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January 30, 2013

Reference No. 017948

Mr. David Szymanski New York State Department of Environmental Conservation 270 Michigan Avenue Buffalo, NY 14203-2999

Dear Mr. Szymanski:

Re:

Periodic Review Report

Ellison Bronze Site (formerly Dowcraft), Falconer, New York

Site No. 907018

Pursuant to the New York State Department of Environmental Conservation (NYSDEC) letter dated September 18, 2009, this letter provides the 2010 – 2012 Site Management Periodic Review Report for the Ellison Bronze Site (formerly Dowcraft) located at 125 West Main Street in Falconer, New York (Site).

INTRODUCTION

The Ellison Bronze Site is an operating foundry producing brass doors and hardware. Historically, some of the foundry wastes were deposited at the back of the property. These wastes included metal filings, and being a brass foundry, resulted in some lead wastes that exceeded New York State criteria. The extent of the waste was delineated and remediated by stabilizing the waste with cement.

The remediation has been proven effective through the testing that was performed at the time the stabilization was performed in 1995 and with subsequent groundwater sampling that has proven that no lead leaches from the stabilized waste.

Ellison Bronze maintains the Site in accordance with the requirements of the NYSDEC approved post-remedy plan and performs corrective measures on an as-needed basis. As noted in the NYSDEC's February 3, 2010 email (from David Szymanski to Jim Kay), Periodic Review Reports are now required to be submitted every 3 years, consistent with the frequency of the groundwater monitoring events (i.e., once every 3 years).

All of the activities performed at the Site have been completed in accordance with the terms specified in the Order on Consent that was signed by Ellison Bronze and the NYSDEC on June 13, 1995 and as amended by subsequent correspondence from the NYSDEC dated June 13, 2001, December 15, 2006, and February 3, 2010.





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SITE OVERVIEW

The Ellison Bronze Site is located in the developed area of Falconer at 125 West Main Street. The Site is bounded to the northwest by West Main Street; to the northeast by Moon Brook; to the southeast by the Chadakoin River; and to the southwest by adjacent commercial and residential properties. The waste materials identified at the Site occupied an area approximately 60 feet by 130 feet in the southeast corner of the property along Moon Brook and the Chadakoin River.

The Site was remediated in 1995. The remedy consisted of the excavation and stabilization of approximately 1,400 cubic yards of lead contaminated foundry waste and 60 cubic yards of copper contaminated stream sediment. The extent of impacted materials was identified in the investigations performed at the Site in the immediately preceding years. The results of the Site studies showed that there were no other impacts to the Site or the waterways other than the identified materials. Based on the investigations, there was no impact to the soils beneath the foundry waste and there was no impact on groundwater quality.

The impacted materials were stabilized with Portland cement in a mixer in small batches. Each batch was tested using aggressive TCLP methods to confirm that the stabilized material would not leach any deleterious material. All data from the stabilized material were reviewed and approved by the NYSDEC prior to backfilling. Samples were also collected from the base and sidewalls of the excavation to confirm that all lead impacted waste and copper impacted sediment had been removed.

Following backfilling of the stabilized materials, the area was repaved to match previous conditions and to further eliminate the potential for contact with the stabilized materials.

The banks along Moon Brook and Chadakoin River were stabilized with large stone, concrete barriers, and topsoil / vegetation as appropriate to match the topographic conditions along each portion of the waterway.

There have been no releases from the stabilized material since completion of the remediation in 1995 and thus the remedy has met the cleanup goals and closure requirements.

There have been no changes to the remedy since 1995 other than routine maintenance activities.



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EVALUATE REMEDY PERFORMANCE, EFFECTIVENESS, AND PROTECTIVENESS

As evidenced by the groundwater data collected at the Site, there have been no releases of lead from the stabilized waste. Consequently, the remedy is performing as designed and is effective and protective of human health and the environment.

MONITORING PLAN COMPLIANCE

Commencing in November of 1996, and continuing through December of 2012, groundwater samples have been collected from the three on-Site wells in accordance with the long term monitoring plan. As agreed in a letter dated June 13, 2001, the NYSDEC has approved a reduction in the groundwater monitoring program in that samples from the three wells need only be collected once, every 2 years. A subsequent letter from the NYSDEC dated December 15, 2006 has approved a further reduction in the groundwater sampling frequency to once, every 3 years. Consequently, groundwater sampling events were conducted in 2009 and 2012.

Groundwater sampling was performed on December 17, 2012 in accordance with the Long-Term Monitoring Plan contained in the *Soil/Sediment Stabilization Summary Report*, *Dowcraft Corporation, Ellison Bronze Site, Falconer, New York*. Three monitoring wells were sampled (ESI-1R, ESI-2, and ESI-3).

Purging was continued until sediment-free water was obtained. Sediment-free water was determined by both visual observation and the use of a field turbidemeter. Turbidity values of less than 5 NTU were obtained at all three sampling locations.

Each well was sampled for lead, barium, manganese, and iron. The samples were placed in a cooler with ice and shipped to the TestAmerica Laboratory in Pittsburgh PA on December 17, 2012 following appropriate chain-of custody procedures. Table 1 presents the 2012 analytical results for the groundwater samples.

The 2012 analytical results for each parameter were below New York State Class GA Groundwater Standards at all locations with the exception of manganese at location ESI-2. Based on historic results, manganese was typically only found at higher concentrations at ESI-1R. It is therefore suspected that there has been an error in either the sampling or analysis of the samples for these two wells and that the data have been switched between the two wells. However, a confirmation from both the sampler and laboratory was not able to identify any error. The results from the next sample round in 2015 will be carefully reviewed to confirm the actual conditions. Given that the parameter is manganese and the concentration is only 5 mg/L, there is no environmental threat.



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The reported level of manganese, however, is similar to those detected during all previous sampling events (1996 through 2009) and is less than those reported at the same location during the Remedial Investigation in 1992. A historical summary for all sampling rounds is provided in Table 2. In accordance with the current schedule, the next sampling event will occur late in the year 2015, followed by the preparation of the next Periodic Review Report.

OPERATION & MAINTENANCE PLAN COMPLIANCE

In accordance with the Long-Term Monitoring Plan contained in the *Soil/Sediment Stabilization Summary Report, Dowcraft Corporation, Ellison Bronze Site, Falconer, New York,* semi-annual inspections are made of the paved areas, grass area, stream banks, and on-Site monitoring wells. Copies of the semi-annual inspection reports are attached. The reports show that all of the inspected Site features are in good to satisfactory condition. Consequently, no repairs or maintenance were required in 2012, other than the repair to one monitoring well cap. The well cover of ESI-3 has been destroyed and a temporary cover was installed in December. Once the spring weather arrives, a permanent repair of this well cover will be made.

OVERALL CONCLUSIONS AND RECOMMENDATIONS

All of the required work was completed and is reported herein. The remedy has effectively isolated and secured the waste material and there is no risk to human health or the environment.

The groundwater concentrations from the samples collected in 2012 are similar to those of the previous 16 years. All of the data show that the lead contaminated materials have been suitably addressed from an environmental perspective and that no leaching of lead has or will occur. Consequently, it is concluded that the remediation of this Site has been successfully completed and that there is no need for continued groundwater monitoring of this Site.

As required, a completed copy of the Site Management Periodic Review Report Notice – Institutional and Engineering Controls Certificate Form is attached.



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Should there be any questions, please do not hesitate to contact me at 519-884-0510 or Mark Graves of Ellison Bronze at 716-665-6522.

Yours truly,

CONESTOGA-ROVERS & ASSOCIATES

James Ky

James K. Kay, P.Eng.

JKK/lp/7 Encl.

cc:

Mark Graves Dave Tyran

ANALYTICAL RESULTS SUMMARY GROUNDWATER SAMPLING ELLISON BRONZE FALCONER, NEW YORK DECEMBER 2012

Location: Sample ID: Date: eter	Units	712-003 12	ESI-1R WG-17948 121712-004 12/17/2012 Duplicate	WG-1799.	ESL-3 WG-17948 121712-001 12/17/2012
ng/L	7	100 U	100 U	200	100 U
gn	/r	3.0 U	1.4]	3.0 U	3.0 U
ng,	7/	84	81	2000	15 U
NTU	Ь	1.85	1.85	2.59	2.84

Note:

It is suspected that the manganese concentrations for ESI-1R and ESI-2 have been inadvertently switched for this sample round

HISTORICAL ANALYTICAL RESULTS SUMMARY GROUNDWATER SAMPLING LONG-TERM MONITORING PROGRAM DOWCRAFT CORPORATION, ELLISON BRONZE SITE FALCONER, NEW YORK

	2012	ND (0.003)/0.001J 0.091J/0.090J ND (0.1)/ND(0.1) 0.084/0.081
	2009	ND (0.003) 0.211 0.143 1.620
	2006	ND (0.003) 0.128J ND (0.10) 0.339
	2004	0.00197J/0.00242J 0.151/0.148 ND (0.2)/ ND (0.2) 1.390/1.350
3	2002	ND (0.005)/ND (0.005) 0.201/0.202 0.0998J/0.103J 2.78/2.78
ESI-1R	2000	ND (0.002)/ND (0.002) ND (0.005)/ND (0.005) 0.232/0.230 0.252/0.259 0.201/0.202 0.222/0.175 0.132/0.114 0.0998J/0.103J 2.13/2.13 3.08/3.13 2.78/2.78
	1999	ND (0.002)/ND (0.002) 0.232/0.230 0.222/0.175 2.13/2.13
	1998	.003)
	1997	ND (0.005)/ND (0.005) ND (0.002)/ND (0.002) ND (0.003)/ND (0.017/0.16 0.177/0.174 0.207/0.206 0.15/0.14 ND (0.06)/ND (0.06) 0.115/0.153 2.45/2.41 1.81/1.81
	1996	ND (0.005)/ND (0.005) 0.17/0.16 0.15/0.14 2.4/2.4
Class GA Groundwater Standard	(mg/L)	0.025 1.0 0.3 0.3
2		Total Lead Total Barium Total Iron Total Manganese

It is suspected that the manganese concentrations for ESI-1R and ESI-2 have been inadvertently switched for the 2012 sample round

Note:

HISTORICAL ANALYTICAL RESULTS SUMMARY

			2012	ND (0.003)	0.3500	0.2000	2
IAKY 1 ZESITE			2009	ND (0.003)	0.078J	0.025J	0.074
SOLIS SUMM MPLING NG PROGRAM LISON BRON; YORK			2006	ND (0.003)	0.159	0.032J	690.0
HISTORICAL ANALY ITCAL RESULTS SUMMARY LONG-TERM MONITORING PROGRAM DOWCRAFT CORPORATION, ELLISON BRONZE SITE FALCONER, NEW YORK			2004			ND (0.20)	0.033
LORICAL AN GROUT LONG-TERM CRAFT CORP FAL			2002	ND (0.005)	0.184	ND (0.020)	
DOW		ESI-2	2000	ND (0.005)	0.153	ND (0.050)	0.030
			1999	ND (0.002)	0.156	0.062	0.058
			1998	ND (0.003)	0.144	ND (0.06)	0.02
			1997	0.003	0.159	ND (0.06)	0.086
			1996	ND (0.005)	0.15	0.09	0.17
	Class GA	Standard	(mg/L)	0.025	1.0	0.3	0.3
				Total Lead	Total Barium	Total Iron	Total Manganese

Note:

It is suspected that the manganese concentrations for ESI-1R and ESI-2 have been inadvertently switched for the 2012 sample round

HISTORICAL ANALYTICAL RESULTS SUMMARY GROUNDWATER SAMPLING LONG-TERM MONITORING PROGRAM DOWCRAFT CORPORATION, ELLISON BRONZE SITE FALCONER, NEW YORK

FALCONI

Class GA

	1					
		2012	ND (0.003)	0.2	ND (0.10)	ND (0.015)
		2009	ND (0.003)/ND (0.003)	0.352/0.348	0.037J/0.037J	0.007J/0.007J
		2006	ND (0.003)	0.189J	ND (0.10)	0.005J
		2004	0.00212J	0.247	ND (0.20)	ND (0.010)
		2002	0.00165	0.0799	ND(0.200)	0.0033
	ESI-3	2000	ND (0.005)	0.077	0.074	ND (0.010)
		1999	ND (0.002)	0.086	0.079	0.005
		1998	ND (0.003)	0.113	ND (0.06)	ND (0.01)
		1997	0.003	0.136	ND (0.06)	ND (0.01)
		1996	ND (0.005)	0.17	90.0	0.007
roundwater	Standard	(mg/L)	0.025	1.0	0.3	0.3
)		I	Total Lead	Total Barium	Total Iron	Total Manganese

Note:

It is suspected that the manganese concentrations for ESI-IR and ESI-2 have been inadvertently switched for the 2012 sample round

ATTACHMENT 1

SEMI-ANNUAL INSPECTION CHECKLIST LONG-TERM MONITORING PLAN ELLISON BRONZE SITE FALCONER, NEW YORK

Inspection Personnel:	Wille KI	as/his	
Inspection Item	Good	Conditio Satisfactory	on Poor-Repairs Required
A. Paved Areas			
B. Grassed Areas		V	
C. Stream Banks			
D. Monitoring Wells			
Comments:			
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SEMI-ANNUAL INSPECTION CHECKLIST LONG-TERM MONITORING PLAN ELLISON BRONZE SITE FALCONER, NEW YORK

	Inspection Personnel:	William	HASKON	. :
,	Inspection Item		Condition	71
(*)	* •	Good	Satisfactory	Poor-Repairs Required
	,			0 - 0 4
	A. Paved Areas		$S \rightarrow S$	ome Repair
	B. Grassed Areas			
	C. Stream Banks			. 🗆
	D. Monitoring Wells			
ē	Comments:		,	
		•		

SEMI-ANNUAL INSPECTION CHECKLIST LONG-TERM MONITORING PLAN ELLISON BRONZE SITE FALCONER, NEW YORK

1	nspection Personnel:	While	Hach	. :
	Inspection Item	Good	Condition Satisfactory	on Poor-Repairs Required
Α.	Paved Areas		Q /	
В.	Grassed Areas		9	
C	Stream Banks			
D.	Monitoring Wells			
,	Comments:	•	•	

SEMI-ANNUAL INSPECTION CHECKLIST LONG-TERM MONITORING PLAN ELLISON BRONZE SITE FALCONER, NEW YORK

Date:

Inspection Item		Conditio	on
	Good	Satisfactory	Poor-Repairs Required
,			
A. Paved Areas		\Box	
B. Grassed Areas			
C. Stream Banks			
D. Monitoring Wells			
Comments:			
Appendix		international designation of the contract of t	

Inspection Personnel: Francis Dexfer

SEMI-ANNUAL INSPECTION CHECKLIST LONG-TERM MONITORING PLAN ELLISON BRONZE SITE FALCONER, NEW YORK

3-28-2012 Francis Dexter

Date:

Inspection Personnel:

Inspection Item		Condition	on
	Good	Satisfactory	Poor-Repairs Required
A. Paved Areas			
B. Grassed Areas			
C. Stream Banks			
D. Monitoring Wells			
		e	
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Comments:			

SEMI-ANNUAL INSPECTION CHECKLIST LONG-TERM MONITORING PLAN ELLISON BRONZE SITE FALCONER, NEW YORK

Inspection Item	Good	Condition Satisfactory	on Poor-Repairs Required
•			8
A. Paved Areas		\Box	
B. Grassed Areas			
C. Stream Banks			. 🗆
D. Monitoring Wells			
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Comments:		ran 1614 taning Pathia hita - 18 kasila an masatin a	,
£'.			



Enclosure 2 NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION Site Management Periodic Review Report Notice Institutional and Engineering Controls Certification Form



Sit	e No.		Site 907018	e Details	Box 1	
Sit	e Nam	e Elli	son Bronze Company			
City Co	e Addro y/Towr ounty: C e Acrea	ı: Fal hauta	coner uqua	ode: 14733		
Re	porting	Perio	d: December 31, 2009 to Dece	ember 31, 2012		
					YES	NO
1.	Is the	inforr	nation above correct?		İ	
	If NO	inclu	de handwritten above or on a se	eparate sheet.		
2.			or all of the site property been so endment during this Reporting	old, subdivided, merged, or undergone a Period?		
3.			een any change of use at the si RR 375-1.11(d))?	ite during this Reporting Period		to/
4.			ederal, state, and/or local permit property during this Reporting	ts (e.g., building, discharge) been issued Period?		
				4, include documentation or evidencey submitted with this certification form.		
5.	that o	locun		y submitted with this certification form.		to/
5.	that o	locun	nentation has been previously	y submitted with this certification form.		to ·
5.	that o	locun	nentation has been previously	y submitted with this certification form.		NO NO
5.	Is the	site o	nentation has been previously	y submitted with this certification form. nt?	Box 2	NO
5.6.7.	Is the	site c	nentation has been previously urrently undergoing developme	y submitted with this certification form. nt? use(s) listed below?	Box 2	NO
6.	Is the	curre	nentation has been previously urrently undergoing development nt site use consistent with the u ECs in place and functioning as	y submitted with this certification form. nt? use(s) listed below?	Box 2 YES	NO
6.	Is the Indus	curre	nentation has been previously urrently undergoing development nt site use consistent with the u ECs in place and functioning as IE ANSWER TO EITHER QUEST DO NOT COMPLETE THE REST	y submitted with this certification form. nt? se(s) listed below? designed? FION 6 OR 7 IS NO, sign and date below a	Box 2 YES	
6. 7.	Is the Indus Are a	curre trial II ICs/	nentation has been previously urrently undergoing development nt site use consistent with the u ECs in place and functioning as IE ANSWER TO EITHER QUEST DO NOT COMPLETE THE REST	y submitted with this certification form. nt? se(s) listed below? designed? FION 6 OR 7 IS NO, sign and date below a T OF THIS FORM. Otherwise continue. bemitted along with this form to address the	Box 2 YES	

SITE NO. 907018

Box 3

Description of Institutional Controls

<u>Parcel</u>

<u>Owner</u>

Institutional Control

105-18-19.3

Ellison Bronze Company

Monitoring Plan

Box 4

Description of Engineering Controls

Parcel

Engineering Control

105-18-19.3

Cover System

Engineering Control Details for Site No. 907018

Parcel: 105-18-19.3

- Deed Restriction per Order On Consent (6/13/1995)

- Record of Decision (3/1996): Semi-Annual Inspection and Annual Groundwater Sampling. (Modified to annual inspection and tri-annual groundwater sampling with DEC R9 concurrence.)

Box	5
	-

Periodic Review Report (PRR) Certification Statements

	Periodic Review Report (PRR) Certification Statements					
1.	I certify by checking "YES" below that:					
	 a) the Periodic Review report and all attachments were prepared under the direct reviewed by, the party making the certification; 	ion of, a	and			
	 b) to the best of my knowledge and belief, the work and conclusions described in are in accordance with the requirements of the site remedial program, and genera engineering practices; and the information presented is accurate and compete. 	n this certification ally accepted				
		YES	NO			
	the state of the s	b				
2.	If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:					
	(a) the Institutional Control and/or Engineering Control(s) employed at this site is the date that the Control was put in-place, or was last approved by the Departmen	unchan ıt;	iged since			
	(b) nothing has occurred that would impair the ability of such Control, to protect p the environment;	ublic he	alth and			
	(c) access to the site will continue to be provided to the Department, to evaluate t including access to evaluate the continued maintenance of this Control;	he rem	edy,			
	(d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and(e) if a financial assurance mechanism is required by the oversight document for the site, t mechanism remains valid and sufficient for its intended purpose established in the document.					
	· ·	YES	NO			
		Ь				
	IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.					
	A Corrective Measures Work Plan must be submitted along with this form to address the	ese issu	ues.			
	Signature of Owner, Remedial Party or Designated Representative Date					

IC CERTIFICATIONS SITE NO. 907018

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1.2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

MARK	GRAVES	at 125	HESTMAIN	4 STREET	FAKOHER,	47
prin	t name		print busines		•	
am certifying as	ELLISON BRO	HZE,	IHC.	(Owner or Remedial	Party)

for the Site named in the Site Details Section of this form.

Signature of Owner, Remedial Party, or Designated Representative Rendering Certification

Date

IC/EC CERTIFICATIONS

Box 7

Professional Engineer Signature

	I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law. 285 DELAWARE AVE., BUFFALO	NP
	punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law. 285 DELAWARE AVE, BUFFALO ROBERT G. ADAMS at CRA INFRASTRUCTURE EENGINEER print name print business address	11
	am certifying as a Professional Engineer for the OWNER	
	ATE OF NEW POR	
	Debert 4 alans 1/30/13	
9	Signature of Professional Engineer, for the Owner or Remedial Party, Rendering Certification Date Date	
		1