interred.

Sing a song of Arsenic  
A docket full of sludge.  
Isn't this a dainty dump  
To put before the Judge.

