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Nirav R. Shah, M.D., M.P.H. Commissioner

January 27, 2014

William Welling, Project Manager New York State Department of Environmental Conservation Division of Environmental Remediation, BURE 625 Broadway Albany, NY 12233-7017

Re: Site 401031, 120 New Scotland Avenue, Albany

Dear Mr. Welling,

Attached you will find the 2013 Periodic Review Report and Certification Form for the Wadsworth Center's inactive hazardous waste site at 120 New Scotland Avenue.

If you have any questions or require further information, please contact me.

Sincerely,

Janne Holman

Laurie Duncan, Associate Project Coordinator Deputy Director of Safety

Attachments

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Periodic Review Report For NYS DOH Wadsworth Center (Site No. 401031) Albany, New York

Prepared for

New York State Department of Environmental Conservation 625 Broadway Albany, New York 12233



Prepared by

Laurie Duncan, Deputy Director of Safety Associate Project Coordinator

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1. EXECUTIVE SUMMARY

This Periodic Review Report (PRR) has been prepared to document the ongoing performance, effectiveness, and protectiveness of the selected remedy at the NYS DOH Wadsworth Center site as required by 6 New York Code of Rules and Regulations Part 375. The Wadsworth Center site (New York State Department of Environmental Conservation [NYSDEC] Site No. 401031) is located in the city of Albany, at the rear of property at 120 New Scotland Avenue (Figures 1 and 1a).

The overall purpose of this report is to demonstrate that the remedy selected in the Record of Decision (ROD) issued in March 1992 is protecting groundwater and showing current contamination concentrations in ground water are not migrating, and therefore not impacting human health or the environment. Originally the groundwater monitoring program at the Wadsworth Center site consisted of collecting groundwater samples and recording ground water elevations from three monitoring wells every fifth quarter. The site map with well locations is illustrated in Figure 2. The interpreted ground water map from the September 2011 sampling is illustrated in Figure 3. The corresponding map for the December 2012 scheduled sampling (conducted January 2013) is illustrated in Figure 4.

However, since original wells to the West of the site were apparently destroyed during construction of CMS, a TUO was signed with the property owner, and a replacement well was installed to evaluate ground water contaminants in that direction. Subsequently, well 8S to the south of the site was paved over in 2011 and the Wadsworth Center obtained a TUO with that property owner and was able to complete well replacement, near its original location, in January of 2013.

2. SITE OVERVIEW

After the Wadsworth Center reported past practices of ground disposal of chemical waste at 120 New Scotland Avenue, the location was listed as an inactive waste burial site. The firm of Environmental Resources Management was contracted to perform Remedial Investigation activities (performed in 1990 and 1991), develop the remedial plan, and perform required monitoring and testing. They have subsequently been involved in all aspects of the program management for this inactive waste site.

In 1992 the ROD was issued and the Remedial Plan developed. In August of 1993 the Order on Consent was issued. The Remedial Plan included installation of a geomembrane cap with vents and a ground water pump and treat system, and deed restrictions to eliminate disturbance of the cap area. The area covered by the cap would include a section of property owned by the Christian Brothers Academy (CBA). That piece of property was eventually purchased by DOH to maintain institutional control over the cap area.

The pump and treat system operated under the Operations and Maintenance Plan for roughly 7 years. Water analysis reports indicated that the system was not effectively removing contaminants as intended, so a request was made to DEC to allow DOH to remove the system. Approval for removal was granted in 2000, completed in 2001, and the decommissioning report approved in Spring 2002.

Secondary to the pump and treat system was fencing and access control. While the pump and treat system was operational, the plan was followed as required and fencing and access controls were maintained. When the pump and treat system was removed, the fencing and access controls were also eventually removed. As part of the pump and treat system removal plan, the original Order on Consent was modified to include a provision for monitoring ground water, whereby certain shallow wells would be sampled every fifth quarter to evaluate water levels and determine if contaminants were migrating from the original site. Three wells had been monitored according to plan. Those Groundwater Reports are on file for Dec. '03, March '05, September '06, Dec. '07, March '09, June 2010, and September 2011. As mentioned above, a fourth well was added to the matrix, and the original well (8S) that was covered over has since been replaced and sampled. All four wells were monitored during the postponed December 2012 sampling event that actually took place in January 2013 (report on file).

Vapor intrusion was evaluated in 2009, through a combination of soil vapor point tests (Geoprobe), internal building air samples, and analysis of building construction, ventilation, and space uses. Sample results showed no abnormal levels that may be attributable to the inactive burial site, and the subsequent NFA memo from DEC was issued.

3. REMEDY PERFORMANCE, EFFECTIVENESS, AND PROTECTIVENESS

3.1 INSTITUTIONAL CONTROLS/ENGINEERING CONTROLS CERTIFICATION

Engineering Controls (EC) were approved for removal and are no longer applicable to the site, with the exception of the cover system, which is still in place.

Institutional Controls (IC) could not originally be certified as land use restrictions could not be verified as being listed on deed documents. In 2012 the Wadsworth Center had a survey completed to reduce the area of the site to be considered as the "controlled area" to 0.5 acres (indicated in Figure 2), where land use and deed restrictions would apply. Due to additional information that was discovered, the survey was revised in April of 2013, with deed restrictions, and subsequently filed with the Albany County Clerk's Office.

3.1.1 Institutional Controls/Engineering Controls - Requirements and Compliance

The ICs/ECs applied at the site are in place as documented on the survey included as Figure 5. Land use restriction on deed documents have been recorded, along with the Declaration of Covenants and Restrictions document.

An area of chain link fence was erected as a security barrier over a portion of the cap area, but the depth of footings was kept shallow so as not to impact the function/integrity of the site cap. Any future such activity will be subject to the Site Management Plan.

Although small concentrations of the compound methyl tert-butyl ether have appeared in one of the monitoring wells for several sampling cycles, and three additional compounds were detected during the most recent sampling of the replacement well, there is currently no indication of potential impact on public health or the environment.

3.2 MONITORING PLAN COMPLIANCE

The Wadsworth Center has submitted a draft Site Management Plan to DEC for comment. This process will also help determine the frequency of PRR submissions required in the future.

As set forth in the modified Order on Consent, fifth quarter well monitoring has proceeded according to schedule. However, since well 8S to the South of the site was covered over, the Wadsworth Center secured an access agreement with the property owner to allow replacement of the monitoring well and subsequent access for continued monitoring. Monitoring well locations are detailed in Figure 2.

3.2.1 Groundwater Sampling

Groundwater samples have routinely been collected by ERM and analyzed by a NYSDOH approved environmental testing laboratory. Samples were analyzed for VOCs by USEPA Method 8260B, in accordance with the NYSDEC Analytical Services Protocol.

During two previous sampling events, one monitoring well (MW-8S) showed a concentration of methyl tert-butyl ether at 13 ug/L, which is above the NYSDEC Ambient Water Quality Standard (AWQS) of 10 μ g/L. The most recent sampling in January 2013 showed this well to have an MTBE concentration of 5.52 μ g/L (below DEC Standards). However, during that sampling event the presence of three additional compounds was detected in well 8S. Likewise, small amounts of ethyl ether were detected in well 9S to the north. Available historical data of detectable VOC's from ERM reports are summarized in Table 1. Ground water elevations and depth to water measurements for all sampling events are summarized in Table 2.

We are making an effort to determine possible sources for the compounds and whether the chemicals are originating from the site. The next round of ground water sampling will be conducted in March 2014, and the report may provide additional information and verification of results.

4. CONCLUSIONS

Concentrations of methyl tert-butyl ether (MTBE) in MW-8S have increased somewhat since first appearing in the December 2007 sampling. This compound also appeared in well 11S during the December 2007 sampling event, but had not been detected in that well since. The actual source of this compound is not definite, but since it has also been a fuel additive, one

possibility is that the MTBE may be from vehicle fuel infiltrating from the parking lot near where the well is located. Although well 8S is apparently down gradient, if the waste site were the source of the contaminant, it would be reasonable to expect the appearance of MTBE in well 11S in subsequent samplings. It would also be reasonable to expect the appearance of other contaminants, originally found in the "site", in one of the down gradient wells.

Small amounts of ethyl ether were detected in well 9S, and that same compound, as well as three additional compounds were, detected in replacement well 8S. The source of these compounds in these wells has yet to be verified. Well 9S is generally up gradient from the site, and 8S is down gradient. One potential source of the chemicals in 8S was postulated, but the unlikely hood of it being the source has dismissed it for now. Again, if the site were the source of the chemicals, it would reasonable to expect their appearance in other wells, particularly the other down gradient well (11S).

Continued monitoring of the current wells will help evaluate the source and detail if there is actual movement from the cap site.

The Wadsworth Center is again in the process of securing an access agreement with the property owner to the South of the site to allow access for continued monitoring. This process is expected to be finalized before the end February, and before the next round of sampling slated for March of 2013.

Part of an annual review process, included in the draft SMP, will be a reiteration to staff that official site restrictions are in place to ensure no projects/activities are undertaken within the site boundary without proper review and approval by the site coordinator and the DEC.

The modified Order on Consent references evaluation of technologies for the remediation of soils, and submittal of a Remedial Action Report every five years. To my knowledge, a formal evaluation has not been conducted concerning soil remediation technologies, and nothing of that nature has been brought to our attention by our consultant. The Wadsworth Center will review documentation periodically to determine if any new technologies may be available for effective site remediation.

Figure 1

SITE LOCATION MAP

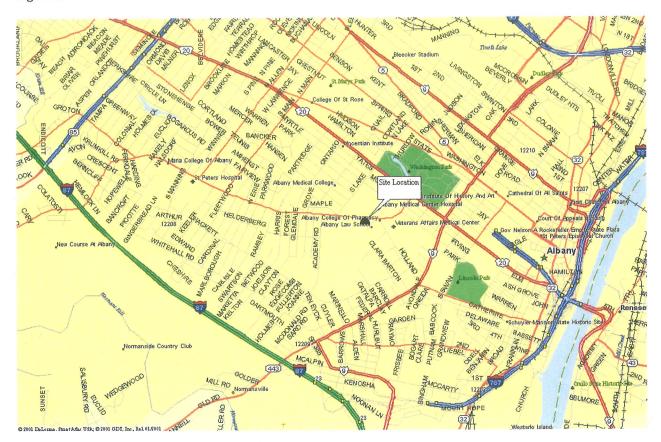


Figure 1a - Site and Site Boundaries



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Approximate Controlled Area Boundary

Approximate Property Boundary

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Figure 2 - Site Map with Well Locations

Approximate Cap Boundary

Monitoring Well Locations (125, 85, 95, 115)

Proposed Area Subject to SMP



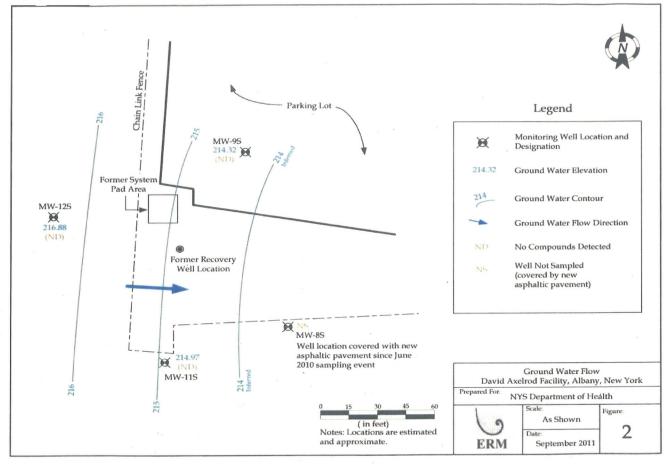
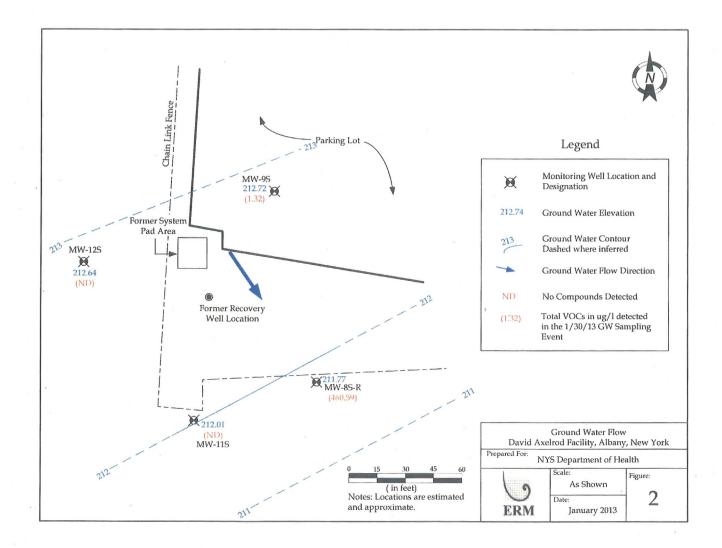


Figure 4 Groundwater Contour Map (01/13)



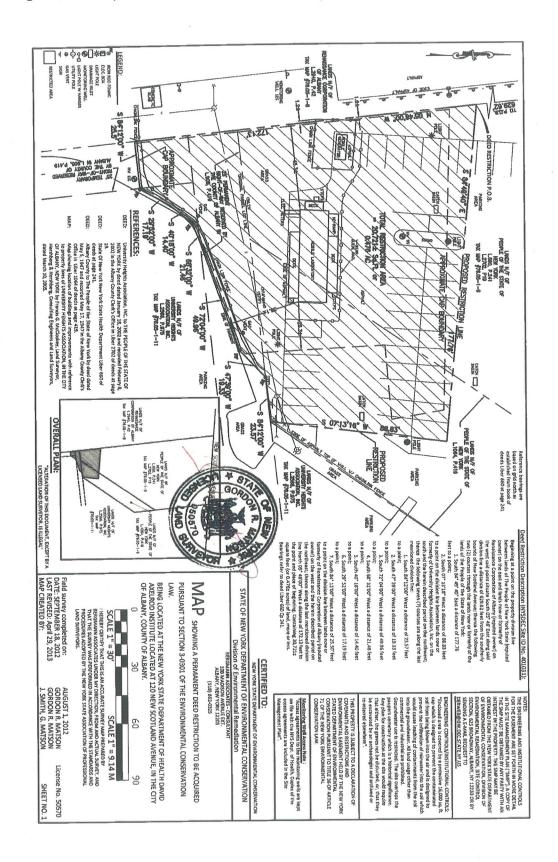


TABLE 1 SUMMARY OF DETECTED VOC's AXELROD FACILITY ALBANY, NEW YORK ERM PROJECT NUMBER 0186101

Sample Location	NYSDEC	MW-8S	MW-9S	MW-105	MW-11S	MW-8S	MW-95	MW-105	MW-115
Date Sampled	Standard	12/22/2003	12/22/2003	12/22/2003	12/22/2003	3/2/2005	3/2/2005	3/2/2005	3/2/2005
TCL VOCs (ug/L)		×						1	
Methyl tert-butyl ether	10	U	U	NS	U	U	U	NS	2.1
Sample Location	NYSDEC	MW-8S	MW-9S	MW-105	MW-115	MW-8S	MW-9S	MW-105	MW-115
Date Sampled	Standard	9/7/2006	9/7/2006	9/7/2006	9/7/2006	12/4/2007	12/4/2007	12/4/2007	12/4/2007
TCL VOCs (ug/L)			~		-			ĺ	
Methyl tert-butyl ether	10	U	U	NS	19J	8.24J	U	NS	6.91J
Sample Location	NYSDEC	MW-8S	MW-95	MW-105	MW-11S	MW-8S	MW-9S	MW-105	MW-115
Date Sampled	Standard	3/19/2009	3/19/2009	3/19/2009	3/19/2009	6/8/2010	6/8/2010	6/8/2010	6/8/2010
TCL VOCs (ug/L)									
Methyl tert-butyl ether	10	13.0	U	NS	U	13.0	U	NS	U
Sample Location	NYSDEC	MW-8S	MW-9S	MW-115	MW-125	MW-8S-R	MW-9S	MW-115	MW-125
Date Sampled	Standard	9/8/2011	9/8/2011	9/8/2011	9/8/2011	1/30/2013	1/30/2013	1/30/2013	1/30/2013
TCL VOCs (ug/L)						/			
Methyl tert-butyl ether	10	NS	U	U	U	5.52	U	U	U
Ethyl ether	NS	NS	U	U	U	54.2	1.32	U	U
And the second state of th	the second s					and the second se			

U

U

U

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2.87

398.0

NOTES :

U = Not Detected above laboratory detection limits.

NYSDEC Standards - NYSDEC Ambient Water Quality Standards - TOGS 1.1.1; - NS = No Standard or Guidance Value Given

U

U

TCL VOCs = Target Compound List Volatile Organic Compounds.

NS

NS

ug/L = micrograms per liter.

Di-isopropyl ether

1,4 Dioxane

Bold Text - Above NYSDEC Standard

J = estimated value

- Only those analytes that were detected in at least one sample are presented.

- All samples analyzed for TCL VOCs by EPA Method 8260B.

- MW-10S was not sampled (NS) since the well was destroyed.

- MW-8S was not sampled (NS) since the well was covered with new asphaltic pavement.

NS

NS

U

U

U

U

U

U

TABLE 2 SUMMARY OF GROUNDWATER ELEVATION DATA AXELROD FACILITY ALBANY, NEW YORK ERM PROJECT NUMBER 0186101

Well Location	MW-8S	MW-95	MW-11S	MW-12S
Elevation at Top of Casing	216.42	219.64	219.39	220.94
Total Depth of Well	17.92	19.88	16.35	19.75
Screen Length	10	15	10	10
Date				
12/22/2003	211.74	213.24	212.17	NA
3/2/2005	211.40	213.00	211.54	NA
9/7/2006	211.27	212.42	211.41	NA
12/4/2007	211.90	213.22	211.99	NA
3/19/2009	212.36	213.63	212.31	NA
6/8/2010	211.56	212.59	211.47	NA
9/8/2011	NM	214.32	214.97	216.88
1/30/2013	211.77*	212.74	212.01	212.64

NOTES:

- All measurements reported in feet.

NA - Not Applicable - MW-12S installed 8 April 2011.

NM = Not measured (well was covered with new asphaltic pavement since June 2010 sampling event).

* - Replacement Well MW-8S-R installed 01/26/2013 - Elevation TOC = 216.88

Total Depth of Replacement Well MW-8S-R = 17.42' and screen length is 10.00'

DTW Data	MW-8S	MW-9S	MW-115	MW-12S
	MW-8S-R*			的 。但是他
Date				
12/22/2003	4.68	6.40	7.22	NA
3/2/2005	5.02	6.64	7.85	NA
9/7/2006	5.15	7.22	7.98	NA
12/4/2007	4.52	. 6.42	7.4	NA
3/19/2009	4.06	6.01	7.08	NA
6/8/2010	4.86	7.05	7.92	NA
9/8/2011	NM	5.32	4.42	4.06
1/30/2013	. 5.11*	6.90	7.38	8.30

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



Sit	e No. 401031	Box 1					
Sit	e Name New Scotland Ave. (Wadsworth Laboratory)						
Cit Co	e Address: 120 NEW SCOTLAND AVE Zip Code: 12208 y/Town: Albany unty: Albany e Acreage: 1.0 0.5						
Re	porting Period: January 1, 2012 to December 31, 2013						
		YES	NO				
1.	Is the information above correct?		风				
	If NO, include handwritten above or on a separate sheet.						
2.	Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?		Ø				
3.	Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?		Ŋ				
4.	Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?		X				
	If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.						
5.	Is the site currently undergoing development?		X				
		Box 2					
		YES	NO				
6.	Is the current site use consistent with the use(s) listed below? Commercial and Industrial	X					
7.	Are all ICs/ECs in place and functioning as designed?	ጆ					
IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.							
Corr	ective Measures Work Plan must be submitted along with this form to address these is	sues.					
Sig	nature of Owner, Remedial Party or Designated Representative Date						

Box	3
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Description of Institutional Controls

<u>Parcel</u> 76.05-1-9 <u>Owner</u> N.Y. STATE LABORATORY Institutional Control

IC/EC Plan Ground Water Use Restriction Landuse Restriction Monitoring Plan Site Management Plan

Pursuant to a Deed Restriction recorded on 6/6/2013, groundwater and land use restrictions apply.

Box 4

Description of Engineering Controls

Engineering Control

Parcel 76.05-1-9

Cover System

The pump and treat system has been decomissioned. The asphalt cover is a parking lot which must be inspected in accordance with the site management plan. Monitoring of the groundwater is required.

	·		BOX 5	
	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;	ction of,	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 gener	n this ce ally acc	ertification epted	
	engineering practices; and the information presented is accurate and compete.	YES	NO	
		X		
2.	If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that following statements are true:	each In t all of th	stitutional าย	
	(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 Departme	s unchar ent;	nged since	
	(b) nothing has occurred that would impair the ability of such Control, to protect the environment;	public h	ealth and	
	(c) access to the site will continue to be provided to the Department, to evaluate including access to evaluate the continued maintenance of this Control;	the rem	nedy,	
	(d) nothing has occurred that would constitute a violation or failure to comply wit Management Plan for this Control; and	h the Si	te	
	(e) if a financial assurance mechanism is required by the oversight document fo mechanism remains valid and sufficient for its intended purpose established in the	r the site ne docur	e, the nent.	
		YES	NO	
		X		
	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	nese iss	ues.	
	Signature of Owner, Remedial Party or Designated Representative Date			

Sox 5

IC CERTIFICATIONS SITE NO. 401031	
	Box 6
SITE OWNER OR DESIGNATED REPRESENTATIVE SIGN I certify that all information and statements in Boxes 1,2, and 3 are true. I und statement made herein is punishable as a Class "A" misdemeanor, pursuant	derstand that a false to Section 210.45 of the
Penal Law.	
I <u>LAURIE</u> <u>DUNCEN</u> at <u>R.O.</u> Box 509, <u>Rm B940</u> print name print business address	, ALBANY NY 12201-0509
A. L.	(Owner or Remedial Party)
for the Site named in the Site Details Section of this form.	
Name Hornsen	1/22/14

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

1/2//14 Date

IC/EC CERTIFICATIONS

Box 7

Qualified Environmental Professional 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.

NYS DOHWADSWORTHCENTERAURTEJUNCHNatP.O. BOX 509, Rm B940, ALBANY, NYprint nameprint business address 2201-0509 OUNER am certifying as a Qualified Environmental Professional for the (Owner or Remedial Party)

man

Signature of Qualified Environmental Professional, for the Owner or Remedial Party, Rendering Certification

Stamp (Required for PE)

Date