



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



Site No. 401031 Site Details Box 1

Site Name New Scotland Ave. (Wadsworth Laboratory)

Site Address: 120 New Scotland Avenue Zip Code: 12208
City/Town: Albany
County: Albany
Site Acreage: 1.0 0.5

Reporting Period: December 31, 2013 to December 31, 2014

- | | YES | NO |
|---|--------------------------|-------------------------------------|
| 1. Is the information above correct? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 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? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 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? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

- | | YES | NO |
|--|-------------------------------------|--------------------------|
| 6. Is the current site use consistent with the use(s) listed below?
Commercial and Industrial | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 7. Are all ICs/ECs in place and functioning as designed? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

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.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

SITE NO. 401031

Box 3

Description of Institutional Controls

Parcel

Owner

Institutional Control

76.05-1-9

N.Y. STATE LABORATORY

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

Parcel

Engineering Control

76.05-1-9

Cover System

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

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 direction of, and reviewed by, the party making the certification;

b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and complete.

YES NO

☒ ☐

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 unchanged since the date that the Control was put in-place, or was last approved by the Department;

(b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

(c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

(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, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES NO

☒ ☐

**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 these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

IC CERTIFICATIONS
SITE NO. 401031

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.

I LAURIE DUNCAN at NYS DOH, WADSWORTH CENTER
print name print business address
P.O. Box 509, RM B940, ALBANY, NY 12201-0509

am certifying as OWNER (Owner or Remedial Party)

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

Laurie A. Duncan
Signature of Owner, Remedial Party, or Designated Representative
Rendering Certification

1/20/2015
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.

I LAURIE DUNCAN at NYS DOH WADSWORTH CENTER
print name print business address
P.O. Box 509, Rt. 6940, ALBANY, NY 12201-0509

am certifying as a Qualified Environmental Professional for the OWNER
(Owner or Remedial Party)

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

Stamp
(Required for PE)

1/20/2015
Date

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

2014 Report



Prepared by

Laurie Duncan, Deputy Director of Health and Safety
Associate Project Coordinator

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2	Summary of Ground Water Elevation and DTW Data

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. An additional well was located to the West of the site on adjacent property, and well 8S on adjacent property to the South was replaced after being paved over by the property owner. The site map with well locations is illustrated in Figure 2. The interpreted ground water map for the December 2012 scheduled sampling (conducted February 2013) is illustrated in Figure 3. The map for the March 2014 sampling is illustrated in Figure 4.

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 are currently able to be monitored.

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” (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 6. 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.

Small concentrations of the compound methyl tert-butyl ether had appeared in one of the monitoring wells. 1,4 dioxane was also detected in the January 2013 sampling in the same well. Neither compound was detected in the March 2014 sampling event and 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 Site Management Plan to DEC. Currently PRR submissions are required annually.

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 qualified firms and analyzed by a NYSDOH approved environmental testing laboratory. Historically samples were analyzed for VOCs by USEPA Method 8260B, in accordance with the NYSDEC Analytical Services Protocol. The March 2014 samples (collected by Adirondack Environmental Services, were analyzed for TLC VOCs using USEPA Method 8260C, in accordance with the 1995 NYSDEC Analytical Services Protocol (ASP) Category B deliverable guidelines.

During 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 µg/L. Additionally, the January 2013 (postponed Dec. 2012 event) sampling showed levels of 1,4 dioxane in well 8S. The March 2014 sampling results indicated no detectable levels of either of these compounds. Available historical data of detectable VOC's from ground water sampling reports are summarized in Table 1. Ground water elevations and depth to water measurements for all sampling events are summarized in Table 2.

4. CONCLUSIONS

Concentrations of methyl tert-butyl ether (MTBE) in MW-8S had increased somewhat since first appearing in the December 2007 sampling. Although this compound also appeared in well 11S during the December 2007 sampling event, it has not been detected in that well since that sampling. It was also not detected in any of the wells in the most recent sampling event in March 2014. 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. 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 again secured an access agreement with the property owner to the South of the site to allow access for continued monitoring. This process was finalized prior to the round of sampling conducted in March of 2014.

Part of an annual review process, included in the SMP, is the 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 asphalt cover system, while maintaining its original intent, has developed cracks with vegetation. This issue was raised with maintenance services, but was not addressed in 2014. Laboratory Operations and Facilities Management are procuring funding for a repaving project that is anticipated to be completed by the fall of 2015. The Wadsworth Center will be seeking guidance from DEC as to requirements that may need to be met for this type of project.

Figure 1

SITE LOCATION MAP

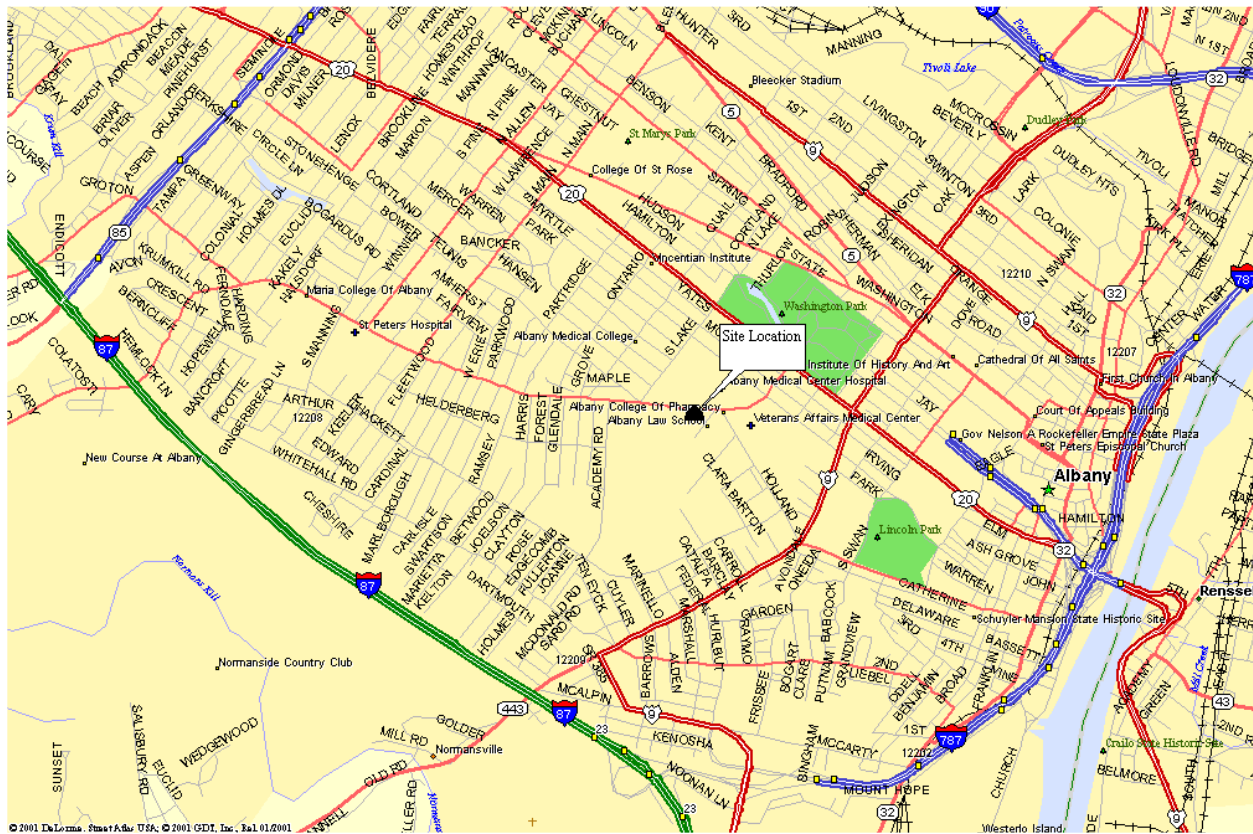
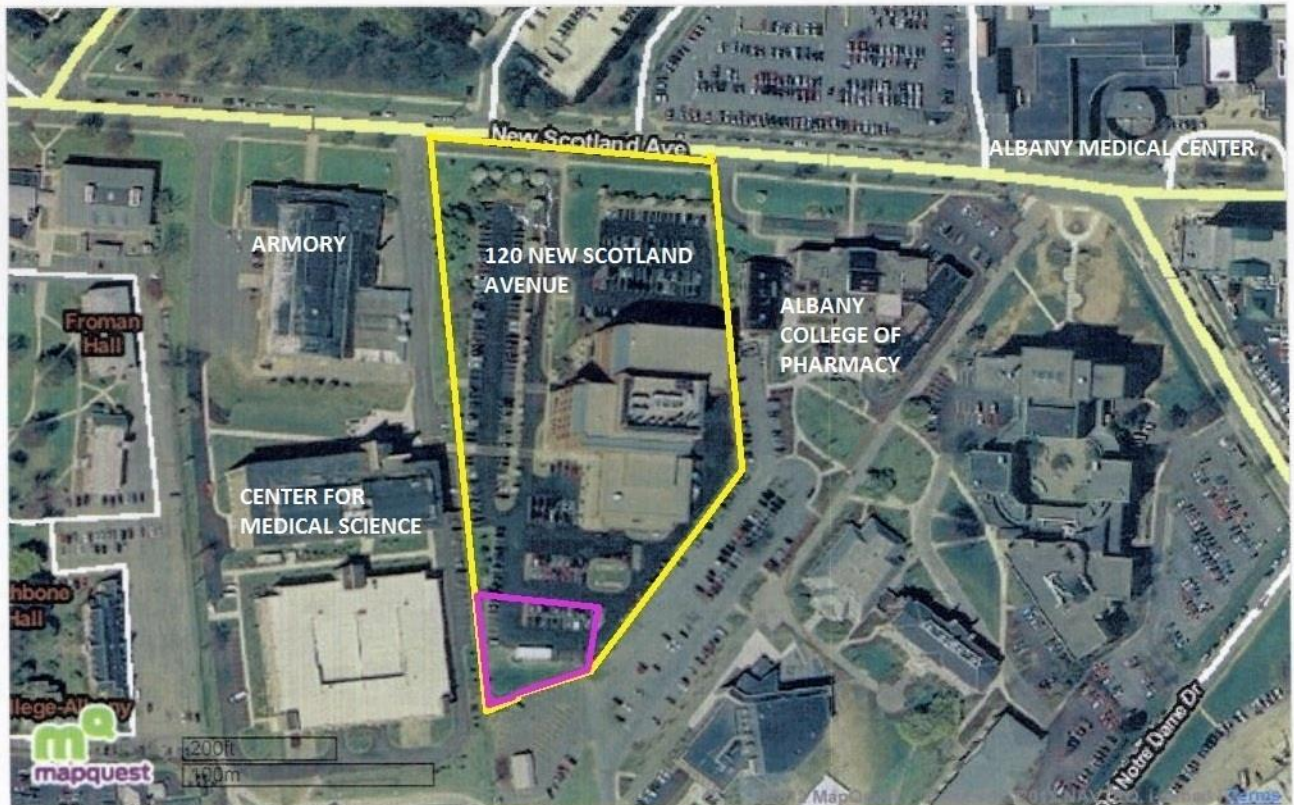


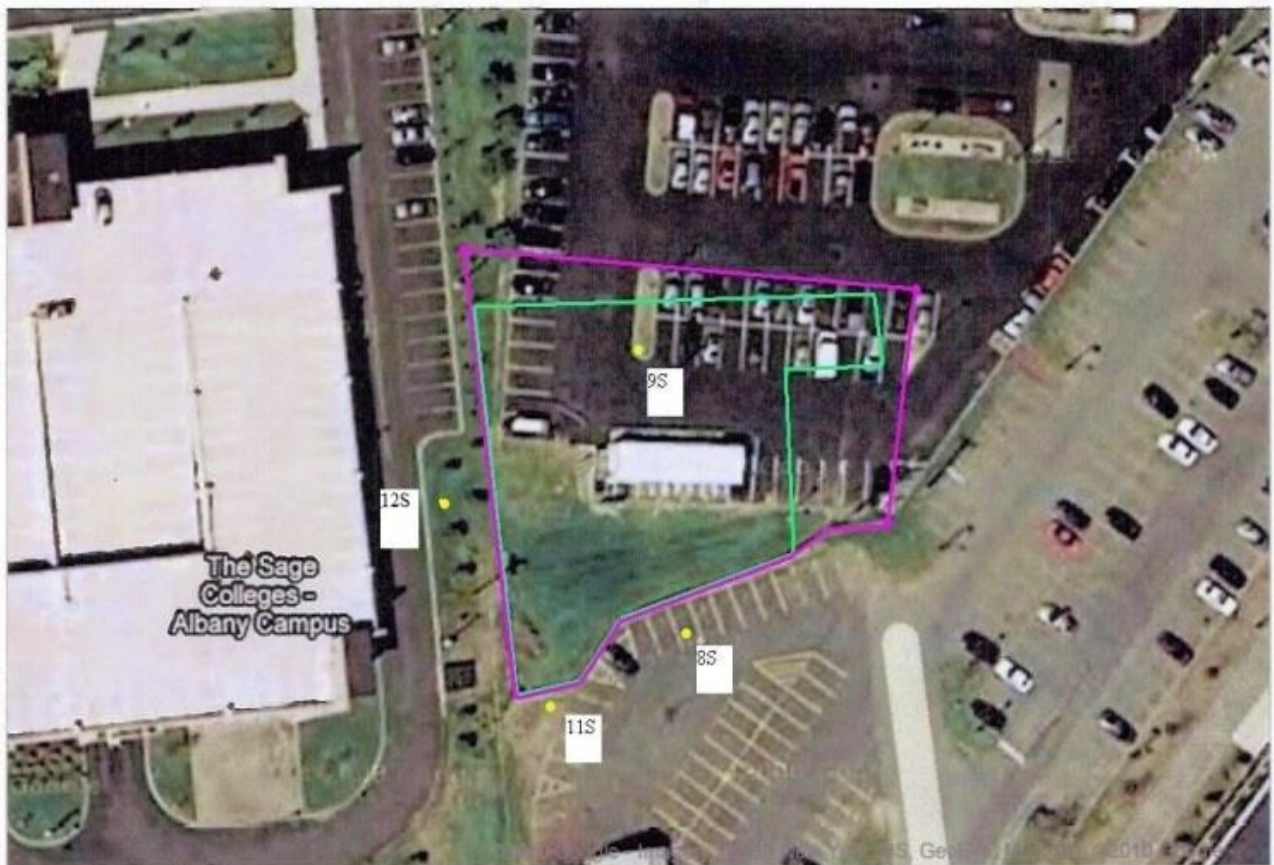
Figure 1a - Site and Site Boundaries



— Approximate Controlled Area Boundary

— Approximate Property Boundary

Figure 2 - Site Map with Well Locations



- Approximate Cap Boundary
- Monitoring Well Locations (12S, 8S, 9S, 11S)
- Proposed Area Subject to SMP

Figure 3 - Groundwater Contour Map (01/13)

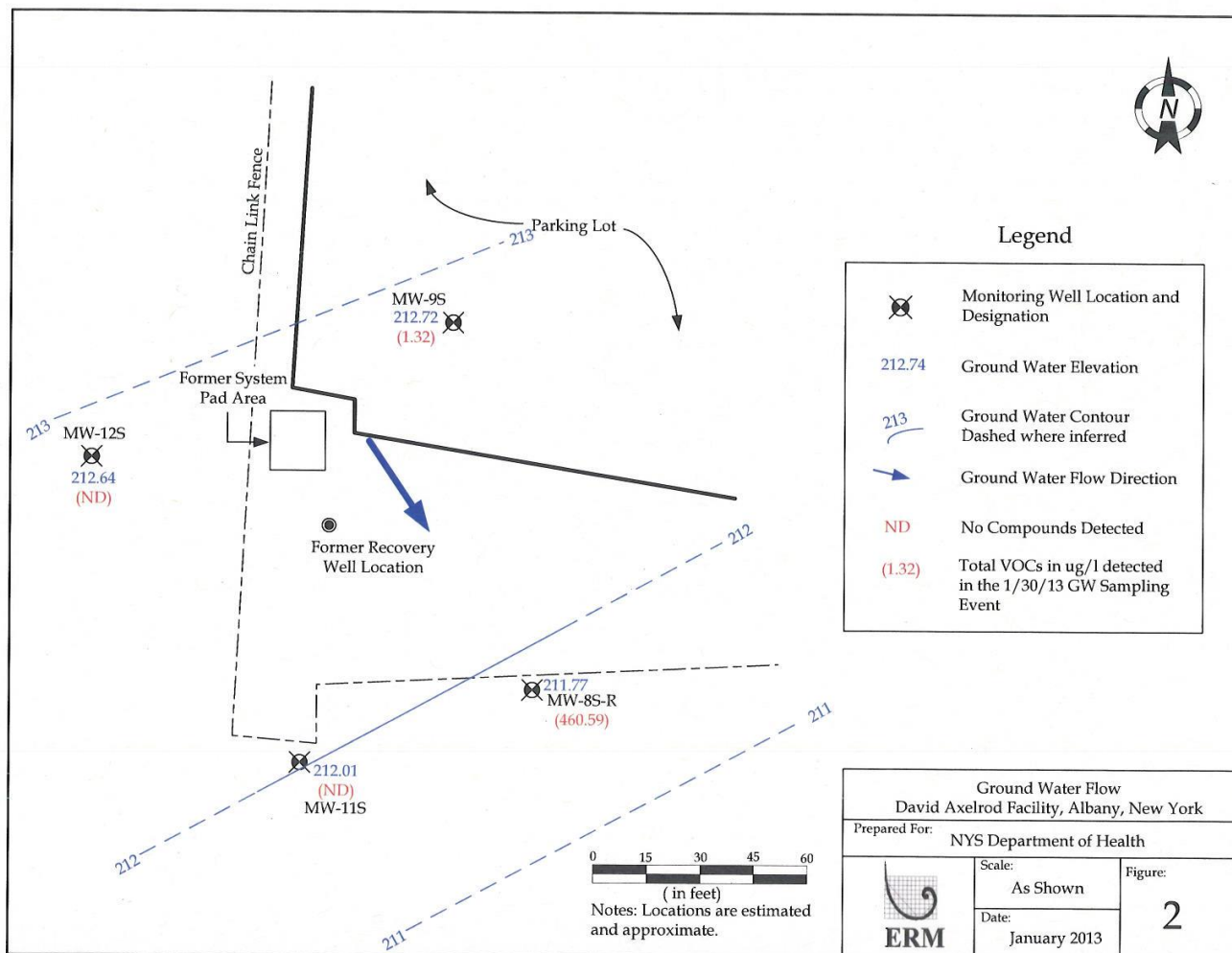
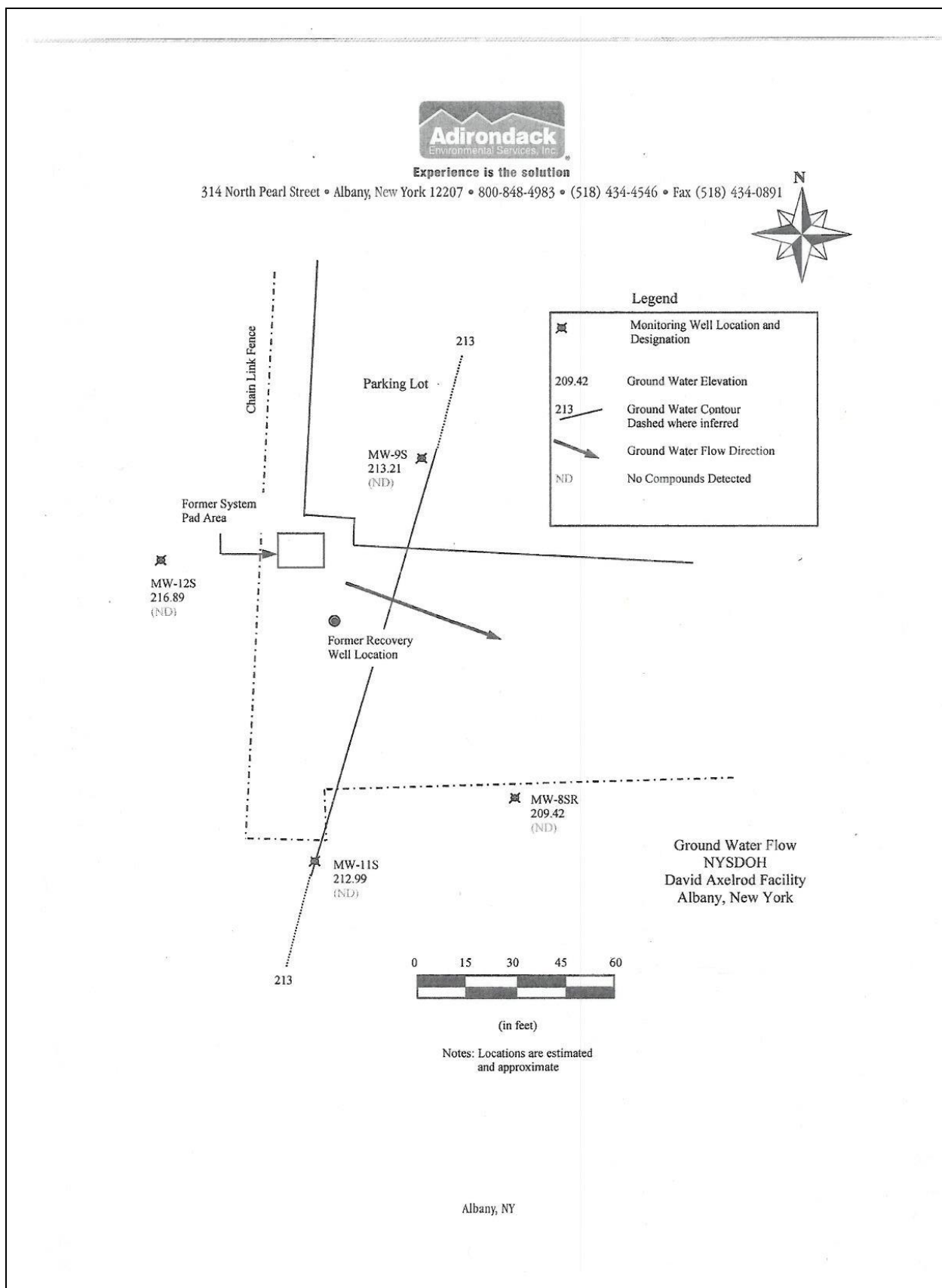
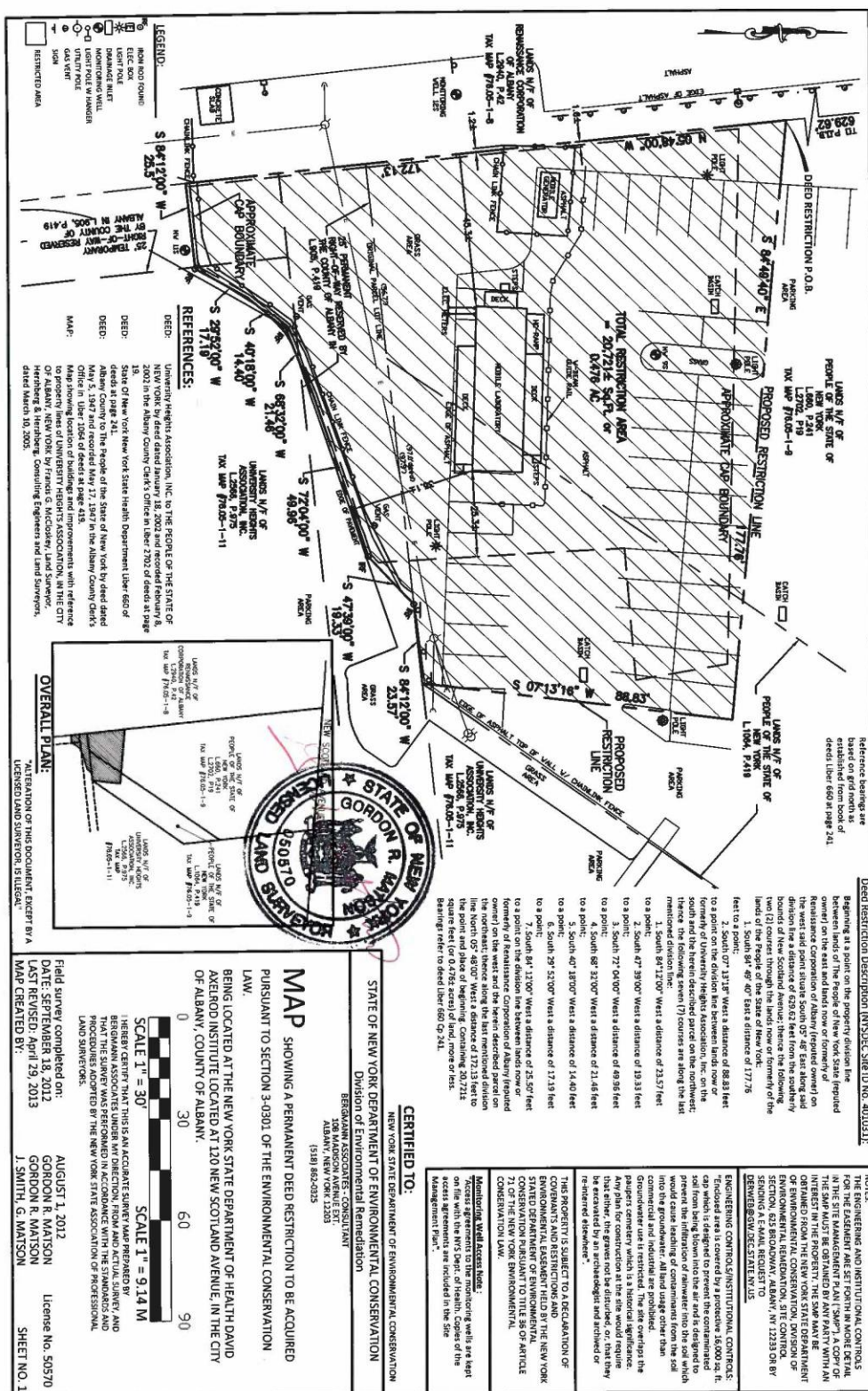


Figure 4 - Groundwater Contour Map (03/14)



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Table 1
Summary of Groundwater Elevation Data
Axelrod Facility
Albany, New York

AES project: 140318001

Sample Location Date Sampled	NYSDEC Standard	MW-8S 12/22/2003	MW-9S 12/22/2003	MW-10S 12/22/2003	MW-11S 12/22/2003	MW-8S 3/2/2005	MW-9S 3/2/2005	MW-10S 3/2/2005	MW-11S 3/2/2005
TCL VOCs (ug/L)									
Methyl tert-butyl ether	10	U	U	NS	U	U	U	NS	2.10

Sample Location Date Sampled	NYSDEC Standard	MW-8S 9/7/2006	MW-9S 9/7/2006	MW-10S 9/7/2006	MW-11S 9/7/2006	MW-8S 12/4/2007	MW-9S 12/4/2007	MW-10S 12/4/2007	MW-11S 12/4/2007
TCL VOCs (ug/L)									
Methyl tert-butyl ether	10	U	U	NS	19 J	8.24 J	U	NS	6.91 J

Sample Location Date Sampled	NYSDEC Standard	MW-8S 3/19/2009	MW-9S 3/19/2009	MW-10S 3/19/2009	MW-11S 3/19/2009	MW-8S 6/8/2010	MW-9S 6/8/2010	MW-10S 6/8/2010	MW-11S 6/8/2010
TCL VOCs (ug/L)									
Methyl tert-butyl ether	10	13	U	NS	U	13	U	NS	U

Sample Location Date Sampled	NYSDEC Standard	MW-8S 9/8/2011	MW-9S 9/8/2011	MW-11S 9/8/2011	MW-12S 9/8/2011	MW-8SR 1/30/2013	MW-9S 1/30/2013	MW-11S 1/30/2013	MW-12S 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
Di-isopropyl ether	NS	NS	U	U	U	2.87	U	U	U
1,4-Dioxane	NS	NS	U	U	U	398	U	U	U

Sample Location Date Sampled	NYSDEC Standard	MW-8SR 3/17/2014	MW-9S 3/17/2014	MW-11S 3/17/2014	MW-12S 3/17/2014				
TCL VOCs (ug/L)									
Methyl tert-butyl ether	10	U	U	U	U				
Ethyl Ether	NS	U	U	U	U				
Di-isopropyl ether	NS	U	U	U	U				
1,4-Dioxane	NS	U	U	U	U				

NOTES:

U = Not Detected above the laboratory detection limits

NYSDEC Standards - NYSDEC Ambient Water Quality Standards - TOGS I.1.1;

NS = No standard or guidance value given

TCL VOCs = Target Compound List Volatile Organic Compounds

ug/L = micrograms per liter

Bold Text - Above the 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 8260
- 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.



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Table 2
Summary of Groundwater Elevation Data
Axelrod Facility
Albany, New York

AES project: 140318001

Well ID	MW-8S	MW-9S	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
3/17/2014	209.42	213.21	212.99	216.89

NOTES:

- All measurements reported in feet.

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

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

* - Replacement Well MW-8SR installed January 26, 2013 - Elevation TOC = 216.88

Total depth of replacement well MW-8SR = 17.42 feet and screen length is 10 feet.

Depth to Water Data	MW-8S MW-8SR *	MW-9S	MW-11S	MW-12S
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	7.40	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
3/17/2014	7.46	6.43	6.40	4.05