

February 15, 2010

Mr. Thomas P. Festa Project Manager NYSDEC 625 Broadway, BURE Albany, NY 12233

Re: SCM/SCWP Site # 712006 2009 Periodic Review Report

Dear Tom:

Enclosed is a hard-copy of the 2009 Periodic Review Report for the subject site. A pdf was also emailed to you and the various parties named in the settlement agreement. The property is owned by S.C.W.P., LLC and this report is submitted at SCWP's direction, consistent with agreements between SCM and SCWP. This report is prepared in general conformance with PRR preparation guidelines received from NYSDEC dated 12/29/2009.

Please let me know if there are any questions with this submittal.

Sincerely,

hn H. Buck, P.E. Principal Engineer

Enclosure: 2009 Periodic Review Report, SCM-Cortlandville, Site No. 712006

CC (via email without Appendix C: Sampling Log and Laboratory Reports):

K. Ochs (SCWP) R. Shafer, Esq. (RS&S) A. Porter (SCWP) S. Kalette, Esq. (SCC) C. Cuipylo (Region 7, NYSDEC) J. Helgren (CCHD) P. Reidy (CCS&W)

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PERIODIC REVIEW REPORT

SCM – Cortlandville Site No. 712006 1/1/2009 – 12/31/2009

Prepared For:

NYS Department of Environmental Conservation Attn: Thomas Festa, Project Manager 625 Broadway, BURE Albany, NY 12233

OWNER:

S.C.W.P., LLC Attn: Karl Ochs 3877 Luker Road Cortland, NY 13045

Prepared By:

Buck Engineering, LLC 87 Central Ave. P.O. Box 427 Cortland, New York 13045 607-753-8010

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I. INTRODUCTION

This report will summarize groundwater remediation activities at the SCM-Cortlandville site during the year 2009 and is submitted in support of a Settlement Agreement between Smith Corona Corporation (SCC) and NYSDEC. Currently, the property is owned by S.C.W.P., LLC and this report is submitted at SCWP's direction, consistent with agreements between SCC and SCWP. This report is prepared in general conformance with PRR preparation guidelines received from NYSDEC dated 12/29/2009.

A. Summary

In 1986, a groundwater contamination plume containing trichloroethylene (TCE) and related decomposition products was discovered extending from the former typewriter manufacturing site to approximately 1.5 miles downgradient. Subsequent interim remedial measures included removing contaminated soils and multiple aboveground and underground storage tanks, and Phase I and II remedial measures included installing a soil vapor extraction system that has since been deactivated, and a groundwater pump and treat system that remains in operation. In June 1994, the Classification for this inactive hazardous waste site listing was changed from 2 to 4 (site properly closed – required continued management).

II. SITE OVERVIEW

A. Location, Description, Extent of Contamination

The SCM-Cortlandville site is located at 839 Route 13 South in the Town of Cortlandville, Cortland County, New York. In 1986 the investigation of an unrelated petroleum spill resulted in detection of a plume of contaminated groundwater that extended from the SCM site approximately 1.5 miles downgradient (northeastward) toward the City of Cortland municipal well field. The contaminants in the plume were identified as trichloroethylene (TCE) and related decomposition products.

The property was formerly utilized by typewriter manufacturer Smith Corona Corporation "SCC" (previously known as SCM Corporation). Approximately 20% of the site is occupied by the most prominent site feature an approximately 415,000 square foot main processing building. The remainder of the property includes employee parking, several small single-purpose buildings, water infiltration lagoons, and vacant undeveloped land.

The site has been subdivided and undergone various delisting petitions since the original listing. Currently the site consists of approximately 47.4 acres according to property tax records. It is bordered on the north by Lime Hollow Road and a largely residential neighborhood and on the east by Route 13 and commercial land uses. It is bordered on the south by the JM Murray Center property and a cemetery, and on the west by a residence, undeveloped land, and agricultural uses. The facility overlies the Otter Creek/Dry Creek aquifer and municipal water wells belonging to the Town of Cortlandville are located on a 5-acre parcel adjacent to and about 1200 feet southwest of the site. The City of Cortland operates a well field for municipal drinking water adjacent to Dry Creek, approximately 1.5 miles north-northeast and hydraulically downgradient of the site.

Monitoring of off-site groundwater contamination has been conducted by NYSDEC as well as by the Cortland County Soil and Water Conservation District and the Cortland County Health Department in general accordance with the 1989 Settlement Agreement. CCSWCD typically issues an annual report of its monitoring activities.

B. Chronology of Site Remedial Program

The remediation system, consisting of a recovery well, aeration tower, pipeline, rock cascade, and an infiltration lagoon system, remains in place and has not been modified since its original construction by SCM. A selected history of site remediation activities is provided below.

October 1986 – March 1987: Use of TCE was discontinued; a 3,000-gallon aboveground tank which previously contained TCE was removed. A 20,000-gallon underground tramp oil storage tank and visibly contaminated soil surrounding it was removed; an underground fuel oil tank was removed; Supply Well No. 2 was temporarily shut down to better contain groundwater in the vicinity of Supply Well No. 1; a 10,000-gallon underground fuel oil storage tank and visibly contaminated soil surrounding it was removed; a 2,000-gallon fiberglass aboveground tank which previously contained muriatic acid was removed; and four areas of stained soil associated with past material handling practices were excavated and disposed of.

January 1989: The Settlement Agreement for remediation of the site was signed between NYSDEC, other parties, and SCC on January 12, 1989.

September - December 1989: Approval of the remediation Phase I design was obtained from NYSDEC on September 22, 1989. Phase I consisted of investigation, design, construction, and installation of a groundwater recovery well. The groundwater recovery well came on-line on December 29, 1989. The water from the recovery well was utilized for non-contact cooling purposes and discharged into an existing sanitary sewer until the Phase II system could be completed.

May 1990: Approval of the remediation Phase II design was obtained from NYSDEC on May 29, 1990. Phase II included installation of a groundwater remediation system. This system consisted of:

• An Air Stripping Column (aeration tower),

- Distribution Piping (conveying water from the recovery well to the air stripper, and from the air stripper to an infiltration lagoon), and
- An Engineered Infiltration Lagoon.

Phase II also included:

• A Soil Vapor Extraction System (to strip volatile organic contaminants from the soil zone above the water table).

August 1990: The soil vapor extraction (SVE) system came on-line.

October 1990: The remediation Phase II (groundwater remediation system) came on-line.

1996-1998: At an unknown date the soil vapor extraction system was shutdown and decommissioned. No documentation of the SVE shutdown has been located, but anecdotal information from others suggests that the TCE levels in the extracted soil gases had declined to levels that were too low to justify continued operation.

1997-1998: At an unknown date the well monitoring frequency was reduced to annual. No record of the request or approval for this change has been located.

April 1999: SCWP purchased the SCM land and buildings in Cortlandville and assumed operational responsibilities for the groundwater remediation system.

May 2001: The stripping tower blower (for counter current air flow) was turned off with permission of NYSDEC. The influent TCE concentration had reduced to the point that the tower was able to reduce TCE levels adequately to meet discharge limits without forced air flow. At the time that NYSDEC allowed turning the blower off, sampling frequency of tower influent and effluent (both at the tower discharge and at the outfall cascade) was increased from quarterly to monthly.

C. Cleanup and Site Closure Criteria

Site groundwater cleanup criteria and site closure criteria are summarized below:

Cleanup Criteria:

Interior and Backyard Wells:

Current Class GA groundwater standard 10 ug/l for TCE¹ (*Note: the current groundwater standard for TCE is 5.0 ug/l*) Guidance value of 50 ug/l for total VOCs¹

Perimeter Wells:

5 ug/l for TCE¹ 10 ug/l for total VOCs¹

Treatment System Effluent:

1 ug/l for TCE¹ (changed to 5 ug/l in 2001)² 5 ug/l for total VOCs¹

¹Source: *Focused Feasibility Study*, November 1988, O'Brien & Gere, pp. 6-7. ²Source: Letter from Kevin Delaney of NYSDEC to Michael Chernago of SCWP, May 10, 2001.

Site Closure Criteria:

"When monitoring data for MW-12d and MW-9 meet "cleanup criteria" for a period of 6 months, then the recovery of water from the lower portion of the aquifer will be discontinued.

At the time when monitoring data for MW-6, MW-8, MW-9, MW-12s, and MW-12d meet "cleanup criteria" for a period of one year, the groundwater recovery system may be shut off.

Groundwater monitoring will continue for a period of five years after the remedial system is shut down. For the first two years water monitoring will occur quarterly. If this two year period shows that "cleanup criteria" are not statistically exceeded, the subsequent two years of monitoring will be performed on a semi-annual basis. Provided the semi-annual sampling shows that the cleanup criteria are not statistically exceeded, monitoring shall be performed once during the last year. In the event a degradation of water quality is shown to be, on a statistically valid basis, above the site groundwater "cleanup criteria", then the remedial system will be restarted. If the remedial system must be restarted for any reason, the five year post shut-down monitoring program will be re-instated once the "cleanup criteria" have been re-achieved." –source: *Focused Feasibility Study*, November 1988, O'Brien & Gere, pp. 57-58.

III. ENGINEERING CONTROLS

A. Groundwater Remediation System

Engineering control measures consist of operation and maintenance of the pump and treat system equipment and periodic monitoring of system performance. The remedial works must be operated and maintained until groundwater quality meets the clean-up criteria for the site. The blowers (primary and backup) to the air stripper no longer have to be operated, but they must remain in place and in good working condition.

B. Operations During This Reporting Period

The remediation system operated without major breakdown or other incidents during this reporting period. The pump rate was checked every month and it met the performance standard of 700-1000 gpm. The system was shut-down 166 hours to scarify the lagoons on 11/6/09 - 11/13/09, and NYSDEC was notified of this shut-down. During the shutdown, accumulated lime deposits were also removed from the lagoon control gates. The primary blower for the aeration tower was checked and successfully operated in January 2010. The secondary (backup) blower operability could not be confirmed at the date of this report. See Section VII for recommendations regarding the backup blower.

IV. INSTITUTIONAL CONTROLS

There are no known institutional controls identified in the Settlement Agreement or Record of Decision.

V. MONITORING PLAN

A. Components of the Monitoring Plan

The following monitoring plan goals were defined in the *Focused Feasibility Study* (pp. 55-59), issued in November 1988 by O'Brien & Gere Engineers:

<u>First Goal of Monitoring Plan</u>: Provide verification that groundwater from the site does not migrate offsite with concentrations greater than "cleanup criteria". This goal will be verified by conducting quarterly sampling of monitoring wells MW-1s, MW-2s, MW-2d, MW-4s, MW-4d, MW-5s, MW-5d, MW-1d, MW-10s, and MW-10d. These wells are sometimes referred to as Perimeter Wells. Note: Quarterly sampling of monitoring wells was changed to semi-annual in 1995 and annual in 1999. Records on the request or authorizations for these changes which took place prior to SCWP ownership have not been located.

<u>Second Goal of Monitoring Plan</u>: Monitor the remediation of the site with respect to the final groundwater remediation goal. This goal will be verified by conducting quarterly sampling of monitoring wells MW-6, MW-7, MW-8, MW-9, MW-11, MW-12s, and MW-12d. These wells are sometimes referred to as Interior Wells. Note: Quarterly sampling of monitoring wells was changed to semi-annual in 1995 and annual in 1999. Records on the request or authorizations for these changes which took place prior to SCWP ownership have not been located.

<u>Third Goal of Monitoring Plan</u>: Monitor the groundwater treatment system and the discharge to the engineered lagoon. Samples will be collected from both the system influent and discharge to the lagoon once a month for the first 6 months. If no

statistically valid violation or discharge standards are determined the sample frequency will be decreased to quarterly sampling. When NYSDEC allowed turning the blower off in 2001, sampling frequency of tower influent and effluent (both at the tower discharge and at the outfall cascade) was increased from quarterly to monthly.

B. Summary of Monitoring Completed During This Reporting Period

Monitoring Tasks Completed:

There are 17 groundwater monitoring wells on SCWP property that were associated with the original Settlement Agreement. The following monitoring tasks were completed during this reporting period:

Annual Groundwater Sampling (11/30/2009):

Interior Shallow Wells: MW-6, MW-7, MW-8, MW-11, and MW-12s Interior Deep Wells: MW-9 and MW-12d Perimeter Shallow Wells: MW-5s, MW-1s, MW-10s, MW-2s, and MW-4s Perimeter Deep Wells: MW-4d, MW-5d, MW-1d, and MW-10d

Monthly Remediation System Sampling (36 samples in 2009): Treatment System Influent Tower Discharge Cascade Outfall

Analytical Data:

A discussion of monitoring well and remediation system data trends and a listing of supporting figures can be found in Section VI. The figures are provided in an appendix. Data from annual monitoring well sampling are included in Figure E "Monitoring Well Historical Database" and laboratory analytical reports are also included in a separate appendix. Data from monthly remediation system sampling are shown graphically in Figures A-D, and they have been reported monthly to NYSDEC through the year.

C. Monitoring Deficiencies

Monitoring well MW-2d (a perimeter deep well) was unable to be sampled due to well blockage/damage and the sample results from monitoring well MW-7 (an interior shallow well) may have been compromised by surface water infiltration through the broken upper well casing. See Section VII for monitoring well repair recommendations.

VI. DATA TRENDS AND REMEDIAL EFFECTIVENESS

A. Data Summary

Data from annual monitoring well sampling and monthly remediation system sampling are summarized in the following figures provided in an appendix:

- Fig. A-D Graphs of Remediation System TCE Concentrations
- Fig. E Monitoring Well Historical Database
- Fig. F-G Graphs of TCE Levels in Perimeter Shallow Wells
- Fig. H-I Graphs of TCE Levels in Perimeter Deep Wells
- Fig. J-K Graphs of TCE Levels in Interior Shallow Wells
- Fig. L-M Graphs of TCE Levels in Interior Deep Wells
- Fig. N Table of Water Levels in Wells
- Fig. O-T Site Maps with Groundwater Contours

2009 PERIODIC REVIEW REPORT SCM-CORTLANDVILLE SITE NO. 712006

The wells are categorized within four groups as either perimeter or interior, and either shallow or deep. Graphs of TCE concentrations in these four well groups are attached in both 10-year format and 20-year format. During 2008, SCWP constructed an additional monitoring well inside the building near column L16, and data from that well are included in the historical database provided in Figure E, although monitoring of this well is not required by the Settlement Agreement. At the Department's request, groundwater isopotentiometric surfaces were plotted for both the shallow well data and the deep well data with the system pump turned off and shortly after with it turned on following the lagoon maintenance shutdown. Separate plots of groundwater contours are provided for the date of the well sampling on 11/30/09. See Figures O-T. The general site groundwater gradient is to the North, but the recovery well continues to depress the water table sufficiently to influence groundwater flow direction along Lime Hollow Road.

B. Remediation System Data Trends

Twelve monthly system samples of tower influent and effluent (both at the tower discharge and at the outfall cascade) were obtained. Graphs of the monthly system sample TCE concentrations are attached as Figures A-D. TCE concentrations in the tower influent, tower discharge, and cascade outfall all continue to decline. In 2009, none of the tower discharge samples or the cascade outfall samples exceeded the established limit of 5 ug/l. The 2009 average TCE concentrations were: tower influent 4.95 ug/l, tower discharge 2.63 ug/l, and cascade discharge 1.28 ug/l, treating "non-detects" as 1.0 ug/l.

C. Groundwater Quality Data Trends

Comments on monitoring well data trends follow by group:

- Perimeter Shallow Wells (Lime Hollow Rd.) Four of the five shallow wells along the northern property line have TCE concentrations meeting the cleanup objective of 5.0 ug/l. MW-4s and MW-5s continued to demonstrate non-detectable levels of TCE, and MW-1s and MW-2s continue to indicate a slightly decreasing trend (see Figures F, G). In the fifth shallow perimeter well, MW-10s, TCE concentration continues to remain above the cleanup objective, increasing slightly to 7.2 ug/l during the year.
- Perimeter Deep Wells Four of the five deep wells along the northern property line were sampled. MW-2d could not be sampled due to a blockage. Three of the sampled wells, MW-1d, MW-4d, and MW-5d have TCE concentrations meeting the cleanup objective of 5.0 ug/l. MW-4d continued to demonstrate non-detectable levels of TCE, and MW-1d and MW-5d indicated a slightly decreasing trend (see Figures H, I). In the fourth sampled well, MW-10d, TCE concentration continues to remain above the cleanup objective, increasing slightly to 7.6 ug/l during the year.
- Interior Shallow Wells Wells MW-6, MW-7, MW-8, MW-11 and MW-12s continue to exhibit decreasing concentration trends, with only MW-11 (at 5.8 ug/l) and MW-12s (at 12 ug/l) exceeding the cleanup objective of 5 ug/l (see Figures J, K). As in the past, MW-12s had the highest TCE concentration of the original monitoring wells.
- Interior Deep Wells Both interior deep wells continued to meet the cleanup objective of 5 ug/l. Well MW-9 continued to demonstrate non-detectable levels of TCE and MW-12d declined in TCE concentration to 1.5 ug/l (see Figures L, M).

In summary, with the exception of perimeter wells MW-10d and MW-10s, the monitoring well data continue to exhibit general declining concentration trends. The sampled TCE concentrations were generally found to be below cleanup objectives with the exception of perimeter wells MW-10d and MW-10s and interior wells MW-11 and MW-12s.

D. Performance and Effectiveness of the Remediation System

The groundwater remediation system continued to be effective in 2009 as indicated by continuing improvements in groundwater quality. As the concentration of TCE in the system influent has decreased, the operational efficiency of the system has declined. In 2009 it is estimated that only 12.9 lb of TCE were removed despite pumping 421 million gallons of groundwater. During 2009 average system influent TCE concentration decreased to 4.95 ug/l and it is estimated that during 2010 or 2011 the system influent concentration will consistently be less than the cleanup criteria of 5.0 ug/l.

The groundwater remediation system effluent was monitored monthly and continued to meet operational requirements set forth in a letter dated May 10, 2001 from Kevin Delaney of NYSDEC to Michael Chernago of SCWP.

VII. RECOMMENDATIONS

The groundwater remediation system is operating well and no recommendations are made except that efforts by the owner should be continued to verify the working order of the backup air blower on the aeration tower. It is believed that relocation of the recovery well easterly and limiting remediation to the shallow aquifer would accelerate and improve cost effectiveness of the remediation efforts. Given the cost to accomplish these changes and the minimal remaining TCE concentration, such changes are not recommended.

Due to the importance of MW-10s and MW-10d groundwater data, and the slight increases noted in the deep well in recent years, it is recommended that these wells be sampled quarterly during 2010.

The annual sampling frequency for the remaining monitoring wells is thought to be adequate to track and document data trends and no modifications are proposed. Damaged well MW-7 is an interior well that is not deemed to be essential for monitoring of the shallow water formation quality, as MW-11 is nearby and can provide representative data. Damaged well MW-2d is a perimeter deep well and should be replaced or repaired prior to the 2010 well sampling event due to its location along the property perimeter on Lime Hollow Rd.

It is recommended that the parties begin to discuss the criteria for conditional shutdown of the groundwater treatment system. Current data trends suggest that the influent TCE concentration in 2010 will consistently be less than 5.0 ug/l. The system is currently consuming approximately 1,800 kwh of energy every day at a time when the influent concentration to the system is close to, or less than, the Class GA groundwater standard.

VIII. CERTIFICATION

Signed Institutional and Engineering Controls Certification Forms are included in an appendix.

I declare that, to the best of my professional knowledge and belief, I meet the definition of *Environmental Professional* as defined in 312.10 of 40 CFR 312. I certify this report to be factually presented to the best of my knowledge, belief, and information as a New York State *Licensed Professional Engineer* as attested by my seal and signature below.



John H. Buck, P.E. NYS LN 055460

APPENDIX A

Institutional and Engineering Controls Certification Form



Enclosure 1 NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION Site Management Periodic Review Report Notice Institutional and Engineering Controls Certification Form



Site	Site Details Bo	x 1		
Site	Name SCM - Cortlandville			
City Cou Allo	Address: 839 Route 13 South Zip Code: 13045 /Town: Cortlandville inty: Cortland wable Use(s) (if applicable, does not address local zoning): Industrial Acreage: 47.3 her: KARL OOH3: C/O 3.6.W.P., LLC S.C.W.P., LLC C/O KARL OCHS 3877 LUKER ROAD, Cortland, NY 13045			
Rep	orting Period: November 15, 2006 to March 14, 2007- JANUARY 1, 2009 TO DECEMBER 31, 2009			
	Verification of Site Details	Bo	x 2	
		YES	NO	
1.	is the information in Box 1 correct?		×	
	If NO, are changes handwritten above or included on a separate sheet?	X		
2.	Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?		×	
	If YES, is documentation or evidence that documentation has been previously submitted included with this certification?			N/A
3.	Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?		×	
	If YES, is documentation (or evidence that documentation has been previously submitted) included with this certification?			N/A
4.	If use of the site is restricted, is the current use of the site consistent with those restrictions?			N/A
	If NO, is an explanation included with this certification?			N/A
5.	For non-significant-threat Brownfield Cleanup Program Sites subject to ECL 27-14 has any new information revealed that assumptions made in the Qualitative Expos Assessment regarding offsite contamination are no longer valid?			N/A
	If YES, is the new information or evidence that new information has been previous submitted included with this Certification?	—		N/A
6	For non-significant-threat Brownfield Cleanup Program Sites subject to ECL 27-14 are the assumptions in the Qualitative Exposure Assessment still valid (must be certified every five years)?	.15.7(c), □		N/A
	If NO, are changes in the assessment included with this certification?			N/A

SITE NO. 712006

Description of Institutional Controls

Parcel

Institutional Control

S_B_L Image:

Box 4

Description of Engineering Controls

Parcel

S_B_L Image: 95.00-10-01.100

Groundwater Containment Pump & Treat

Engineering Control

Attach documentation if IC/ECs cannot be certified or why IC/ECs are no longer applicable. (See instructions)

Control Description for Site No. 712006

Parcel: 95.00-10-01.100

The ROD identified engineering controls required for OU1 (onsite). These controls include the continued operation and maintenance of the groundwater extraction & treatment system until groundwater quality meets the cleanup criteria.

The groundwater monitoring wells must be sampled at periodic intervals (currently annually), with monthly monitoring of the groundwater extraction & treatment system influent & effluent. The groundwater extraction system also acts as the onsite groundwater containment system, designed to eliminate contaminant migration offsite.

Box 3

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,	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 generation 	this ce ally acc	rtification apted
engineering practices; and the information presented is accurate and compete.	YES	NO
EXCEPT AS NOTED IN PRR DATED FEB 2010	X	
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 all of ti	stitutional ne
(a) the Institutional Control angles Engineering Control(s) employed at this site is the date that the Control was put in-place, or was last approved by the Department	uncha nt;	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 rer	nedy,
(d) nothing has occurred that would constitute a violation or failure to comply wi Management Plan for this Control; and	th the S	ite
(e) if a financial assurance mechanism is required by the oversight document for mechanism remains valid and sufficient for its intended purpose established in t	or the si ne docu	te, the N / ument.
	YES	NO
	×	
EXCEPT AS NOTED IN PRR DATED FEB 2010		ecision
EXCEPT AS NOTED IN PRR DATED FEB 2010 3. If this site has an Operation and Maintenance (O&M) Plan (or equivalent as required in Document):	n the D	
 If this site has an Operation and Maintenance (O&M) Plan (or equivalent as required i Document); 		
3. If this site has an Operation and Maintenance (O&M) Plan (or equivalent as required i		
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 If this site has an Operation and Maintenance (O&M) Plan (or equivalent as required in Document); I certify by checking "YES" below that the O&M Plan Requirements (or equivalent as required in Decision Document) are being met. 	quired in YES X	n the NO □
 If this site has an Operation and Maintenance (O&M) Plan (or equivalent as required in Document); I certify by checking "YES" below that the O&M Plan Requirements (or equivalent as required in Decision Document) are being met. If this site has a Monitoring Plan (or equivalent as required in the remedy selection do 	quired in YES X Scumen	n the NO □ t);
 If this site has an Operation and Maintenance (O&M) Plan (or equivalent as required in Document); I certify by checking "YES" below that the O&M Plan Requirements (or equivalent as required in Decision Document) are being met. 	quired in YES X Scumen	n the NO □ t); s required
 If this site has an Operation and Maintenance (O&M) Plan (or equivalent as required in Document); I certify by checking "YES" below that the O&M Plan Requirements (or equivalent as required in Decision Document) are being met. If this site has a Monitoring Plan (or equivalent as required in the remedy selection do L certify by checking "YES" below that the requirements of the Monitoring Plan (or equivalent as required in the remedy selection do L certify by checking "YES" below that the requirements of the Monitoring Plan (or equivalent as required in the remedy selection do L certify by checking "YES" below that the requirements of the Monitoring Plan (or equivalent as required in the remedy selection do L certify by checking "YES" below that the requirements of the Monitoring Plan (or equivalent as required in the remedy selection do L certify by checking "YES" below that the requirements of the Monitoring Plan (or equivalent as required in the remedy selection do L certify by checking "YES" below that the requirements of the Monitoring Plan (or equivalent as required in the remedy selection do L certify by checking "YES" below that the requirements of the Monitoring Plan (or equivalent as required in the remedy selection do L certify by checking "YES" below that the requirements of the Monitoring Plan (or equivalent as required in the remedy selection do L certify by checking "YES" below that the requirements of the Monitoring Plan (or equivalent as required in the remedy selection do L certify by checking "YES" below that the requirements of the Monitoring Plan (or equivalent as requirements certify by checking the term of term of	quired in YES X ocumen raient a YES	n the NO □ t); s required

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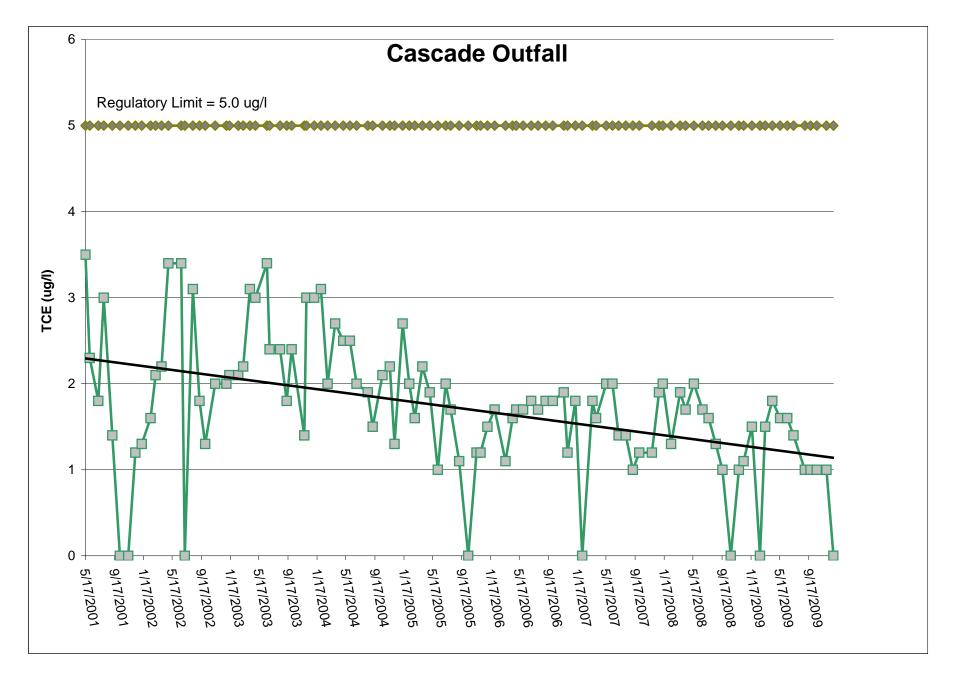
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	IC CERTIFICATION SITE NO. 71200		Box 6
I certify that all informati	WNER OR DESIGNATED REPRES ion and statements in Boxes 2 and/o is punishable as a Class "A" misder	or 3 are true. I understand that	a false).45 of the
I <u>KARLD.OC</u> print name	CHSat839_NY print b	S ROUTE B COLTZAND, M usiness address	14 13045
am certifying asC	OWNER	(Owner or Re	medial Party)
for the Site named in th	e Site Details Section of this form.		
Ial	2VS	2 - 11 - 10	1) 1
Signature of Owner or F	Remedial Party Rendering Certificat		
	IC/EC CERTIFICATI	ONS	
I certify that all informat punishable as a Class	IFIED ENVIRONMENTAL PROFES tion in Boxes 4 and 5 are true. I und "A" misdemeanor, pursuant to Secti WCK at <u>87 CENTR</u>	derstand that a false statement i on 210.45 of the Penal Law.	
print name	print l	ousiness address	
	arty) for the Site named in the Site I		<u> </u>
Signature of Qualified	Environmental Professional, for Party, Rendering Certification	Stamp (if Required)	1/2010
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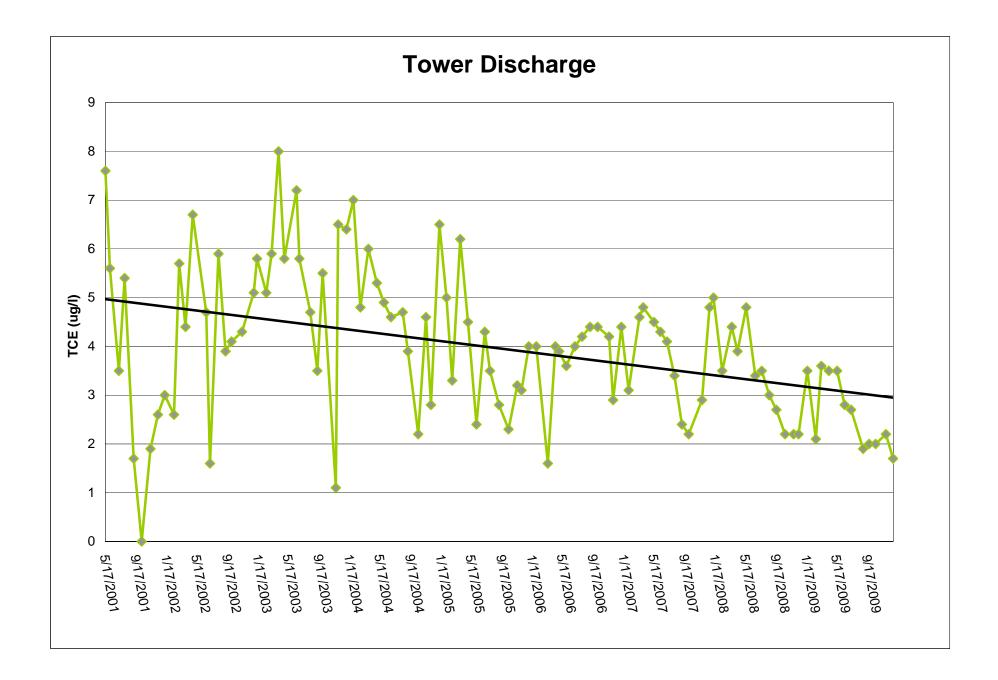
APPENDIX B

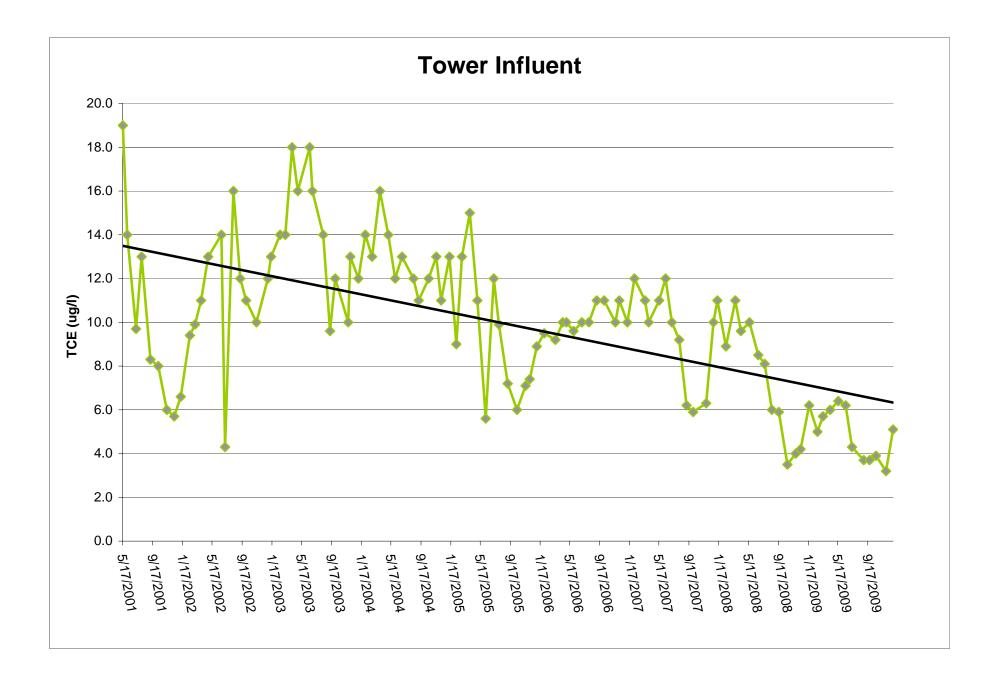
Figures

Fig. A-D	Graphs of Remediation System TCE Concentrations
Fig. E	Monitoring Well Historical Database
Fig. F-G	Graphs of TCE Levels in Perimeter Shallow Wells
Fig. H-I	Graphs of TCE Levels in Perimeter Deep Wells
Fig. J-K	Graphs of TCE Levels in Interior Shallow Wells
Fig. L-M	Graphs of TCE Levels in Interior Deep Wells
Fig. N	Table of Water Levels in Wells
Fig. O-T	Site Maps with Groundwater Contours

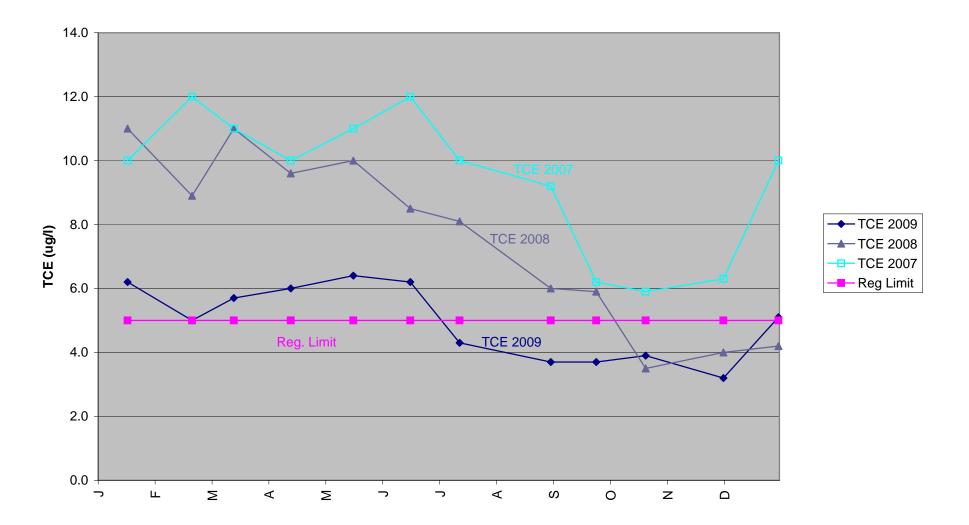


Buck Engineering, LLC 87 Central Ave. Cortland, NY 13045-0427





Buck Engineering, LLC 87 Central Ave. Cortland, NY 13045-0427 System Influent- 2007, 2008, 2009



Buck Engineering, LLC 87 Central Avenue Cortland, NY 13045-0427

SCWP SITE Town of Cortlandville Historical TCE Concentrations (ug/l)

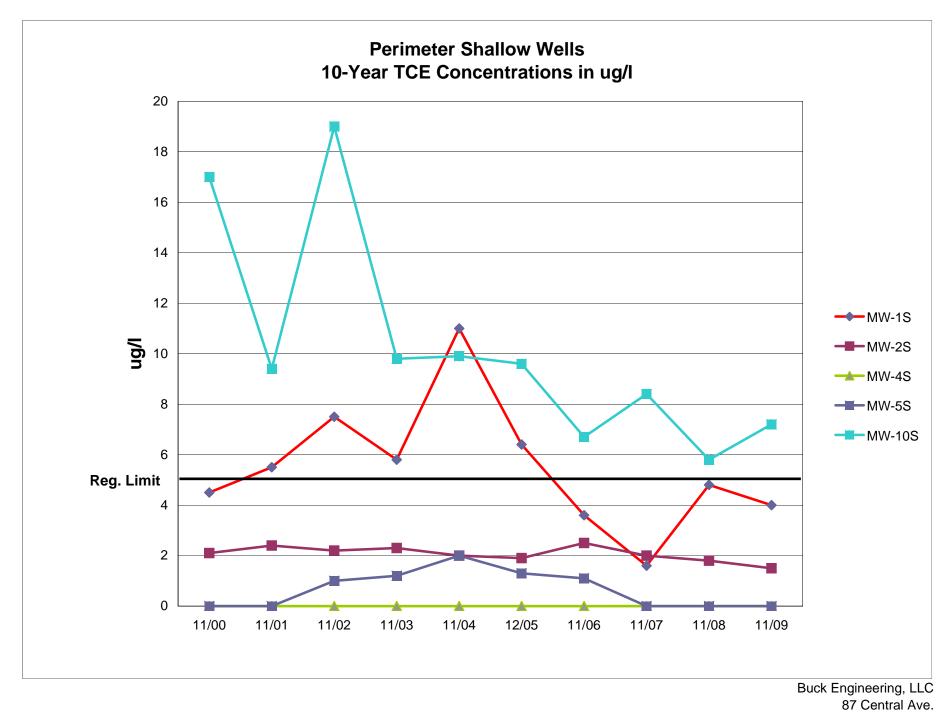
		2/90	<u>8/90</u>	<u>11/90</u>	<u>2/91</u>	<u>5/91</u>	<u>8/91</u>	11/91	2/92	<u>5/92</u> 8	<u>B/92 11</u>	/ <u>92 2/93</u>	<u>5/93</u>	<u>8/93</u>	11/93	<u>2/94 6</u>	/94 <u>9/</u>	94 12/	<u>94 2/95</u>	<u>5/95</u>	<u>11/95</u>	<u>5/96</u>	11/96 5	<u>/97 11</u>	/97 5/9	<u>8 11/98</u>	<u>8/99</u>	<u>11/00</u>	<u>11/01 1</u>	1/02 6/03	<u>11/03</u>	<u>11/04</u>	12/05	<u>9/06*</u>	<u>11/06</u>	<u>5/07*</u>	<u>11/07</u>	<u>11/08</u>	<u>11/09</u>
MW-1S	TCE	<1	47	41	25	17	19	12	9	13	15 3	2 11	26	3	13	7	19 1	3 9	11		11	5	8	10 1	11 15	5 8	6.9	4.5	5.5	7.5	5.8	11	6.4	7.2	3.6	3.4	1.6	4.8	4.0
	TCE TCE Yearly Ave. Total VOC's	<1	47	41 32 41	25 25	21	23	12 18 13	9		15 1 17 2	0	26 34	-	13			3 9 1: 5 9	3	8	10 11	5	7	1		12	6.9 6.9		5.5	7.5 7.5 7.5	5.8 5.8	11 11 11	6.4 6.4	7.2	3.6 3.6 3.6	3.4	1.6	4.0	4.0
MW-1D	Tot. VOC Yearly Ave.			32	20		20	21	Ū		1	1		Ū	16			1:			11	•	7		11	12	6.9	4.5	5.5	7.5	5.8	11	6.4		3.6	0.4		4.0	4.0
	TCE	32	<1	25	25	18	19	12	13	13	14 1		13			12	13			12	13	7		7	87	7	7.8	2.7		1	2.3	2.6	5.0	NS	2.6	NS	4.3	4.5	3.9
	TCE Yearly Ave. Total VOC's Tot. VOC Yearly Ave.	32	<1	21 25 21	25	24	24	19 12 21	13	14	16 1 16 1	5 16	16	115	14 17	13	13 1	0 1: 1:	3 14	14	12 13	7	9 11	7	8 8 7	777	7.8 7.8 7.8	2.7	2.7	1 2.7 2.7	2.3 2.3 2.3	2.6 2.6 2.6	5.0 5.0 5.0		2.6 2.6 2.6		4.3	4.5	3.9
MW-2S			_						_	_		-	_	_					-		14		3	. '	•	'													
	TCE TCE Yearly Ave.	4	5	6 5	8	6	8	10 8	5		5 5	5	7	7	4 6	-	4	4		4	na 4	4	4		3	na 4	3.5 3.5 3.5		2.4	2.2 2.2	2.3 2.3	2.0 2.0	1.9 1.9	2.2	2.0 2.0	2.5	2.0	1.8	1.5
	Total VOC's Tot. VOC Yearly Ave.	4	5	6 5	8	6	8	12 9	5	7	8 5	55	7	7	4 6	4	4	3 4	4	4	na 3	4	na 4	3 r	na 4 3	na 4	3.5 3.5	2.1		2.2 2.2	2.3 2.3	2.0 2.0	1.9 1.9	2.2	2.0 2.0	2.5	2.0	1.8	1.5
MW-2D	TCE	6	9	8	7	5	7	9	5	5	5 !	5 3	4	6	3	3	2	3 2	2	3	na	2	na	2 r	na 1	na	2.5	oluaaec	oluggeolu	laaed	plugged	plugged	damaged	NS	NS	NS	NS	NS	NS
	TCE Yearly Ave. Total VOC's	6	9	7	7	5	7	7 10	5	5	5 5	5 3	4	6	4	3	2	- 3 6 2	2	3	3 na	2	2		2 1a 1	1	2.5 :	oluggec	oluggeolu	ugged	plugged	plugged plugged	damaged						
MW-3	Tot. VOC Yearly Ave.			7				7			1	5			4			3			2		2		2	1	2.5	olugged	oluggeolu	ugged	plugged	plugged	damaged						
	TCE TCE Yearly Ave.	<1	<1	<1 0	<1	<1	<1	<1 0	<1	<1	<1 <	1 1	<1	<1	<1	<1	4 <	1 <	1 <1	<1	na	19	na 19	2 <	<1 8	na 8	<1 <1	<1 <1		<1 <1	1.7 1.7	1.4 1.4	<1 <1	NS	2.0 2.0	NS	<1	NS	NS
	Total VOC's	<1	<1	<	<1	<1	<1	<1	<1	<1	<1 2	2 1	<1	<1	<1	<1	4 <	1 <	1 <1	<1	na	33	na	2 <	' <1 12	2 na	<1	<1	<1	<1	3.0	1.4	1.8		4.5		<1		
MW-4S	Tot. VOC Yearly Ave.			0				0			1	I			0			1			0		33		1	12	<1	<1		<1	3.0	1.4	1.8		4.5				
	TCE TCE Yearly Ave.	<1	<1	2	<1	1	2	1	<1	1	1 1	<1 	1	<1	<1 0	na	<1 <	:1 < 0		1	na 1	<1	na 0		na <1 0	l na 0	<1 <1	<1 <1		<1 <1	<1 <1	<1 <1	<1 <1	<1	<1 <1	<1	<1	<1	<1
	Total VOC's	<1	<1	2	<1	1	2	1	<1	1	1	<1	1	<1	<1 0	na	<1 <	1 <		1	na 0	<1		<1 r	na <1 0		<1 <1	<1 <1	<1	<1	<1 <1	<1 <1	<1 <1	<1	<1 <1	<1	<1	<1	<1
MW-4D	Tot. VOC Yearly Ave.										. '			,							U		U		-	-													
	TCE TCE Yearly Ave.	<1	1	<1 1	1	<1	1	1 1	<1		<1 <)	<1		0			1 < 0		<1	na 1	<1	0		na <1 0	0	<1 <1	<1 <1	<1	<1 <1	<1 <1	<1 <1	<1 <1	NS	<1 <1	NS	<1	<1	<1
	Total VOC's Tot. VOC Yearly Ave.	<1	1	<1 1	1	<1	1	1 1	<1	<1	<1 <	1 <1)	<1	<1	<1 0	na	<1 <	:1 < 0	1 <1	<1	na 0	<1	na 0	<1 r	na <1 0	l na 0	<1 <1	<1 <1		<1 <1	<1 <1	<1 <1	<1 <1		<1 <1		<1	<1	<1
MW-5S	TCE	1	2	3	<1	1	2	<1	<1	<1	<1 <	1 <1	<1	<1	<1	<1	<1 <	- 	1 <1	<1	na	<1	na	<1 r	- na <1	- I na	<1	<1	<1	1	1.2	2.0	1.3	1.7	1.1	1.3	<1	<1	<1
	TCE Yearly Ave. Total VOC's	1	3	2	<1		2	1			()	<1		0			0	1		1	<1	0		0	0	<1 <1	<1 <1	<1	1 2.1	1.2	2.0 2.0	1.3 1.3	1.7	1.1 1.1	1.3			<1
	Total VOC'S Tot. VOC Yearly Ave.	1	3	3 2	<1	1	2	<1 1	<1	<1	<1 <)	<1	<1	<1 0	<1	<1 <	0	1 <1	<1	na 0	<1	na 0		na <1 0	i na 0	<1	<1 <1		2.1	1.2	2.0	1.3	1.7	1.1	1.3	<1	<1	<1
MW-5D	TCE	2	3	5	3	3	3	1	<1	1	2 1	I <1	2	2	<1	<1	<1 <	:1 <	1 <1	1	na	2		2 r			<1	<1	<1	1	1.3	2.0	1.1	NS	1.0	NS	<1	1.7	1.4
	TCE Yearly Ave. Total VOC's	2	8	3 5	3	3	3	3 1	<1	1	2	I I <1	2	2	1 <1	<1	<1 <	0 1 <		2	1 na	2	2 na		2 1a <1	<1 I na	<1 <1	<1 <1		1 2.3	1.3 1.3	2.0 2.0	1.1 1.1		1.0 1.0		<1	1.7	1.4
MW-6	Tot. VOC Yearly Ave.			5				3			1	I			1			0			1		2		2	<1	<1	<1		2.3	1.3	2.0	1.1		1.0				
1111-0	TCE TCE Yearly Ave.	na	43	35 35	38	62	8	na	18	30	40 2 2	1 21	70	32	19 36	45	50 2	0 17	7 18	14	7 13	34	14 24	18		I 10 5	5	11 11		14 14	16 16	20 20	15 15	NS	7.8	NS	9.8	6.0	4.9
	Total VOC's	na	43	35	38	62	8	36 na	18	30	40 2		70	32	36 19	45	50 2	33 10 17	7 18	14	7	34	14	18 '	13 7 <1	I 10	5 5	11	3.9 1	15.4	16	20	15		7.8 7.8		9.8	6.0	4.9
	Tot. VOC Yearly Ave.			26				27			2	7			36			33	3		13		24	1	13	5	5	11	3.9 1	15.4	16	20	15		7.8				
MW-7	TCE	290	19	63	190	57	19	na	11	57	130 13	30 120	67	25	18	85	60 4	9 49	9 45	23	na	56	na	25 r	na 26	6 na	24	24	12	4	9.4	4.6	19	NS	6.2	NS	7.5	3.2	2.4
	TCE Yearly Ave. Total VOC's	290	19	168 63	190	157	30	89 na	15	167 3	8 250 25	2 50 175	136	25	58 19	137 1	53 8	6 ⁻ 4 8:		25	34 na	73	56 na	2 35 r	25 1a 39	26 9 na	24 31	24 30		4 5.2	9.4 13	4.6 4.6	19 30		6.2 7.7		7.5	3.2	2.4
MW-8	Tot. VOC Yearly Ave.			168	100			94			17	71	100		89			11	4	20	55		73	3	35	39	31	30	23.2	5.2	13	4.6	30		7.7			0.2	2.4
	TCE TCE Yearly Ave.	70	10	48 97	31	110	8	3 38	31	31	48 1 3		14	18	10 14	61	11 1	0 12		8	3 7	98	6 52		2 10 5) 3	2 2	1.5 1.5		1.7 1.7	3.3 3.3	5.4 5.4	3.2 3.2	NS	2.6 2.6	NS	2.9	5.0	2.0
	Total VOC's Tot. VOC Yearly Ave.	70	10	48 103	31	110	8	3 38	31	31	48 1	6 12	14	18	10 14	61	11 1		29	8	3	98	6 52		2 10 5) 3	2	1.5 1.5	<1	1.7 1.7	3.3 3.3	5.4 5.4	3.2 3.2		2.6 2.6		2.9	5.0	2.0
MW-9	TCE	16	5	103	4	11	3	4	3	2	4 4		33			2	24			5	، د1	18			。 c1 c1	, 15	7	5.2		5.2	6.7	17	6.0	NS	11	NS	4.8		<1
	TCE Yearly Ave.		v	9		11	-	6	-	•		4		8	12			9	-	-	3		10		1	3	7	5.2 5.2 5.2	4.2	5.2	6.7	17	6.0	NS	11	NS		<1	
	Total VOC's Tot. VOC Yearly Ave.	16	5	10 9	4	14	3	4 6	3	3	4 4	1 4 1	42	8	1 14	2	24	53 9	5	5	<1 3	22	2 12	1 <	<1 <1 1	I 5 3	77	5.2 5.2		5.2 5.2	6.7 6.7	17 17	6.0 6.0		12 11.5		4.8	<1	<1
MW-10S	TCE	73	110	59	63	27	32	50	44	170	40 3	2 26	25	37	27	28	31 2	4 15	5 16	16	23	17		13 1	13 15	5 19	16	17	9.4	19	9.8	9.9	9.6	NS	6.7	6.1	8.4	5.8	7.2
	TCE Yearly Ave. Total VOC's	73	110	76 59	110	33	44	43 62			46 3	2	32		29		31 2	2	5	18	18 25	18	18	1	13 13 17	18	16 17	17 17	9.4	19 20.7	9.8 9.8	9.9 9.9	9.6 11	-	6.7	6.1	84	5.8	7.2
MW-10D	Tot. VOC Yearly Ave.	13	110	59 76	110	33		62 62	51	220	40 3		32		32	51	. 2	2		10	25 20	10	20 19		13 17	19	17	17		20.7	9.8	9.9 9.9	11		6.7	0.1	0.4	5.0	1.2
MW-10D	TCE	23	33	60	33	54	31	40	30	10	41 3		19		25	21	21 2	2 23		23	19	10	16		18 10	20	13	11		7	7.6	5.0	4.6	NS	5.5		5.8	7.1	7.6
	TCE Yearly Ave. Total VOC's	23	33	36 60	33	66	39	40 45	35	12	3 46 4		21		27 28	22	21 2	2: 5 2:		26	24 19	10	13 16		15 18 10	15) 20	13 13	11 11		7 7	7.6 7.6	5.0 5.0	4.6 4.6		5.5 5.5		5.8	7.1	7.6
MW-11	Tot. VOC Yearly Ave.			36				46			3	4			29			23	3		26		13		15	15	13	11	8.4	7	7.6	5.0	4.6		5.5				
	TCE	2600	44	3400		290	31	na	50	420	29 <		170			72 🖣	:50 5			38	19	170			10 27		14	5.4		6.3	21	11	12	NS	18		7.9	6.4	5.8
	TCE Yearly Ave. Total VOC's	2600	44	1549 3400	480	5090	141		440	630	375 23		1170	1700		1062 1	260 1		0 101	87	33 144	300		96 4	28 41 49		14 35	5.4 5.4	31.2	6.3 6.3	21 49	11 11	12 32		18 40		7.9	6.4	5.8
MW-12S	Tot. VOC Yearly Ave.			1549				1428			41	-			804			63	-		111		358	6		30	35			6.3	49	11	32		40				
	TCE TCE Yearly Ave.	190	280	120 203	270	190	100	145	46	50 ·	150 14 9	7			145	110 1	70 8	11	4	na	24 62	82	71	4		52	11 11	59 59	10	44 44	62 62	46 46	27 27	NS	44 44		25	17	12
	Total VOC's Tot. VOC Yearly Ave.	190	280	120	270	330	137	23 190	83	62 ·	196 17 13	79 172	183	180		119 1	92 9		2 101	na	57 56	93		88 1	11 10: 50	2 23 63	11 11	59 59	10 4	46.2 46.2	67 67	49.3 49.3	29.5 29.5		46		25	17	12
MW-12D		~	<i></i>		4-	40	40		40	45						-				-				-															
	TCE TCE Yearly Ave.	21	17	23 19	17	12	12	13 14	10		10 9	9	11	15	11		16	9		6	6	5	5		4 2 5	5	11 11	7.8 7.8	10	4.8 4.8	4.2 4.2	10 10	3.3 3.3	NS	5.9 5.9		4.4	2.8	1.5
	Total VOC's Tot. VOC Yearly Ave.	21	17	23 19	17	14	12	13 14	11	52	12 9 2		13	15	8 12	7	16	95 99	7	6	6 6	5	5 5	5	4 2 5	8 5	12 12	7.8 7.8		6.6 6.6	4.2 4.2	10 10	3.3 3.3		5.9 5.9		4.4	2.8	1.5
	-																																						

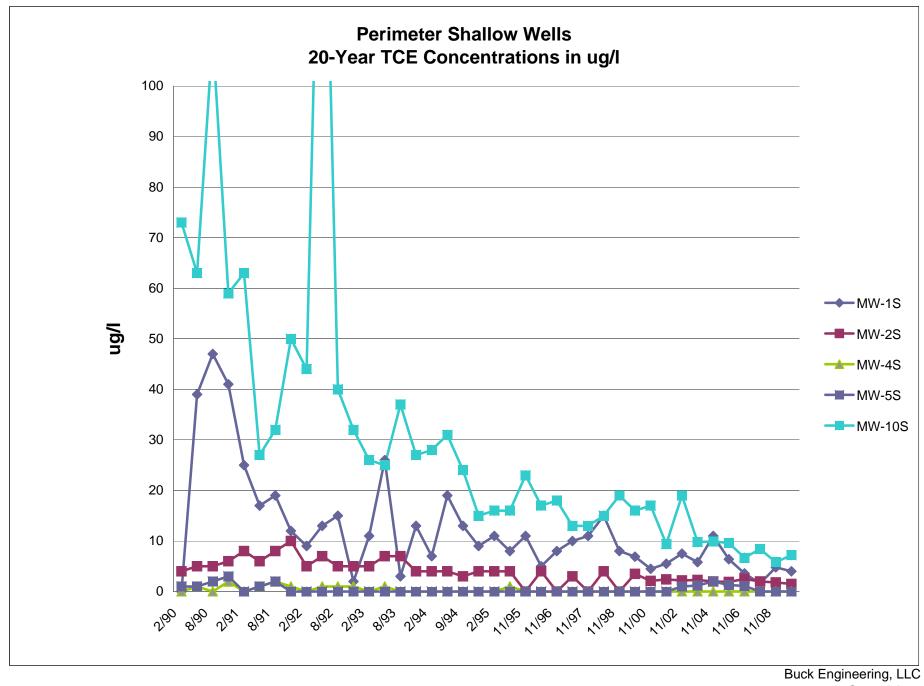
SCWP SITE Town of Cortlandville Historical TCE Concentrations (ug/l)

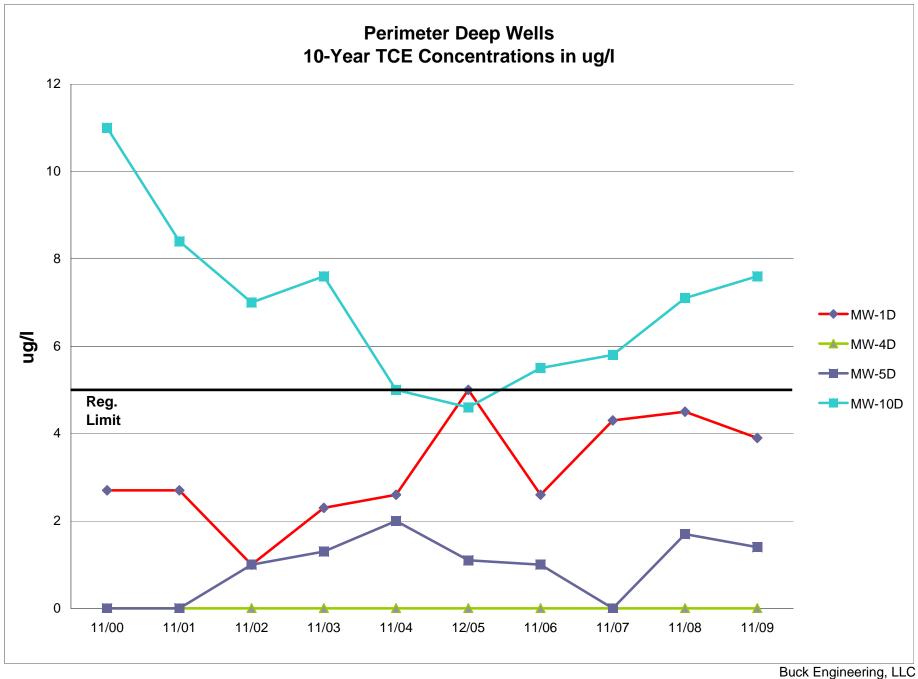
		2/90	8/90 11/90	2/91 5/91	8/91 11/91	2/92 5/92	8/92 11/9	2 <u>2/93</u> <u>5/9</u> 3	<u>8/93 11/93</u>	2/94 6/	<u>94 9/94 1</u>	2/94 2/95	5/95 1	1/95 5/96	11/96	<u>5/97 11/97</u>	<u>5/98</u> 11/9	98 8/99	<u>11/00</u> 1	1/01 11/0	<u>2 6/03</u>	11/03	11/04	12/05	9/06*	11/06	5/07*	11/07	11/08	11/09
Misc. V	Vells not in Settlement	Agreement																												
MW-L16																														
	TCE																												41	20
	Total VOC's																												42	20 21
MW-BE1																														
	TCE TCE Yearly Ave.																	<1 <1		na na na na	<1	na	na	na						
	Total VOC's																	<1		na na na na	<1 <1	na na	na na	na na						
	Tot. VOC Yearly Ave.																	<1		na na	<1	na	na	na						
MW-BE2	2																													
	TCE																	<1	na	na na	<1	na	na	na						
	TCE Yearly Ave.																	<1		na na	<1	na	na	na						
	Total VOC's Tot. VOC Yearly Ave.																	<1 <1		na na na na	1.2 1.2	na na	na na	na na						
DEC-23																		<1	na	na na	1.2	na	na	na	<1		<1			
02020	Total VOC's																								<1		<1			
DEC-24	TCE																								NS		<1			
	Total VOC's																								NS		<1			
DEC-25																									2.3		2.2			
DEC-26	Total VOC's																								2.3 9.9		2.2 NS			
DEC-26	Total VOC's																								9.9		NS			
DEC-27																									4.7		NS			
	Total VOC's																								4.7		NS			
DEC-28																									3.5		NS			
	Total VOC's																								3.5		NS			
DEC-29	TCE Total VOC's																								2.4 2.4		NS NS			
DEC-30																									2.4		1.2			
DEC-30	Total VOC's																								1.4		1.2			
	Notes		1. Units are u	a/l.																										
	10100				8 were transcri	bed from an C	BG spreads	heet.																						
			3. Data after	11/98 were en	tered directly f	om lab repor	ts.																							
					pstate Labs, In				bs, Inc.																					
					BE2 were insta																									
			 Sampling p 	erformed by	URS; analytica	performed by	y Buck Enviro	onmental Lab	pratories, Inc.																					

Sampling performed by URS; analytical performed by Buc 6. Lab analysis by Life Sciences Lab beginning 2/08. 7. Well L16 was constructed inside the building on 12/5/08. NS = Not Sampled

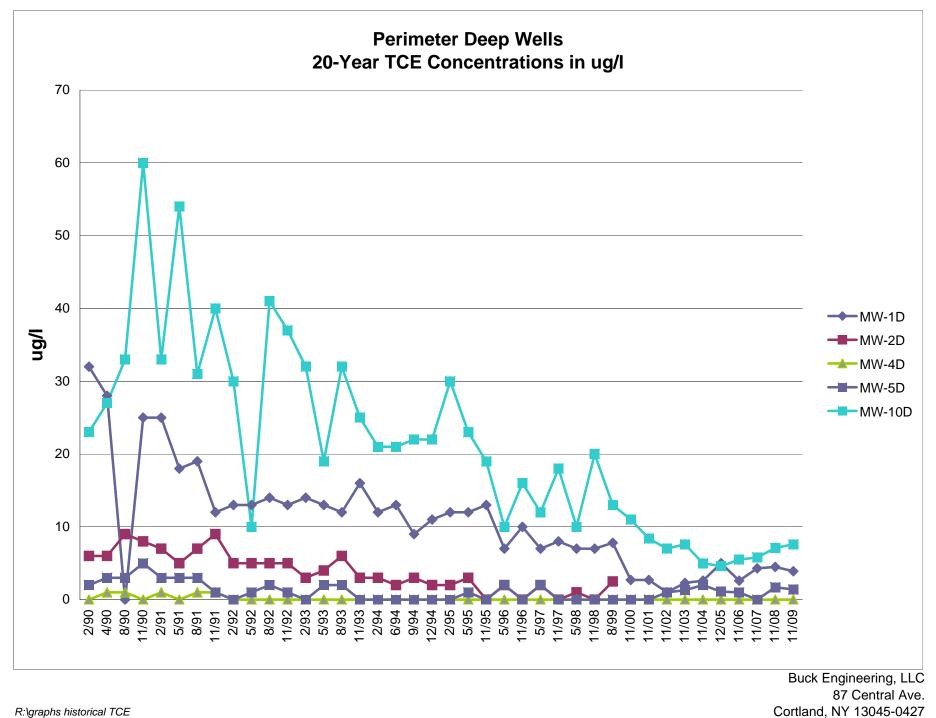
Buck Engineering, LLC 87 Central Ave. Cortland, NY 13045-0427 Fig. E

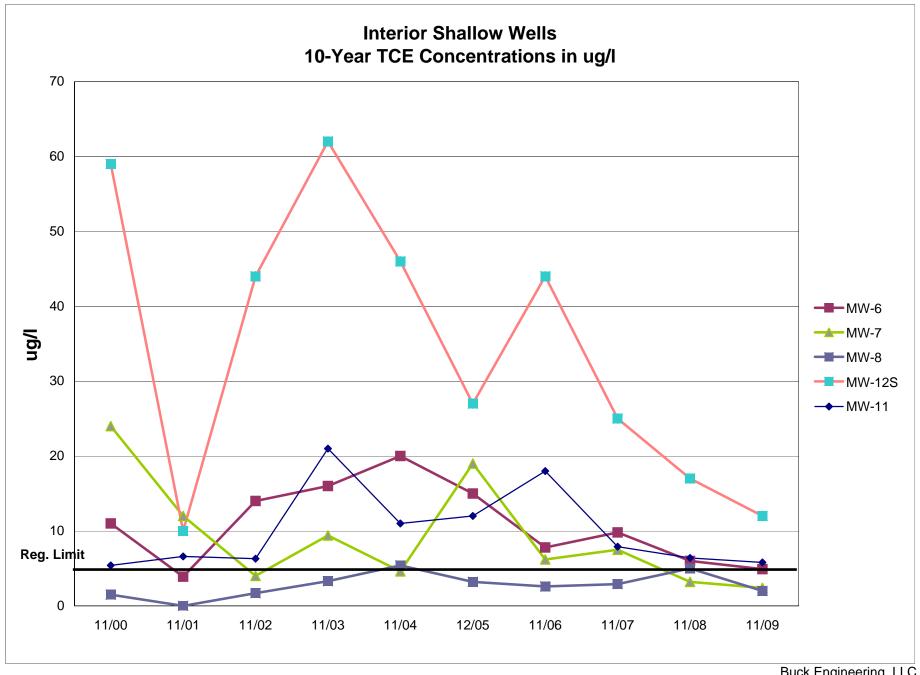




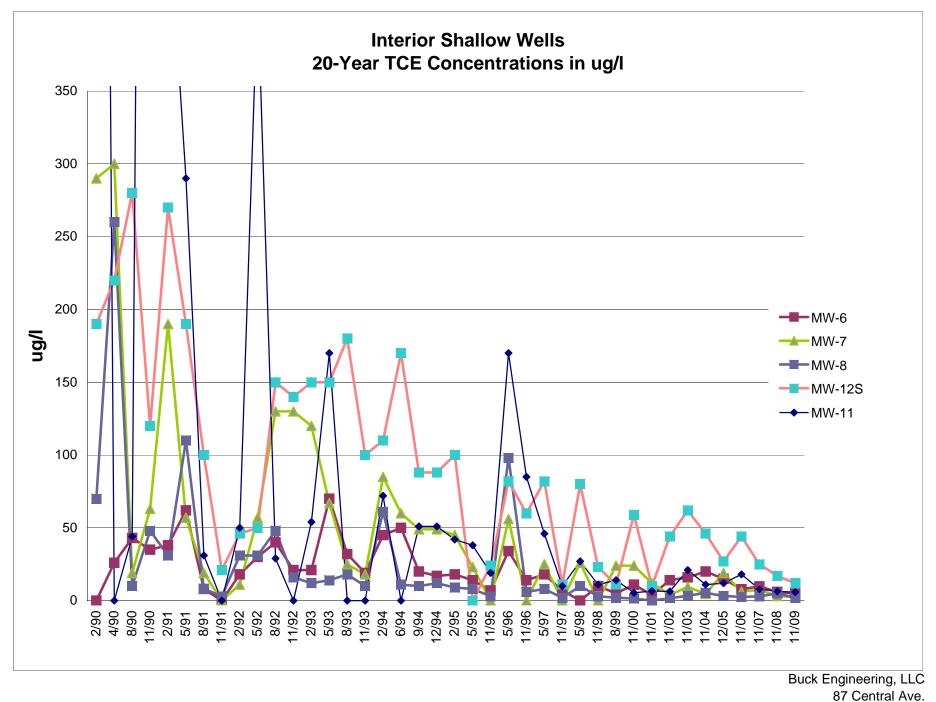


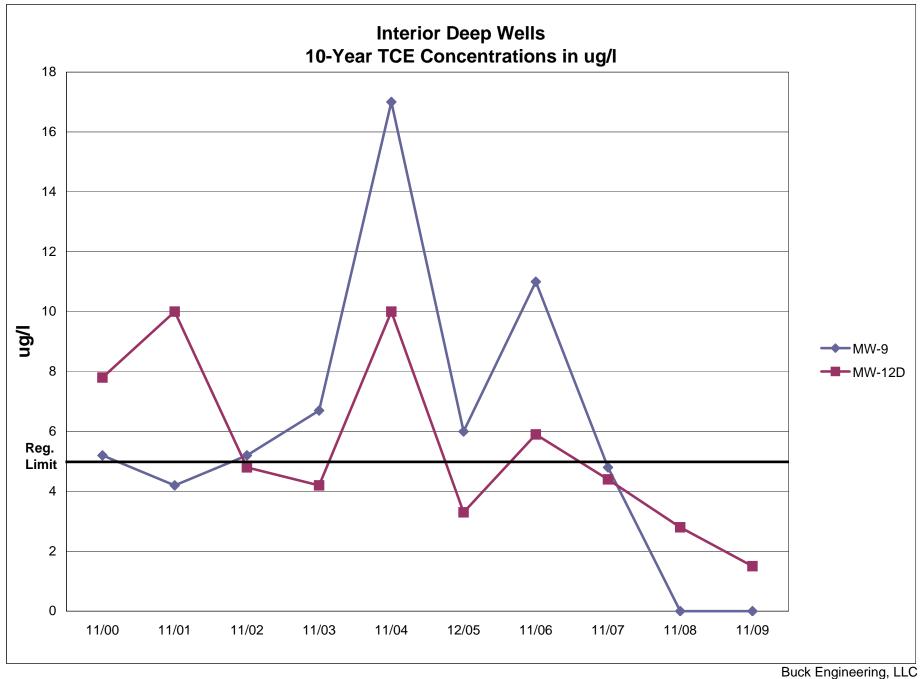
Buck Engineering, LLC 87 Central Ave. Cortland, NY 13045-0427



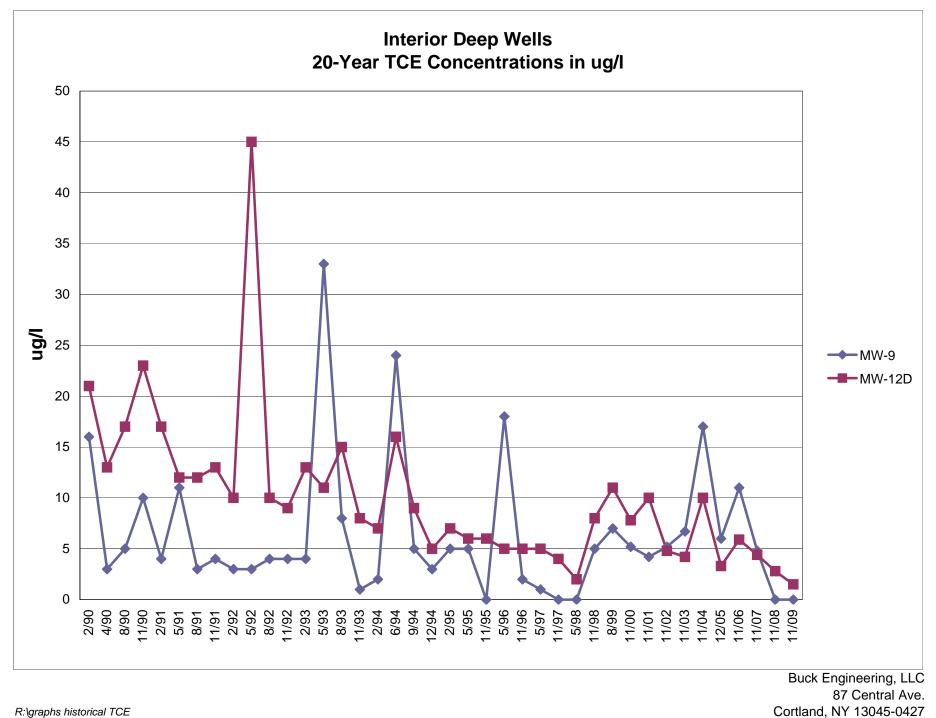


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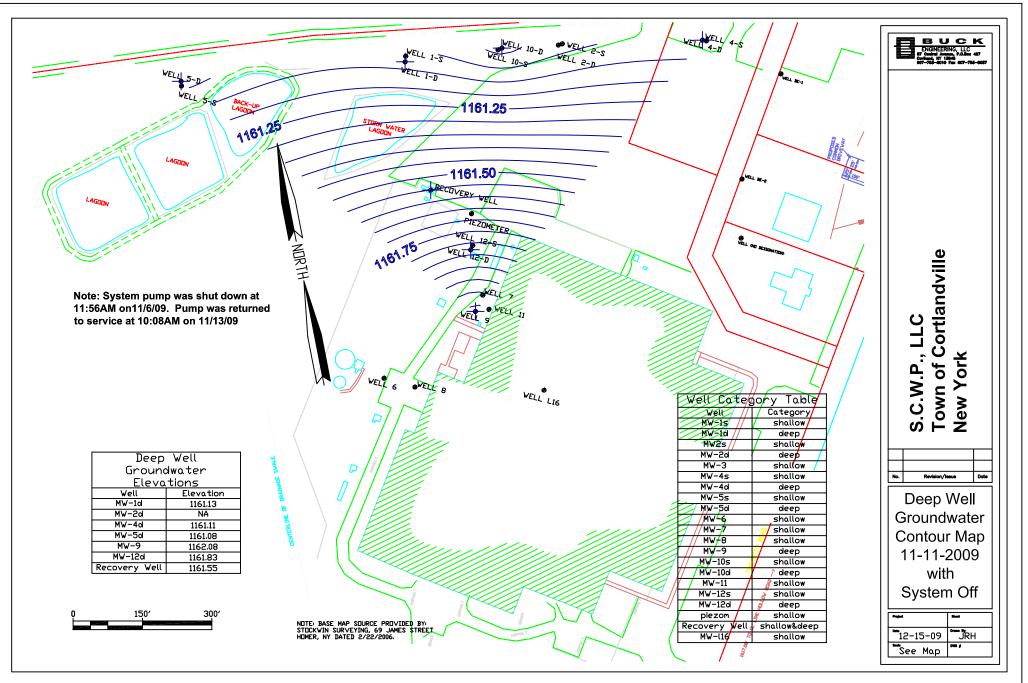


Groundwater Elevation Measurements at SCWP Site, Town of Cortlandville, NY

	reference**		ELEV	ELEV	ELEV	
NUMBER	CASING ELEV.	CATEGORY.	11/11/2009	11/16/2009	11/30/2009	
MW-1S	1185.75	S	1161.14	1160.63	1160.96	
MW-1D	1185.85	d	1161.13	1160.59	1160.93	
MW-2S	1210.91	S	1161.16	1160.54	1160.95	
MW-2D	1211.61	d	damaged	damaged		
MW-3	na	S	na	na	na	
MW-4S	1209.72	S	1161.38	1160.80	1161.34	
MW-4D	1210.14	d	1161.11	1160.51	1161.04	
MW-5S	1178.46	S	1161.39	1161.44	1161.73	
MW-5D	1178.86	d	1161.08	1160.89	1161.18	NOTE: System pump was shut down from 11/6/09
MW-6	1212.20	S	1162.76	1162.41	1162.74	to 11/13/09
MW-7	1213.82	S	damaged	damaged	damaged	
MW-8	1212.76	S	1162.78	1162.42	1162.77	
MW-9	1212.94	d	1162.08	1161.47	1161.86	
MW-10S	1207.23	S	1161.12	1160.50	1160.88	
MW-10D	1207.52	d	1161.03	1160.42	1160.81	
MW-11	1214.44	S	1162.46	1161.96	1162.36	
MW-12S	1212.94	S	1161.99	1161.20	1161.62	
MW-12D	1212.80	d	1161.83	1161.00	1161.40	
MW-BE1	1208.06	S	na	na	na	
MW-BE2	1210.55	S	na	na	na	
piezom	1212.59	S	1161.31	1160.60	1160.99	
Recov Wel	1205.62	s&d	1161.55	1158.59	1159.01	
MW-L16	1212.99	S	1162.97	1162.51	1162.92	
	** Wall casing alo	vations wore de	storminod fro	m curvov by	lim Stockwin	15 2006

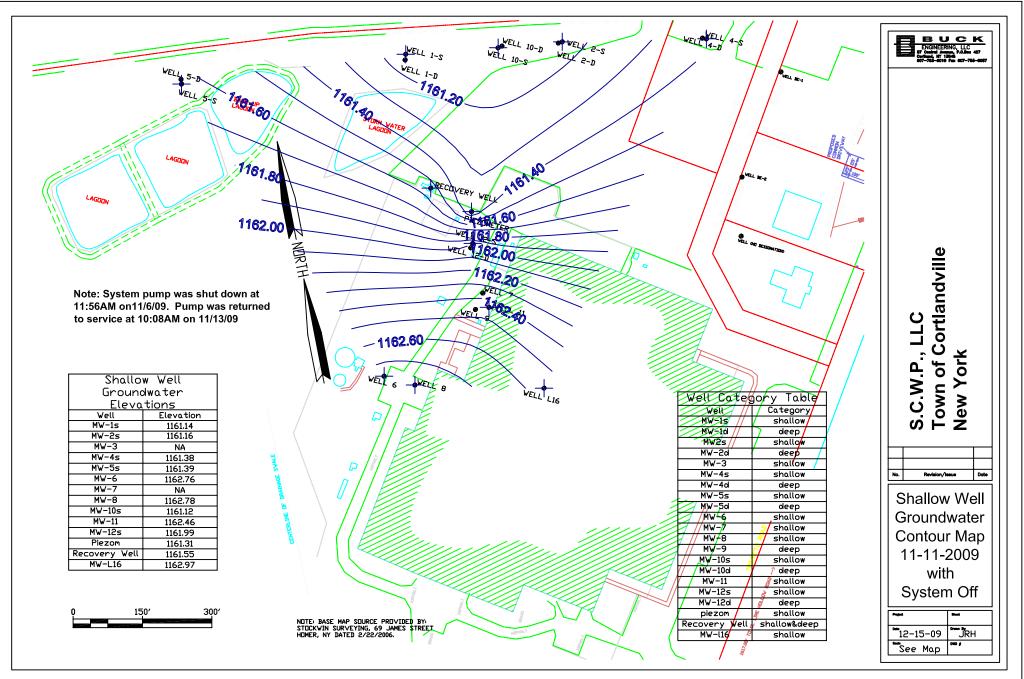
** Well casing elevations were determined from survey by Jim Stockwin, LS, 2006

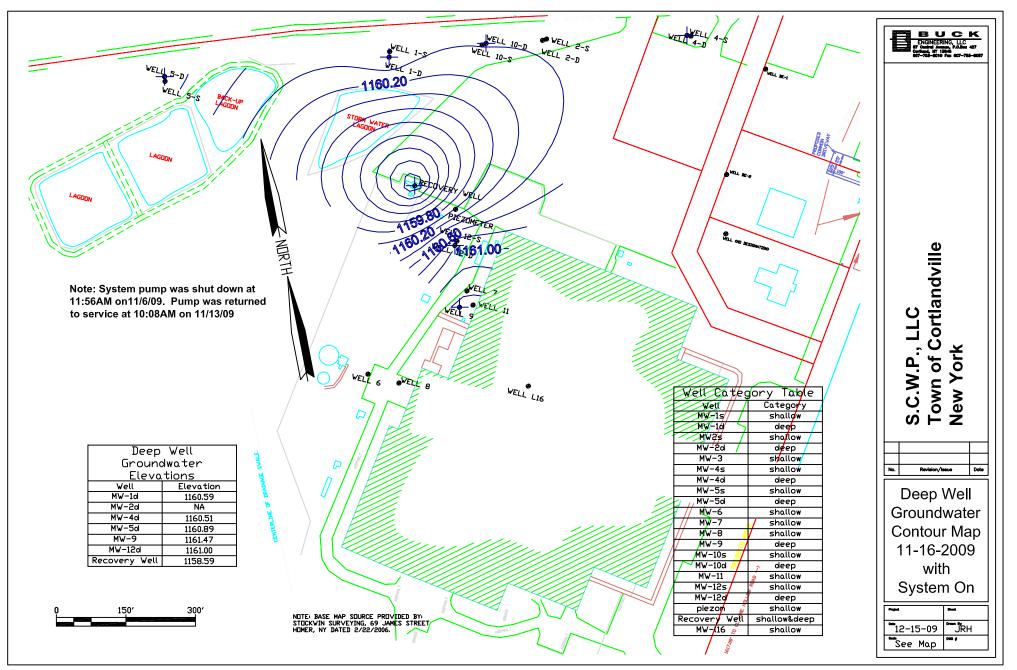
Buck Engineering, LLC 87 Central Ave. Cortland, NY 13045-0427



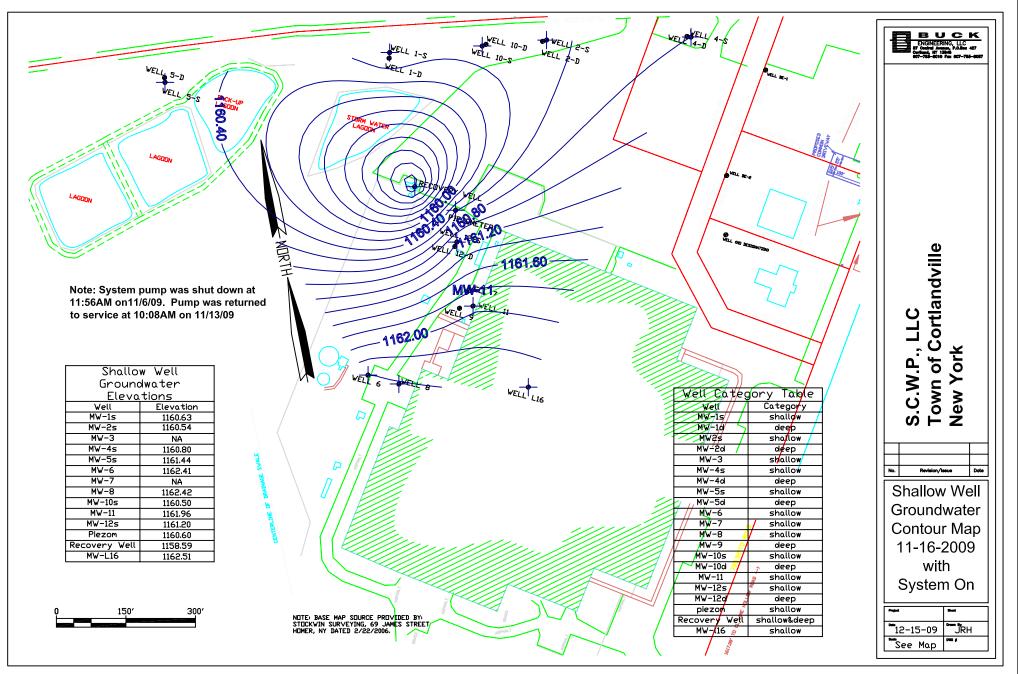
FNAME scwp gw contours 2009.dwg (off 11-11-09 deep)

REVDATE

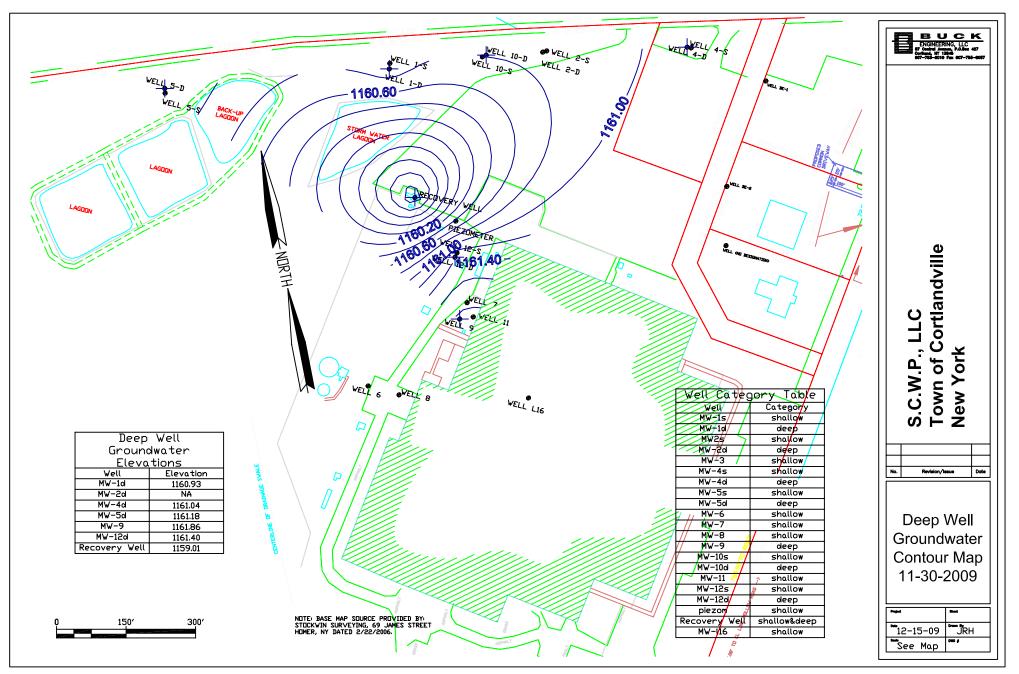




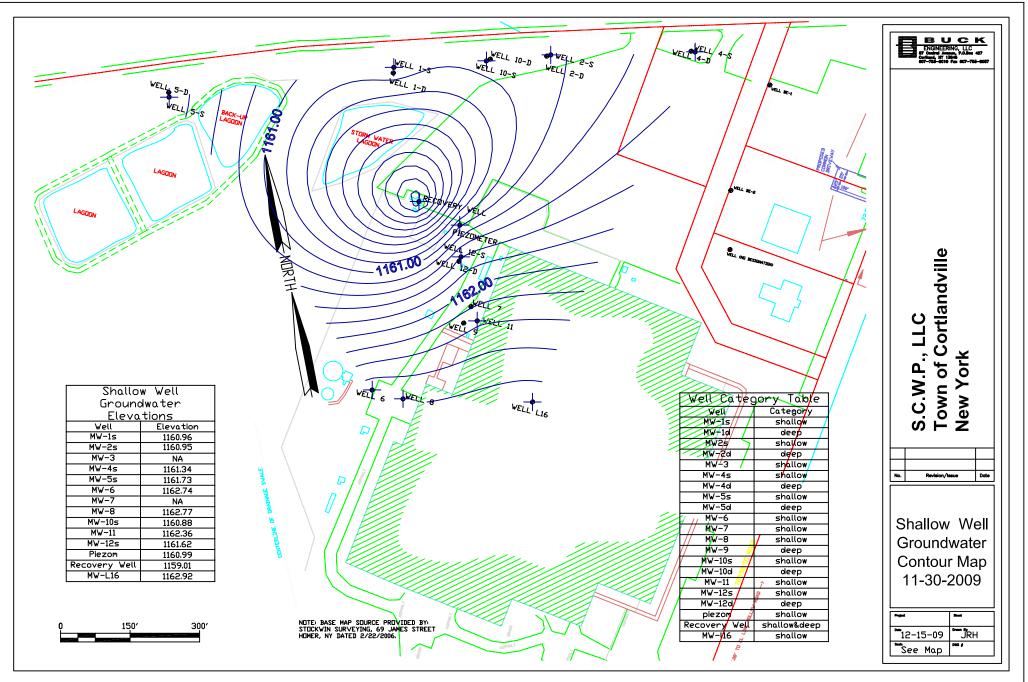
REVDATE



REVDATE



REVDATE



APPENDIX C

Sampling Log Sheets and Chain of Custody Form

Laboratory Reports from Life Sciences Laboratories

BUCK ENGINEERING FIELD SAMPLING DATA SHEET

Date: 11-30-09	Tech: JA	RH, <u>SE</u> C	÷	Lab Log N	o:		i Sant na n					
Client: SCWP		Site:	SCWP			4			: 			
Well I.D.:	MW-5D	MW-5S	MW-1D	MW-1S	MW-10D	MW-10S	MW-2D	MW-2S	MW-4D	MW-4S	MW-6	MW-8
Total Well Depth (ft)	55'	32'	62'	38'	67'	60'		64'	>65'	61'	58'	63'
Well Diameter (inches)	20	2"	2"	2"	07	2"	011	2"	2"	2"	2"	2"
Depth to Free Product (ft)	Z	, ∠	Z	۲	Z	2	<u> </u>	2	<u>د</u>	<u> </u>	2	4
					a 9000 7070			<u> </u>			•	
Product Thickness (ft)	1178.86	1178.46	1185.85	1185.75	1007 50	1207.23	1211.61	1210.91	1210.14	1209.72	1212.2	1212.76
Well Reference Elevation (ft)						1992 - 1992 _{- 1} 993 - 1996 <u>-</u>		·				And the second
Depth to Groundwater (ft)	17,68	16,73			(46.71	96.35	dumaged	49,91				
Groundwater Elevation (ft)	1161.18	1161.73	1160.93	1160.96	1160.81	1160,88	8	1160,95	(161.04	1161.34	1162.74	1162,77
Groundwater Column (ft)		·	 			77					m.	
Required Purge Volume (gal)	8.66	1.64	19	Ļ	10	.7		a 7.	8	7	5	. 1
Actual Purge Volume (gal)	I		e		-			, area i	• –			N 1416 /
Purge Method	0.0		-	!				1	•			1112.5
Time Sampled	9:05A	8:52A	9.40 A	9.40A	16:35A	10:320	· · · · ·	il:00a	11:35A	11:30A	1;120	KIOP
Observations				1			1					S R
Color												, a a
Odor												2 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
Sheen		8 87	1					per la l				
Temp	ŀ ···				e tene te					i • • • •	ka a	a nan n
Dura Malura Calculational Dur				l to the heig	 	- tor column	and diamot	or of the ma	 	ll coning on	followe	5.5
Purge Volume Calculations: Pur	ge volumes	are directly	proportiona	t to the heig	int of the wa				Intoring we	ii casing as	TOHOWS.	10 0.000
	 	l	hoight (ft)						- 50 M (
	oring Well: M							а — — — — — — — — — — — — — — — — — — —				
	oring Well: M		and the second					19				
4" Wonitor	ring Well: W	ater column	neight (it))	ע ב – א well	volume pur	ye (galions)						j i
Durne Mathed(a): (1) Laboration	Lional Dallas	(A) Dadie	od bond ba	ilor (2) Dia	hoophia ha	nd hoiler /4		(mn (5) Do	riotaltia num	n (6) Otha		
Purge Method(s): (1) Laboratory		C Dedical	leu nanu ba	(0) DIS	posable nai	nu baller, (4		ump, (5) Pe	Tistanic pun		!	
Commonto	1	ļ		la i	1	s <u>ma sa</u>	I		la su i		1	5 A
Comments:											3 - 621	
						- 1177						1

87 CENTRAL AVENUE P.O. BOX 427 CORTLAND, NY 13045-0427 (607)753-8010 FAX (607)753-8037

....

BUCK ENGINEERING FIELD SAMPLING DATA SHEET

Date: 11-30-09	Tech:	214, 36	C	Lab Log N	o:					5.2		T
Client: SCWP		Site:	SCWP			1				a akat tatatata		
							system		÷	Cascale		
Well I.D.:	MW-7	MW-11	MW-9	MW-12D	MW-12S	MW-L16	Recov We	Piezom	Towsight	se outfall		
Total Well Depth (ft)	52' gran	58'	>65'	>65' (N)	60' (S)	60'				0		
Well Diameter (inches)	2"	2"	2"	2"				2"				
Depth to Free Product (ft)		10-1 1										
Product Thickness (ft)												
Well Reference Elevation (ft)	1213.82			1212.80	1212.94	1212.99	1205.62	1212.59				
Depth to Groundwater (ft)	44.90 52:03	52.08	51.08	51.40	51.32	50.07	46.61	51.60			10 041 41	
Groundwater Elevation (ft)	ton y uni	1162.36	1161.86	1161.40	1161.62	1162.92		1160.99			1	
Groundwater Column (ft)	і. П. н.	1									<u> </u>	
Required Purge Volume (gal)	2	3	10	10	5	55						
Actual Purge Volume (gal)	4											
Purge Method					<u> </u>						5. 	
Time Sampled	1:40p	1:450	2:20p	3:000	3:159	12:140	1235	13.300	1:500	9:12A		
Observations	e Antonio e esperado	1	:			1						
Color	PAR OPER	-										
Odor	Deltits											
Sheen					middy				 L			
Temp				ŀ	<u> </u>					~		ļ
	Casing Bro			l.							L	
Purge Volume Calculations: Purg	e volumes	are directly	proportiona	to the heig	ht of the wa	ater column	and diamet	er of the mo	onitoring we	I casing as	follows:	
1	 		L			l						
2 " Monitor	ing Well: W	later colum	n height (ft)	/ 2 = 3 well	volume pur	ge (gallons)						
		ater colum										<u> </u>
4" Monitori	ng Well: W	ater column	height (ft) >	(2 = 3 well	volume pur	ge (gallons)						
	i	-		44	1	6		l				
Purge Method(s): (1) Laboratory H	land Bailer,	(2) Dedica	ted hand ba	iler, (3) Dis	posable har	nd bailer, (4)) Bladder pu	ump, (5) Pe	ristaltic pum	p, (6) Othe	ŗ	
	i.			L				24 - 24 M				
Comments: Nele	······					·····	n netti radilla 11. a					
				and the second of the second o						52		

87 CENTRAL AVENUE P.O. BOX 427 CORTLAND, NY 13045-0427 (607)753-8010 FAX (607)753-8037

LSL

Phone: (607) 753-8010

John Buck Buck Engineering, LLC PO Box 427 87 Central Ave Cortland, NY 13045

Laboratory Analysis Report

For

Buck Engineering, LLC

Client Project ID:

S.C.W.P. - BE7011

LSL Project ID: 0922114

Receive Date/Time: 12/01/09 16:07

Project Received by: GS

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 LSL North Lab, Waddington, NY
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12/1× ling

This report was reviewed by:

Date: Life Science Laboratories, Inc.

A copy of this report was sent to:

Page 1 of 8 Date Printed: 12/15/09

Buck Engineering, LLC Cortland, NY

Sample ID:	MW-5S			LSL Sample ID:	0922114	-001
Location:				*		
Sampled:	11/30/09 8:52	Sampled By: JRH				
Sample Matrix:	NPW	1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5				
Analytical Meth						
Analyte	04	Resul	t Units	Prep Date	Analysis	Analys
	/olatiles (Partial List)			Date	Date & Time	Initial
	lloroethane		, 1 110/1			
1,1-Dichlor		<	0		12/9/09	BI
	roethene, Total	<	U		12/9/09	BI
Trichloroe		<	-		12/9/09	BI
Tetrachlor		<	+		12/9/09	BI
Vinyl chlor	ide				12/9/09	BI
	(1,2-DCA-d4)	109			12/9/09	BI
Surrogate		97			12/9/09	BL
Surrogate (94			12/9/09 12/9/09	BE
			r /011	· · · · · · · · · · · · · · · · · · ·	12/9/09	BL
ample ID:	MW-5D			LSL Sample ID:	0922114-	-002
location:						
ampled:	11/30/09 9:05	Sampled By: JRH				
ample Matrix:	NPW					
nalytical Metho				~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		
Analyte	i a a a a a a a a a a a a a a a a a a a	Decult	* Tmita	Prep	Analysis	Analys
	alatilaa (Dartial List)	Result	t Units	Date	Date & Time	Initials
	olatiles (Partial List)					
1,1,1-Trichl		<1	ug/l		12/9/09	BD
1,1-Dichlor		<1	ug/l		12/9/09	BD
	oethene, Total	<1	ug/l		12/9/09	BD
Trichloroet		1.4	U		12/9/09	BD
Tetrachloro		<1	U		12/9/09	BD
Vinyl chlori		<1	0		12/9/09	BD
	1,2-DCA-d4)	110			12/9/09	BD
Surrogate (1		96			12/9/09	BD
Surrogate (4	I-BFB)		%R		12/9/09	BD
amenda TD	MAN 10			LSL Sample ID:	0922114-	003
ample ID:	MW-1S				V/22114~	005
	14144-13			Lon Sample ID.		
ocation:		Convelad Days (D11		Lon Sample ID.		
ocation: ampled:	11/30/09 9:40	Sampled By: JRH		Lot sample iD.		
ocation: ampled: ample Matrix:	11/30/09 9:40 NPW	Sampled By: JRH		Lot sampe in.		
ocation: ampled: ample Matrix: nalytical Method	11/30/09 9:40 NPW			Prep	Analysis	Analyst
ocation: ampled: ample Matrix: nalytical Methor Analyte	11/30/09 9:40 NPW d	Sampled By: JRH	Units	•	Analysis Date & Time	Analyst Initials
ocation: ampled: ample Matrix: nalytical Methor Analyte	11/30/09 9:40 NPW		Units	Prep		
ocation: impled: imple Matrix: nalytical Methor Analyte	11/30/09 9:40 NPW d		Units ug/l	Prep	Date & Time	Initials
ocation: impled: imple Matrix: nalytical Metho <u>Analyte</u> EPA 8260B Vo	11/30/09 9:40 NPW d platiles (Partial List) proethane	Result		Prep	Date & Time	Initials BD
ocation: mpled: mple Matrix: nalytical Method <u>Analyte</u> EPA 8260B VC 1,1,1-Trichlo 1,1-Dichloro 1,2-Dichloro	11/30/09 9:40 NPW d platiles (Partial List) proethane ethene ethene	Result	ug/l	Prep	Date & Time 12/9/09 12/9/09	Initials BD BD
ocation: impled: imple Matrix: nalytical Method Analyte EPA 8260B Vc 1,1,1-Trichlo 1,1-Dichloro	11/30/09 9:40 NPW d platiles (Partial List) proethane ethene ethene	Result <1 <1	ug/l ug/l	Prep	Date & Time 12/9/09 12/9/09 12/9/09	Initials BD BD BD
ocation: mpled: mple Matrix: nalytical Method Analyte EPA 8260B Vc 1,1,1-Trichlo 1,1-Dichloro 1,2-Dichloro	11/30/09 9:40 NPW d platiles (Partial List) proethane ethene ethene, Total ene	Result <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	ug/l ug/l ug/l ug/l	Prep	Date & Time 12/9/09 12/9/09 12/9/09 12/9/09	Initials BD BD BD BD
ocation: Impled: Imple Matrix: Inalytical Method Analyte EPA 8260B VC 1,1,1-Trichlor 1,1-Dichloro 1,2-Dichloro Trichloroeth	11/30/09 9:40 NPW d platiles (Partial List) proethane ethene ethene ethene, Total ene ethene	Result <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <0	ug/l ug/l ug/l ug/l ug/l	Prep	Date & Time 12/9/09 12/9/09 12/9/09 12/9/09 12/9/09	Initials BD BD BD BD BD
ocation: ampled: ample Matrix: nalytical Method Analyte EPA 8260B Vc 1,1,1-Trichlo 1,2-Dichloro Trichloroeth Tetrachloroe	11/30/09 9:40 NPW d platiles (Partial List) proethane ethene ethene ethene ethene ethene ethene ethene	Result <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	ug/l ug/l ug/l ug/l	Prep	Date & Time 12/9/09 12/9/09 12/9/09 12/9/09 12/9/09 12/9/09	Initials BD BD BD BD BD BD
ocation: ampled: ample Matrix: nalytical Method Analyte EPA 8260B Vc 1,1,1-Trichlo 1,2-Dichloro Trichloroeth Tetrachloroe Vinyl chlorid	11/30/09 9:40 NPW d platiles (Partial List) proethane ethene ethene ethene ene ethene le 2-DCA-d4)	Result <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	ug/l ug/l ug/l ug/l ug/l ug/l	Prep	Date & Time 12/9/09 12/9/09 12/9/09 12/9/09 12/9/09	Initials BD BD BD BD BD

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Page 2 of 8

Buck Engineering, LLC Cortland, NY

Sample ID:	MW-1D			LSL Sample ID:	0922114	-004
Location:					,	
Sampled:	11/30/09 9:40	Sampled By: JRH				
Sample Matrix:	NPW .	L V				
Analytical Metho				Duon	A	4 1
Analyte		Res	ilt Units	Prep Date	Analysis Date & Time	Analys Initial
	olatiles (Partial List)			Date	Date & Thire	Initian
1,1,1-Trich			<1 ug/l		12/0/00	
1,1-Dichlor			0		12/9/09	BD
	oethene, Total		<1 ug/l <1 ug/l	1	12/9/09	BD
Trichloroet			<1 ug/1 3.9 ug/1		12/9/09	BD
Tetrachloro			<1 ug/1		12/9/09	BD
Vinyl chlor			<1 ug/1 <1 ug/1		12/9/09 12/9/09	BD
	1,2-DCA-d4)		12 %R			BD
Surrogate (98 %R		12/9/09	BD
Surrogate (95 %R		12/9/09	BD
Surrogate (95 %K		12/9/09	BD
Sample ID:	MW-10S			LSL Sample ID:	0922114-	005
Location:						
Sampled:	11/30/09 10:32	Sampled By: JRH				
Sample Matrix:		~umpieu Dji vitii				
Analytical Metho	d			Prep	Analysis	Analyst
Analyte		Resu	lt Units	Date	Date & Time	Initials
D EPA 8260B V	olatiles (Partial List)					
1,1,1-Trichl	oroethane		<1 ug/l		12/9/09	BD
1,1-Dichloro	oethene		<1 ug/l		12/9/09	BD
1,2-Dichloro	oethene, Total		<1 ug/l		12/9/09	BD
Trichloroet		5	.2 ug/l		12/9/09	BD
Tetrachloro	ethene		<1 ug/1		12/9/09	BD
Vinyl chlori	de		<1 ug/l		12/9/09	BD
Surrogate (1	1,2-DCA-d4)	. 1	11 %R		12/9/09	BD
Surrogate (,		97 %R		12/9/09	BD
Surrogate (4			93 %R	·	12/9/09	BD BD
	NANY 10D					
-	MW-10D			LSL Sample ID:	0922114-0	006
Location:						
Sampled:	11/30/09 10:35	Sampled By: JRH				
Sample Matrix:	NPW					
nalytical Metho				Duon	A no lucio	A
Analyte		Resu	lt Units	Prep Date	Analysis Date & Time	Analyst
	blatiles (Partial List)	ACSU	n Unns	ναις	Date & Hille	Initials
	,					
1,1,1-Trichle			1 ug/l		12/9/09	BD
1,1-Dichloro			l ug/l		12/9/09	BD
	ethene, Total		1 ug/l		12/9/09	BD
Trichloroeth			6 ug/l		12/9/09	BD
Tetrachloro			l ug/l		12/9/09	BD
Vinyl chlorid			1 ug/l		12/9/09	BD
	,2-DCA-d4)	11	3 %R		12/9/09	BD
Surrogate (1 Surrogate (1 Surrogate (4		ç	6 %R		12/9/09	BD

Life Science Laboratories, Inc.

Page 3 of 8 Date Printed: 12/15/09

Buck Engineering, LLC Cortland, NY

Sample ID:	MW-2S			LSL Sample ID:	0922114	-007
Location:						
Sampled:	11/30/09 11:00	Sampled By: JRH				
Sample Matrix:	NPW	x <i>v</i>				
Analytical Meth				Prep	Analysia	I
Analyte		Result	Units	Date	Analysis Date & Time	Analys Initial
	/olatiles (Partial List)					Initial
	lloroethane	<1	ug/l		12/9/09	DI
1,1-Dichlo		<1	ug/l		12/9/09	BI
	roethene, Total	<1	ug/l		12/9/09	BI
Trichloroe		1.5	ug/i		12/9/09	BI BI
Tetrachlor		<1	ug/l		12/9/09	BI
Vinyl chlor		••• ••••••••••••••••••••••••••••••••••	ug/l		12/9/09	BI
	(1,2-DCA-d4)	112	~~%R ~~		12/9/09	BI BI
Surrogate		96	%R		12/9/09	BL
Surrogate		94	%R		12/9/09	BI
Sample ID:	MW-4S			LSL Sample ID:	0922114-	008
Location:						
Sampled:	11/30/09 11:30	Sampled By: JRH				
Sample Matrix:	NPW					
Analytical Metho	od			Prep	Analysis	Analys
Analyte		Result	Units	Date	Date & Time	Initials
U EPA 8260B V	olatiles (Partial List)					
1,1,1-Trich		<1	ug/l		12/9/09	BD
1,1-Dichlor		<1	ug/l		12/9/09	BD
	oethene, Total	<1	ug/l		12/9/09	BD
Trichloroet		<1	ug/l		12/9/09	BD
Tetrachlor		<1	ug/l		12/9/09	BD BD
Vinyl chlor		<1	ug/l		12/9/09	BD
-	1,2-DCA-d4)	110	%R		12/9/09	BD
Surrogate (96	%R		12/9/09	BD
Surrogate (•		%R		12/9/09	BD BD
Sample ID:	MW-4D			LSL Sample ID:	0922114-()09
Location:						
Sampled:	11/30/09 11:35	Sampled By: JRH				
Sample Matrix:	NPW					
Analytical Metho	d			Prep	Analysis	Analyst
Analyte		Result	Units	Date	Date & Time	Initials
	olatiles (Partial List)					mittais
1,1,1-Trichl	· · · · ·	<1			10/0/00	
1,1-Dichloro		<1	ug/l		12/9/09	BD
	ethene, Total	<1	ug/l		12/9/09	BD
Trichloroetl		<1	ug/l		12/9/09	BD
Tetrachloro		<1	ug/l		12/9/09	BD
Vinyl chlori			ug/l		12/9/09	BD
-	,2-DCA-d4)	<1	ug/l		12/9/09	BD
Surrogate (1		109	%R		12/9/09	BD
ourrogate (96	%R		12/9/09	BD
Surrogate (4	NO 877833	95	%R		12/9/09	BD

Life Science Laboratories, Inc.

Page 4 of 8 Date Printed: 12/15/09

400 inte	LABORATORY	ANALYSIS	REPORT	
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 $1 \rightarrow 1 + 1$

Sample ID:	MW-L16	Buck Engineering, L		Cortland,			
Location:	TAT AA -1710				LSL Sample ID:	0922114	-010
	11/00/00						
Sampled:	11/30/09 12:14	Sampled By: JR	H				
Sample Matrix:	NPW						
Analytical Metho	od				Prep	Analysis	Analys
Analyte			Result	Units	Date	Date & Time	<u>Initial</u>
(1) EPA 8260B V	olatiles (Partial List)						Initial
1,1,1-Trich	loroethane		<1	ug/l		12/10/09	Dr
1,1-Dichlor	oethene		<1			12/10/09	BI
1,2-Dichlor	oethene, Total		1.1	ug/l		12/10/09	BI
Trichloroet	hene		20	ug/l		12/10/09	BE BE
Tetrachloro	ethene		<1	ug/l		12/10/09	BL
Vinyl chlori	de		<1	ug/l		12/10/09	
Surrogate (1,2-DCA-d4)		110	%R		12/10/09	BD BD
Surrogate (95	%R		12/10/09	BD
Surrogate (4	I-BFB)		92	%R		12/10/09	BD
Sample ID:	MW-8				ISI Cometers		
Location:					LSL Sample ID:	0922114-()11
	11/30/09 13:10	Samulad Dev. IDI	т				
-		Sampled By: JRE	1				
Sample Matrix:							
Analytical Method	t				Prep	Analysis	Analyst
Analyte			Result	Units	Date	Date & Time	Initials
U EPA 8260B Vo	latiles (Partial List)						
1,1,1-Trichlo	roethane		<1	ug/l		12/10/09	-
1,1-Dichloro	ethene		<1	ug/l		12/10/09	BD
1,2-Dichloro	ethene, Total		<1	ug/l		12/10/09	BD
Trichloroeth	ene		2.0	ug/l		12/10/09	BD
Tetrachloroe	thene		<1	ug/l		12/10/09	BD
Vinyl chlorid	e		<1	ug/l		12/10/09	BD
Surrogate (1,	2-DCA-d4)		111	%R		12/10/09	BD
Surrogate (T	ol-d8)		95	%R		12/10/09	BD
Surrogate (4-	BFB)		92	%R		12/10/09	BD BD
ample ID: N	/IW-6						
ocation:					LSL Sample ID:	0922114-0	12
	1/20/00 12 12	C					
-	1/30/09 13:12	Sampled By: JRH					
ample Matrix: N							
nalytical Method					Prep	Analysis	Analyst
Analyte			Result	Units	Date	Date & Time	Initials
	atiles (Partial List)						
1,1,1-Trichlor			<1	ug/l		12/10/09	BD
1,1-Dichloroe			<1	ug/l		12/10/09	BD
1,2-Dichloroet			<1	ug/l		12/10/09	BD
Trichloroethe			4.9	ug/l		12/10/09	BD
Tetrachloroet			<1	ug/l		12/10/09	BD
12 FG			<1	ug/l		12/10/09	BD
Vinyl chloride	10 m m						
Surrogate (1,2	,		109	%R		12/10/09	BD
	l-d8)			%R %R		12/10/09 12/10/09	BD BD

Life Science Laboratories, Inc. Page 5 of 8 Date Printed: 12/15/09 Analysis performed at: (1) LSL Central, (2) LSL North, (3) LSL Finger Lakes, (4) LSL Southern Tier, (5) LSL MidLakes, (6) LSL Brittonfield

Buck Engineering, LLC Cortland, NY

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Sample ID:	MW-7				ICI C-	and ID		
Location:					LSL San	npie ID:	0922114	-013
Sampled:	11/30/09 13:40	Committee Direction	- ·					
Sample Matrix:		Sampled By: JRH						
Analytical Meth	od					Prep	Analysis	Analys
Analyte	7 1 11 / -		Result	t Units		Date	Date & Time	Initial
	/olatiles (Partial List)							
	lloroethane		<1	ug/l			12/10/09	BD
1,1-Dichlo			<1	ug/l			12/10/09	BE
	roethene, Total		<1	ug/l			12/10/09	BD
Trichloroe			2.4	ug/l			12/10/09	BD
Tetrachlor	· · · · · ·		<1	ug/l			12/10/09	BD
Vinyl chlor			1	ug/l			12/10/09	BD
	(1,2-DCA-d4)		109	%R			12/10/09	BD
Surrogate			96	%R			12/10/09	BD
Surrogate (4-BFB)			%R			12/10/09	BD
ample ID:	MW-11				LSL Sam	nlo ID.	0000111	
ocation:					LSL Sam	pie ID:	0922114-0)14
ampled:	11/30/09 13:45							
-		Sampled By: JRH						
ample Matrix:								
nalytical Metho	d					Prep	Analysis	Analyst
Analyte	1955-1964-1975-1976-1976-1970-1976-1976-1976-1976-1976-1976-1976-1976	ŀ	Result	Units		Date	Date & Time	Initials
EPA 8260B V	olatiles (Partial List)							mitials
1,1,1-Trichl	oroethane		<1	ug/l			10/10/00	
1,1-Dichloro	oethene		<1	ug/l			12/10/09	BD
1,2-Dichloro	ethene, Total		<1	ug/l			12/10/09	BD
Trichloroetl	iene		5.8	ug/l			12/10/09	BD
Tetrachloro	ethene		<1	ug/l			12/10/09	BD
Vinyl chlori	de		<1	ug/l			12/10/09 12/10/09	BD
Surrogate (1	,2-DCA-d4)		115	%R				BD
Surrogate (1	ol-d8)		96	%R			12/10/09	BD
Surrogate (4	-BFB)			%R			12/10/09	BD
manle ID.	MINA			/ 010			12/10/09	BD
	MW-9				LSL Samp	le ID:	0922114-0	15
ocation:								
	1/30/09 14:20	Sampled By: JRH						
mplea:								
-	NPW							
mpled: mple Matrix: 1 nalytical Method			- ·.			Ъ		
mple Matrix: 1		R	esult	Units		Prep	Analysis Doto 8 Ti-	Analyst
mple Matrix: 1 alytical Method Analyte		R	esult	Units		Prep Date	Analysis Date & Time	Analyst Initials
mple Matrix: 1 nalytical Method Analyte EPA 8260B Vo	l latiles (Partial List)	Ř					Date & Time	
mple Matrix: 1 alytical Method Analyte EPA 8260B Vo 1,1,1-Trichlo	l latiles (Partial List) roethane	R	<]	ug/l			Date & Time	
mple Matrix: 1 alytical Method Analyte EPA 8260B Vo 1,1,1-Trichlo 1,1-Dichlorod	l latiles (Partial List) roethane thene	R	<1 <1	ug/l ug/l			Date & Time 12/10/09 12/10/09	Initials
mple Matrix: 1 alytical Method Analyte EPA 8260B Vo 1,1,1-Trichlo 1,1-Dichloroc 1,2-Dichloroc	l latiles (Partial List) roethane thene thene, Total	R	<1 <1 <1	ug/l ug/l ug/l			Date & Time 12/10/09 12/10/09 12/10/09	Initials BD
mple Matrix: 1 alytical Method Analyte EPA 8260B Vo 1,1,1-Trichlo 1,1-Dichloroe 1,2-Dichloroe Trichloroethd	latiles (Partial List) roethane thene thene, Total ene	R	<1 <1 <1 <1	ug/l ug/l ug/l ug/l			Date & Time 12/10/09 12/10/09 12/10/09 12/10/09	Initials BD BD
mple Matrix: 1 nalytical Method Analyte EPA 8260B Vo 1,1,1-Trichlo 1,1-Dichloroe Trichloroethd Tetrachloroethd	l latiles (Partial List) roethane thene thene, Total chene thene	<u></u> <u>R</u>	<1 <1 <1 <1 <1 <1	ug/l ug/l ug/l ug/l ug/l			Date & Time 12/10/09 12/10/09 12/10/09	Initials BD BD BD
mple Matrix: 1 nalytical Method Analyte EPA 8260B Vo 1,1,1-Trichlo 1,1-Dichloroe Trichloroethd Tetrachloroet Vinyl chloridd	latiles (Partial List) roethane thene thene, Total ene thene	R	<1 <1 <1 <1 <1 <1 <1 <1	ug/l ug/l ug/l ug/l ug/l ug/l			Date & Time 12/10/09 12/10/09 12/10/09 12/10/09	Initials BD BD BD BD
mple Matrix: 1 nalytical Method Analyte EPA 8260B Vo 1,1,1-Trichlo 1,1-Dichloroe Trichloroeth Tetrachloroeth Vinyl chlorid Surrogate (1,2	latiles (Partial List) roethane thene thene, Total ene chene c 2-DCA-d4)	Ř	<1 <1 <1 <1 <1 <1 <1 <1 110	ug/l ug/l ug/l ug/l ug/l ug/l			Date & Time 12/10/09 12/10/09 12/10/09 12/10/09 12/10/09	Initials BD BD BD BD BD
mple Matrix: 1 nalytical Method Analyte EPA 8260B Vo 1,1,1-Trichlo 1,1-Dichloroe Trichloroethd Tetrachloroet Vinyl chlorid	latiles (Partial List) roethane thene thene, Total ene chene e 2-DCA-d4) ol-d8)	R	<1 <1 <1 <1 <1 <1 <1 110 95	ug/l ug/l ug/l ug/l ug/l ug/l			Date & Time 12/10/09 12/10/09 12/10/09 12/10/09 12/10/09 12/10/09	Initials BD BD BD BD BD BD

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 Date Printed:
 12/15/09

 Analysis performed at:
 (1) LSL Central, (2) LSL North, (3) LSL Finger Lakes, (4) LSL Southern Tier, (5) LSL MidLakes, (6) LSL Brittonfield

	BORATORY AN Buck Engineering, LLC	Cortland,			
Sample ID: MW-12D		Jornana,			
Location:			LSL Sample ID:	0922114	4-016
Sampled: 11/30/09 15:00	Sampled D., DIT				
Sample Matrix: NPW	Sampled By: JRH				
Analytical Method					
Analyte	_		Prep	Analysis	Analys
	Resul	t <u>Units</u>	<u>Date</u>	Date & Time	Initia
2111 0200D Volatiles (1 altial List)					
1,1,1-Trichloroethane 1,1-Dichloroethene	<1	0 -		12/10/09	B
1,2-Dichloroethene, Total	<]	Ų		12/10/09	BI
Trichloroethene	[>	0		12/10/09	BI
Tetrachloroethene	1.5	0		12/10/09	BI
Vinyl chloride	1> روا ه دار د به ده ده ده در از در در از از			12/10/09	BI
Surrogate (1,2-DCA-d4)	<1			12/10/09	BI
Surrogate (Tol-d8)	96			12/10/09	BI
Surrogate (4-BFB)				12/10/09	BL
Sample ID: MW-12S				12/10/09	BI
Location:			LSL Sample ID:	0922114-	017
	a				
	Sampled By: JRH				
Sample Matrix: NPW					
Analytical Method			Prep	Analysis	Analyst
Analyte	Result	Units	Date	Date & Time	Initials
D EPA 8260B Volatiles (Partial List)					
1,1,1-Trichloroethane	<1	ug/l		12/10/09	BD
1,1-Dichloroethene	<1	ug/l		12/10/09	BD
1,2-Dichloroethene, Total	<1	ug/l		12/10/09	BD
Trichloroethene Totas oblassed	12	ug/l		12/10/09	BD
Tetrachloroethene Vinyl oblasida	<1	ug/l		12/10/09	BD
Vinyl chloride	<1	ug/l		12/10/09	BD
Surrogate (1,2-DCA-d4)	107	%R		12/10/09	BD
Surrogate (Tol-d8) Surrogate (4-BFB)	96	%R		12/10/09	BD
	95	%R		12/10/09	, BD
ample ID: System Influent		Alternation of the second	LSL Sample ID:	0922114-0	18
ocation:			•	V) mailt"	10
ampled: 11/30/09 12:42	Sampled By: JRH				
mple Matrix: NPW					
nalytical Method		Mary a subscription of the	Duos		
Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst
EPA 8260B Volatiles (Partial List)				Pare & LIME	Initials
1,1,1-Trichloroethane	<1	ug/l		12/10/00	-
1,1-Dichloroethene	<1	ug/l		12/10/09	BD
1,2-Dichloroethene, Total	<1	ug/l		12/10/09	BD
Trichloroethene	3.2	ug/l		12/10/09 12/10/09	BD
Tetrachloroethene	<1	ug/l		12/10/09	BD
Vinyl chloride		ug/l		12/10/09	BD
Surrogate (1,2-DCA-d4)		%R		12/10/09	BD
Surrogate (Tol-d8)		%R		12/10/09	BD
				14/10/07	BD
Surrogate (4-BFB)	99	%R		12/10/09	BD

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	Buck Engineering, LLC	Cortland,	NY		
Sample ID: Tower Discharge			LSL Sample ID:	002211	4.010
Location:			Lot sample ID.	092211	4-019
Sampled: 11/30/09 13:50	Sampled By: JRH				
Sample Matrix: NPW	Sumpled by. JUI				
Analytical Method					
Analyte			Prep	Analysis	Analys
(1) EPA 8260B Volatiles (Partial List)	Resul	<u>t Units</u>	Date	Date & Time	Initia
1,1,1-Trichloroethane	•				
1,1-Dichloroethene	<			12/10/09	BI
1,2-Dichloroethene, Total	<]			12/10/09	BI
Trichloroethene	<]			12/10/09	BI
Tetrachloroethene	2.2	0		12/10/09	BI
Vinyl chloride	l> יין ניים ביידי באיני באינגרים ויידי			12/10/09	BI
Surrogate (1,2-DCA-d4)				12/10/09	BL
Surrogate (Tol-d8)	97			12/10/09	BL
Surrogate (4-BFB)				12/10/09	BL
Sample ID: Cascade Outfall				12/10/09	BD
Location:			LSL Sample ID:	0922114-	020
~					
	Sampled By: JRH				
Sample Matrix: NPW					
Analytical Method			Prep	Analysis	Analizat
Analyte	Result	Units	Date	Date & Time	Analyst Initials
D EPA 8260B Volatiles (Partial List)					Intrais
1,1,1-Trichloroethane	<1	ug/l		12/10/09	DD
1,1-Dichloroethene	<1	ug/l		12/10/09	BD BD
1,2-Dichloroethene, Total	<1	ug/l		12/10/09	BD BD
Trichloroethene	1	ug/l		12/10/09	BD
Tetrachloroethene Vinyl chloride	<1	ug/l		12/10/09	BD
Surrogate (1,2-DCA-d4)	<1	ug/l		12/10/09	BD
Surrogate (Tol-d8)	110	%R		12/10/09	BD
Surrogata (4 DED)	97	%R		12/10/09	BD
	······································	%R		12/10/09	BD
ample ID: Trip Blank			LSL Sample ID:	0922114-0	A 1
ocation:				0722114-0	21
ampled: 11/30/09 0:00	Sampled By:				
ample Matrix: TB					
nalytical Method				**************************************	
Analyte	Demili		Prep	Analysis	Analyst
EPA 8260B Volatiles (Partial List)	Result	Units	Date	Date & Time	Initials
1,1,1-Trichloroethane		15			
1,1-Dichloroethene	<	ug/l		12/10/09	BD
1,2-Dichloroethene, Total	<]	ug/l		12/10/09	BD
Trichloroethene	</td <td>ug/l</td> <td></td> <td>12/10/09</td> <td>BD</td>	ug/l		12/10/09	BD
Tetrachloroethene		ug/l		12/10/09	BD
Vinyl chloride		ug/l		12/10/09	BD
Surrogate (1,2-DCA-d4)		ug/l %R		12/10/09	BD
				12/10/09	BD
Surrogate (Tol-d8)	96	WAR .			
Surrogate (Tol-d8) Surrogate (4-BFB)		%R %R		12/10/09 12/10/09	BD BD

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SURROGATE RECOVERY CONTROL LIMITS FOR ORGANIC METHODS

Method	<u>Surrogate(s)</u>	Water <u>Limits, %R</u>	SHW <u>Limits, %R</u>		
EPA 504	ТСМХ	80-120			
EPA 508	DCB	70-130	NA		
EPA 515.4	DCAA		NA		
EPA 524.2	1,2-DCA-d4, 4-BFB	70-130	NA		
EPA 525.2	1,3-DM-2-NB, TPP, Per-d12	80-120	NA		
EPA 526	1,3-DM-2-NB, TPP	70-130	NA	·····	· · · · · · · · · · · · · · · · · · ·
EPA 528	2-CP-3,4,5,6-d4, 2,4,6-TBP	70-130	NA		
EPA 551.1	Decafluorobiphenyl	70-130	NA		
EPA 552.2	2,3-DBPA	80-120	NA		
	2,0 DBI A	70-130	NA		
EPA 601	12-DCA d4 Tal d0 4 DED				
EPA 602	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	NA		
EPA 608	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	NA		
EPA 624	TCMX, DCB	30-150	NA		
EPA 625, AE	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	NA		
EPA 625, AE	2-Fluorophenol	21-110	NA		
EPA 625, AE	Phenol-d5	10-110	NA		
	2,4,6-Tribromophenol	10-123	NA		
EPA 625, BN	Nitrobenzene-d5	35-114	NA		
EPA 625, BN	2-Fluorobiphenyl	43-116	NA		
EPA 625, BN	Terphenyl-d14	33-141	NA		
			1NA		
EPA 8010	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	70-130		
EPA 8020	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	70-130		an airtean an tha an tha an tha an tha
EPA 8021	1,2-DCA-d4, Tol-d8, 4-BFB	70-130			
EPA 8081	TCMX, DCB	30-150	70-130		
EPA 8082	DCB	30-150	30-150		
EPA 8151	DCAA	30-130	30-150		· · · ·
EPA 8260	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	30-120		
EPA 8270, AE	2-Fluorophenol	21-110	70-130		· · · ·
EPA 8270, AE	Phenol-d5		25-121		
EPA 8270, AE	2,4,6-Tribromophenol	10-110	24-113		
EPA 8270, BN	Nitrobenzene-d5	10-123	19-122		a subscription of the second
EPA 8270, BN	2-Fluorobiphenyl	35-114	23-120		
EPA 8270, BN	Terphenyl-d14	43-116	30-115		
		33-141	18-137		
DOH 310-13	Terphenyl-d14	10.11-			- 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999
DOH 310-14	Terphenyl-d14	40-110	40-110		
DOH 310-15	Terphenyl-d14	40-110	40-110		
DOH 310-34	4-BFB	40-110	40-110		
DOH 313-4	DCB	50-150	50-150		- · ·
8015M_GRO	4-BFB	NA	30-150		
8015M_DRO		50-150	50-150		
	Terphenyl-d14	50-150	50-150		
					· · · · · · · · · ·
Units Key:	ug/l = microgram per liter				

· · ·	e gran per nior
	ug/kg = microgram per kilogram
	mg/l = milligram per liter
	mg/kg = milligram per kilogram
	%R = Percent Recovery

		0922114 BuckEng		•					of Cu		F 400	(315) 44	Telefax #	acuse, NY 13057 5	ne # (315) 445-11(
Authorization: Sumple Sample Sample Sample Sample Type grab comp. Matrix Added Strength Containers Client's Project I.D.: Client's Bample Sample Sample Sample Type grab comp. Matrix Added Strength Containers Analyses Free Cl Containers Added % S&A W Analyses Free Cl Containers Analyses Containers Analyses Containers Muth' -10		• • • • • • • • • • • • • • • • • • • •		#:	oject #	LSL Pr	ו:	tact Perso	Con			(und	Phone #	nsideering LC	nt: <u>Buck</u> ess: 87 Ce		
L Sample Number Gllen't Sample Date Sample True Sample True Type True Cllen't Project LD: 20/ A/S M(M-5%) II/-30-07 % 2A V W HCL 2 40.01 TCC + (See not a be low) Free Cl mg/L) 20/ A/S M(M-5%) II/-30-07 % 2A V W HCL 2 40.01 TCC + (See not a be low) Img/L) 20/ A/S M(W-5%) 9/400 V A Img/L) Im		P.	5, C. W. F	l.D.: <	Site I.	Client's				8037	153-	607) "	Fax # (L,NY 13045	Contla.		
$\alpha \in I$ $M = 5^{\circ}$				ct I.D.:	Client's Project I.D.:			Decos	Sample Sample Type				Client's Sample				
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$\begin{array}{c c c c c c c c c c c c c c c c c c c $			Analyses	TCEIL				HCL	W				1-30-09				
$c4$ $MW - ID$ $7i406$ \checkmark		be low)	(seencte b	<u>, 155 + (</u>		1	1.				The second secon			A REAL PROPERTY AND ADDRESS OF THE OWNER OWNER OF THE OWNER OWN			
				1			+					the second s					
26 $M \omega = 10$ $10:324$ $10:324$ $10:359$				·		1	+							the second se	and the second s		
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$\begin{array}{c c c c c c c c c c c c c c c c c c c $					<u> </u>	 	++-				\checkmark						
0 $mw - L/lo$ $11:35 $ 1 1 <td></td> <td></td> <td></td> <td></td> <td> </td> <td>1</td> <td>+</td> <td></td> <td></td> <td></td> <td>1</td> <td></td> <td>-</td> <td>and the second second</td> <td></td>						1	+				1		-	and the second			
1 $M W - 8$ $12: N_p V$ $N W - 6$ 2 $M W - 6$ $1: N_p V$ $N W - 6$ 3 $M W - 6$ $1: N_p V$ $N W - 6$ 3 $M W - 11$ $1: M_p V$ $N W - 6$ 4 $M W - 11$ $1: M_p V$ $N W - 11$ 5 $M W - 9$ $2: 20 V$ $N W - 12.5$ 6 $M W - 12.5$ $3: M_p V$ $V W - 10$ 7 $M W - 12.5$ $3: 15p V$ $V W - 10$ 6 $M W - 12.5$ $3: 15p V$ $V W - 10$ 7 $M W - 12.5$ $M W - 10$ $M W - 10$ 9 $M W - 12.5$ $M W - 10$ $M W - 10$ 9 $M W - 12.5$ $M W - 10$ $M W - 10$ 9 $M W - 10$ $M W - 10$ $M W - 10$ 9 $M W - 10$ $M W - 10$ $M W - 10$ $M W - 10$ 9 $M W - 10$ 9 $M W - 10$ 9<					├		+				4						
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3 $mw - 0$ $1:12p \cdot V$ $mw - 1$ 4 $mw - 11$ $1:46p \cdot V$ $mw - 1$ 5 $mw - 9$ $2:2p \cdot V$ $mw - 12s$ 6 $mw - 12s$ $3:6p \cdot V$ $ww - 12s$ s and Hazard identifications: $uw - 12s$ $uw - 12s$ $uw - 12s$					\vdash	1					V		· 1		7		
$M \omega - 11$ $I:49$ V S $M \omega - 9$ $I:45p$ V G $M \omega - 12$ $I:45p$ V $M \omega - 12.5$ $I:45p$ V V S and Hazard identifications: G V V G G V V V S and Hazard identifications: G V V						1											
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