



BUCK

ENGINEERING, LLC

consulting environmental engineers

February 3, 2009

Mr. Thomas Conrad
SCWP, LLC
839 NYS Route 13
Cortland, NY 13045

Re: SCWP Remediation Outfall Monitoring –January 2009

Dear Tom:

Enclosed are the laboratory reports resulting from samples obtained from three locations (the tower influent, the tower discharge, and the outfall at the cascade) for the month of January 2009. Also enclosed are spreadsheets and graphs that display the data for these sites. For clarity, only the previous 12 months data are graphed. We are also including a table of selected groundwater depths for general reference.

The TCE results were:

System Influent-	6.2 ug/l
Tower Discharge-	3.5 ug/l
Cascade Outfall-	1.5 ug/l

All parameters meet operational guidelines established in Kevin Delaney's (NYSDEC) correspondence of May 10, 2001. Please let me know if there are any questions with the submittal.

Sincerely,

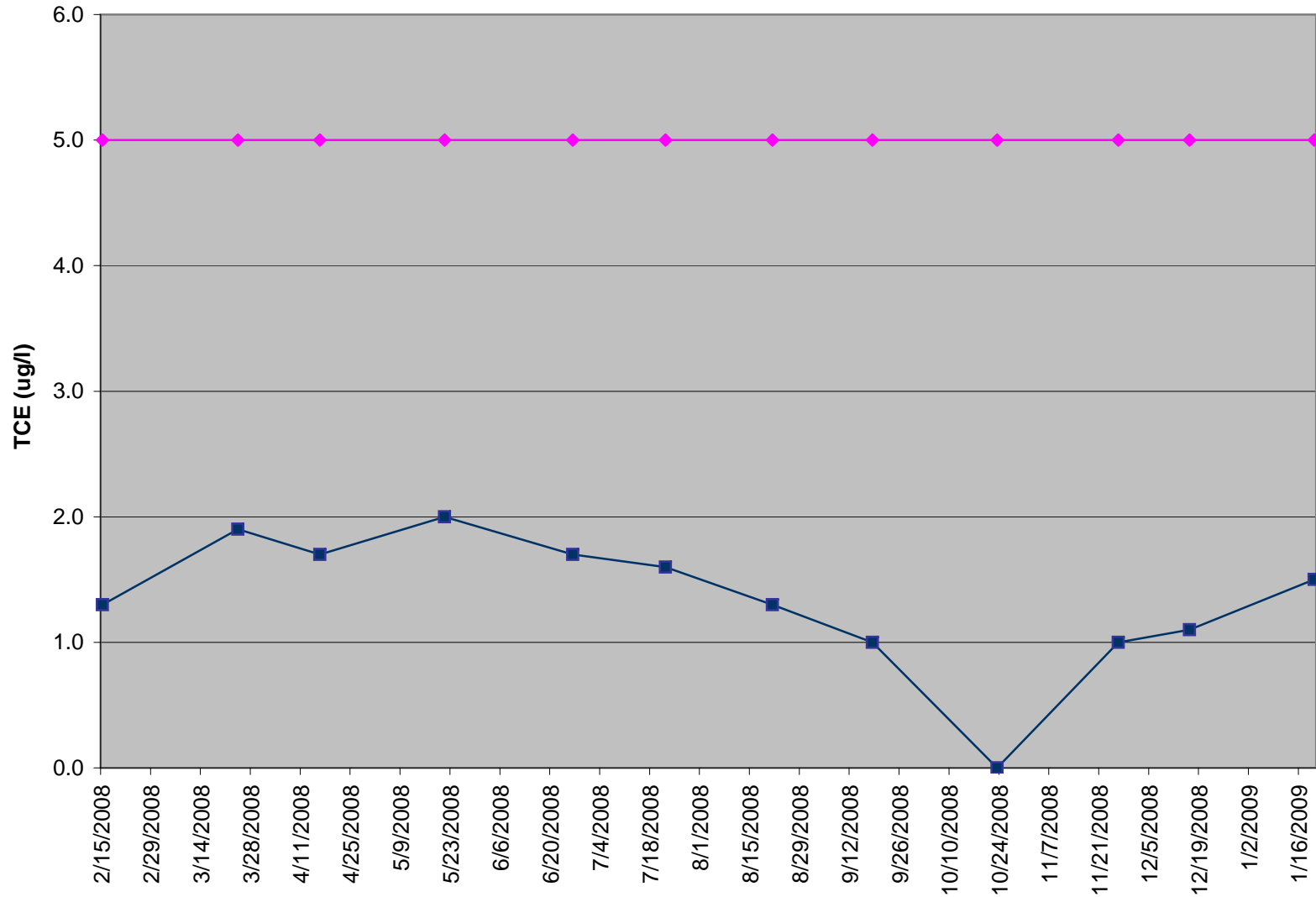
A handwritten signature in black ink, appearing to read 'John H. Buck', is written over a white background.

John H. Buck, P.E.
Principal Engineer

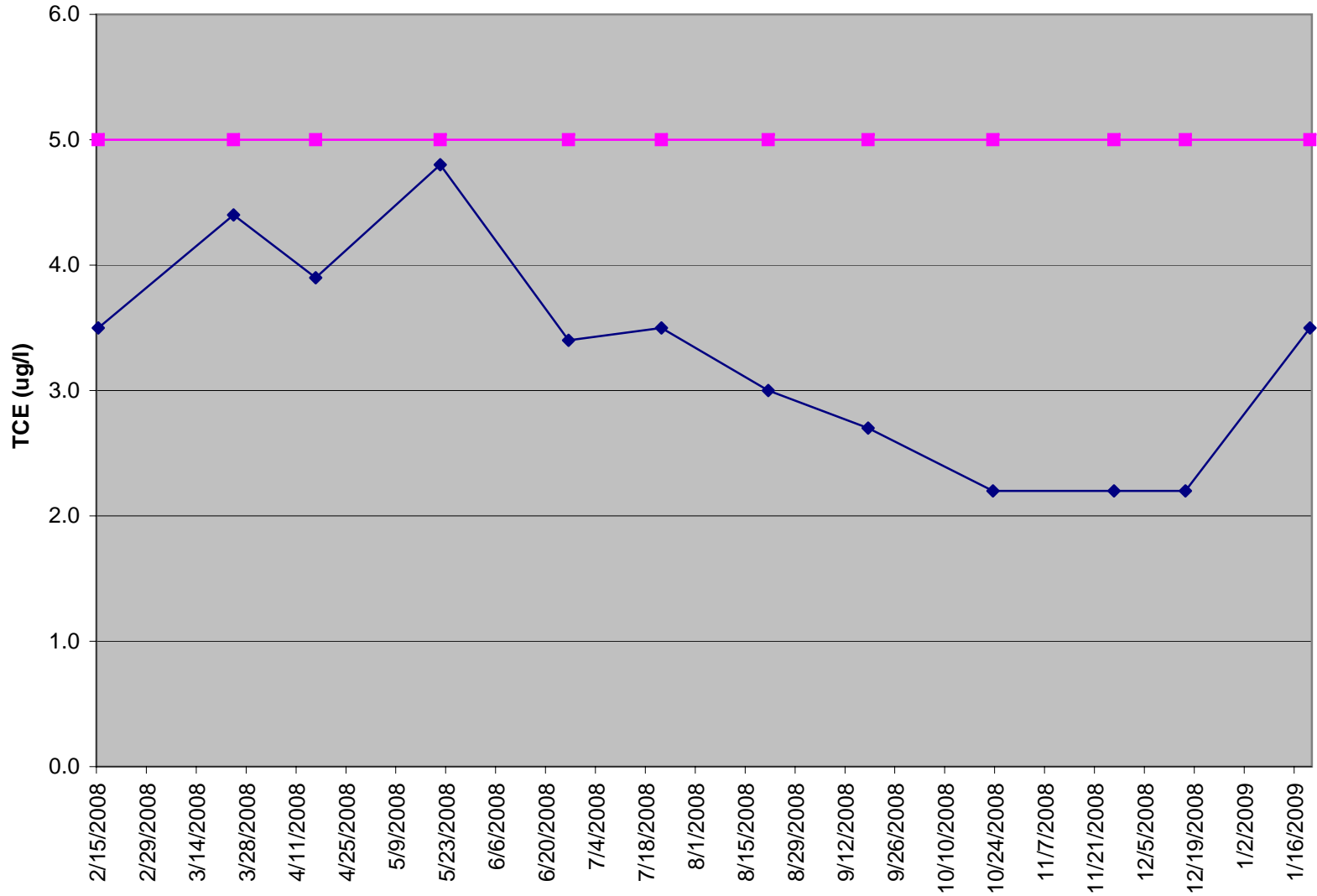
Electronic mail copies:

T. Festa (NYSDEC)
C. Cuiplyo (NYSDEC)
P. Reidy (CCS&WCD)
J. Helgren, P.E. (CCHD)
R. Shafer, Esq. (RSS)
K. Ochs (SCWP)
S. Kalette, Esq. (SCM)

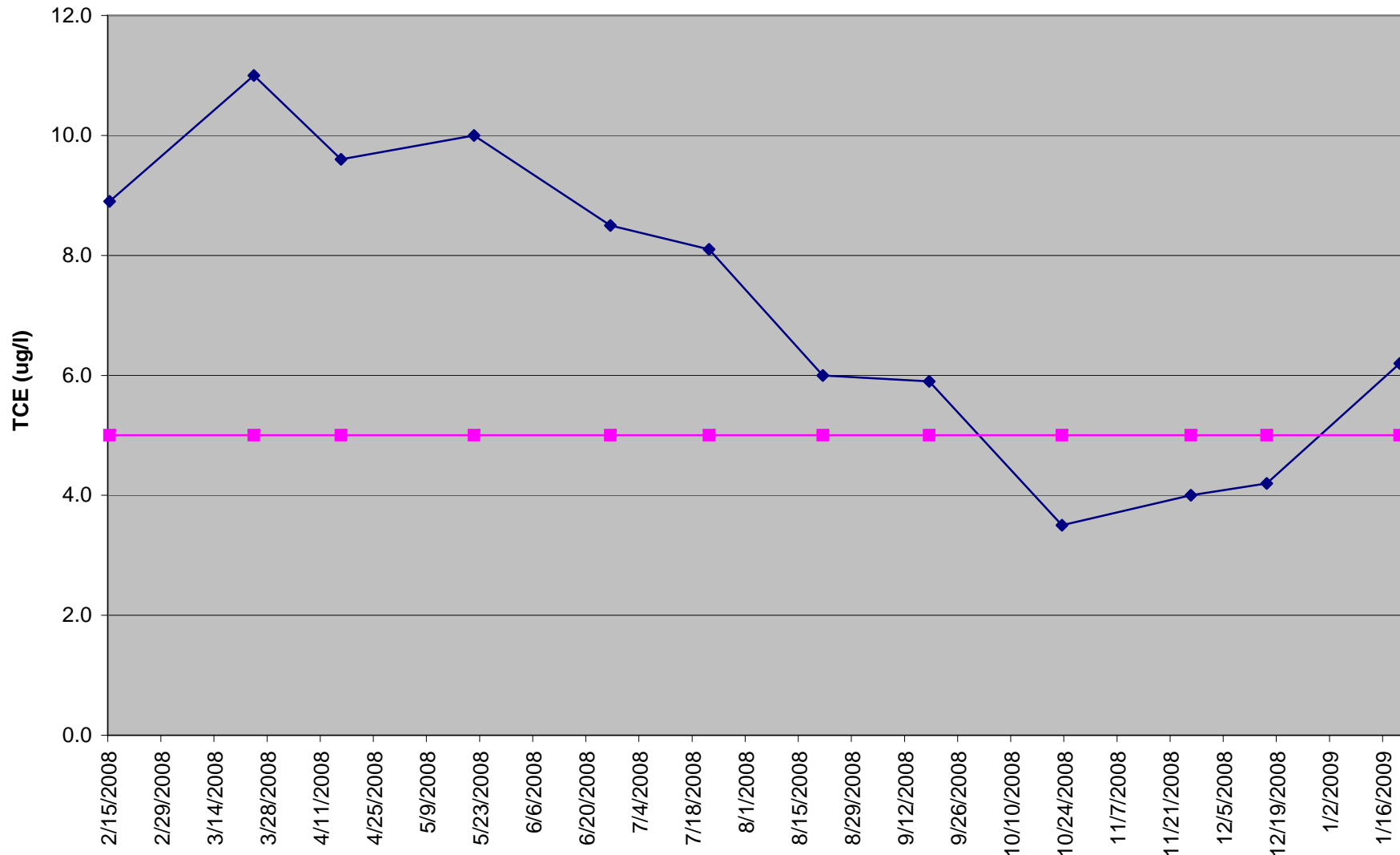
Cascade Outfall



Tower Discharge



Tower Influent



Buck Engineering, LLC
87 Central Avenue
Cortland, NY 13045

SCWP Monthly Groundwater Depths

	12/5/2005	11/20/2006	11/27/2007	2/15/2008	3/24/2008	4/16/2008	5/21/2008	6/26/2008	7/22/2008	8/21/2008	9/18/2008	10/23/2008	11/26/2008	12/16/2008	1/20/2009
piezometer(inside casing)	ns	1167.71	1163.51	1169.59	1170.79	1170.18	1166.90	1164.28	1163.77	1163.66	1161.67	1158.73	1159.67	1162.64	1166.04
recov well	ns	1166.07	1162.06	1168.35	1169.61	1169.02	1164.84	1162.15	1161.75	1161.77	1159.74	1156.75	1157.64	1160.54	1164.22
MW-2s	1164.86	1167.71	1163.49	ns	1170.73	1170.09	1166.84	1164.24	1163.76	1163.60	1161.62	1158.64	1159.65	1162.60	1166.00





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

Phone: (607) 753-8010

Laboratory Analysis Report

For

Buck Engineering, LLC

Client Project ID:
SCWP BE7011

LSL Project ID: **0900982**

Receive Date/Time: 01/20/09 15:03

Project Received by: GS

Life Science Laboratories, Inc. warrants, to the best of its knowledge and belief, the accuracy of the analytical test results contained in this report, but makes no other warranty, expressed or implied, especially no warranties of merchantability or fitness for a particular purpose. By the Client's acceptance and/or use of this report, the Client agrees that LSL is hereby released from any and all liabilities, claims, damages or causes of action affecting or which may affect the Client as regards to the results contained in this report. The Client further agrees that the only remedy available to the Client in the event of proven non-conformity with the above warranty shall be for LSL to re-perform the analytical test(s) at no charge to the Client. The data contained in this report are for the exclusive use of the Client to whom it is addressed, and the release of these data to any other party, or the use of the name, trademark or service mark of Life Science Laboratories, Inc. especially for the use of advertising to the general public, is strictly prohibited without express prior written consent of Life Science Laboratories, Inc. This report may only be reproduced in its entirety. No partial duplication is allowed. The Chain of Custody document submitted with these samples is considered by LSL to be an appendix of this report and may contain specific information that pertains to the samples included in this report. The analytical result(s) in this report are only representative of the sample(s) submitted for analysis. LSL makes no claim of a sample's representativeness, or integrity, if sampling was not performed by LSL personnel.

Life Science Laboratories, Inc.

- | | | |
|---|----------------|-------------------------------------|
| (1) LSL Central Lab, East Syracuse, NY | (315) 445-1105 | NYS DOH ELAP #10248 PA DEP #68-2556 |
| (2) LSL North Lab, Waddington, NY | (315) 388-4476 | NYS DOH ELAP #10900 |
| (3) LSL Finger Lakes Lab, Wayland, NY | (585) 728-3320 | NYS DOH ELAP #11667 |
| (4) LSL Southern Tier Lab, Cuba, NY | (585) 968-2640 | NYS DOH ELAP #10760 |
| (5) LSL MidLakes Lab, Canandaigua, NY | (585) 396-0270 | NYS DOH ELAP #11369 |
| (6) LSL Brittonfield Lab, East Syracuse, NY | (315) 437-0200 | NYS DOH ELAP #10155 |

This report was reviewed by:

Debey Kempf, QA Date: 1/23/09
Life Science Laboratories, Inc.

A copy of this report was sent to:

-- LABORATORY ANALYSIS REPORT --

Buck Engineering, LLC Cortland, NY

Sample ID: System Influent LSL Sample ID: 0900982-001
Location:
Sampled: 01/20/09 9:20 Sampled By: JRH
Sample Matrix: NPW

Analytical Method	Prep Date	Analysis Date & Time	Analyst Initials
Analyte	Result	Units	
(1) EPA 8260B Volatiles (Partial List)			
1,1,1-Trichloroethane	<1	ug/l	BD
1,1-Dichloroethene	<1	ug/l	BD
1,2-Dichloroethene, Total	<1	ug/l	BD
Trichloroethene	6.2	ug/l	BD
Tetrachloroethene	<1	ug/l	BD
Vinyl chloride	<1	ug/l	BD
Surrogate (1,2-DCA-d4)	102	%R	BD
Surrogate (Tol-d8)	100	%R	BD
Surrogate (4-BFB)	94	%R	BD

Sample ID: Tower Discharge LSL Sample ID: 0900982-002
Location:
Sampled: 01/20/09 9:10 Sampled By: JRH
Sample Matrix: NPW

Analytical Method	Prep Date	Analysis Date & Time	Analyst Initials
Analyte	Result	Units	
(1) EPA 8260B Volatiles (Partial List)			
1,1,1-Trichloroethane	<1	ug/l	BD
1,1-Dichloroethene	<1	ug/l	BD
1,2-Dichloroethene, Total	<1	ug/l	BD
Trichloroethene	3.5	ug/l	BD
Tetrachloroethene	<1	ug/l	BD
Vinyl chloride	<1	ug/l	BD
Surrogate (1,2-DCA-d4)	105	%R	BD
Surrogate (Tol-d8)	101	%R	BD
Surrogate (4-BFB)	94	%R	BD

Sample ID: Cascade Outfall LSL Sample ID: 0900982-003
Location:
Sampled: 01/20/09 8:50 Sampled By: JRH
Sample Matrix: NPW

Analytical Method	Prep Date	Analysis Date & Time	Analyst Initials
Analyte	Result	Units	
(1) EPA 8260B Volatiles (Partial List)			
1,1,1-Trichloroethane	<1	ug/l	BD
1,1-Dichloroethene	<1	ug/l	BD
1,2-Dichloroethene, Total	<1	ug/l	BD
Trichloroethene	1.5	ug/l	BD
Tetrachloroethene	<1	ug/l	BD
Vinyl chloride	<1	ug/l	BD
Surrogate (1,2-DCA-d4)	103	%R	BD
Surrogate (Tol-d8)	101	%R	BD
Surrogate (4-BFB)	97	%R	BD

-- LABORATORY ANALYSIS REPORT --

Buck Engineering, LLC Cortland, NY

Sample ID: Trip Blank

LSL Sample ID: 0900982-004

Location:

Sampled: 01/20/09 0:00

Sampled By:

Sample Matrix: TB

Analytical Method

Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 8260B Volatiles (Partial List)					
1,1,1-Trichloroethane	<1	ug/l		1/21/09	BD
1,1-Dichloroethene	<1	ug/l		1/21/09	BD
1,2-Dichloroethene, Total	<1	ug/l		1/21/09	BD
Trichloroethene	<1	ug/l		1/21/09	BD
Tetrachloroethene	<1	ug/l		1/21/09	BD
Vinyl chloride	<1	ug/l		1/21/09	BD
Surrogate (1,2-DCA-d4)	104	%R		1/21/09	BD
Surrogate (Tol-d8)	102	%R		1/21/09	BD
Surrogate (4-BFB)	96	%R		1/21/09	BD



SURROGATE RECOVERY CONTROL LIMITS FOR ORGANIC METHODS

<u>Method</u>	<u>Surrogate(s)</u>	<u>Water Limits, %R</u>	<u>SHW Limits, %R</u>
EPA 504	TCMX	80-120	NA
EPA 508	DCB	70-130	NA
EPA 515.4	DCAA	70-130	NA
EPA 524.2	1,2-DCA-d4, 4-BFB	80-120	NA
EPA 525.2	1,3-DM-2-NB, TPP, Per-d12	70-130	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	80-120	NA
EPA 552.2	2,3-DBPA	70-130	NA
EPA 601	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	NA
EPA 602	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	NA
EPA 608	TCMX, DCB	30-150	NA
EPA 624	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
EPA 625, AE	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
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
EPA 8021	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	70-130
EPA 8081	TCMX, DCB	30-150	30-150
EPA 8082	DCB	30-150	30-150
EPA 8151	DCAA	30-130	30-120
EPA 8260	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	70-130
EPA 8270, AE	2-Fluorophenol	21-110	25-121
EPA 8270, AE	Phenol-d5	10-110	24-113
EPA 8270, AE	2,4,6-Tribromophenol	10-123	19-122
EPA 8270, BN	Nitrobenzene-d5	35-114	23-120
EPA 8270, BN	2-Fluorobiphenyl	43-116	30-115
EPA 8270, BN	Terphenyl-d14	33-141	18-137
DOH 310-13	Terphenyl-d14	40-110	40-110
DOH 310-14	Terphenyl-d14	40-110	40-110
DOH 310-15	Terphenyl-d14	40-110	40-110
DOH 310-34	4-BFB	50-150	50-150
DOH 313-4	DCB	NA	30-150
8015M_GRO	4-BFB	50-150	50-150
8015M_DRO	Terphenyl-d14	50-150	50-150

Units Key:	ug/l = microgram per liter
	ug/kg = microgram per kilogram
	mg/l = milligram per liter
	mg/kg = milligram per kilogram
	%R = Percent Recovery



Life Science Laboratories, Inc.

5854 Butternut Drive
East Syracuse, NY 13067

Chain of Custody Record

0900982
BuckEng

Phone # (315) 445-1105

Tel/fax # (315) 445-1301

Client: **Buck Engineering, LLC**

Phone # **607-753 8010**

Contact Person: **J. Burk**

LSL Project #:

Address: **208427**

Fax #

607-753 8057

STENTRAL AVE.

Client's Site I.D.: **SCWP**

CORTLAND, NY
13045-0427

Authorization:

Client's Project I.D.: **BE 7011**

LSL Sample Number	Client's Sample Identification	Sample Date	Sample Time	Type		Matrix	Preserv. Added	Containers # size/type	Analysis	Free Cl (mg/L)	Pres. Check
				grab comp.	comp.						
001 AB	SYSTEM IMPURENT	1-20-09	9:20A	✓		W	HCl	2	40mL	BE260 - see list below	
002 ↓	TOWER DISTANCE	1-20-09	9:10A	✓		W	HCl	↓	↓		
003 ↓	CASCADE DITCH	1-20-09	8:52	✓		W	HCl	↓	↓		
004 AB	Top Blend										

Notes and Hazard Identifications:

REPORTING LIMIT = 1.0 ug/L

Analyte List:

- Trichloroethene, Tetrachloroethene,
- 1,1-Dichloroethene, 1,2-Dichloroethene,
- 1,1,1 trichloroethane, Vinyl chloride

Custody Transfers

Sampled By: *John R. Hansen* Received By: *Bill Dondos* Date: *1-20-09*

Relinquished By: *John R. Hansen* Received By: *Bill Dondos* Time: *1:05*

Relinquished By: *Bill Dondos* Received for Lab By: *John R. Hansen*

Shipment Method: *8:30 AM*

Samples Received Intact: *Y* *N*