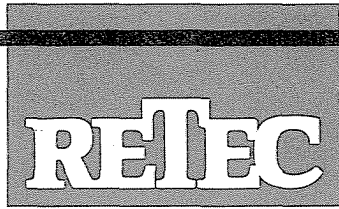


915141B



RECEIVED

OCT 10 2000

NYSDEC...
FOI...
REL UNREL

Final Engineering Report Appendices

Scajaquada Creek Sediment Remediation Buffalo, New York NYSDEC Site # 91514B

Appendix A:	Project Timeline	State Department of Environmental Conservation
Appendix B:	Summary of Solid Waste Analytical Results	
Appendix C:	Log of Offsite Shipments	
Appendix D:	As-Built Drawings	See NYS DEC Letter
Appendix E:	Tabulated Survey Results	dated December 4, 2001
<input checked="" type="checkbox"/> Approved <input type="checkbox"/> Approved As Noted <input type="checkbox"/> Resubmit With Revisions <input type="checkbox"/> Disapproved		
Prepared by:	THERMORETEC CONSULTING CORPORATION <i>Almeida</i> Designated Representative	
ThermoRetec Consulting Corporation 1001 West Seneca Street, Suite 204 Ithaca, New York 14850-3342		

ThermoRetec Project No.: 3-2111-600

Prepared for:

National Fuel Gas Distribution Corporation
10 Lafayette Square
Buffalo, New York 14203

August 30, 2000



Appendix A
Project Timeline

NYSDEC Site # 91514B
August 30, 2000

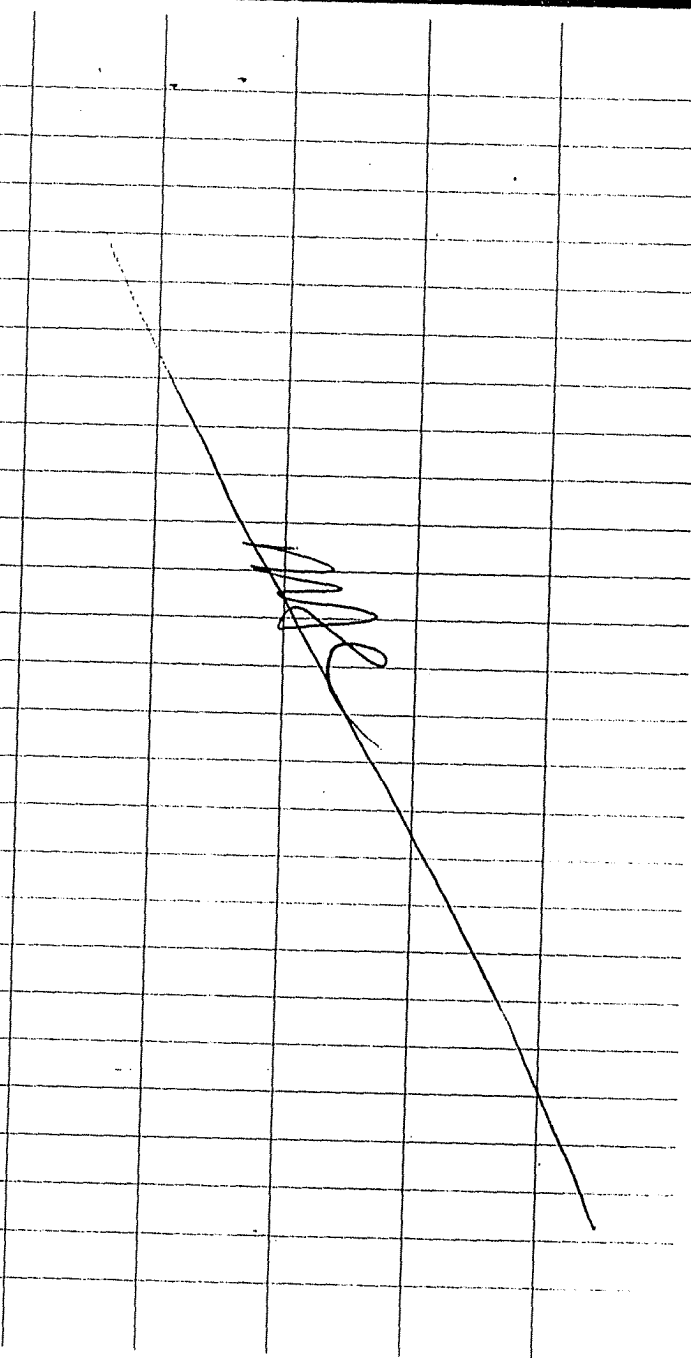
APPENDIX A - PROJECT TIMELINE

	July '98	Aug. '98	Sept. '98	Oct. '98	Nov. '98	Dec. '98	Jan. '99	Feb. '99	Mar. '99	Apr. '99	May '99	June '99
Mobilization	█											
Erosion Controls	█											
Roads	█											
Site Services		█	█	█	█	█	█	█	█	█	█	
Clearing	█											
Surveying		█	█	█	█	█	█	█			█	
H&S	█	█	█	█	█	█	█	█	█	█	█	
Dewatering		█	█	█	█	█	█	█				
Dredging		█	█	█	█	█	█	█				
Sheet Piling					█			█		█		
Capping		█	█	█	█	█	█	█				
Stockpiling		█	█	█	█	█	█	█				
Stabilization		█	█	█	█	█	█	█				
Offsite Shipment		█	█	█	█	█	█	█	█	█	█	
Water Treatment		█	█	█	█	█	█	█				
Install South DNAPL Well											█	
Site Restoration										█	█	
Demobilization									█	█	█	█

Appendix B

Summary of Solid Waste Analytical Results

**NYSDEC Site # 91514B
August 30, 2000**



11-17-98

Another daily grab of stockpiled soil was taken today.

MJE

11-18-98

Took daily grab of stockpiled soil and combined it with samples taken on 11-16 & 11-17 to form NFS-17. Also, an aqueous sample of treated water was obtained from the end of the discharge hose into the city sewer and labeled NFW-08.

11-18-98 MJE

A 5-point composite sample of the cap south of the RR bridge (P-8) and a 5-point composite of the cap north of the RR bridge (P-9) was taken. Cont on next pg.

MJE



883-6200
FAX: 883-2766

625-8338
TOLL FREE: 800-924-1019

LEAD SUPPLY INC
1415 NIAGARA STREET
BUFFALO NEW YORK 14213

SAMPLES

11/18

P-8	①	6+55	W. TOE
	②	7+05	E. TOE
	③	8+05	10' EAST. OF W. TOE
	④	8+60	S' EAST OF W. TOE
	⑤	9+30	W. TOE
P-9	⑥	11+75	CENTER
	⑦	12+50	8' EAST OF W. TOE
	⑧	13+30	EAST TOE
	⑨	14+60	10' WEST OF EAST TOE
	⑩	15+60	EAST TOE

Celebrating Our 50th Year

BIL-JAX SCAFFOLDS
CONTRACTOR & INDUSTRIAL EQUIPMENT AND SUPPLIES

11-18-98

Cont. from last page.
The station locations for
sample P-8 are 6+55, 7+05,
8+05, 8+60, 9+30, and
those for P-9 are 11+75,
12+50, 13+30, 14+60, 15+60.

WAC

11-19-98

Took daily grab of stock-
piled soil, stockpile # 18.

WAC

A daily grab of excavated soil
was taken today, stockpile # 18.

WAC

11-23-98

A daily grab of stockpile #
18 taken & combined with
samples taken 11/19 + 11/20 to form
composite sample NFS-18.

WAC

11-24-98

A daily grab of soil was taken today from stockpile # 19.

Also taken were composite samples from station 6+00, 7+00, & 8+00 for total PAH to verify no contaminants have migrated from the excavation, sample #15 9-10, 11, & 12, respectively.

MJC

11-25-98

A daily grab of stockpiled soil was taken today.

MJC

11-27-98

A daily grab of stockpiled soil was taken today.

MJC

11-28-98

A daily grab of stockpiled soil was taken and composited w/ others from 11/24, 25, & 28 to form NFS-19. Also taken was

cont. on next pg.



Galson Laboratories

6601 Kirkville Road East
 E. Syracuse, New York 13057
 315 437-7252 • 888-577-5227

Company Name

RETCL

Project Name / Number

Sci. CRGEX

Turn-Around Time

- Standard Service
- * Rush Service

Date requested by: ASAP

Ph # (607) 277-5716

Fax # (607) 277-9057

Page 1 of 1

PARAMETERS FOR ANALYSIS

TCLP	VOA's	Semi VOA's	Pesticide/Herbicide	PCRA Metals	Residue CN	Reactive Sulfide	TST PAH	PCB's
x	x	x	x	x	x	x	x	x

Send Report to: Mark H John Finn
RETCL
1001 W. Seneca St
Ithaca NY 14850

Send Invoice to: SAM L
 P.O. # _____

SAMPLE ID	Date	Time	TYPE			Chain of Custody Record			Laboratory	ID	Number
			Comp.	Grab	Aqueous	Soil	Other				
Stock Pile (8/17)	8/17/98	13:00	x			x					
Remediation Technologies, In L44998-1 08/18/98 Leachate STOCK PILE											

REMARKS: _____

Total Containers - _____

SAMPLER'S NAME: _____ SIGNATURE: David Yodikarlis

NAME: <u>David Yodikarlis</u> DATE: <u>8/17/98</u> SIGNATURE: <u>[Signature]</u> TIME: <u>13:00</u>		NAME: <u>Fedex</u> DATE: _____ SIGNATURE: <u>[Signature]</u> TIME: _____		VOC Pres	U	P	AU	NA
NAME: _____ DATE: _____ SIGNATURE: _____ TIME: _____		Received For Laboratory By: _____ DATE: <u>8-19-98</u> (Signature) <u>[Signature]</u> TIME: <u>1000</u>		Custody Seal Intact?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N.A.	
NAME: _____ DATE: _____ SIGNATURE: _____ TIME: _____		Received For Laboratory By: _____ DATE: _____ (Signature) _____ TIME: _____		Shipment Complete?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
				Temp <u>9</u> °C	TS	TB	TM	<u>TC</u>
				Airbill #				

VOLATILE ANALYTICAL REPORT



**Galson
Laboratories**

Client : Remediation Technologies, Inc.
 Account # : 12013
 Site : SCAJAQUADA CREEK

Date Received : 18-AUG-98
 Date Sampled : 17-AUG-98

Matrix : Leachate
 Method : SW846/1311/8260-TCLP
 Units : UG/L

Galson ID: L44998-1 QCC082198-1
 Client ID: STOCK PILE VBLK1

Vinyl Chloride	<100	<10
1,1-Dichloroethene	<50	<5
Chloroform	<50	<5
1,2-Dichloroethane	<50	<5
2-Butanone	140	<10
Carbon Tetrachloride	<50	<5
Trichloroethene	<50	<5
Benzene	<50	<5
Tetrachloroethene	<50	<5
Chlorobenzene	<50	<5

Dilution Factor 10 1
 Analysis Date 08/21/98 08/21/98

Approved by : PJT
 Date : 25-AUG-98
 QC by : *EJ*
 Date : *8/25/98*
 NYS DOH # : 11626
 Footnotes:



VOLATILE ANALYTICAL REPORT



Galson
Laboratories

Client : Remediation Technologies, Inc.
Account # : 12013
Site : SCAJAQUADA CREEK

Date Received : 18-AUG-98
Date Sampled : 17-AUG-98

Matrix : Leachate
Method : SW846/1311/8260-TCLP
Units : UG/L

Galson ID: L44998-1 QCC082198-1
Client ID: STOCK PILE VBLK1

Benzene	<50	<5
Dilution Factor	10	1
Analysis Date	08/21/98	08/21/98

Approved by : PJT
Date : 25-AUG-98
QC by : *EM*
Date : *8/25/98*
NYS DOH # : 11626
Footnotes:



2
LEACHATE SEMIVOLATILE SURROGATE RECOVERY

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 3

SAS No.:

SDG No.: L44998

SAMPLE NO.	S1 (2FP) #	S2 (PHL) #	S3 (NBZ) #	S4 (FBP) #	S5 (TBP) #	S6 (TPH) #	S7 (2CP) #	S8 (DCB) #	TOT OUT
SBLK5713	90	95 *	86	74	97	87	87	55	1
SBLK5713TP	91	96 *	92	83	101	93	89	66	1
STOCK PILE	88	93	88	82	104	92	86	60	0

- S1 (2FP) = 2-Fluorophenol
 - S2 (PHL) = Phenol-d6
 - S3 (NBZ) = Nitrobenzene-d5
 - S4 (FBP) = 2-Fluorobiphenyl
 - S5 (TBP) = 2,4,6-Tribromophenol
 - S6 (TPH) = Terphenyl-d14
 - S7 (2CP) = 2-Chlorophenol-d4
 - S8 (DCB) = 1,2-Dichlorobenzene-d4
- QC LIMITS
(21-100)
(10- 94)
(35-114)
(43-116)
(10-123)
(33-141)
(25-125) (advisory)
(25-125) (advisory)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

SEMIVOLATILE ANALYTICAL REPORT



Galson
Laboratories

Client : Remediation Technologies, Inc.
Account # : 12013
Site : SCAJAQUADA CREEK

Date Received : 18-AUG-98
Date Sampled : 17-AUG-98
Date Extracted: 19-AUG-98
Matrix : Soil
Method : SW846/3550/8270
Units : UG/KG

Galson ID: L44998-3 Q-5707
Client ID: STOCK FILE SBLK5707

Naphthalene	<2200	<330
Acenaphthylene	<2200	<330
Acenaphthene	1600 J	<330
Fluorene	1600 J	<330
Phenanthrene	7200	<330
Anthracene	2000 J	<330
Fluoranthene	6200	<330
Pyrene	10000	<330
Benzo(a)anthracene	3600	<330
Chrysene	3800	<330
Benzo(b)fluoranthene	1900 J	<330
Benzo(k)fluoranthene	1800 J	<330
Benzo(a)pyrene	3000	<330
Indeno(1,2,3-cd)pyrene	<2200	<330
Dibenzo(a,h)anthracene	<2200	<330
Benzo(g,h,i)perylene	<2200	<330
Percent Moisture (%)	25	NA
Dilution Factor	5	1
Analysis Date	08/24/98	08/20/98

Approved by : mDB
Date : 27-AUG-98
QC by : *gls*
Date : *8-27-98*
NYS DOH # : 11626
Footnotes:

: Results are reported on a dry weight basis.



PESTICIDE ANALYTICAL REPORT



Client : Remediation Technologies, Inc.
 Account # : 12013
 Site : SCAJAQUADA CREEK

Date Received : 18-AUG-98
 Date Sampled : 17-AUG-98
 Date Extracted: 20-AUG-98
 Matrix : Soil
 Method : SW846 8082
 Units : ug/Kg

Galson ID: L44998-3 Q-5708
 Client ID: STOCK PILE PBLK 5708

Aroclor-1016	<110	<17
Aroclor-1221	<110	<17
Aroclor-1232	<110	<17
Aroclor-1242	<110	<17
Aroclor-1248	<110	<17
Aroclor-1254	320	<17
Aroclor-1260	210	<17
Percent Moisture (%)	25	NA
Analysis Date	08/24/98	08/24/98
Dilution Factor	5	1
Surrogate Recovery	84 %	111 %
Control Limits (48-132)		

Approved by : Oommen Kappil
 Date : 25-AUG-98
 QC by : *EM*
 Date : *8/25/98*
 NYS DOH # : 11626
 Footnotes:

Results are reported on a dry weight basis.

Printed : 08/25/98 11:55

Report Reference # : 108142



PESTICIDE ANALYTICAL REPORT



Client : Remediation Technologies, Inc.
 Account # : 12013
 Site : SCAJAQUADA CREEK

Date Received : 18-AUG-98
 Date Sampled : 17-AUG-98
 Date Extracted: 22-AUG-98
 Matrix : Leachate
 Method : TCLP 8081
 Units : ug/L

Galson ID:	L44998-1	Q-5714	Q-5714TP
Client ID:	STOCK PILE	PBLK 5714	TPBLK 5714

gamma-BHC (Lindane)	<0.25	<0.25	<0.25
Heptachlor	<0.25	<0.25	<0.25
Heptachlor epoxide	<0.25	<0.25	<0.25
Endrin	<0.5	<0.5	<0.5
Methoxychlor	<2.5	<2.5	<2.5
Chlordane	<2.5	<2.5	<2.5
Toxaphene	<5	<5	<5
Analysis Date	08/24/98	08/24/98	08/24/98
Dilution Factor	1	1	1
Surrogate Recovery	77 %	75 %	91 %
Control Limits (60-130)			

Approved by : Oommen Kappil
 Date : 25-AUG-98
 QC by : *EK*
 Date : *8/25/98*
 NYS DOH # : 11626
 Footnotes:

Printed : 08/25/98 10:37

Report Reference # : 108141



HERBICIDE ANALYTICAL REPORT



Client : Remediation Technologies, Inc.
 Account # : 12013
 Site : SCAJAQUADA CREEK

Date Received : 18-AUG-98
 Date Sampled : 17-AUG-98
 Date Extracted: 24-AUG-98
 Matrix : Leachate
 Method : TCLP 8151
 Units : ug/L

Galson ID:	L44998-1	Q-5715	Q-5715TP
Client ID:	STOCK PILE	PBLK 5715	TPBLK 5715

2,4-D	<100	<100	<100
2,4,5-TP (SILVEX)	<10	<10	<10
Analysis Date	08/25/98	08/25/98	08/25/98
Dilution Factor	1	1	1
Surrogate Recovery	86 %	118 %	82 %
Control Limits (31-130)			

Approved by : Oommen Kappil
 Date : 25-AUG-98
 QC by : *EK*
 Date : *8/25/98*
 NYS DOH # : 11626
 Footnotes:

Printed : 08/25/98 14:09

Report Reference # : 108186



METALS ANALYTICAL REPORT



Client : Remediation Technologies, Inc.
 Account # : 12013
 Site : SCAJAQUADA CREEK

Date Received : 18-AUG-98
 Date Sampled : 17-AUG-98

Matrix : Leachate
 Method : SW846 6010B/7470A

Galson ID: L44998-1 QM980825-1
 Client ID: STOCK PILE TCLP Blank
 Units

	Units	L44998-1 STOCK PILE	QM980825-1 TCLP Blank
Arsenic TCLP	mg/l	<0.01	<0.01
Barium TCLP	mg/l	<1	<1
Cadmium TCLP	mg/l	<0.005	<0.005
Chromium TCLP	mg/l	<0.01	<0.01
Lead TCLP	mg/l	0.078	<0.02
Mercury TCLP	mg/l	<0.0003	<0.0003
Selenium TCLP	mg/l	<0.02	<0.02
Silver TCLP	mg/l	<0.01	<0.01

Approved by : Lisa Kovach
 Date : 25-AUG-98
 QC by : *ELM*
 Date : 8/25/98
 NYS DOH # : 11626
 Footnotes:



INORGANIC ANALYTICAL REPORT



Client : Remediation Technologies, Inc.
 Account # : 12013
 Site : SCAJAQUADA CREEK

Date Received : 18-AUG-98 Matrix : Soil
 Date Sampled : 17-AUG-98

Galson ID: L44998-1
 Client ID: STOCK PILE

	Method	Units	
Reactive Cyanide	SW846	mg/kg	<100
Reactive Sulfide	SW846	mg/kg	<100

Approved by : Mary Withrow
 Date : 25-AUG-98
 QC by : *[Signature]*
 Date : 8/25/98
 NYS DOH # : 11626

Footnotes:

* The sample does not exceed the USEPA action levels of 250 mg HCN/kg waste and/or 500 mg H₂S/kg waste as stated in SW846; therefore it is not reactive.



SEMIVOLATILE ANALYTICAL REPORT



**Galson
Laboratories**

Client : Remediation Technologies, Inc.
 Account # : 12013
 Site : SCAJAQUADA CREEK

Date Received : 18-AUG-98 Matrix : Leachate
 Date Sampled : 17-AUG-98 Method : SW846/1311/3510/8270-TCLP
 Date Extracted : 21-AUG-98 Units : UG/L

Galson ID: Client ID:	*L44998-1 STOCK PILE	Q-5713 SBLK5713	*Q-5713TP SBLK5713TP
Pyridine	<100	<10	<100
1,4-Dichlorobenzene	<100	<10	<100
2-Methylphenol	<100	<10	<100
3 & 4-Methylphenol	<200	<20	<200
Hexachloroethane	<100	<10	<100
Nitrobenzene	<100	<10	<100
Hexachlorobutadiene	<100	<10	<100
2,4,6-Trichlorophenol	<100	<10	<100
2,4,5-Trichlorophenol	<100	<10	<100
2,4-Dinitrotoluene	<100	<10	<100
Hexachlorobenzene	<100	<10	<100
Pentachlorophenol	<250	<25	<250
Dilution Factor	1	1	1
Analysis Date	08/26/98	08/26/98	08/26/98

Approved by : mDB
 Date : 27-AUG-98
 QC by : *MS*
 Date : *8-27-98*
 NYS DOH # : 11626
 Footnotes:

: TCLP extraction performed 08/20/98.
 : * TCLP extract diluted 10X prior to sep funnel extraction.





6601 Kirkville Road East
E. Syracuse, New York 13057
315 437-7252 • 888-577-5227

Company Name

RETEC

Project Name / Number
SCATAQUADA

3-2111-600

Turn-Around Time

- Standard Service

- * Rush Service

Date requested by: 8/28/98

Ph # (607) - 277-5716

Fax # (607) - 277-9057

Page 1 of 1

PARAMETERS FOR ANALYSIS

TCLP Benzene, PAHs

TOTAL PAH

PCBs

Send Report to: MARK HOFFERBERT
1001 W. SENECA ST.
ITHACA, NY 14850

Send Invoice to: MARK HOFFERBERT
1001 W. SENECA ST.
ITHACA, NY 14850

P.O. #

SAMPLE ID	Date	Time	TYPE					Chain of Custody Record			TCLP Benzene, PAHs	TOTAL PAH	PCBs							
			Comp.	Grab	Aqueous	Soil	Other	Laboratory	ID	Number										
NFGSC1260	8/21	1500	X																	
Remediation Technologies, In L45166-1																				
08/25/98 Leachate NFGSC1260																				

REMARKS: MATRIX APPROXIMATES SHOE LEATHER

Total Containers - 3

SAMPLER'S NAME: DM SHEARER		SIGNATURE: <i>DM Shearer</i>		VOC Pres U P AU <u>NA</u>	
SAMPLER'S NAME: DM SHEARER		SIGNATURE: <i>DM Shearer</i>		Custody Seal Intact? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N.A.	
NAME: DM SHEARER		NAME:		Shipment Complete? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
DATE: 8/24/98		DATE:		Temp 64 °C TS TB TM T6	
TIME: 1830		TIME:		Airbill # 607 DS 802926452019	
SIGNATURE:		Received For Laboratory By: (Signature)			
DATE:		Received For Laboratory By: (Signature)			
TIME:		DATE: 8-25-98			
NAME:		TIME: 1030			
SIGNATURE:					

VOLATILE ANALYTICAL REPORT



**Galson
Laboratories**

Client : Remediation Technologies, Inc.
 Account # : 12013
 Site : SCAJAQUADA CREEK

Date Received : 25-AUG-98
 Date Sampled : 21-AUG-98

Matrix : Leachate
 Method : SW846/1311/8260-TCLP
 Units : UG/L

Galson ID:	L45166-1	QCB082798-1	QCB082798-1TP
Client ID:	NFGSC1260	Method Blank	TCLP Blank
Vinyl Chloride	<100	<10	<100
1,1-Dichloroethene	<50	<5	<50
Chloroform	<50	<5	<50
1,2-Dichloroethane	<50	<5	<50
2-Butanone	<100	<10	<100
Carbon Tetrachloride	<50	<5	<50
Trichloroethene	<50	<5	<50
Benzene	<50	<5	<50
Tetrachloroethene	<50	<5	<50
Chlorobenzene	<50	<5	<50
Dilution Factor	10	1	10
Analysis Date	08/27/98	08/27/98	08/27/98

Approved by : pjt
 Date : 28-AUG-98
 QC by : *[Signature]*
 Date : 8/31/98
 NYS DOH # : 11626
 Footnotes:



LEACHATE VOLATILE SURROGATE RECOVERY

Client : Remediation Technologies, Inc.

Login # : L45166

SAMPLE NO. =====	SMC1 (TOL) # =====	SMC2 (BFB) # =====	SMC3 (DCE) # =====	OTHER =====	TOT OUT =====
Method Blank-QCB082798-1	93	90	78	BB0827	0
TCLP Blank	93	84	74	BB0827	0
NFGSC1260	96	87	110	BB0827	0

SMC1 (TOL) = Toluene-d8
SMC2 (BFB) = Bromofluorobenzene
SMC3 (DCE) = 1,2-Dichloroethane-d4

QC LIMITS
(54-114)
(50-128)
(54-123)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

PESTICIDE ANALYTICAL REPORT



Galson
Laboratories

Client : Remediation Technologies, Inc.
Account # : 12013
Site : SCAJAQUADA CREEK

Date Received : 25-AUG-98 Matrix : Bulk
Date Sampled : 21-AUG-98 Method : SW846 8082
Date Extracted: 26-AUG-98 Units : mg/Kg

Galson ID: L45166-1 Q-5731
Client ID: NFGSC1260 PBLK 5731

Aroclor-1016	<0.03	<0.02
Aroclor-1221	<0.03	<0.02
Aroclor-1232	<0.03	<0.02
Aroclor-1242	<0.03	<0.02
Aroclor-1248	<0.03	<0.02
Aroclor-1254	<0.03	<0.02
Aroclor-1260	<0.03	<0.02
Analysis Date	08/27/98	08/27/98
Dilution Factor	1	1
Surrogate Recovery	78 %	107 %
Control Limits (60-130)		

Approved by : Oommen Kappil
Date : 28-AUG-98
QC by : *[Signature]*
Date : 8/31/98
NYS DOH # : 11626
Footnotes:

Results are reported on a dry weight basis.
See enclosed sheet for percent moisture values.

Printed : 08/28/98 13:26

Report Reference # : 108516



SOIL MOISTURE ANALYSIS

LOGIN: L45166 QC BATCH: LAB GROUP: INORGANIC REF. #: 2423

Wet Weight by: JK
 Date : 27-AUG-98
 Time : 1700

Dry Weight by: PT
 Date : 27-AUG-98
 Time : 2310

GALSON ID	SAMPLE DESC	D C T	PAN WT (gm)	NET WET WT (gm)	GROSS DRY WT (gm)	NET DRY WT (gm)	% MOIST	% SOLID
L45166-1	NFGSC1260	N	1.00	7.61	4.81	3.81	49.9	50.1

$$\text{Percent Moisture} = \frac{(\text{net wet weight}) - (\text{net dry weight})}{\text{net wet weight}} \times 100$$

SEMIVOLATILE ANALYTICAL REPORT



Galson
Laboratories

Client : Remediation Technologies, Inc.
Account # : 12013
Site : SCAJAQUADA CREEK

Date Received : 25-AUG-98 Matrix : Bulk
Date Sampled : 21-AUG-98 Method : SW846/3550/8270
Date Extracted: 26-AUG-98 Units : UG/KG

Galson ID: *L45166-1 Q-5730
Client ID: NFGSC1260 SBLK5730

Naphthalene	<3300	<330
Acenaphthylene	<3300	<330
Acenaphthene	<3300	<330
Fluorene	<3300	<330
Phenanthrene	59000	<330
Anthracene	20000	<330
Fluoranthene	12000	<330
Pyrene	43000	<330
Benzo(a)anthracene	13000	<330
Chrysene	22000	<330
Benzo(b)fluoranthene	2500 J	<330
Benzo(k)fluoranthene	2500 J	<330
Benzo(a)pyrene	4900	<330
Indeno(1,2,3-cd)pyrene	<3300	<330
Dibenzo(a,h)anthracene	<3300	<330
Benzo(g,h,i)perylene	<3300	<330
Dilution Factor	1	1
Analysis Date	08/28/98	08/28/98

Approved by : mDB
Date : 31 AUG-98
QC by : *[Signature]*
Date : 8/31/98
NYS DOH # : 11626
Footnotes:

- : Results are reported on a dry weight basis.
- : * Moisture content = 49.9 %
- : * Sample diluted 5X during the extraction process.



2
BULK SEMIVOLATILE SURROGATE RECOVERY

Lab Name: GALSON LABORATORIES

Contract:

Lab Code: Case No.: 1

SAS No.:

SDG No.: L45166

SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 (DCB) #	S5 () #	S6 () #	S7 () #	S8 () #	TOT OUT
SBLK5730	70	73	77	84					0
NFGSC1260	278 *	99	64	80					1

S1 (NBZ) = Nitrobenzene-d5	QC LIMITS
S2 (FBP) = 2-Fluorobiphenyl	(23-120)
S3 (TPH) = Terphenyl-d14	(30-115)
S4 (DCB) = 1,2-Dichlorobenzene-d4	(18-137)
	(25-125)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out



6601 Kirkville Road East
E. Syracuse, New York 13057
315 437-7252 • 888-577-5227

Company Name

RETEC

Project Name / Number

3-2111-650

Turn-Around Time

- Standard Service
- * Rush Service

Date requested by: ASAP

Ph # (607) -277-5716

Fax # (607) -277-09057

Page 1 of 1

PARAMETERS FOR ANALYSIS

ICLP Benzene
TCIP PAH

Send Report to: Mark Hoffbert
RETEC
100 W. Seneca St
Jenaca NY 14850

Send Invoice to: Same

P.O. # _____

SAMPLE ID	Date	Time	TYPE				Chain of Custody Record			ICLP Benzene	TCIP PAH
			Comp.	Grab	Aqueous	Soil	Other	Laboratory	ID		
NFGSCSP #2	8/25/98	13:30	X		X					X	X
Remediation Technologies, In L45164-1 08/25/98 Bulk Prep NFGSCSP2											

REMARKS: * Sample Id is different on Bottle. NFGSCSP2
(But HAS same time as COC. TB)

Total Containers - _____

SAMPLER'S NAME:		SIGNATURE:		VOC Pres	U	P	AU	NA
SAMPLES RELINQUISHED BY:		SAMPLES RECEIVED BY:		Custody Seal Intact? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N.A.				
NAME: _____	DATE: <u>8/25/98</u>	NAME: _____	DATE: _____	Shipment Complete? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				
SIGNATURE: _____	TIME: <u>13:00</u>	SIGNATURE: _____	TIME: _____	Temp	<u>7</u> °C	TS	TB	TM <u>TB</u>
NAME: _____	DATE: _____	Received For Laboratory By:	DATE: _____	Airbill # _____				
SIGNATURE: _____	TIME: _____	(Signature)	TIME: _____					
NAME: _____	DATE: _____	Received For Laboratory By:	DATE: <u>8-25-98</u>					
SIGNATURE: _____	TIME: _____	(Signature)	TIME: <u>1030</u>					

VOLATILE ANALYTICAL REPORT



**Galson
Laboratories**

Client : Remediation Technologies, Inc.
 Account # : 12013
 Site : SCAJAQUADA CREEK

Date Received : 25-AUG-98
 Date Sampled : 24-AUG-98

Matrix : Leachate
 Method : SW846/1311/8260-TCLP
 Units : UG/L

Galson ID: Client ID:	L45164-1 NFGSCSP2	QCB082798-1 Method Blank	QCB082798-1TP TCLP Blank
Benzene	<50	<5	<50
Dilution Factor	10	1	10
Analysis Date	08/27/98	08/27/98	08/27/98

Approved by : PJT
 Date : 07-SEP-98
 QC by : *[Signature]*
 Date : 9/1/98
 NYS DOH # : 11626
 Footnotes:



LEACHATE VOLATILE SURROGATE RECOVERY

Client : Remediation Technologies, Inc.

Login # : L45164

SAMPLE NO.	SMC1 (DCE)#	SMC2 ()#	SMC3 ()#	OTHER	TOT OUT
=====	=====	=====	=====	=====	=====
Method Blank-QCB082798-1	78			BB0827	0
TCLP Blank	74			BB0827	0
NFGSCSP2	93			BB0827	0

SMC1 (DCE) = 1,2-Dichloroethane-d4

QC LIMITS (54-123)

- # Column to be used to flag recovery values
- * Values outside of QC limits
- D Surrogate diluted out

SEMIVOLATILE ANALYTICAL REPORT



**Galson
Laboratories**

Client : Remediation Technologies, Inc.
 Account # : 12013
 Site : SCAJAQUADA CREEK

Date Received : 25-AUG-98
 Date Sampled : 24-AUG-98
 Date Extracted : 28-AUG-98

Matrix : Leachate
 Method : SW846/1311/3520/8270-TCLP
 Units : UG/L

Galson ID:	*L45164-1	Q-5741	Q-5741TP
Client ID:	NFGSCSP2	SBLK5741	SBLK5745TP

Naphthalene	<100	<10	<10
Acenaphthylene	<100	<10	<10
Acenaphthene	12. J	<10	<10
Fluorene	<100	<10	<10
Phenanthrene	<100	<10	<10
Anthracene	<100	<10	<10
Fluoranthene	<100	<10	<10
Pyrene	<100	<10	<10
Benzo(a)anthracene	<100	<10	<10
Chrysene	<100	<10	<10
Benzo(b)fluoranthene	<100	<10	<10
Benzo(k)fluoranthene	<100	<10	<10
Benzo(a)pyrene	<100	<10	<10
Indeno(1,2,3-cd)pyrene	<100	<10	<10
Dibenzo(a,h)anthracene	<100	<10	<10
Benzo(g,h,i)perylene	<100	<10	<10
Dilution Factor	1	1	1
Analysis Date	08/31/98	08/31/98	09/01/98

Approved by : mDB
 Date : 01-SEP-98
 QC by : *[Signature]*
 Date : *[Signature]*
 NYS DOH # : 11626
 Footnotes:

- : TCLP extraction performed 8/26/98.
- : * TCLP extract diluted 10X prior to continuous extraction.



2
LEACHATE SEMIVOLATILE SURROGATE RECOVERY

Lab Name: GALSON LABORATORIES

Contract:

Lab Code: Case No.: 1

SAS No.:

SDG No.: L45164

SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 (DCB) #	S5 () #	S6 () #	S7 () #	S8 () #	TOT OUT
SBLK5741	77	77	86	85					0
NFGSCSP2	78	81	86	84					0
SBLK5745TP	75	70	116	76					0

S1 (NBZ) = Nitrobenzene-d5
 S2 (FBP) = 2-Fluorobiphenyl
 S3 (TPH) = Terphenyl-d14
 S4 (DCB) = 1,2-Dichlorobenzene-d4

QC LIMITS
 (35-114)
 (43-116)
 (33-141)
 (25-125)

Column to be used to flag recovery values
 * Values outside of QC limits
 D Surrogate diluted out



6601 Kirkville Road East
E. Syracuse, New York 13057
315 437-7252 • 888-577-5227

Company Name: RETEC
Project Name / Number: 3-2111-650

Service: Standard Service
 Rush Service
Date requested by: ASAP
Ph # (607) -277-5716
Fax # (607) -277-0907

PARAMETERS FOR ANALYSIS

Total PAH
 Total Benzene

Send Report to: Mark Hoffbert
RETEC
1001 W. Seneca St
Ithaca NY 14850

Send Invoice to: Same
P.O. # _____

SAMPLE ID	Date	Time	TYPE					Chain of Custody Record	
			Comp.	Grab	Aqueous	Soil	Other	Laboratory	ID - Number
NFGSCSP3	9/1/98	14:00	X			X			
Remediation Technologies, Inc L45360-1 09/02/98 Bulk Prep NFGSCSP3									

REMARKS: location 13749 T6 (7) Total Containers -

SAMPLER'S NAME:		SIGNATURE:		VOC Pres	U	P	AU	NA
SAMPLES RELINQUISHED BY:		SAMPLES RECEIVED BY:		Custody Seal Intact?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N.A.			
NAME: <u>Mark Hoffbert</u>	DATE: <u>9/1/98</u>	NAME:	DATE:	Shipment Complete?	<input type="checkbox"/> Yes <input type="checkbox"/> No			
SIGNATURE: <u>[Signature]</u>	TIME: <u>13:00</u>	SIGNATURE:	TIME:	Temp <u>7</u> °C	TS	TB	TM	
NAME:	DATE:	Received For Laboratory By:	DATE:	Airbill #				
SIGNATURE:	TIME:	(Signature)	TIME:					
NAME:	DATE:	Received For Laboratory By:	DATE: <u>9-2-98</u>					
SIGNATURE:	TIME:	(Signature)	TIME: <u>1530</u>					

VOLATILE ANALYTICAL REPORT




Client : Remediation Technologies, Inc.
Account # : 12013
Site : SCAJAQUADA CREEK

Date Received : 02-SEP-98
Date Sampled : 01-SEP-98

Matrix : Leachate
Method : SW846/1311/8260-TCLP
Units : UG/L

Galson ID: L45360-1 QCC090498-2
Client ID: NFGSCSP3 Method Blank

Benzene	<50	<5
Dilution Factor	10	1
Analysis Date	09/04/98	09/04/98

Approved by : PJT
Date : 10-SEP-98
QC by : 
Date : 9-10-98
NYS DOH # : 11626
Footnotes:



LEACHATE VOLATILE SURROGATE RECOVERY

Client : Remediation Technologies, Inc.

Login # : L45360

SAMPLE NO.	SMC1 (DCE)#	SMC2 ()#	SMC3 ()#	OTHER	TOT OUT
Method Blank-QCC090498-2	93			CB0904	0
NFGSCSP3	96			CB0904	0

QC LIMITS (54-123)

SMC1 (DCE) = 1,2-Dichloroethane-d4

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

SEMIVOLATILE ANALYTICAL REPORT


**Galson
Laboratories**

Client : Remediation Technologies, Inc.
 Account # : 12013
 Site : SCAJAQUADA CREEK

Date Received : 02-SEP-98
 Date Sampled : 01-SEP-98
 Date Extracted : 04-SEP-98

Matrix : Soil
 Method : SW846/3550/8270
 Units : UG/KG

Galson ID:	L45360-1	Q-5766
Client ID:	NFGSCSP3	SBLK5766
Naphthalene	1200 J	<330
Acenaphthylene	440 J	<330
Acenaphthene	6400	<330
Fluorene	3700	<330
Phenanthrene	14000	<330
Anthracene	4700	<330
Fluoranthene	7600	<330
Pyrene	13000	<330
Benzo(a)anthracene	3600	<330
Chrysene	3500	<330
Benzo(b)fluoranthene	1400 J	<330
Benzo(k)fluoranthene	2400 J	<330
Benzo(a)pyrene	3300	<330
Indeno(1,2,3-cd)pyrene	910 J	<330
Dibenzo(a,h)anthracene	<2700	<330
Benzo(g,h,i)perylene	1100 J	<330
Percent Moisture (%)	38	NA
Dilution Factor	5	1
Analysis Date	09/05/98	09/05/98

Approved by : mDB
 Date : 05-SEP-98
 QC by : *JS*
 Date : 9.9.98
 NYS DOH # : 11626
 Footnotes:

: Results are reported on a dry weight basis.



2D
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L45360

Level: (low/med) LOW

SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 (DCB) #	S5 () #	S6 () #	S7 () #	S8 () #	TOT OUT
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
SBLK5766	70	71	112	80					0
NFGSCSP3	68	74	86	73					0

QC LIMITS
S1 (NBZ) = Nitrobenzene-d5 (23-120)
S2 (FBP) = 2-Fluorobiphenyl (30-115)
S3 (TPH) = Terphenyl-d14 (18-137)
S4 (DCB) = 1,2-Dichlorobenzene-d4 (25-125)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out



Certificate of Analysis

CLIENT INFORMATION

Attention: Mike Charles
Client Name: Philip Service Corp.
Project: 19545/1955
Project Desc: Scajaquada Creek/NFG

Address: 495 Commerce Dr.
Suite 7
Amherst, NY
14228

Fax Number: 716-871-0413
Phone Number: 716 871 0478

LABORATORY INFORMATION

Contact: Ada Blythe, B.Sc., C.Chem.
Project: AN980884
Date Received: 98/08/19
Date Reported: 98/08/24

Submission No.: 8H0557
Sample No.: 040021

NOTES: "L" = not analyzed "<" = less than Method Detection Limit (MDL) "NA" = no data available
LOQ can be determined for all analytes by multiplying the appropriate MDL X 3.53
Solids data is based on dry weight except for nitra analysis.
Organic analyses are not corrected for extraction recovery standards except for isotope dilution methods, (i.e. CARB 429 PAH, all PCDD/F and DIB/DBF analyses)

Methods used by PASC are based upon those found in 'Standard Methods for the Examination of Water and Wastewater', Nineteenth Edition. Other methods are based on the principles of MISA or EPA methodologies. New York State: ELAP Identification Number 10756.

All work recorded herein has been done in accordance with normal professional standards using accepted testing methodologies, quality assurance and quality control procedures except where otherwise agreed to by the client and testing company in writing. Any and all use of these test results shall be limited to the actual cost of the pertinent analysis done. There is no other warranty expressed or implied. Your samples will be retained at PASC for a period of three weeks from receipt of data or as per contract.

COMMENTS:

"NR" = Not Required

Certified by:



8/23/98

PASC - Certificate of Analysis

Page 2 of 3

Client ID: NES-01
Lab No.: 040021 98
Date Sampled: 98/08/19

Component	MDL	Units
pH after 3.5 ml of 1N HCl addition		NR
pH after extraction (semi-vols/metals)		NR
pH after extraction (volatiles)		5.78
pH initial (5g + 96.5ml water)		NR
pH of extraction fluid (semi-vols/metals)		NR
pH of extraction fluid (volatiles)		4.96

Client: Philip Service Corp. Project: 19545/1955

8/23/98

PASC - Summary of Analysis Pre. Dates

Page MS-3 of 3

Batch Code:	0819MGA1
pH Readings	040021 98
Date analysed	98/08/20
Date Prepared	98/08/19

Client: Philip Service Corp. Project: 19545/1953



Certificate of Analysis

CLIENT INFORMATION

Attention: Mike Charles
Client Name: Philip Service Corp.
Project: 19545/1955
Project Desc: Scajaquada Creek/NFG

Address: 495 Commerce Dr.
Suite 7
Amherst, NY
14228

Fax Number: 716-871-0413
Phone Number: 716 871 0478

LABORATORY INFORMATION

Contact: Ada Blythe, B.Sc., C.Chem.
Project: AN980884
Date Received: 98/09/14
Date Reported: 98/09/17

Submission No.: 870482
Sample No.: 045321-045323

NOTES:

'-' = not analyzed '<' = less than Method Detection Limit (MDL) 'NA' = no data available
LOQ can be determined for all analytes by multiplying the appropriate MDL X 3.33
Solids data is based on dry weight except for biota analyses.
Organic analyses are not corrected for extraction recovery standards except for isotope dilution methods, (i.e. CARB 429 PAH, all PCDD/F and DDB/DBF analyses)

Methods used by PASC are based upon those found in 'Standard Methods for the Examination of Water and Wastewater', Nineteenth Edition. Other methods are based on the principles of MISA or EPA methodologies. New York State: ELAP Identification Number 10756.

All work recorded herein has been done in accordance with normal professional standards using accepted testing methodologies, quality assurance and quality control procedures except where otherwise agreed to by the client and testing company in writing. Any and all use of these test results shall be limited to the actual cost of the pertinent analysis done. There is no other warranty expressed or implied. Your samples will be retained at PASC for a period of three weeks from receipt of data or as per contract.

COMMENTS:

Certified by: 

Page 1

PASC - Certificate of Analysis

Client ID: Method NFS-04
Lab No.: Blank TCLP
Date Sampled: 045321 98 045323 98
98/09/14

Component	MDL	Units		
<i>TCLP Benzene via SW846 Method 8260</i>				
Benzene	0.5	ug/L	<100	210
Surrogate Recoveries		%		
d4-1,2-Dichloroethane			98	93
d8-Toluene			99	96
1,4-Bromofluorobenzene			98	93

**LETTER OF
 TRANSMITTAL**

Northeast Region

495 COMMERCE DRIVE, SUITE 7, AMHERST, NY 14228.

(716) 691-6088 TOLL FREE (888) 514-0309 FAX (716) 691-6365

To Don Sheaver
RETEC

Date 9-17-98

Project NFG

Project No. _____

- 1. () FOR REVIEW & COMMENT
- 2. () FOR APPROVAL
- 3. () AS REQUESTED
- 4. FOR YOUR USE
- 5. () _____

Enclosed () / Under separate cover ()

NO. OF COPIES	DESCRIPTION
1	Analytical results for Stockpile #4

REMARKS: Sample # NFS-04

COPIES FORWARDED TO:

FROM Mike Charles
 TITLE Proj. mgr.



Certificate of Analysis

CLIENT INFORMATION

Attention: Mike Charles
Client Name: Philip Service Corp.
Project: 19545/1955
Project Desc: Scajaquada Creek/NFG

Address: 495 Commerce Dr.
Suite 7
Amherst, NY
14228

Fax Number: 716-871-0413
Phone Number: 716 871 0478

LABORATORY INFORMATION

Contact: Ada Blythe, B.Sc., C.Chem.
Project: AN980884
Date Received: 98/09/23
Date Reported: 98/09/24

Submission No.: 810759
Sample No.: 046996-046998

NOTES:

'-' = not analysed '<' = less than Method Detection Limit (MDL) 'NA' = no data available
LOQ can be determined for all analytes by multiplying the appropriate MDL X 3.33
Solids data is based on dry weight except for biota analyses.
Organic analyses are not corrected for extraction recovery standards except for isotope
dilution methods, (i.e. CARB 429 PAH, all PCDD/F and DRD/DBF analyses)

Methods used by PASC are based upon those found in 'Standard Methods for the Examination of Water and Wastewater', Nineteenth Edition. Other methods are based on the principles of MISA or EPA methodologies. New York State: ELAP Identification Number 10756.

All work recorded herein has been done in accordance with normal professional standards using accepted testing methodologies, quality assurance and quality control procedures except where otherwise agreed to by the client and testing company in writing. Any and all use of these test results shall be limited to the actual cost of the pertinent analysis done. There is no other warranty expressed or implied. Your samples will be retained at PASC for a period of three weeks from receipt of data or as per contract.

COMMENTS:

Certified by: 

Page 1



PASC - Certificate of Analysis

Client ID: Method NFS-05
Lab No.: Blank TCLP TCLPLeach
Date Sampled: 046996 98 046998 98
98/09/23

Component	MDL	Units		
Beuzene	0.5	ug/L	<5.0	110
Surrogate Recoveries		%		
d4-1,2-Dichloroethane			100	101
d8-Toluene			100	96
1,4-Bromofluorobenzene			95	95



6601 Kirkville Road
E. Syracuse, NY 13057-0369
Phone: (315) 432-5227
Fax: (315) 437-0571
www.galsonlabs.com

October 12, 1998

DOH ELAP# 11626

Mr. Mark Hofferbert
Remediation Technologies, Inc.
1001 West Seneca Street
Ithaca, NY 14850

Re: Client Account# 12013

Login# L45718

Dear Mr. Hofferbert:

Enclosed are the analytical results of the samples received by our laboratory September 19, 1998. Samples submitted for TCLP 8270 and total PAH's were subcontracted to O'Brien & Gere Laboratories, Inc. Their report is enclosed in its entirety.

Please contact our Client Services Department at (888) 577-5227, extension 116, if you would like any additional information regarding this report.

Thank you for using Galson Laboratories.

Sincerely,

Galson Laboratories

Handwritten signature: F. Joseph Unangst
FJR

F. Joseph Unangst
Laboratory Director

Enclosure(s)



VOLATILE ANALYTICAL REPORT



Client : Remediation Technologies, Inc.
 Account # : 12013
 Site : SCAJAQUADA CREEK

Date Received : 19-SEP-98
 Date Sampled : 18-SEP-98

Matrix : Leachate
 Method : SW846/1311/8260-TCLP
 Units : UG/L

Galson ID:	L45718-1	L45718-3	QBB092398-1
Client ID:	NFGSCSP4	NFGSCSP5	VBLK1
Benzene	250	270	<5
Methyl-Butanone	<100	NR	<10
Carbon Tetrachloride	<50	NR	<5
Chlorobenzene	<50	NR	<5
Chloroform	<50	NR	<5
1,2-Dichloroethane	<50	NR	<5
1,1-Dichloroethene	<50	NR	<5
Tetrachloroethene	<50	NR	<5
Trichloroethene	<50	NR	<5
Vinyl Chloride	<100	NR	<10
Dilution Factor	10	10	1
Analysis Date	09/23/98	09/23/98	09/23/98

Approved by : PJT
 Date : 28-SEP-98
 QC by : *[Signature]*
 Date : 9/28/98
 NYS DOH # : 11626
 Footnotes:



O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8270

Client: Galson Laboratories
Project: East Syracuse, New York
Proj. Desc:

Job No.: 2078.001.517
Certification NY No.: 10155

Sample: J7454
Samp. Description: L45718-2 NFGSCSP4
Instrument: HP5972A GCMS#5
Units: ug/Kg Dry weight
Number of analytes: 21

Collected: 09/18/98
Received: 10/07/98
Prepared: 09/21/98
Matrix: Solid
QC Batch: Q5805
%Solids: 70.2
Sample Size: 30.2 g

Parameter	Result	Surrog		Notes
		Limits	Dilution	
Naphthalene	410000.		100	10/08/98
2-Methylnaphthalene	260000.		100	10/08/98
Acenaphthylene	<47000.		100	10/08/98
Acenaphthene	150000.		100	10/08/98
Dibenzofuran	<47000.		100	10/08/98
Fluorene	70000.		100	10/08/98
Phenanthrene	250000.		100	10/08/98
Anthracene	81000.		100	10/08/98
Fluoranthene	91000.		100	10/08/98
Pyrene	140000.		100	10/08/98
Benzo [a] anthracene	<47000.		100	10/08/98
Chrysene	<47000.		100	10/08/98
Benzo [b] fluoranthene	<47000.		100	10/08/98
Benzo [k] fluoranthene	<47000.		100	10/08/98
Benzo [a] pyrene	<47000.		100	10/08/98
Indeno [1,2,3-cd] pyrene	<47000.		100	10/08/98
Dibenz [a,h] anthracene	<47000.		100	10/08/98
Benzo [g,h,i] perylene	<47000.		100	10/08/98
Nitrobenzene-d5 (surrogate)	0.%	41-129	100	10/08/98
2-Fluorobiphenyl (surrogate)	0.%	52-118	100	10/08/98
Terphenyl-d14 (surrogate)	0.%	49-136	100	10/08/98

Notes:

Surrogate was diluted out.

- Outside control limits J-Estimated value

Authorized: Monika Santucci
Date: October 9, 1998

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8270

Client: Galson Laboratories
Project: East Syracuse, New York
Proj. Desc:

Job No.: 2078.001.517
Certification NY No.: 10155

Sample: J7455
Samp. Description: L45718-3 NFGSCSP5
Instrument: HP5972A GCMS#5
Units: ug/Kg Dry weight
Number of analytes: 21

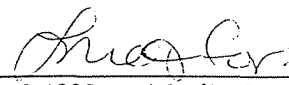
Collected: 09/18/98
Received: 10/07/98
Prepared: 09/21/98
Matrix: Solid
QC Batch: Q5805
%Solids: 72.1
Sample Size: 30.2 g

Parameter	Result	Surrog		Notes
		Limits	Dilution	
Naphthalene	290000.		100	10/08/98
2-Methylnaphthalene	190000.		100	10/08/98
Acenaphthylene	<46000.		100	10/08/98
Acenaphthene	110000.		100	10/08/98
Dibenzofuran	<46000.		100	10/08/98
Fluorene	52000.		100	10/08/98
Phenanthrene	190000.		100	10/08/98
Anthracene	61000.		100	10/08/98
Fluoranthene	70000.		100	10/08/98
Pyrene	110000.		100	10/08/98
Benzo [a] anthracene	<46000.		100	10/08/98
Chrysene	<46000.		100	10/08/98
Benzo [b] fluoranthene	<46000.		100	10/08/98
Benzo [k] fluoranthene	<46000.		100	10/08/98
Benzo [a] pyrene	<46000.		100	10/08/98
Indeno [1, 2, 3-cd] pyrene	<46000.		100	10/08/98
Dibenz [a, h] anthracene	<46000.		100	10/08/98
Benzo [g, h, i] perylene	<46000.		100	10/08/98
Nitrobenzene-d5 (surrogate)	0. %	41-129	100	10/08/98
2-Fluorobiphenyl (surrogate)	0. %	52-118	100	10/08/98
Terphenyl-d14 (surrogate)	0. %	49-136	100	10/08/98

Notes:

Surrogate was diluted out.

- Outside control limits J-Estimated value

Authorized: 
Date: October 9, 1998 Monika Santucci

2
 LEACHATE VOLATILE SURROGATE RECOVERY

Lab Name: GALSON LABORATORIES

Contract:

Lab Code: Case No.: 2

SAS No.:

SDG No.: L45718

SAMPLE NO.	SMC1 (TOL) #	SMC2 (BFB) #	SMC3 (DCE) #	OTHER	TOT OUT
=====	=====	=====	=====	=====	=====
VBLK1	83	88	79	BB0923	0
NFGSCSP4	83	87	96	BB0923	0

SMC1 (TOL) = Toluene-d8	QC LIMITS (54-114)
SMC2 (BFB) = Bromofluorobenzene	(50-128)
SMC3 (DCE) = 1,2-Dichloroethane-d4	(54-123)

Column to be used to flag recovery values
 * Values outside of QC limits
 D Surrogate diluted out

LEACHATE VOLATILE SURROGATE RECOVERY

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L45718

SAMPLE NO. =====	SMC1 (DCE) # =====	SMC2 () # =====	SMC3 () # =====	OTHER =====	TOT OUT =====
NFGSCSP5	97			BB0923	0

SMC1 (DCE) = 1,2-Dichloroethane-d4

QC LIMITS (54-123)

Column to be used to flag recovery values
 * Values outside of QC limits
 D Surrogate diluted out

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: TCLP 8270

Client: Galson Laboratories
Project: East Syracuse, New York
Proj. Desc:

Job No.: 2078.001.517
Certification NY No.: 10155

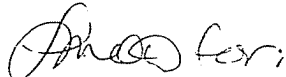
Sample: J7453
Samp. Description: L45718-1 NFGSCSP4
Instrument: HP5972A GCMS#5
Units: mg/L
Number of analytes: 18

Collected: 09/18/98
Received: 10/07/98
Prepared: 09/22/98
Matrix: Leachate
QC Batch: Q5809
%Solids:
Sample Size: .1 L

Parameter	Result	Surrog Limits	Dilution	Analyzed	Notes
Pyridine	<.50		1	10/07/98	
1,4-Dichlorobenzene	<.10		1	10/07/98	
2-Methylphenol	<.10		1	10/07/98	
(3+4)-Methylphenol	<.10		1	10/07/98	
Hexachloroethane	<.10		1	10/07/98	
Nitrobenzene	<.10		1	10/07/98	
Hexachlorobutadiene	<.10		1	10/07/98	
2,4,6-Trichlorophenol	<.10		1	10/07/98	
2,4,5-Trichlorophenol	<.50		1	10/07/98	
2,4-Dinitrotoluene	<.10		1	10/07/98	
Hexachlorobenzene	<.10		1	10/07/98	
Pentachlorophenol	<.50		1	10/07/98	
2-Fluorophenol (surrogate)	52.%	50-111	1	10/07/98	
Phenol-d5 (surrogate)	34.%	# 42-126	1	10/07/98	
2,4,6-Tribromophenol (surrogate)	103.%	72-106	1	10/07/98	
Nitrobenzene-d5 (surrogate)	98.%	55-123	1	10/07/98	
2-Fluorobiphenyl (surrogate)	96.%	53-113	1	10/07/98	
Terphenyl-d14 (surrogate)	100.%	21-150	1	10/07/98	

Notes:

- Outside control limits J-Estimated value

Authorized: 
Date: October 8, 1998 Monika Santucci



PESTICIDE ANALYTICAL REPORT

Client : Remediation Technologies, Inc.
Account # : 12013
Site : SCAJAQUADA CREEK

Date Received : 19-SEP-98 Matrix : Leachate
Date Sampled : 18-SEP-98 Method : TCLP 8081
Date Extracted: 22-SEP-98 Units : ug/L

Galson ID: L45718-1 Q-5807 Q-5807TP
Client ID: NFGSCSP4 PBLK 5807 TPBLK 5807

gamma-BHC (Lindane)	<0.25	<0.25	<0.25
Heptachlor	<0.25	<0.25	<0.25
Heptachlor epoxide	<0.25	<0.25	<0.25
Endrin	<0.5	<0.5	<0.5
Methoxychlor	<2.5	<2.5	<2.5
Chlordane	<2.5	<2.5	<2.5
Toxaphene	<5	<5	<5
Analysis Date	09/23/98	09/23/98	09/23/98
Dilution Factor	1	1	1
Surrogate Recovery	107 %	114 %	102 %
Control Limits (60-130)			

Approved by : Oommen Kappil
Date : 28-SEP-98
QC by : *[Signature]*
Date : 9/28/98
NYS DOH # : 11626
Footnotes:

Printed : 09/28/98 12:56

Report Reference # : 110390





PESTICIDE ANALYTICAL REPORT

Client : Remediation Technologies, Inc.
Account # : 12013
Site : SCAJAQUADA CREEK

Date Received : 19-SEP-98
Date Sampled : 18-SEP-98
Date Extracted : 23-SEP-98
Matrix : Soil
Method : SW846 8082
Units : ug/Kg

Galson ID: *L45718-2 Q-5814
Client ID: NFGSCSP4 PBLK 5814

Aroclor-1016	<24	<17
Aroclor-1221	<24	<17
Aroclor-1232	<24	<17
Aroclor-1242	<24	<17
Aroclor-1248	<24	<17
Aroclor-1254	210	<17
Aroclor-1260	180	<17
Percent Moisture (%)	30	NA
Analysis Date	09/23/98	09/23/98
Dilution Factor	1	1
Surrogate Recovery	79 %	106 %
Control Limits (48-132)		

Approved by : Oommen Kappil
Date : 28-SEP-98
QC by : *[Signature]*
Date : 9/28/98
NYS DOH # : 11626
Footnotes:

- Results are reported on a dry weight basis.
- * Altered Aroclor detected in the sample.
- * Result may be biased high due to matrix interference.

Printed : 09/28/98 08:15

Report Reference # : 110290





HERBICIDE ANALYTICAL REPORT

Client : Remediation Technologies, Inc.
Account # : 12013
Site : SCAJAQUADA CREEK

Date Received : 19-SEP-98
Date Sampled : 18-SEP-98
Date Extracted: 22-SEP-98
Matrix : Leachate
Method : TCLP 8151
Units : ug/L

Galson ID: L45718-1 Q-5808 Q-5808TP
Client ID: NFGSCSP4 PBLK 5808 TPBLK 5808

2,4-D	<100	<100	<100
2,4,5-TP (SILVEX)	<10	<10	<10
Analysis Date	09/23/98	09/23/98	09/24/98
Dilution Factor	1	1	1
Surrogate Recovery	101 %	81 %	78 %
Control Limits (31-130)			

Approved by : Oommen Kappil
Date : 25/SEP/98
QC by : *[Signature]*
Date : 9/28/98
NYS DOH # : 11626
Footnotes:

Printed : 09/25/98 16:41

Report Reference # : 110205



METALS ANALYTICAL REPORT



Client : Remediation Technologies, Inc.
 Account # : 12013
 Site : SCAJAQUADA CREEK

Date Received : 19-SEP-98
 Date Sampled : 18-SEP-98

Matrix : Leachate
 Method : SW846 6010B/7470A

Galson ID: L45718-1 QM980924-1
 Client ID: NFGSCSP4 TCLP Blank
 Units

	mg/l	0.01	<0.01
Arsenic TCLP	mg/l	1.3	<1
Barium TCLP	mg/l	<0.005	<0.005
Cadmium TCLP	mg/l	<0.01	<0.01
Chromium TCLP	mg/l	0.021	<0.02
Lead TCLP	mg/l	<0.0003	<0.0003
Mercury TCLP	mg/l	<0.02	<0.02
Selenium TCLP	mg/l	<0.01	<0.01
Silver TCLP	mg/l	<0.01	<0.01

Approved by : KSB
 Date : 24 SEP-98
 QC by : *[Signature]*
 Date : 9/28/98
 NYS DOH # : 11626
 Footnotes:





**Galson
Laboratories**

INORGANIC ANALYTICAL REPORT

Client : Remediation Technologies, Inc.
 Account # : 12013
 Site : SCAJAQUADA CREEK

Date Received : 19-SEP-98 Matrix : Soil
 Date Sampled : 18-SEP-98

Galson ID: L45718-1
 Client ID: NFGSCSP4

	Method	Units	
Reactive Cyanide	SW846	mg/kg	<100
Reactive Sulfide	SW846	mg/kg	<100

Approved by : LM
 Date : 23-SEP-98
 QC by : *[Signature]*
 Date : 9/28/98
 NYS DOH # : 11626
 Footnotes:

* The sample does not exceed the USEPA action levels of 250 mg HCN/kg waste and/or 500 mg H₂S/kg waste as stated in SW846; therefore it is not reactive.





6601 Kirkville Road East
E. Syracuse, New York 13057
315 437-7252 • 888-577-5227

Company Name

RETGC

Project Name / Number

3-2111

Turn-Around Time

- Standard Service
- * Rush Service

Date requested by: ASAP

Ph # (607) - 277 - 5716

Fax # (607) - 277 - 9057

Page 1 of 1

PARAMETERS FOR ANALYSIS

TCLP Benzene/VOA	"	Semi VOA	"	Pesticides/Herbicides	"	RCRA Metals	"	Reactive Cyanide	"	Reactive Sulfide	"	Tot PAH's	"	PCB's
	X		X	X	X	X	X	X	X			X		

RCRA list Benzene only

Send Report to: Mark Hoffertbet
RETGC
1001 W. Seneca st
Ft. Seneca NY 14850

Send Invoice to: SAME

P.O. # _____

SAMPLE ID	Date	Time	TYPE			Chain of Custody Record			Laboratory	ID	Number
			Comp.	Grab	Aqueous	Soil	Other				
NFGSCSP 4	9/18/98	9:30	X						Logies, In	L45718-1	L45718-2
NFGSCSP 5	"	9:45	X						Logies, In	L45718-3	NFGSCSP5

REMARKS: * 1 week TAT per Mark Hoffertbet to mob 9/21/98
* TCLPVOA = RCRA list for sample SP4 per Dan Shearer to mob 9/21/98
TCLPVOA = Benzene only for sample SP5

SAMPLER'S NAME:		SIGNATURE:		VOC Pres	U	P	AU	NA
SAMPLES RELINQUISHED BY:		SAMPLES RECEIVED BY:		Custody Seal Intact? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N.A.				
NAME: <u>David J. Karikis</u>	DATE: <u>9/18/98</u>	NAME: <u>M. A. Buchanan</u>	DATE: <u>9/19/98</u>	Shipment Complete? <input type="checkbox"/> Yes <input type="checkbox"/> No				
SIGNATURE: <u>[Signature]</u>	TIME:	SIGNATURE: <u>[Signature]</u>	TIME: <u>10:00</u>	Temp _____ °C TS TB TM				
NAME:	DATE:	Received For Laboratory By:	DATE:	Airbill #				
SIGNATURE:	TIME:	(Signature)	TIME:					
NAME:	DATE:	Received For Laboratory By:	DATE:					
SIGNATURE:	TIME:	(Signature)	TIME:					



Certificate of Analysis

CLIENT INFORMATION

Attention: Mike Charles
Client Name: Philip Service Corp.
Project: 19545/1955
Project Desc: Scajaquada Creek/NFG

Address: 493 Commerce Dr.
 Suite 7
 Amherst, NY
 14228

Fax Number: 716-871-0413
Phone Number: 716-871-0478

LABORATORY INFORMATION

Contact: Ada Blythe, B.Sc., C.Chem.
Project: AN980884
Date Received: 98/09/25
Date Reported: 98/09/30

Submission No.: BI0900
Sample No.: 047762-047764

NOTES:

*'N' = not analyzed. 'C' = less than Method Detection Limit (MDL). 'NA' = no data available
 LOD can be determined for all analytes by multiplying the appropriate MDL X 2.33
 Solids data is based on dry weight except for bios analysis.
 Organic analysis are not corrected for extraction recovery standards except for isotopic
 dilution methods, (i.e. CARS 429 PAH, all PCBs/P and DDT/DDE/DDEP analysis)*

Methods used by PASC are based upon those found in 'Standard Methods for the Examination of Water and Wastewater', Nineteenth Edition. Other methods are based on the principles of MESA or EPA methodologies. New York State: ELAP Identification Number 10736.

All work reported herein has been done in accordance with normal professional standards using accepted testing methodologies, quality assurance and quality control procedures except where otherwise agreed to by the client and testing company in writing. Any and all use of these test results shall be limited to the actual cost of the pertinent analysis done. There is no other warranty expressed or implied. Your samples will be retained at PASC for a period of three weeks from receipt of data or as per contract.

COMMENTS:

Certified by 

PASC - Certificate of Analysis

Client ID: NFS-06
Lab No.: 047763 98
Date Sampled: 99/09/25

Component	MDL	Units
pH after 3.5 ml of LN HCl addition		NA
pH after extraction (semi-vols/metals)		NA
pH after extraction (volatiles)		6.23
pH initial (5g + 96.5ml water)		NA
pH of extraction fluid (semi-vols/metals)		NA
pH of extraction fluid (volatiles)		4.95

9/30/98

PASC - Certificate of Analysis

Page 3 of 3

	Client ID:	Method	Blank	% Recovery	NFS-06	
	Lab No.:	Blank	Spike		TCLP	
	Date Sampled:	047762 98	047762 98	047762 98	047764 98	
		98/09/25	98/09/25	98/09/25		
Component	MDL	Units				
TCLP Benzene via 8260	0.5	ug/L	<100	11000	110	400
Surrogate Recoveries		%				
d4-1,2-Dichloroethane			116	89	89	96
d8-Toluene			106	101	101	105
1,4-Bromodifluorobenzene			88	110	110	101

** TOTAL PAGE.03 **



Certificate of Analysis

CLIENT INFORMATION

Attention: Mike Charles
Client Name: Philip Service Corp.
Project: 19545/1955
Project Desc: Scajaquada Crcek/NFG

Address: 495 Commerce Dr.
Suite 7
Amherst, NY
14228

Fax Number: 716-871-0413
Phone Number: 716 871 0478

LABORATORY INFORMATION

Contact: Ada Blythe, B.Sc., C.Chem.
Project: AN980884
Date Received: 98/10/07
Date Reported: 98/10/09

Submission No.: 8J0242
Sample No.: 050209

NOTES:

'-' = not analysed 'L' = less than Method Detection Limit (MDL) 'NA' = no data available
LOQ can be determined for all analytes by multiplying the appropriate MDL X 3.33
Solids data is based on dry weight except for biota analyses.
Organic analyses are not corrected for extraction recovery standards except for isotope
dilution methods, (i.e. CARB 429 PAH, all PCDD/F and DBD/DBF analyses)

Methods used by PASC are based upon those found in 'Standard Methods for the Examination of Water and Wastewater', Nineteenth Edition. Other methods are based on the principles of MISA or EPA methodologies. New York State: ELAP Identification Number 10756.

All work recorded herein has been done in accordance with normal professional standards using accepted testing methodologies, quality assurance and quality control procedures except where otherwise agreed to by the client and testing company in writing. Any and all use of these test results shall be limited to the actual cost of the pertinent analysis done. There is no other warranty expressed or implied. Your samples will be retained at PASC for a period of three weeks from receipt of data or as per contract.

COMMENTS:

Certified by: 

Page 1

PASC - Certificate of Analysis

Client ID:
Lab No.:
Date Sampled:

Method
Blank

NFS-07
TCLP
050209 98

Component	MDL	Units		
TCLP Benzene via SW846 Method 8260				
Benzene	0.5	ug/L	<	470
Surrogate Recoveries		%		
d4-1,2-Dichloroethane			106	99
d8-Toluene			106	91
1,4-Bromofluorobenzene			89	108



6601 Kirkville Road East
E. Syracuse, New York 13057
315 437-7252 • 888-577-5227

Company Name
RETEC
Project Name / Number
3-2111

Turn-Around Time
 - Standard Service
 - * Rush Service
Date requested by: **ASAP**
Ph # **(607) 377-5716**
Fax # **(607) 377-6057**
Send Invoice to: **SAME**
P.O. #

PARAMETERS FOR ANALYSIS									

TCLP Benzene

Send Report to: **RETEC**
1001 W. Seneca St
Ithaca, NY 14850
Attn: Mark Hofferbert

Send Invoice to: **SAME**
P.O. #

SAMPLE ID	Date	Time	TYPE					Chain of Custody Record				
			Comp.	Grab	Aqueous	Soil	Other	Laboratory	ID	Number		
SC500ERR	12/13	16:00	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>						

Remediation Technologies, Inc. 146305-1
SC500ERR
10/14/98 OPTIONS

Total Containers -

REMARKS: **4 day TAT per Mark to Pam w 10/14.**

SAMPLER'S NAME:		SIGNATURE:		VOC Pres	U	P	AU	NA
SAMPLES RELINQUISHED BY:		SAMPLES RECEIVED BY:		Custody Seal Intact?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N.A.	
NAME: David J. K... 10/17/98	DATE: 10/17/98	NAME:	DATE:	Shipment Complete?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
SIGNATURE: David J. K...	TIME: 1800	SIGNATURE:	TIME:	Temp 9 °C	TS	TB	TM	T6
NAME:	DATE:	Received For Laboratory By:	DATE: 10-14-98	Airbill # 5350912265				
SIGNATURE:	TIME:	(Signature) T...	TIME: 1050					
NAME:	DATE:	Received For Laboratory By:	DATE:					
SIGNATURE:	TIME:	(Signature)	TIME:					

VOLATILE ANALYTICAL REPORT



Galson
Laboratories

Client : Remediation Technologies, Inc.
Account # : 12013
Site : 3-2111

Date Received : 14-OCT-98
Date Sampled : 13-OCT-98

Matrix : Leachate
Method : TCLP 8260B
Units : UG/L

Galson ID: Client ID:	L46305-1 SC500ERR	QCC101698-1 Method Blank	QCC101698-1TP TCLP Blank
Benzene	<50	<5	<50
Dilution Factor	10	1	10
Analysis Date	10/16/98	10/16/98	10/16/98

Approved by : CMR
Date : 16-OCT-98
QC by : *[Signature]*
Date : 10/19/98
NYS DOH # : 11626
Footnotes:



LEACHATE VOLATILE SURROGATE RECOVERY

Client : Remediation Technologies, Inc.

Login # : L46305

SAMPLE NO.	SMC1 (DCE) #	SMC2 () #	SMC3 () #	OTHER	TOT OUT
Method Blank-QCC101698-1	92			CB1016	0
TCLP Blank	107			CB1016	0
SC500ERR	112			CB1016	0

SMC1 (DCE) = 1,2-Dichloroethane-d4

QC LIMITS
(58-134)

- # Column to be used to flag recovery values
- * Values outside of QC limits
- D Surrogate diluted out



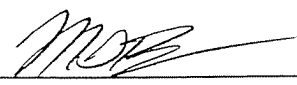
Galson Laboratories
Login Chain of Custody Report (In01)
Oct. 14, 1998
04:03 PM

Login Number: L46305
Account: 12013
Project:

Remediation Technologies, Inc.

Page: 1 of 1

Laboratory Sample Number	Client Sample Number	Collect Date	Receive Date	PR	Due Date	AirVol/Area/Time	Comments
L46305-1	SC500ERR	13-OCT-98	14-OCT-98		19-OCT-98		Q5D1/TCLP BENZENE ONLY.
OPTIONS	S E-NYS	Hold					
Leachate	S EM-TCLPVOA	Hold	27-OCT-98				
Bulk Prep	S EP-TCLPVOA	Hold	27-OCT-98				

Signature: 
Date: 10/14/98



**Galson
Laboratories**

6601 Kirkville Road East
E. Syracuse, New York 13057
315 437-7252 • 888-577-5227

Company Name

RETEC

Project Name / Number

3-2111-650

Turn-Around Time

- Standard Service
- * Rush Service

Date requested by: 10/8/98

Ph # (607)-277-5716

Fax # (607)-277-9057

Page _____ of _____

PARAMETERS FOR ANALYSIS

TCLP - BENZENE

TOTAL PAHs

Send Report to: MARK HOFFERBERT
1001 W. SENECA ST
ITHACA, NY 14850

Send Invoice to: RETEC
Attn: Mark Hofferbert
1001 W. SENECA ST.
ITHACA, NY 14850

P.O. # _____

SAMPLE ID	Date	Time	TYPE			Chain of Custody Record			Laboratory	ID	Number									
			Comp.	Grab	Aqueous	Soil	Other													
<u>NFGSCSP6</u>	<u>9/30</u>	<u>10⁰⁰</u>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>														

REMARKS:

Total Containers - 2

SAMPLER'S NAME: DM SHEPHERD

SIGNATURE: DM Shepherd

VOC Pres U P AU NA

SAMPLES RELINQUISHED BY:

SAMPLES RECEIVED BY:

Custody Seal Intact? Yes No N.A.
Shipment Complete? Yes No

NAME: _____ DATE: _____
SIGNATURE: _____ TIME: _____

NAME: _____ DATE: _____
SIGNATURE: _____ TIME: _____

Temp 4 °C TS TB TM (TG)

NAME: _____ DATE: _____
SIGNATURE: _____ TIME: _____

Received For Laboratory By: _____ DATE: _____
(Signature) (Signature) TIME: _____

Airbill # _____

NAME: _____ DATE: _____
SIGNATURE: _____ TIME: _____

Received For Laboratory By: _____ DATE: 10-2-98
(Signature) (Signature) TIME: 1115

VOLATILE ANALYTICAL REPORT



Client : Remediation Technologies, Inc.
 Account # : 12013
 Site : 3-2111-650

Date Received : 02-OCT-98
 Date Sampled : 30-SEP-98

Matrix : Leachate
 Method : SW846/1311/8260-TCLP
 Units : UG/L

Galson ID:	L46034-1	QCB100698-1	QCB100698-1TP
Client ID:	NFGSCSP6	Method Blank	TCLP Blank
Benzene	290	<5	<50
Dilution Factor	10	1	10
Analysis Date	10/06/98	10/06/98	10/06/98

Approved by : CMR
 Date : 08-OCT-98
 QC by : *[Signature]*
 Date : 10/8/98
 NYS DOH # : 11626
 Footnotes:



LEACHATE VOLATILE SURROGATE RECOVERY

Client : Remediation Technologies, Inc.

Login # : L46034

SAMPLE NO.	SMC1 (DCE) #	SMC2 () #	SMC3 () #	OTHER	TOT OUT
=====	=====	=====	=====	=====	=====
Method Blank-QCB100698-1	118			BB1006	0
TCLP Blank	119			BB1006	0
NFGSCSP6	115			BB1006	0

SMC1 (DCE) = 1,2-Dichloroethane-d4

QC LIMITS (54-123)

- # Column to be used to flag recovery values
- * Values outside of QC limits
- D Surrogate diluted out

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8270

Client: Galson Laboratories
Project: East Syracuse, New York
Proj. Desc:

Job No.: 2078.001.517
Certification NY No.: 10155

Sample: J7461
Samp. Description: L46034-1 NFGSCSP6
Instrument: HP5972A GCMS#5
Units: ug/Kg Dry weight
Number of analytes: 21

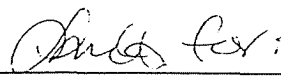
Collected: 09/30/98
Received: 10/07/98
Prepared: 10/05/98
Matrix: Solid
QC Batch: Q5866
%Solids: 62.3
Sample Size: 30.3 g

Parameter	Result	Surrog Limits	Dilution	Analyzed	Notes
Naphthalene	330000.		100	10/09/98	
2-Methylnaphthalene	210000.		100	10/09/98	
Acenaphthylene	<53000.		100	10/09/98	
Acenaphthene	130000.		100	10/09/98	
Dibenzofuran	<53000.		100	10/09/98	
Fluorene	58000.		100	10/09/98	
Phenanthrene	220000.		100	10/09/98	
Anthracene	71000.		100	10/09/98	
Fluoranthene	76000.		100	10/09/98	
Pyrene	130000.		100	10/09/98	
Benzo [a] anthracene	<53000.		100	10/09/98	
Chrysene	<53000.		100	10/09/98	
Benzo [b] fluoranthene	<53000.		100	10/09/98	
Benzo [k] fluoranthene	<53000.		100	10/09/98	
Benzo [a] pyrene	<53000.		100	10/09/98	
Indeno [1,2,3-cd] pyrene	<53000.		100	10/09/98	
Dibenz [a,h] anthracene	<53000.		100	10/09/98	
Benzo [g,h,i] perylene	<53000.		100	10/09/98	
Nitrobenzene-d5 (surrogate)	0.%	41-129	100	10/09/98	
2-Fluorobiphenyl (surrogate)	0.%	52-118	100	10/09/98	
Terphenyl-d14 (surrogate)	0.%	49-136	100	10/09/98	

Notes:

Surrogate was diluted out.

- Outside control limits J-Estimated value

Authorized: 
Date: October 9, 1998 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8270

Client: Galson Laboratories
Project: East Syracuse, New York
Proj. Desc:

Job No.: 2078.001.517
Certification NY No.: 10155

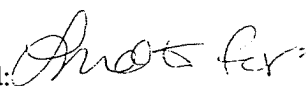
Sample: J7493
Samp. Description: Blank Q5866
Instrument: HP5972A GCMS#5
Units: ug/Kg Dry weight
Number of analytes: 21

Collected: Matrix: Solid
Received: 10/07/98 QC Batch: Q5866
Prepared: 10/05/98 %Solids: 100.0
Sample Size: 30 g

Parameter	Result	Surrog		Notes
		Limits	Dilution	
Naphthalene	<330.		1	10/07/98
2-Methylnaphthalene	<330.		1	10/07/98
Acenaphthylene	<330.		1	10/07/98
Acenaphthene	<330.		1	10/07/98
Dibenzofuran	<330.		1	10/07/98
Fluorene	<330.		1	10/07/98
Phenanthrene	<330.		1	10/07/98
Anthracene	<330.		1	10/07/98
Fluoranthene	<330.		1	10/07/98
Pyrene	<330.		1	10/07/98
Benzo [a] anthracene	<330.		1	10/07/98
Chrysene	<330.		1	10/07/98
Benzo [b] fluoranthene	<330.		1	10/07/98
Benzo [k] fluoranthene	<330.		1	10/07/98
Benzo [a] pyrene	<330.		1	10/07/98
Indeno [1, 2, 3-cd] pyrene	<330.		1	10/07/98
Dibenz [a, h] anthracene	<330.		1	10/07/98
Benzo [g, h, i] perylene	<330.		1	10/07/98
Nitrobenzene-d5 (surrogate)	94.%	41-129	1	10/07/98
2-Fluorobiphenyl (surrogate)	95.%	52-118	1	10/07/98
Terphenyl-d14 (surrogate)	103.%	49-136	1	10/07/98

Notes:

- Outside control limits J-Estimated value

Authorized: 
Date: October 9, 1998 Monika Santucci



Certificate of Analysis

CLIENT INFORMATION

Attention: Mike Charles
Client Name: Philip Service Corp.
Project: 19545/1955
Project Desc: Scajaquada Creek/NFG

Address: 495 Commerce Dr.
Suite 7
Amherst, NY
14228

Fax Number: 716-871-0413
Phone Number: 716 871 0478

LABORATORY INFORMATION

Contact: Ada Blythc, B.Sc., C.Chem.
Project: AN980884
Date Received: 98/10/19
Date Reported: 98/10/20
Révision no.
Submission No.: 8J0613
Sample No.: 052545-052547

NOTES:

'-' = not analysed 'L' = less than Method Detection Limit (MDL) 'NA' = no data available
LOQ can be determined for all analytes by multiplying the appropriate MDL X 3.33
Solids data is based on dry weight except for biota analyses.
Organic analyses are not corrected for extraction recovery standards except for isotope
dilution methods, (i.e. CARB 429 PAH, all PCDD/F and DED/DBF analyses)

Methods used by PASC are based upon those found in 'Standard Methods for the Examination of Water and Wastewater', Nineteenth Edition. Other methods are based on the principles of MISA or EPA methodologies. New York State: ELAP Identification Number 10756.

All work recorded herein has been done in accordance with normal professional standards using accepted testing methodologies, quality assurance and quality control procedures except where otherwise agreed to by the client and testing company in writing. Any and all use of these test results shall be limited to the actual cost of the pertinent analysis done. There is no other warranty expressed or implied. Your samples will be retained at PASC for a period of three weeks from receipt of data or as per contract.

COMMENTS:

Certified by: 

Page 1



Client ID: NFS-09
Lab No.: 052546 98
Date Sampled: 98/10/19

Component	MDL	Units
pH after 3.5 ml of 1N HCl addition		NA
pH after extraction (semi-vols/metals)		NA
pH after extraction (volatiles)		5.92
pH initial (5g + 96.5ml water)		NA
pH of extraction fluid (semi-vols/metals)		NA
pH of extraction fluid (volatiles)		4.98

PASC - Certificate of Analysis

	Method	Blank	% Recovery	NFS-09-
<i>Client ID:</i>	Blank	Spike		Leachate
<i>Lab No.:</i>	052545 98	052545 98	052545 98	052547 98
<i>Date Sampled:</i>	98/10/19	98/10/19	98/10/19	98/10/20
Component	MDL	Units		
<i>TCLP Benzene via SW846 Method 8260</i>				
Benzene	0.5	ug/L	<100	10000
Surrogate Recoveries		%	100	180
d4-1,2-Dichloroethane			101	107
d8-Toluene			100	97
1,4-Bromofluorobenzene			97	111

10/20/98

PASC - Summary of Analysis Pre. Dates

Page MS-4 of 4

Batch Code:	1020SM01
Benzene	052545 98
	052547 98
Date analysed	98/10/20
Date prepared	98/10/20

Client: Philip Service Corp. Project: 19545/1955

** TOTAL PAGE.04 **



Certificate of Analysis

CLIENT INFORMATION

Attention: Mike Charles
Client Name: Philip Service Corp.
Project: 19545/1955
Project Desc: Scajaquada Creek/NFG

Address: 495 Commerce Dr.
Suite 7
Amherst, NY
14228

Fax Number: 716-871-0413
Phone Number: 716 871 0478

LABORATORY INFORMATION

Contact: Ada Blythe, B.Sc., C.Chem.
Project: AN980884
Date Received: 98/10/15
Date Reported: 98/10/20

Submission No.: 8J0501
Sample No.: 051844-051846


NOTES:

'-' = not analysed '<' = less than Method Detection Limit (MDL) 'NA' = no data available
LOQ can be determined for all analytes by multiplying the appropriate MDL X 3.33
Solids data is based on dry weight except for biota analyses.
Organic analyses are not corrected for extraction recovery standards except for isotope
dilution methods, (i.e. CARB 429 PAH, all PCDD/F and DDB/DBF analyses)

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COMMENTS:

Certified by: 

Page 1



PASC - Certificate of Analysis

Client ID: NFS-08
Lab No.: 051845 98
Date Sampled: 98/10/14

Component	MDL	Units
pH after 3.5 ml of 1N HCl addition		NA
pH after extraction (semi-vols/metals)		NA
pH after extraction (volatiles)		6.31
pH initial (5g + 96.5ml water)		NA
pH of extraction fluid (semi-vols/metals)		NA
pH of extraction fluid (volatiles)		4.98

PASC - Certificate of Analysis

	Method	Blank	% Recovery	NFS
Client ID:	Blank	Spike		08-Leachate
Lab No.:	051844 98	051844 98	051844 98	051846 98
Date Sampled:	98/10/16	98/10/16	98/10/16	98/10/16
Component	MDL	Units		
TCLP Benzene via SW846 Method 8260				
Benzene	0.5	ug/L	<100	10000
Surrogate Recoveries		%		100
d4-1,2-Dichloroethane			101	107
d8-Toluene			100	97
1,4-Bromofluorobenzene			97	111
				111
				94

Batch Code:	1020SM01
Benzene	051844 98
	051846 98
Date analysed	98/10/20
Date prepared	98/10/20

Client: Philip Service Corp. Project: 19545/1955



Certificate of Analysis

CLIENT INFORMATION

Attention: Mike Charles
Client Name: Phillip Service Corp.
Project: 19545/1955
Project Desc: Scajaquada Creek/NFG

Address: 495 Commerce Dr.
Suite 7
Amherst, NY
14228

Fax Number: 716-871-0413
Phone Number: 716 871 0478

LABORATORY INFORMATION

Contact: Ada Blythe, B.Sc., C.Chem.
Project: AN980884
Date Received: 98/10/21
Date Reported: 98/10/23

Submission No.: 8J0753
Sample No.: 053228-053358

NOTES:

'L' = not analysed '<' = less than Method Detection Limit (MDL) 'NA' = no data available
LOQ can be determined for all analytes by multiplying the appropriate MDL X 3.33
Solids data is based on dry weight except for biota analyses.
Organic analyses are not corrected for extraction recovery standards except for isotope
dilution methods, (i.e. CARB 429 PAH, all PCDD/F and DED/DBF analyses)

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COMMENTS:

Certified by:

Rod Thore

Page 1



PASC - Certificate of Analysis

<i>Client ID:</i>	NFS-10	NFS-11
<i>Lab No.:</i>	TCLP	TCLP
<i>Date Sampled:</i>	053228 98	053358 98
	98/10/24	98/10/24

Component	MDL	Units		
Benzene	0.5	ug/L	170	270
Surrogate Recoveries		%		
d4-1,2-Dichloroethane			109	111
d8-Toluene			113	115
1,4-Bromofluorobenzene			89	87

10/22/98

PASC - Summary of Analysis Pre. Dates

Page MS-3 of 3

Batch Code:	1023SM01
Benzene	053228 98
	053358 98
Date Analyzed	98/10/23
Date Prepared	98/10/23

Client: Philip Service Corp. Project: 19545/1955



Certificate of Analysis

CLIENT INFORMATION

Attention: Mike Charles
Client Name: Philip Service Corp.
Project: 19545/1955
Project Desc: Scajaquada Creek/NFG

Address: 495 Commerce Dr.
 Suite 7
 Amherst, NY
 14228

Fax Number: 716-871-0413
Phone Number: 716 871 0478

LABORATORY INFORMATION

Contact: Ada Blythe, B.Sc., C.Chem.
Project: AN980884
Date Received: 98/10/27
Date Reported: 98/10/28

Submission No.: 8J0913
Sample No.: 054462-054464

NOTES:

'N' = not analysed 'L' = less than Method Detection Limit (MDL) 'NA' = no data available
 LOQ can be determined for all analyses by multiplying the appropriate MDL X 3.33
 Solids data is based on dry weight except for biota analyses.
 Organic analyses are not corrected for extraction recovery standards except for isotope
 dilution methods, (i.e. CARB 429 PAH, all PCDD/F and DBD/DBF analyses)

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COMMENTS:

Certified by: 

Page 1

PASC - Certificate of Analysis

Client ID: NFS-12
Lab No.: 054463 98
Date Sampled: 98/10/27

Component	MDL	Units
pH after 3.5 ml of 1N HCl addition		NA
pH after extraction (semi-vols/metals)		NA
pH after extraction (volatiles)		6.55
pH initial (5g + 96.5ml water)		NA
pH of extraction fluid (semi-vols/metals)		NA
pH of extraction fluid (volatiles)		4.98

PASC - Certificate of Analysis

	<i>Client ID:</i>	Method	Blank	% Recovery	NFS	
	<i>Lab No.:</i>	Blank	Spike		12-Leachate	
	<i>Date Sampled:</i>	054462 98	054462 98	054462 98	054464 98	
		98/10/27	98/10/27	98/10/27		
Component	MDL	Units				
TCLP Benzene via SW846 Method 8260	0.5	ug/L	<100	9800	98	350
Surrogate Recoveries		%				
d4-1,2-Dichloroethane			107	104	104	106
d8-Toluene			110	106	106	108
1,4-Bromofluorobenzene			87	97	97	88

Batch Code:	1028SM01
Benzene	054462 98
	054464 98
Date analysed	98/10/28
Date prepared	98/10/28

Client: Philip Service Corp. Project: 19545/1953



Certificate of Analysis

CLIENT INFORMATION

Attention: Mike Charles
 Client Name: Philip Service Corp.
 Project: 19545/1955
 Project Desc: Scajaquada Creek/NFG

Address: 495 Commerce Dr.
 Suite 7
 Amherst, NY
 14228

Fax Number: 716-871-0413
 Phone Number: 716 871 0478

LABORATORY INFORMATION

Contact: Ada Blythe, B.Sc., C.Chem.
 Project: AN980884
 Date Received: 98/10/30
 Date Reported: 98/11/02

Submission No.: 8J1076
 Sample No.: 055362

NOTES:

*"N" = not analysed <" = less than Method Detection Limit (MDL) 'NA' = no data available
 LOQ can be determined for all analytes by multiplying the appropriate MDL X 3.33
 Solids data is based on dry weight except for biota analyses.
 Organic analyses are not corrected for extraction recovery standards except for isotope
 dilution methods, (i.e. CARB 429 PAH, all PCDD/F and DBD/DBF analyses)*

Methods used by PASC are based upon those found in 'Standard Methods for the Examination of Water and Wastewater', Nineteenth Edition. Other methods are based on the principles of MISA or EPA methodologies. New York State: ELAP Identification Number 10756.

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COMMENTS:

Certified by: 



PASC - Certificate of Analysis

	Method	Blank	% Recovery	NFS-15
<i>Client ID:</i>	Blank	Spike		TCLP
<i>Lab No.:</i>	055361 98	055361 98	055361 98	055363 98
<i>Date Sampled:</i>	98/11/01	98/11/01	98/11/01	98/11/01
Component	MDL	Units		
<i>TCLP Benzene via SW846 Method 8290</i>				
Benzene	0.5	ng/L	<100	10000
Surrogate Recoveries		%		
d4-1,2-Dichloroethane			99	99
d8-Toluene			98	95
1,4-Bromofluorobenzene			97	102



Certificate of Analysis

CLIENT INFORMATION

Attention: Mike Charles
Client Name: Philip Service Corp.
Project: 19545/1955
Project Desc: Scajaquada Creek/NFG

Address: 495 Commerce Dr.
Suite 7
Amherst, NY
14228

Fax Number: 716-871-0413
Phone Number: 716 871 0478

LABORATORY INFORMATION

Contact: Ada Blythe, B.Sc., C.Chem.
Project: AN980884
Date Received: 98/11/04
Date Reported: 98/11/05

Submission No.: 8K0111
Sample No.: 056401-056403

NOTES:

'-' = not analysed ' $<$ ' = less than Method Detection Limit (MDL) 'N/A' = no data available
LOQ can be determined for all analyses by multiplying the appropriate MDL X 3.33
Solids data is based on dry weight except for biota analyses.
Organic analyses are not corrected for extraction recovery standards except for isotope dilution methods, (i.e. CARB 429 PAH, all PCDD/F and DBD/DBF analyses)

Methods used by PASC are based upon those found in 'Standard Methods for the Examination of Water and Wastewater', Nineteenth Edition. Other methods are based on the principles of MISA or EPA methodologies. New York State: ELAP Identification Number 10756.

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COMMENTS:

Certified by: 

PASC - Certificate of Analysis

Client ID:	Method	Blank	% Recovery	NFS
Lab No.:	Blank	Spike		14-Leachate
Date Sampled:	056401 98	056401 98	056401 98	056403 98
	98/11/03	98/11/03	98/11/03	

Component	MDL	Units			
<i>TCLP Benzene via SW846 Method 8260</i>					
Benzene	0.5	ug/L	<100	9300	93
Surrogate Recoveries		%			
d4-1,2-Dichloroethane			99	104	104
d8-Toluene			100	94	94
1,4-Bromofluorobenzene			92	108	108

Certificate of Analysis

CLIENT INFORMATION

Attention: Mike Charles
Client Name: Philip Service Corp.
Project: 19545/1955
Project Desc: Scajaquada Creek/NFG

Address: 495 Commerce Dr.
Suite 7
Amherst, NY
14228

Fax Number: 716-871-0413
Phone Number: 716 871 0478

LABORATORY INFORMATION

Contact: Ada Blythe, B.Sc., C.Chem.
Project: AN980884
Date Received: 98/11/04
Date Reported: 98/11/05

Submission No.: 8K0111
Sample No.: 056401-056403

NOTES:

'-' = not analyzed '<' = less than Method Detection Limit (MDL) 'NA' = no data available
LOQ can be determined for all analyses by multiplying the appropriate MDL X 3.33
Solids data is based on dry weight except for biota analyses.
Organic analyses are not corrected for extraction recovery standards except for isotope
dilution methods, (i.e. CARB 429 PAH, all PCDD/F and DBD/DBF analyses)

Methods used by PASC are based upon those found in 'Standard Methods for the Examination of Water and Wastewater', Nineteenth Edition. Other methods are based on the principles of MISA or EPA methodologies. New York State: ELAP Identification Number 10756

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COMMENTS:

Certified by: 

PASC - Certificate of Analysis

Component	MDL	Units	Method	Blank	% Recovery	NFS
<i>Client ID:</i>						
<i>Lab No.:</i>						
<i>Date Sampled:</i>						
<i>TCLP Benzene via SW846 Method 8260</i>						
Benzene	0.5	ug/L	056401 98	056401 98	056401 98	056403 98
Surrogate Recoveries		%	98/11/03	98/11/03	98/11/03	
d4-1,2-Dichloroethane			99	104	104	97
d8-Toluene			100	94	94	94
1,4-Bromofluorobenzene			92	108	108	96



#16
(Exec. Tues.)
11/3

Rpt. REC'D. 11/14

Certificate of Analysis

CLIENT INFORMATION

Attention: Mike Charles
Client Name: Philip Service Corp.
Project: 19545/1955
Project Desc: Senjaguada Creek/NFG

Address: 495 Commerce Dr.
Suite 7
Amherst, NY
14228

Fax Number: 716-871-0413
Phone Number: 716 871 0478

LABORATORY INFORMATION

Contact: Ada Blythe, B.Sc., C.Chem.
Project: AN980884
Date Received: 98/11/12
Date Reported: 98/11/13

Submission No.: 8K0398
Sample No.: 058305-058307

NOTES:

'-' = not analysed ' $<$ ' = less than Method Detection Limit (MDL) 'NA' = no data available
LOQ can be determined for all analytes by multiplying the appropriate MDL X 3.33
Solids data is based on dry weight except for biota analyses.
Organic analytes are not corrected for extraction recovery standards except for isotope dilution methods, (i.e. CARB 429 PAH, all PCDD/F and DBD/DBF analyses)

Methods used by FASC are based upon those found in 'Standard Methods for the Examination of Water and Wastewater', Nineteenth Edition. Other methods are based on the principles of MISA or EPA methodologies. New York State: ELAP Identification Number 10756.

All work recorded herein has been done in accordance with normal professional standards using accepted testing methodologies, quality assurance and quality control procedures except where otherwise agreed to by the client and testing company in writing. Any and all use of these test results shall be limited to the actual cost of the pertinent analysis done. There is no other warranty expressed or implied. Your samples will be retained at PASC for a period of three weeks from receipt of data or as per contract.

COMMENTS:

Certified by:



PASC - Certificate of Analysis

Component	MDL	Units	Method	Blank TCLP	% Recovery	NFS-16
			Blank TCLP	Spike		TCLP
			058305 98	058305 98	058305 98	058307 98
			98/11/10	98/11/10	98/11/10	
TCLP Benzene via SW846 M 0.5		ug/L	<100	10000	100	190
Surrogate Recoveries		%				
d4-1,2-Dichloroethane			110	106	106	111
d8-Toluene			115	111	111	107
1,4-Bromofluorobenzene			84	91	91	87



#17

Certificate of Analysis

CLIENT INFORMATION

Attention: Mike Charles
Client Name: Philip Service Corp.
Project: 19545/1955
Project Desc: Scajaquada Creek/NFG

Address: 495 Commerce Dr.
 Suite 7
 Amherst, NY
 14228

Fax Number: 716-871-0413
Phone Number: 716 871 0478

LABORATORY INFORMATION

Contact: Ada Blythe, B.Sc., C.Chem.
Project: AN980884
Date Received: 98/11/18
Date Reported: 98/11/19

Submission No.: 8K0629
Sample No.: 059564-059566

NOTES:

'N' = not analysed 'L' = less than Method Detection Limit (MDL) 'NA' = no data available
 LOQ can be determined for all analytes by multiplying the appropriate MDL X 3.33
 Solids data is based on dry weight except for biota analyses.
 Organic analyses are not corrected for extraction recovery standards except for isotope
 dilution methods, (i.e. CARB 429 PAH, all PCDD/F and DBD/DBF analyses)

Methods used by PASC are based upon those found in 'Standard Methods for the Examination of Water and Wastewater', Nineteenth Edition. Other methods are based on the principles of MISA or EPA methodologies. New York State: ELAP Identification Number 10756.

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COMMENTS:

Note that Benzene failed the TCLP criteria

Certified by:



Client ID: NFS-17
Lab No.: 059565 98
Date Sampled: 98/11/18

Component	MDL	Units
pH after 3.5 ml of 1N HCl addition		NA
pH after extraction (semi-vols/metals)		NA
pH after extraction (volatiles)		6.25
pH initial (5g + 96.5ml water)		NA
pH of extraction fluid (semi-vols/metals)		NA
pH of extraction fluid (volatiles)		4.98

11/19/98

PASC - Certificate of Analysis

Page 3 of 4

Component	MDL	Units	Method	Blank Spike	% Recovery	NFS-17
			Blank			TCLP
			059564 98	059564 98	059564 98	059566 98
			98/11/20	98/11/20	98/11/20	98/11/20
<i>TCLP Benzene via SW846 Method 8260</i>						
Benzene	0.5	ug/L	<100	10000	100	710
Surrogate Recoveries		%				
d4-1,2-Dichloroethane			101	103	103	96
d8-Toluene			111	109	109	107
1,4-Bromofluorobenzene			93	96	96	96



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Certificate of Analysis

CLIENT INFORMATION

Attention: Mike Charles
 Client Name: Philip Service Corp.
 Project: 19545/1955
 Project Desc: Scajaquada Creek/NFG

Address: 495 Commerce Dr.
 Suite 7
 Amherst, NY
 14228

Fax Number: 716-871-0413
 Phone Number: 716 871 0478

LABORATORY INFORMATION

Contact: Ada Blythe, B.Sc., C.Chem.
 Project: AN980884
 Date Received: 98/11/23
 Date Reported: 98/11/24

Submission No.: 8K0786
 Sample No.: 060627-060629

NOTES:

'-' = not analysed '<' = less than Method Detection Limit (MDL) 'NA' = no data available
 LOQ can be determined for all analytes by multiplying the appropriate MDL X 3.33
 Solids data is based on dry weight except for biota analyses.
 Organic analyses are not corrected for extraction recovery standards except for isotope
 dilution methods. (i.e. CARB 429 PAH, all PCDD/F and D6D/DBF analyses)

Methods used by PASC are based upon those found in 'Standard Methods for the Examination of Water and Wastewater', Nineteenth Edition. Other methods are based on the principles of MISA or EPA methodologies. New York State: ELAP Identification Number 10756.

All work recorded herein has been done in accordance with normal professional standards using accepted testing methodologies, quality assurance and quality control procedures except where otherwise agreed to by the client and testing company in writing. Any and all use of these test results shall be limited to the actual cost of the pertinent analysis done. There is no other warranty expressed or implied. Your samples will be retained at PASC for a period of three weeks from receipt of data or as per contract.

COMMENTS:

Certified by:



PASC - Certificate of Analysis

	Method	Blank	% Recovery	NFS
<i>Client ID:</i>	Blank	Spike		18-Leachate
<i>Lab No.:</i>	060627 98	060627 98	060627 98	060629 98
<i>Date Sampled:</i>	98/11/24	98/11/24	98/11/24	98/11/24
Component	MDL	Units		
<i>TCLP Benzene via SW846 Method 8260</i>				
Benzene	0.5	ug/L	<5.0	210
Surrogate Recoveries		%		86
d4-1,2-Dichloroethane			98	98
d8-Toluene			98	98
1,4-Bromofluorobenzene			96	112
				106

Client: Philip Service Corp. Project: 19543/1955



Certificate of Analysis

CLIENT INFORMATION

Attention: Mike Charles
Client Name: Philip Service Corp.
Project: 19545/1955
Project Desc: Scajaquada Creek/NFG

Address: 495 Commerce Dr.
Suite 7
Amherst, NY
14228

Fax Number: 716-871-0413

Phone Number: 716 871 0478

LABORATORY INFORMATION

Contact: Ada Blythe, B.Sc., C.Chem.
Project: AN980884
Date Received: 98/11/18
Date Reported: 98/12/01

Submission No.: 8K0631

Sample No.: 059568-059570

NOTES: *'-' = not analysed '<' = less than Method Detection Limit (MDL) 'NA' = no data available*
LOQ can be determined for all analytes by multiplying the appropriate MDL X 3.33
Solids data is based on dry weight except for biota analyses.
Organic analyses are not corrected for extraction recovery standards except for isotope dilution methods, (i.e. CARB 429 PAH, all PCDD/F and DBD/DBF analyses)

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COMMENTS:

Certified by: 



	Method	Blank	% Recovery	Blank Spike	% Recovery		
Client ID:	Blank	Spike		Duplicate			
Lab No.:	059568 98	059568 98	059568 98	059568 98	059568 98		
Date Sampled:	98/11/18	98/11/18	98/11/18	98/11/18	98/11/18		
Component	MDL	Units					
PAH via SW846 Method 8270							
Naphthalene	0.03	mg/kg	<	1.5	74	1.5	73
Acenaphthylene	0.04	"	0.05	2.0	97	1.7	83
Acenaphthene	0.07	"	<	2.0	100	1.7	83
Fluorene	0.03	"	0.05	2.0	100	1.7	85
Phenanthrene	0.03	"	0.05	2.0	97	1.8	87
Anthracene	0.03	"	0.05	1.9	97	1.7	87
Fluoranthene	0.02	"	0.05	2.0	100	1.9	94
Pyrene	0.03	"	0.05	1.9	94	1.8	89
Benzo(a)anthracene	0.02	"	0.06	2.1	100	1.9	95
Chrysene	0.03	"	0.06	2.1	100	1.9	97
Benzo(b)fluoranthene	0.04	"	<	1.8	90	1.8	90
Benzo(k)fluoranthene	0.04	"	<	2.1	100	1.9	97
Benzo(a)pyrene	0.05	"	<	1.8	91	1.9	95
Indeno(1,2,3-cd)pyrene	0.06	"	<	1.8	91	1.9	97
Dibenzo(ah)anthracene	0.04	"	<	1.8	91	1.8	90
Benzo(ghi)perylene	0.04	"	<	2.1	110	1.9	97
Surrogate Recoveries		%					
d5-Nitrobenzene			70	66	66	66	66
2-Fluorobiphenyl			74	81	81	74	74
d14-p-Terphenyl			86	90	90	85	85

	<i>Client ID:</i>	P-8	P-9	P-9	P-9	P-9	
	<i>Lab No.:</i>	059569 98	059570 98	059570 98	059570 98	059570 98	
	<i>Date Sampled:</i>	98/11/18	98/11/18	98/11/18	98/11/18	98/11/18	
Component	MDL	Units			M. Spike	MS % Rec.	MS Dup
<i>PAH via SW846 Method 8270</i>							
Naphthalene	0.03	mg/kg	0.040	<	1.5	65	1.4
Acenaphthylene	0.04	"	<	<	1.6	69	1.6
Acenaphthene	0.07	"	<	<	1.8	78	1.7
Fluorene	0.03	"	<	<	1.7	73	1.8
Phenanthrene	0.03	"	0.20	0.29	2.1	82	1.9
Anthracene	0.03	"	0.09	0.07	1.9	82	1.8
Fluoranthene	0.02	"	0.20	0.42	2.4	85	2.2
Pyrene	0.03	"	0.28	0.39	2.3	85	2.0
Benz(a)anthracene	0.02	"	0.16	0.23	2.1	83	2.1
Chrysene	0.03	"	0.18	0.22	2.3	89	2.1
Benzo(b)fluoranthene	0.04	"	0.16	0.15	2.1	86	1.9
Benzo(k)fluoranthene	0.04	"	0.12	0.11	2.2	94	2.2
Benzo(a)pyrene	0.05	"	0.14	0.16	2.2	89	2.1
Indeno(1,2,3-cd)pyrene	0.06	"	<	<	2.0	90	2.0
Dibenzo(ah)anthracene	0.04	"	<	<	2.2	97	2.2
Benzo(ghi)perylene	0.04	"	<	<	2.3	100	2.3
Surrogate Recoveries		%					
d5-Nitrobenzene			38	61	60	60	55
2-Fluorobiphenyl			62	73	64	64	65
d14-p-Terphenyl			94	81	85	85	81

Client ID: P-9
Lab No.: 059570 98
Date Sampled: 98/11/18

Component	MDL	Units	MSD % Rec.
PAH via SW846 Method 8270			
Naphthalene	0.03	mg/kg	63
Acenaphthylene	0.04	"	73
Acenaphthene	0.07	"	77
Fluorene	0.03	"	82
Phenanthrene	0.03	"	74
Anthracene	0.03	"	77
Fluoranthene	0.02	"	80
Pyrene	0.03	"	71
Benz(a)anthracene	0.02	"	84
Chrysene	0.03	"	82
Benzo(b)fluoranthene	0.04	"	76
Benzo(k)fluoranthene	0.04	"	95
Benzo(a)pyrene	0.05	"	87
Indeno(1,2,3-cd)pyrene	0.06	"	90
Dibenzo(ah)anthracene	0.04	"	96
Benzo(ghi)perylene	0.04	"	100
Surrogate Recoveries		%	
d5-Nitrobenzene			55
2-Fluorobiphenyl			65
d14-p-Terphenyl			81

Batch Code:	1120KHA2
PAH	059568 98
	059569 98
	059570 98
Date analysed	98/11/23
Date prepared	98/11/20

M. 59508

CHAIN OF CUSTODY



5555 North Service Road
Burlington, Ontario L7L 5H7

Toll Free: 1-800-668-0639
Tel: (905) 332-8788
Fax: (905) 332-9169

Page 1 of 1

ANALYSIS REQUESTED

CLIENT INFORMATION

Company Name: Philip
Project Manager: Mike Charles
Address: 75 Tonawanda St.
Buffalo, NY 14207
Phone #: (716) 871-0478 Fax #: 0413
Sampled by: _____

Total PAH

Level of contamination
(low, high, unknown)

Philip Use Only	Field Sample ID	# Bottles	Matrix	Date	Time													
69	P-8	1	Soil	11/18/98	0920	X	See Surveyor notes											250Ae
70	P-9	1	Soil	11/18/98	0927	X	for locations											11

TAT (Turnaround Time)
RUSH TAT MUST HAVE PRIOR APPROVAL
*some exceptions apply please contact Lab
STD 5-10 Business Days
RUSH 2
2-3 Business Days*
RUSH 1
1 Business Day*
*surcharge applies

PROJECT INFORMATION
Project #: 1955
Site: Scag's Creek - NPG
PO#: 3361
Philip Quote #: 807033865
Philip Project #: _____
Philip Contact: _____

SPECIAL DETECTION LIMITS
MISA
SPECIAL REQUIREMENTS / REGULATIONS

REMARKS Sample # P-8 is a 5 point composite sample of the cap south of the RR Bridge.
Sample # P-9 is a 5 point composite sample of the cap North of the RR Bridge.

Client Signature: _____
Affiliation: Philip
Date/Time: 11/18/98

Received By: _____
Affiliation: _____
Date/Time: 11-18-98 9:50

Rec'd By: _____
Date/Time: _____



Certificate of Analysis

CLIENT INFORMATION

Attention: Mike Charles
Client Name: Philip Service Corp.
Project: 19545/1955
Project Desc: Scajaquada Creek/NFG

Address: 495 Commerce Dr.
Suite 7
Amherst, NY
14228

Fax Number: 716-871-0413

Phone Number: 716 871 0478

LABORATORY INFORMATION

Contact: Ada Blythe, B.Sc., C.Chem.
Project: AN980884
Date Received: 98/11/25
Date Reported: 98/12/07


Submission No.: 8K0936
Sample No.: 061547-061550

NOTES: "–" = not analysed '<' = less than Method Detection Limit (MDL) 'NA' = no data available
LOQ can be determined for all analytes by multiplying the appropriate MDL X 3.33
Solids data is based on dry weight except for biota analyses.
Organic analyses are not corrected for extraction recovery standards except for isotope dilution methods, (i.e. CARB 429 PAH, all PCDD/F and DBD/DBF analyses)

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COMMENTS:

Certified by: 



PASC - Certificate of Analysis

Component	MDL	Units	Method	Blank	% Recovery	Blank Spike	% Recovery	P-10	P-11	P-12	P-12
			Blank	Spike		Duplicate					
<i>Client ID:</i>											
<i>Lab No.:</i>			061547 98	061547 98	061547 98	061547 98	061547 98	061548 98	061549 98	061550 98	061550 98
<i>Date Sampled:</i>			98/11/24	98/11/24	98/11/24	98/11/24	98/11/24	98/11/24	98/11/24	98/11/24	98/11/24
PAH via SW846 Method 8270											
Naphthalene	0.03	mg/kg	<	1.2	60	1.1	54	0.040	0.070	<	1.4
Acenaphthylene	0.04	"	<	1.4	71	1.3	67	<	<	<	1.5
Acenaphthene	0.07	"	<	1.4	72	1.4	69	<	0.08	<	1.5
Fluorene	0.03	"	<	1.5	73	1.4	70	0.03	0.09	<	1.6
Phenanthrene	0.03	"	<	1.6	79	1.6	78	0.19	0.71	0.08	1.7
Anthracene	0.03	"	<	1.6	78	1.5	77	0.06	0.19	<	1.6
Fluoranthene	0.02	"	<	1.7	83	1.6	79	0.25	0.92	0.06	1.7
Pyrene	0.03	"	<	1.7	84	1.6	82	0.39	1.0	0.06	1.7
Benz(a)anthracene	0.02	"	<	1.7	84	1.7	83	0.16	0.52	0.03	1.8
Chrysene	0.03	"	<	1.7	85	1.7	84	0.17	0.55	0.06	1.8
Benzo(b)fluoranthene	0.04	"	<	1.8	92	1.8	92	0.11	0.40	<	1.8
Benzo(k)fluoranthene	0.04	"	<	1.8	89	1.8	90	0.11	0.48	<	1.9
Benzo(a)pyrene	0.05	"	<	1.8	88	1.7	85	0.15	0.54	<	1.8
Indeno(1,2,3-cd)pyrene	0.06	"	<	1.6	79	1.4	69	0.07	0.31	<	1.8
Dibenzo(ah)anthracene	0.04	"	<	1.5	77	1.4	69	<	<	<	1.8
Benzo(ghi)perylene	0.04	"	<	1.5	76	1.3	67	0.06	0.25	<	1.7
Surrogate Recoveries		%									
d5-Nitrobenzene			54	59	59	52	52	61	50	63	71
2-Fluorobiphenyl			63	68	68	63	63	69	62	70	74
d14-p-Terphenyl			87	82	82	80	80	77	85	81	87

PASC - Certificate of Analysis

Component	MDL	Units	MS % Rec.	MS Dup	MSD % Rec.
<i>PAH via SW846 Method 8270</i>					
Naphthalene	0.03	mg/kg	71	1.1	52
Acenaphthylene	0.04	"	76	1.2	58
Acenaphthene	0.07	"	77	1.2	59
Fluorene	0.03	"	77	1.3	61
Phenanthrene	0.03	"	81	1.5	65
Anthracene	0.03	"	79	1.4	65
Fluoranthene	0.02	"	82	1.5	68
Pyrene	0.03	"	84	1.5	70
Benz(a)anthracene	0.02	"	86	1.6	72
Chrysene	0.03	"	86	1.6	74
Benzo(b)fluoranthene	0.04	"	89	1.8	85
Benzo(k)fluoranthene	0.04	"	92	1.8	84
Benzo(a)pyrene	0.05	"	89	1.8	83
Indeno(1,2,3-cd)pyrene	0.06	"	89	1.5	73
Dibenzo(ah)anthracene	0.04	"	88	1.5	72
Benzo(ghi)perylene	0.04	"	87	1.5	72
Surrogate Recoveries		%			
d5-Nitrobenzene			71	51	51
2-Fluorobiphenyl			74	54	54
d14-p-Terphenyl			87	67	67

Batch Code:	1126KHA2
PAH	061547 98
	061548 98
	061549 98
	061550 98
Date analysed	98/11/30
Date prepared	98/11/26

CHAIN OF CUSTODY



5555 North Service Road
Burlington, Ontario L7L 5H7

Toll Free: 1-800-668-0639
Tel: (905) 332-8788
Fax: (905) 332-9169

Page 1 of 1

ANALYSIS REQUESTED

CLIENT INFORMATION

Company Name: Philip
Project Manager: Mike Charles
Address: 75 Tonawanda St.
Buffalo, NY
Phone #: (716) 871-0478 Fax #: 0413
Sampled by: Mike Charles

Total PAH

Level of contamination (low, high, unknown)

Philip Use Only	Field Sample ID	# Bottles	Matrix	Date	Time								
	P-10	1	Soil	11/24/98	0830	X	Station 6+00	composite					
	P-11	1	Soil	11/24/98	0833	X	Station 7+00	composite					
	P-12	1	Soil	11/24/98	0835	X	Station 8+00	composite					

TAT (Turnaround Time)
RUSH TAT MUST HAVE PRIOR APPROVAL
**some exceptions apply please contact Lab*
 STD 5-10 Business Days
 RUSH 2 2-3 Business Days*
 RUSH 1 1 Business Day*
**surcharge applies*

PROJECT INFORMATION
 Project #: 1955
 Site: Scaj. Creek - NFG
 PO#: 3361
 Philip Quote #: 807033865
 Philip Project #: _____
 Philip Contact: Ada

SPECIAL DETECTION LIMITS
 MISA
SPECIAL REQUIREMENTS / REGULATIONS

REMARKS post flooding samples

Client Signature: [Signature]
 Affiliation: Philip
 Date/Time: _____

Received By: [Signature]
 Affiliation: _____
 Date/Time: 11-25-98 10:10

Rec'd By: _____
 Date/Time: _____



#19

Certificate of Analysis

CLIENT INFORMATION

Attention: Mike Charles
Client Name: Philip Service Corp.
Project: 19545/1955
Project Desc: Scajaquada Creek/NFG

Address: 495 Commerce Dr.
Suite 7
Amherst, NY
14228

Fax Number: 716-871-0413
Phone Number: 716 871 0478

LABORATORY INFORMATION

Contact: Ada Blythe, B.Sc., C.Chem.
Project: AN980884
Date Received: 98/11/30
Date Reported: 98/12/02

Submission No.: 8K1050
Sample No.: 062255

NOTES:

'-' = not analysed ' $<$ ' = less than Method Detection Limit (MDL) 'NA' = no data available
LOQ can be determined for all analytes by multiplying the appropriate MDL X 3.33
Solids data is based on dry weights except for biota analyses.
Organic analyses are not corrected for extraction recovery standards except for isotope dilution methods, (i.e. CARB 429 PAH, all PCDD/F and DBD/DBF analyses)

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COMMENTS:

Samples were extracted on 98/11/30 and analysed on 98/12/01

Certified by:

Page 1



Client ID: NFS-19
Lab No.: 062255 98
Date Sampled: 98/11/28

Component	MDL	Units
pH after 3.5 ml of 1N HCl addition		NA
pH after extraction (semi-vols/metals)		NA
pH after extraction (volatiles)		6.42
pH initial (5g + 96.5ml water)		NA
pH of extraction fluid (semi-vols/metals)		NA
pH of extraction fluid (volatiles)		4.98

PASC - Certificate of Analysis

	Method	NFS-19
<i>Client ID:</i>	Blank TCLP	TCLP
<i>Lab No.:</i>	062254 98	062256 98
<i>Date Sampled:</i>	98/12/01	98/12/01
Component	MDL	Units
<i>TCLP Benzene via SW846 Method 8260</i>		
Benzene	0.5	ug/L
Surrogate Recoveries		%
d4-1,2-Dichloroethane	97	102
d8-Toluene	101	94
1,4-Bromofluorobenzene	104	103

Client: Philip Service Corp. Project: 19545/1955



#20

REC'D 12/5/98
0800

Certificate of Analysis

CLIENT INFORMATION

Attention: Mike Charles
Client Name: Philip Service Corp.
Project: 19545/1955
Project Desc: Scajaquada Creek/NFG

Address: 495 Commerce Dr.
Suite 7
Amherst, NY
14228

Fax Number: 716-871-0413
Phone Number: 716 871 0478

LABORATORY INFORMATION

Contact: Ada Blythe, B.Sc., C.Chem.
Project: AN980884
Date Received: 98/12/03
Date Reported: 98/12/04

Submission No.: 8L0110
Sample No.: 062921-062923

NOTES:

'-' = not analysed '<' = less than Method Detection Limit (MDL) 'NA' = no data available
LOQ can be determined for all analytes by multiplying the appropriate MDL X 3.33
Solids data is based on dry weight except for biota analyses.
Organic analyses are not corrected for extraction recovery standards except for isotopic dilution methods, (i.e. CARB 419 PAH, all PCDD/F and DED/DEF analyses)

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COMMENTS:

Certified by:



	Method	Blank	% Recovery	NFS
<i>Client ID:</i>	Blank	Spike		20-Leachate
<i>Lab No.:</i>	062921 98	062921 98	062921 98	062923 98
<i>Date Sampled:</i>	98/12/03	98/12/03	98/12/03	
Component	MDL	Units		
<i>TCLP Benzene via SW846 Method 8260</i>				
Benzene	0.5	ug/L	<5.0	540
Surrogate Recoveries		%	110	110
d4-1,2-Dichloroethane			106	110
d8-Toluene			102	97
1,4-Bromofluorobenzene			94	107



#21

Certificate of Analysis

CLIENT INFORMATION

Attention: Mike Charles
Client Name: Philip Service Corp.
Project: 19545/1955
Project Desc: Scajaquada Creek/NFG

Address: 495 Commerce Dr.
 Suite 7
 Amherst, NY
 14228

Fax Number: 716-871-0413
Phone Number: 716 871 0478

LABORATORY INFORMATION

Contact: Ada Blythe, B.Sc., C.Chem.
Project: AN980884
Date Received: 98/12/07
Date Reported: 98/12/08

Submission No.: 8L0186
Sample No.: 063406-063408

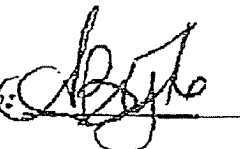
NOTES:

'-' = not analysed 'L' = less than Method Detection Limit (MDL) 'NA' = no data available
LOQ can be determined for all analyses by multiplying the appropriate MDL X 3.33
Solids data is based on dry weight except for biota analyses.
Organic analyses are not corrected for extraction recovery standards except for isotope dilution methods, (i.e. CARB 429 PAH, all PCDD/F and DED/DBF analyses)

Methods used by PASC are based upon those found in 'Standard Methods for the Examination of Water and Wastewater', Nineteenth Edition. Other methods are based on the principles of MISA or EPA methodologies. New York State: ELAP Identification Number 10756.

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COMMENTS:

Certified by: 



PASC - Certificate of Analysis

	Method	Blank	% Recovery	NFS
<i>Client ID:</i>	Blank	Spike		21-TCLP
<i>Lab No.:</i>	063406 98	063406 98	063406 98	063408 98
<i>Date Sampled:</i>	98/12/07	98/12/07	98/12/07	98/12/08
Component	MDL	Units		
<i>TCLP Benzene via SW846 Method 8260</i>				
Benzene	0.5	ug/L	<5.0	460 92 1000
Surrogate Recoveries		%		
d4-1,2-Dichloroethane	100		109	109 99
d8-Toluene	118		116	116 108
1,4-Bromofluorobenzene	102		118	118 111

PASC - Summary of Analysis Pre. Dates

Batch Code:	1208SM01
Benzene	063406 98
	063408 98
Date analysed	98/12/08
Date prepared	98/12/08

Client: Philip Service Corp. Project: 19545/1955



#22

rec'd
12/16/98
0730
sw

Certificate of Analysis

CLIENT INFORMATION

Attention: Mike Charles
Client Name: Phillip Service Corp.
Project: 19545/1955
Project Desc: Scajaquada Creek/NFG

Address: 495 Commerce Dr.
Suite 7
Amherst, NY
14228

Fax Number: 716-871-0413
Phone Number: 716 871 0478

LABORATORY INFORMATION

Contact: Ada Blythe, B.Sc., C.Chem.
Project: AN980884
Date Received: 98/12/14
Date Reported: 98/12/15

Submission No.: 8L0399
Sample No.: 064720-064724

NOTES:

'-' = not analyzed '<' = less than Method Detection Limit (MDL) 'NA' = no data available
LOQ can be determined for all analytes by multiplying the appropriate MDL X 3.33
Solid data is based on dry weight except for biota analyses.
Organic analyses are not corrected for extraction recovery standards except for isotope dilution methods, (i.e. CARB 429 PAH, all PCDD/F and DBD/DBF analyses)

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COMMENTS:

Certified by: 

Page 1



Client ID: NFS-22
Lab No.: 064721 98
Date Sampled: 98/12/14

Component	MDL	Units
pH after 3.5 ml of 1N HCl addition		NA
pH after extraction (semi-vols/metals)		NA
pH after extraction (volatiles)		6.27
pH initial (Sg + 96.5ml water)		NA
pH of extraction fluid (semi-vols/metals)		NA
pH of extraction fluid (volatiles)		4.98

Component	MDL	Units	Method	Blank	% Recovery	NFS-22
			Blank TCLP	Spike		TCLP
			064720 98	064720 98	064720 98	064722 98
			98/12/15	98/12/15	98/12/15	98/12/15
TCLP Benzene	0.5	ug/L	<5.0	560	110	850
Surrogate Recoveries		%				
d4-1,2-Dichloroethane			94	93	93	97
d8-Toluene			98	98	98	98
1,4-Bromofluorobenzene			93	105	105	99

Client: Philip Service Corp. Project: 19545/1955



rec'd 12/21/98
1640

Certificate of Analysis

CLIENT INFORMATION

Attention: Mike Charles
Client Name: Philip Service Corp.
Project: 19545/1955
Project Desc: Scajaquada Creek/NFG

Address: 495 Commerce Dr.
Suite 7
Amherst, NY
14228

Fax Number: 716-871-0413
Phone Number: 716 871 0478

LABORATORY INFORMATION

Contact: Ada Blythe, B.Sc., C.Chem.
Project: AN980884
Date Received: 98/12/18
Date Reported: 98/12/21

Submission No.: 8L0589
Sample No.: 065804-065806

NOTES:

'-' = not analyzed '<' = less than Method Detection Limit (MDL) 'NA' = no data available
LOQ can be determined for all analyses by multiplying the appropriate MDL X 3.33
Solids data is based on dry weight except for biota analyses.
Organic analyses are not corrected for extraction recovery standards except for isotope dilution methods, (i.e. CARB 429 PAH, all PCDD/F and DBD/DBF analyses)

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COMMENTS:

Sample was analysed 98/12/21

Certified by:

Page 1



Client ID: NFS-24
Lab No.: 065805 98
Date Sampled: 98/12/18

Component	MDL	Units
pH after 3.5 ml of 1N HCl addition		NA
pH after extraction (semi-vols/metals)		NA
pH after extraction (volatiles)		6.18
pH initial (5g + 96.5ml water)		NA
pH of extraction fluid (semi-vols/metals)		NA
pH of extraction fluid (volatiles)		4.98

Component	MDL	Units	Method Blank	Blank Spike	% Recovery	NFS 24-Leachate
<i>TCLP Benzene via SW846 Method 8260</i>						
Benzene	0.5	ug/L	<3.0	550	110	490
Surrogate Recoveries		%				
d4-1,2-Dichloroethane			87	88	88	86
d8-Toluene			97	96	96	95
1,4-Bromofluorobenzene			93	104	104	94



#23 I+AZ

Rec'd 12/18/98
0700
SW

Certificate of Analysis

CLIENT INFORMATION

Attention: Mike Charles
Client Name: Philip Service Corp.
Project: 19545/1955
Project Desc: Scajaquada Creek/NFG

Address: 495 Commerce Dr.
Suite 7
Amherst, NY
14228

Fax Number: 716-871-0413
Phone Number: 716 871 0478

LABORATORY INFORMATION

Contact: Ada Blythe, B.Sc., C.Chem.
Project: AN980884
Date Received: 98/12/16
Date Reported: 98/12/18

Submission No.: 8L0463
Sample No.: 065085-065087

NOTES: '*'*' = not analysed '*'<*' = less than Method Detection Limit (MDL) '*'NA'*' = no data available
LOQ can be determined for all analytes by multiplying the appropriate MDL X 3.33
Solids data is based on dry weight except for biota analyses.
Organic analyses are not corrected for extraction recovery standards except for isotope dilution methods. (i.e. CARB 429 PAH, all PCDD/F and DBD/DBF analyses)

Methods used by PASC are based upon those found in 'Standard Methods for the Examination of Water and Wastewater', Nineteenth Edition. Other methods are based on the principles of MISA or EPA methodologies. New York State; ELAP Identification Number 10755.

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COMMENTS:

Certified by:

Page 1



PASC - Certificate of Analysis

	Method	Blank	% Recovery	NFS
<i>Client ID:</i>	Blank	Spike		23-Leachate
<i>Lab No.:</i>	065085 98	065085 98	065085 98	065087 98
<i>Date Sampled:</i>	98/12/16	98/12/16	98/12/16	
Component	MDL	Units		
<i>TCLP Benzene via SW846 Method 8260</i>				
Benzene	0.5	ug/L	<5.0	540
Surrogate Recoveries		%		110
d4-1,2-Dichloroethane			83	90
d8-Toluene			91	85
1,4-Bromofluorobenzene			101	108

12/18/98

PASC - Summary of Analysis Pre. Dates

Page MS-3 of 3

Batch Code:	1217SM01
Benzene	065085 98
	065087 98
Date analysed	98/12/17
Date prepared	98/12/17

Client: Philip Service Corp. Project: 19545/1955

** TOTAL PAGE. 03 **



1001 W. Seneca Street, Suite 204
 Ithaca, NY 14850
 (607) 277-5716
 Fax (607) 277-9057

CHAIN OF CUSTODY RECORD 0796

PROJECT NAME: *Scaj Creek* PROJECT NUMBER: *3-2111-650*

SEND REPORT TO: *Mark Hoffert* SAMPLER (PRINT NAME) *David*

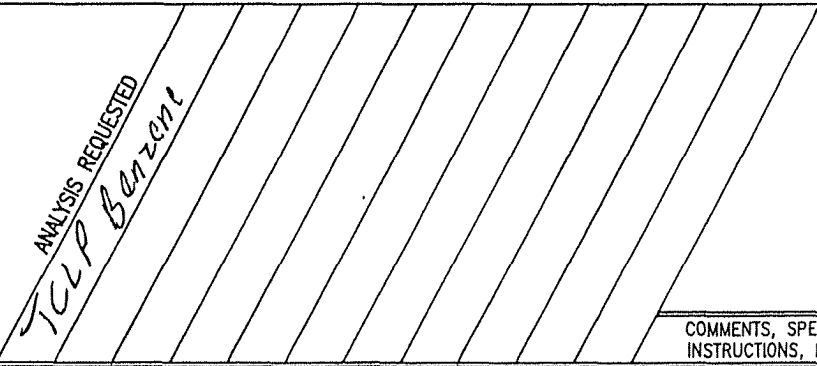
ADDRESS: *RETEC* SAMPLER (PRINT NAME) *Yudikaitis*

1001 W. Seneca St SHIPMENT METHOD: *Fedex*

Ithaca NY 14850 AIRBILL NUMBER: *535091251*

PHONE: *607 277 5716* LABORATORY RECEIVING: *Galson*

FAX: *607 277 9057*



FIELD SAMPLE ID	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	NUMBER OF CONTAINERS	COMMENTS, SPECIAL INSTRUCTIONS, ETC.	LAB SAMPLE ID (to be completed by lab)
<i>Pile 24</i>	<i>12/21/98</i>	<i>17:00</i>	<i>Soil</i>	<i>1</i>	<i>RUSH</i>	
					<i>Remediation Technologies, In L47909-1 12/22/98 Leachate PILE 24</i>	

Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>Fedex</i>	Date: <i>12/21/98</i>	Time: <i>18:30</i>	SAMPLE CUSTODIAN REMARKS (COMPLETED BY LABORATORY): QA/QC LEVEL LEVEL I <input type="checkbox"/> LEVEL II <input type="checkbox"/> LEVEL III <input type="checkbox"/> OTHER <input type="checkbox"/>	TURNAROUND: ROUTINE <input type="checkbox"/> 24 HOUR <input checked="" type="checkbox"/> 1 WEEK <input type="checkbox"/> OTHER <i>Best Possible</i>	SAMPLE RECEIPT	
Relinquished by: (Signature)	Received by: (Signature) <i>[Signature]</i>	Date: <i>12-22-98</i>	Time: <i>1045</i>			TOTAL # CONTAINERS RECEIVED ?	<i>1</i>
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:			COC SEALS PRESENT ?	<i>YES</i>
						COC SEALS INTACT ?	<i>YES</i>
						RECEIVED CONTAINERS INTACT ?	<i>YES</i>
						TEMPERATURE ?	<i>4°C TG</i>

VOLATILE ANALYTICAL REPORT



Galson
Laboratories

Client : Remediation Technologies, Inc.
Account # : 12013
Site : SCAJAQUADA

Date Received : 22-DEC-98
Date Sampled : 21-DEC-98

Matrix : Leachate
Method : SW846/1311/8260B-TCLP
Units : UG/L

Galson ID: L47909-1 QCB122398-1TP
Client ID: PILE 24 TCLP Method Blank

Benzene	440	<50
Dilution Factor	10	10
Analysis Date	12/23/98	12/23/98

Approved by : PJT
Date : 23-DEC-98
QC by : *EM*
Date : *12/23/98*
NYS DOH # : 11626
Footnotes:



LEACHATE VOLATILE SURROGATE RECOVERY

Client : Remediation Technologies, Inc.

Login # : L47909

SAMPLE NO. =====	SMC1 (DCE) # =====	SMC2 () # =====	SMC3 () # =====	OTHER =====	TOT OUT =====
TCLP Method Blank	106			BB1223	0
PILE 24	76			BB1223	0

SMC1 (DCE) = 1,2-Dichloroethane-d4

QC LIMITS (58-134)

- # Column to be used to flag recovery values
- * Values outside of QC limits
- D Surrogate diluted out



REMEDIAION TECHNOLOGIES
 1001 W. Seneca Street, Suite 204
 Ithaca, NY 14850
 (607) 277-5716
 Fax (607) 277-9057

CHAIN OF CUSTODY RECORD 0797

PROJECT NAME:	PROJECT NUMBER: 3-2111-600
SEND REPORT TO: Mark Hoffarth	SAMPLER (PRINT NAME) Dave
ADDRESS: Thomas Rotea	SAMPLER (PRINT NAME) Yedikaitis
1001 W. Seneca St	SHIPMENT METHOD: Fedex
Ithaca, NY 14850	AIRBILL NUMBER: 80957487474
PHONE: 607 277 5716	LABORATORY RECEIVING: Galson Lab
FAX: 607 277 9057	

ANALYSIS REQUESTED
TCLP Benzenc

FIELD SAMPLE ID	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	NUMBER OF CONTAINERS	COMMENTS, SPECIAL INSTRUCTIONS, ETC.	LAB SAMPLE ID (to be completed by lab)
Pile 25	12/22/98	12:00	501	1	ogies, In L47973-1 PILE 25	RUSH

Relinquished by: (Signature) <i>David [Signature]</i>	Received by: (Signature) <i>Fedex</i>	Date: 12/22/98	Time:	SAMPLE CUSTODIAN REMARKS (COMPLETED BY LABORATORY):
Relinquished by: (Signature)	Received by: (Signature) <i>[Signature]</i>	Date: 12/24/98	Time: 1115	
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:	

SAMPLE RECEIPT	
TOTAL # CONTAINERS RECEIVED ?	1
COC SEALS PRESENT ?	yes
COC SEALS INTACT ?	yes
RECEIVED CONTAINERS INTACT ?	yes
TEMPERATURE ?	22°C

VOLATILE ANALYTICAL REPORT



Client : Remediation Technologies, Inc.
 Account # : 12013
 Site : 3-2111-600

Date Received : 24-DEC-98
 Date Sampled : 22-DEC-98

Matrix : Leachate
 Method : SW846/1311/8260-TCLP
 Units : UG/L

Galson ID: Client ID:	L47973-1 PILE 25	QCC122998-2 Method Blank	QCC122998-2TP TCLP Blank
Benzene	450	<50	<50
Dilution Factor	10	10	10
Analysis Date	12/29/98	12/29/98	12/29/98

Approved by : PJT
 Date : 30-DEC-98
 QC by : *[Signature]*
 Date : 12/30/98
 NYS DOH # : 11626
 Footnotes:



LEACHATE VOLATILE SURROGATE RECOVERY

Client : Remediation Technologies, Inc.

Login # : L47973

SAMPLE NO. =====	SMC1 (DCE) # =====	SMC2 () # =====	SMC3 () # =====	OTHER =====	TOT OUT =====
Method Blank-QCC122998-2	102			CB1229	0
PILE 25	106			CB1229	0
TCLP Blank	103			CB1229	0

SMC1 (DCE) = 1,2-Dichloroethane-d4 QC LIMITS
(58-134)

- # Column to be used to flag recovery values
- * Values outside of QC limits
- D Surrogate diluted out



#25

Certificate of Analysis

CLIENT INFORMATION

Attention: Mike Charles
 Client Name: Philip Service Corp.
 Project: 19545/1955
 Project Desc: Scajaquada Creek/NFG

Address: 495 Commerce Dr.
 Suite 7
 Amherst, NY
 14228

Fax Number: 716-871-0413
 Phone Number: 716 871 0478

LABORATORY INFORMATION

Contact: Ada Blythe, B.Sc., C.Chem.
 Project: AN980884
 Date Received: 98/12/23
 Date Reported: 98/12/24

Submission No.: 8L0700
 Sample No.: 066496-066498

NOTES:

'-' = not analysed '<' = less than Method Detection Limit (MDL) 'NA' = no data available
 LOQ can be determined for all analytes by multiplying the appropriate MDL X 3.33
 Solids data is based on dry weight except for blots analyses.
 Organic analyses are not corrected for extraction recovery standards except for isotopic
 dilution methods, (i.e. CARB 429 PAH, all PCDD/F and DRE/DBF analyses)

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COMMENTS:

Certified by:

Page 1



PASC - Certificate of Analysis

Client ID: NFS-25
Lab No.: 066497 98
Date Sampled: 98/12/21

Component	MDL	Units
pH after 3.5 ml of 1N HCl addition		NA
pH after extraction (semi-vols/metals)		NA
pH after extraction (volatiles)		6.44
pH initial (5g + 96.5ml water)		NA
pH of extraction fluid (semi-vols/metals)		NA
pH of extraction fluid (volatiles)		4.98

PASC - Certificate of Analysis

Component	MDL	Units	Method	Blank	% Recovery	NFS
			Blank	Spike		25-Leachate
			066496 98	066496 98	066496 98	066498 98
<i>Client ID:</i>						
<i>Lab No.:</i>						
<i>Date Sampled:</i>						
TCLP Benzene via SW846 Method 8260	0.5	ug/L	<5.0	570	110	790
Surrogate Recoveries		%				
d4-1,2-Dichloroethane			103	108	108	89
d8-Toluene			104	102	102	93
1,4-Bromofluorobenzene			94	104	104	97



#26
REC'D. 1/6/96 9:00 AM

Certificate of Analysis

CLIENT INFORMATION

Attention: Mike Charles
Client Name: Philip Service Corp.
Project: 19545/1955
Project Desc: Sojaquada Creek/NEG

Address: 495 Commerce Dr.
Suite 7
Amherst, NY
14228

Fax Number: 716-871-0413
Phone Number: 716 871 0478

LABORATORY INFORMATION

Contact: Ada Blythe, B.Sc., C.Chem.
Project: AN980884
Date Received: 98/12/31
Date Reported: 99/01/05


Submission No.: 8L0835
Sample No.: 067146-067148

NOTES: 'L' = not analysed 'c' = less than Method Detection Limit (MDL) 'NA' = no data available
LOQ can be determined for all analytes by multiplying the appropriate MDL X 3.33
Solids data is based on dry weight except for hata analyses.
Organic analyses are not corrected for extraction recovery standards except for isotope dilution methods, (i.e. CARB 429 PAH, all PCDD/F and DBD/DBF analyses)

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COMMENTS:

Certified by: 



Client ID: NFS-26
Lab No.: 057147 98
Date Sampled: 98/12/31

Component	MDL	Units
pH after 3.5 ml of 1N HCl addition		NA
pH after extraction (semi-vols/metals)		NA
pH after extraction (volatiles)		6.32
pH initial (5g + 96.5ml water)		NA
pH of extraction fluid (semi-vols/metals)		NA
pH of extraction fluid (volatiles)		4.98

Component	Method		Blank	% Recovery	
	MDL	Units	Spike	067146 98	98/12/31
<i>TCLP Benzene via SW846 Method 8260</i>	0.5	ug/L	490		99
Surrogate Recoveries		%			
d4-1,2-Dichloroethane			86	91	91
d8-Toluene			91	85	85
1,4-Bromofluorobenzene			99	111	111

Component	NFS		
	Client ID:	26-Leachate	
	Lab No.:	067148 98	
	Date Sampled:		
Component	NDBL	Units	
TCLP Benzene via SW846 Method 8260	0.5	ug/L	590
Surrogate Recoveries		%	
d4-1,2-Dichloroethane			92
d8-Toluene			88
1,4-Bromofluorobenzene			102

Batch Code:	0105SR01
Benzene	067146 98
	067146 98
Date analysed	99/01/05
Date prepared	99/01/05

Client: Philip Service Corp. Project: 19545/1955



Received
1/26/99
DMS

Certificate of Analysis

CLIENT INFORMATION

Attention: Mike Charles
Client Name: Philip Service Corp.
Project: 19545/1955
Project Desc: Scajaquada Creek/NFG

Address: 495 Commerce Dr.
Suite 7
Amherst, NY
14228

Fax Number: 716-871-0413
Phone Number: 716 871 0478

LABORATORY INFORMATION

Contact: Ada Blythe, B.Sc., C.Chem.
Project: AN980884
Date Received: 99/01/16
Date Reported: 99/01/22


Submission No.: 9A0271
Sample No.: 001312-001318

NOTES: '*'*' = not analysed '*'<*' = less than Method Detection Limit (MDL) '*'NA'*' = no data available
LOQ can be determined for all analytes by multiplying the appropriate MDL X 3.33
Solids data is based on dry weight except for biota analyses.
Organic analyses are not corrected for extraction recovery standards except for isotope dilution methods, (i.e. CARB 429 PAH, all PCDD/F and DBD/DBF analyses)

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COMMENTS:

Certified by: 



PASC - Certificate of Analysis

	<i>Client ID:</i>	B-1	B-2	B-3	
	<i>Lab No.:</i>	001313 99	001315 99	001317 99	
	<i>Date Sampled:</i>	99/01/16	99/01/16	99/01/16	
Component	MDL	Units			
Final volume of leachate	1	ml	1000	1000	1000
Moisture	0.1	(%)	12	11	16
Volume acetic acid used	0.0	ml	200	200	200
Weight of sample	0.1	g	57	56	59
pH final			6.08	5.97	5.92
pH 1 hour			NA	NA	NA
pH 3 hour			NA	NA	NA
pH 6 hour			NA	NA	NA
pH 22 hour			NA	NA	NA
pH initial			10.94	11.05	11.12

PASC - Certificate of Analysis

Component	MDL	Units	Method	Blank	% Recovery	B-1	B-2	B-3
			Blank	Spike		Leachate	Leachate	Leachate
			001312 99	001312 99	001312 99	001314 99	001316 99	001318 99
			99/01/18	99/01/18	99/01/18	99/01/18	99/01/18	99/01/18
Client ID:								
Lab No.:								
Date Sampled:								
Mercury	0.0005	mg/L	<	-	-	<	<	<
Arsenic	0.020	mg/L	<	0.59	110	0.16	0.040	0.044
Barium	0.010	"	<	1.2	110	1.2	1.4	1.6
Boron	0.050	"	<	1.2	110	0.15	0.14	0.15
Cadmium	0.002	"	0.003	0.57	100	<	0.013	0.004
Chromium	0.005	"	<	1.2	110	0.007	0.008	0.006
Lead	0.020	"	<	1.2	110	0.099	0.18	0.17
Selenium	0.060	"	<	0.58	110	<	<	<
Silver	0.010	"	<	0.59	110	<	<	<
Benzo(a)pyrene	0.010	ug/L	<0.020	0.31	77	<0.020	<0.020	<0.020
Surrogate Recoveries		%						
Anthracene-2H10			84	93	93	57	57	60
Chrysene-2H12			90	100	100	85	94	88
Benzo(a)pyrene-2H12			84	92	92	84	89	88



Rec'd 12/14/99
#27

Certificate of Analysis

CLIENT INFORMATION

Attention: Mike Charles
Client Name: Philip Service Corp.
Project: 19545/1955
Project Desc: Scajaquada Creek/NFG

Address: 495 Commerce Dr.
Suite 7
Amherst, NY
14228

Fax Number: 716-871-0413
Phone Number: 716 871 0478

LABORATORY INFORMATION

Contact: Ada Blythe, B.Sc., C.Chem.
Project: AN980884
Date Received: 99/01/12
Date Reported: 99/01/13

Submission No.: 9A0168
Sample No.: 000868

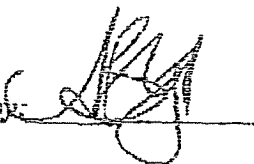
NOTES:

'-' = not analyzed ' <' = less than Method Detection Limit (MDL) 'NA' = no data available
LOQ can be determined for all analytes by multiplying the appropriate MDL X 3.33
Solids data is based on dry weight except for biota analyses.
Organic analyses are not corrected for extraction recovery standards except for lactone
dilution methods. (i.e. CARB 429 PAH, all PCDD/F and DBP/DBF analyses)

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COMMENTS:

Certified by: 



Client ID: NFS-27
Lab No.: 000867 99
Date Sampled: 95/12/01

Component	MDL	Units
pH after 3.5 ml of 1N HCl addition		NA
pH after extraction (semi-voils/metals)		NA
pH after extraction (volatiles)		6.26
pH initial (5g + 96.5ml water)		NA
pH of extraction fluid (semi-voils/metals)		NA
pH of extraction fluid (volatiles)		4.98

NFS

Client ID: 27-Leachate

Lab No.: 000368 99

Date Sampled:

Component	MDL	Units	
<i>TCLP Benzene via SW846 Method 8260</i>			
Benzene	0.5	ug/L	540
Surrogate Recoveries		%	
d4-1,2-Dichloroethane			104
d8-Toluene			100
1,4-Bromofluorobenzene			94

Batch Code: 0723SM01
 Volatiles 033659 98
 033660 98
 033661 98
 033662 98
 033663 98
 033664 98
 Date analysed 98/07/23
 Date prepared 98/07/23

Batch Code: 0721LR01
 Semi-Volatiles 033659 98
 033660 98
 033661 98
 033662 98
 033663 98
 033664 98
 Date analysed 98/07/23
 Date prepared 98/07/21

Client: PetroChem-SC Project: 70048



Certificate of Analysis

CLIENT INFORMATION

Attention: Mike Charles
 Client Name: Philip Service Corp.
 Project: 19545/1955
 Project Desc: Scajaquada Creek/NFG

Address: 495 Commerce Dr.
 Suite 7
 Amherst, NY
 14228

Fax Number: 716-871-0413
 Phone Number: 716 871 0478

LABORATORY INFORMATION

Contact: Ada Blythe, B.Sc., C.Chem.
 Project: AN980884
 Date Received: 99/01/21
 Date Reported: 99/01/28


Submission No.: 9A0393
 Sample No.: 002212-002218

NOTES: 'N' = not analysed 'C' = less than Method Detection Limit (MDL) 'NA' = no data available
 LOQ can be determined for all analytes by multiplying the appropriate MDL X 3.33
 Solids data is based on dry weight except for biota analyses.
 Organic analyses are not corrected for extraction recovery standards except for isotope
 dilution methods. (i.e. CARB 429 PAH, all PCDD/F and DBD/DBF analyses)

Methods used by PASC are based upon those found in 'Standard Methods for the Examination of Water and Wastewater', Nineteenth Edition. Other methods are based on the principles of MISA or EPA methodologies. New York State ELAP Identification Number 10756.

All work recorded herein has been done in accordance with normal professional standards using accepted testing methodologies, quality assurance and quality control procedures except where otherwise agreed to by the client and testing company in writing. Any and all use of these test results shall be limited to the actual cost of the pertinent analysis done. There is no other warranty expressed or implied. Your samples will be retained at PASC for a period of three weeks from receipt of data or as per contract.

COMMENTS:

Certified by: 

Page 1



Component	MDL	Units	Method	B	B	B
			Blank	4-Leachate	5-Leachate	6-Leachate
<i>Client ID:</i>						
<i>Lab No.:</i>			002212 99	002214 99	002216 99	002218 99
<i>Date Sampled:</i>			99/01/21			
<i>Reg. 347-Metals</i>						
Mercury	0.0002	mg/L	<	<	<	<
Arsenic	0.002	mg/L	<	0.032	<	<
Barium	0.005	"	<	1.2	0.99	1.0
Boron	0.005	"	<	0.15	0.13	0.13
Cadmium	0.001	"	<	0.001	<0.010	0.014
Chromium	0.01	"	<	<	<	<
Lead	0.005	"	<	<	<	0.17
Selenium	0.002	"	<	<	<	<
Silver	0.0001	"	<	<	<	<
<i>Reg. 347 Benzo(a)pyrene</i>						
Benzo(a)pyrene	0.010	ug/L	<	0.046	0.091	0.23
Surrogate Recoveries		%				
Benzo(a)pyrene-d12			85	78	81	91

Client: Philip Service Corp. Project: 19545/1955



recd 3/11/99 from M. Charles
"Composite of all MHP soils"

Certificate of Analysis

CLIENT INFORMATION

Attention: Mike Charles
Client Name: Philip Service Corp.
Project: 1955
Project Desc: Scataquada Creek

Address: 495 Commerce Dr.
Suite 7
Amherst, NY
14228
Fax Number: 716-871-0413
Phone Number: 716 871 0478

LABORATORY INFORMATION

Contact: Ada Blythe, B.Sc., C.Chem.
Project: AN980884
Date Received: 99/03/02
Date Reported: 99/03/09

Submission No.: 9C0053
Sample No.: 008264-008265

NOTES:

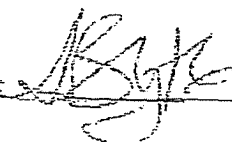
ND = not analyzed *<* = less than Method Detection Limit (MDL) *NA* = no data available
LOD can be determined for all analytes by multiplying the appropriate MDL X 3.33
Solids data is based on dry weight except for biota analyses.
Organic analyses are not corrected for extraction recovery standards except for isotope dilution methods (i.e. C12B-429 PAH, all PCDD/F and DED/DBF analyses)

Methods used by PASC are based upon those found in 'Standard Methods for the Examination of Water and Wastewater', Nineteenth Edition. Other methods are based on the principles of MMSA or EPA methodologies. New York State ELAP Identification Number 10756.

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COMMENTS:

(2) Presence of methylanthracene and other hydrocarbons (matrix interference).

Certified by: 

Page 1



Philip Analytical Services Corporation
Certificate of Analysis

	C-1	C-1
Client ID:	008265 99	008265 99
Lab No.:	99/03/02	99/03/02
Date Sampled:	99/03/02	99/03/02

Component:	MDL	Units	C-1	C-1
			Duplicate	Duplicate
PAH				
			20	20
Naphthalene	0.02	mg/kg	560	630
Acenaphthylene	0.02	"	22	20
Acenaphthene	0.01	"	300	380
Fluorene	0.01	"	130	120
Phenanthrene	0.01	"	550	510
Anthracene	0.01	"	140	140
Fluoranthene	0.01	"	140	150
Pyrene	0.02	"	300	290
Chrysene	0.01	"	77	77
Benzo(a)anthracene	0.01	"	86	85
Benzo(b+k+j)fluoranthene	0.04	"	70	75
Benzo(a)pyrene	0.01	"	82	85
Indeno(1,2,3-cd)pyrene	0.02	"	31	39
Dibenzo(ab)anthracene	0.02	"	7.1	10.0
1,2-Benzanthracene-7,12-Dimethyl	0.1	"	<1.5	<1.5
3-Methylcholanthrene	0.03	"	<0.60	<0.90
Dibenzo(a,h)pyrene	0.02	"	2.9	3.5
Benzo(a,i)pyrene	0.05	"	<5.0	<7.0
Dibenzo(a,l)pyrene	0.02	"	<0.30	<0.30
Benzo(c)phenanthrene	0.01	"	<20	<20
Benzo(ghi)perylene	0.02	"	33	40
<i>Surrigase Recoveries</i>		%		
d10-Fluorene	43-116	"	Dilution	Dilution
d10-Fluoranthene	36-125	"	Dilution	Dilution
d12-Benzo(a)pyrene	35-131	"	98	100

Client ID: C-1
 Lab No.: 008265 99
 Date Sampled: 99/03/02

Component	NDL	Units	
Metals			
Arsenic (gfaa)	0.5	mg/kg	7.3
Mercury	0.04	"	0.81
Selenium (gfaa)	0.5	"	0.9
Trace Metals			
Aluminum	3	mg/kg	9600
Barium	0.1	"	240
Beryllium	0.1	"	0.7
Cadmium	0.2	"	4.2
Calcium	20	"	25000
Chromium	0.4	"	51
Cobalt	1	"	8.0
Copper	0.6	"	190
Iron	1	"	20000
Lead	2	"	400
Magnesium	5	"	12000
Manganese	0.5	"	390
Molybdenum	1	"	2.0
Nickel	1	"	35
Phosphorus	6	"	680
Potassium	100	"	2400
Silver	1.0	"	<
Sodium	10	"	390
Thallium	6	"	<
Vanadium	0.5	"	21
Zinc	0.5	"	660

Client: Philip Service Corp. Project: 1955



Rec'd 2/20/99
at site
2:00pm

Certificate of Analysis

CLIENT INFORMATION

Attention: Mike Charles
Client Name: Philip Service Corp.
Project: 19545/1999
Project Desc: Scagsquada Creek/NFG

Address: 495 Commerce Dr.
Suite 7
Amherst, NY
14228

Fax Number: 716-871-0413
Phone Number: 716-871-0478

LABORATORY INFORMATION

Contact: Ada Blythe, B.Sc., C.Chem.
Project: AN980884
Date Received: 99/02/09
Date Reported: 99/02/19

Submission No.: 9B0244
Sample No.: 004923

NOTES:

'n' = not analyzed 'L' = less than Method Detection Limit (MDL) 'NA' = no data available

LOQ can be determined for all analytes by multiplying the appropriate MDL X 3.35

Solids data is based on dry weight except for bioa analyses.

Organic analyses are not corrected for extraction recovery standards except for isotope dilution methods. (i.e. CARB 429 PAH, all PCDD/F and DIB/DIBF analyses)

Methods used by PASC are based upon those found in Standard Methods for the Examination of Water and Wastewater, Nineteenth Edition. Other methods are based on the principles of MISA or EPA methodologies. New York State GLAP Identification Number 10786.

All work reported herein has been done in accordance with normal professional standards using accepted testing methodologies, quality assurance and quality control procedures except where otherwise agreed to by the client and testing company in writing. Any and all use of these test results shall be limited to the actual cost of the pertinent analysis done. There is no other warranty expressed or implied. Your samples will be retained at PASC for a period of three weeks from receipt of data or as per contract.

COMMENTS:

Certified by:

Page 1



Client ID: E-10
Lab No.: 004923 99
Date Sampled: 99/02/08

Component	BEEL	Units	
Final volume of leachate	1	ml	1000
Moisture	0.1	(%)	16
Volume acetic acid used	0.0	ml	200
Weight of sample	0.1	g	69
pH final			6.66
pH 1 hour			NA
pH 3 hour			NA
pH 6 hour			NA
pH 22 hour			NA
pH initial			11.86

2/19/99

PASC - Certificate of Analysis

Component	MDL	Units	Method	Blank	% Recovery	B-10	B-10	B-10	B-10
			Blank LEACH	Spike		Leachate	Leachate	Leachate	Leachate
	Client ID:		004922 99	004922 99	004922 99	004924 99	004924 99	004924 99	004924 99
	Lab No.:		99/02/10	99/02/10	99/02/10	99/02/10	99/02/10	99/02/10	99/02/10
	Date Sampled:								
						Duplicate	M. Spike	MS % Rec.	
Mercury	0.0005	mg/L	<	-	-	<	-	-	-
Arsenic	0.020	mg/L	<	0.53	97	0.11	0.11	0.56	99
Barium	0.010	"	<	1.1	100	0.85	0.85	2.0	100
Boron	0.050	"	<	1.1	100	0.14	0.13	1.2	97
Cadmium	0.002	"	<	0.54	98	<	0.003	0.52	93
Chromium	0.005	"	<	1.1	100	0.079	0.078	1.1	94
Lead	0.020	"	<	1.1	100	<	<	0.97	90
Selenium	0.060	"	<	0.52	93	<	<	0.64	120
Silver	0.010	"	<	0.56	100	<	<	0.50	92
Benzo(a)pyrene	0.010	ug/L	<0.020	0.25	68	<0.020	-	-	-
Surrogate Recoveries		%							
Anthracene-2H10			76	79	79	69	-	-	-
Chrysene-2H12			92	94	94	92	-	-	-
Benzo(a)pyrene-2H12			85	91	91	97	-	-	-

NA TOTAL PAGE 03 OF 03

Appendix C
Log of Offsite Shipments

NYSDEC Site # 91514B
August 30, 2000

APPENDIX C
LOG OF OFFSITE SHIPMENTS
Scajaquada Creek Remediation

DATE	MATERIAL	QUANTITY	SHIPPED TO	DESIGNATION	MANIFEST
08/26/1998	Sediments	105 tons	BFI & Modern landfills	Non - Hazardous	Bill of lading
08/28/1998	Sediments	405 tons	BFI & Modern landfills	Non - Hazardous	Bill of lading
08/31/1998	Sediments	225 tons	BFI & Modern landfills	Non - Hazardous	Bill of lading
09/02/1998	Sediments	465 tons	BFI & Modern landfills	Non - Hazardous	Bill of lading
09/03/1998	Sediments	60 tons	BFI & Modern landfills	Non - Hazardous	Bill of lading
09/09/1998	Sediments	240 tons	BFI & Modern landfills	Non - Hazardous	Bill of lading
09/10/1998	Sediments	30 tons	BFI & Modern landfills	Non - Hazardous	Bill of lading
09/18/1998	Sediments	420 tons	BFI & Modern landfills	Non - Hazardous	Bill of lading
09/25/1998	Sediments	300 tons	BFI & Modern landfills	Non - Hazardous	Bill of lading
09/28/1998	Sediments	300 tons	BFI & Modern landfills	Non - Hazardous	Bill of lading
09/29/1998	Sediments	180 tons	BFI & Modern landfills	Non - Hazardous	Bill of lading
09/30/1998	Sediments	135 tons	BFI & Modern landfills	Non - Hazardous	Bill of lading
10/01/1998	Sediments	390 tons	BFI & Modern landfills	Non - Hazardous	Bill of lading
10/09/1998	Sediments	45 tons	BFI & Modern landfills	Non - Hazardous	Bill of lading
10/12/1998	Sediments	540 tons	BFI & Modern landfills	Non - Hazardous	Bill of lading
10/13/1998	Sediments	30 tons	BFI & Modern landfills	Non - Hazardous	Bill of lading
10/21/1998	Sediments	735 tons	BFI & Modern landfills	Non - Hazardous	Bill of lading
10/22/1998	Sediments	540 tons	BFI & Modern landfills	Non - Hazardous	Bill of lading
10/23/1998	Rip rap	240 tons	Modern Landfill	Non - Hazardous	Bill of lading
10/23/1998	Sediments	90 tons	BFI & Modern landfills	Non - Hazardous	Bill of lading
10/24/1998	Sediments	495 tons	BFI & Modern landfills	Non - Hazardous	Bill of lading
10/26/1998	Rip rap	105 tons	Modern Landfill	Non - Hazardous	Bill of lading
10/26/1998	Sediments	600 tons	BFI & Modern landfills	Non - Hazardous	Bill of lading
10/27/1998	Rip rap	300 tons	Modern Landfill	Non - Hazardous	Bill of lading
10/27/1998	Sediments	345 tons	BFI & Modern landfills	Non - Hazardous	Bill of lading
10/29/1998	Rip rap	60 tons	Modern Landfill	Non - Hazardous	Bill of lading
10/29/1998	Sediments	780 tons	BFI & Modern landfills	Non - Hazardous	Bill of lading
10/30/1998	Sediments	420 tons	BFI & Modern landfills	Non - Hazardous	Bill of lading
11/03/1998	Sediments	270 tons	BFI & Modern landfills	Non - Hazardous	Bill of lading
11/04/1998	Sediments	690 tons	BFI & Modern landfills	Non - Hazardous	Bill of lading
11/05/1998	Sediments	105 tons	BFI & Modern landfills	Non - Hazardous	Bill of lading
11/06/1998	Rip rap	90 tons	Modern Landfill	Non - Hazardous	Bill of lading
11/06/1998	Sediments	630 tons	BFI & Modern landfills	Non - Hazardous	Bill of lading
11/07/1998	Sediments	135 tons	BFI & Modern landfills	Non - Hazardous	Bill of lading
11/11/1998	Rip rap	105 tons	Modern Landfill	Non - Hazardous	Bill of lading
11/11/1998	Sediments	690 tons	BFI & Modern landfills	Non - Hazardous	Bill of lading
11/12/1998	Sediments	375 tons	BFI & Modern landfills	Non - Hazardous	Bill of lading
11/16/1998	Rip rap	90 tons	Modern Landfill	Non - Hazardous	Bill of lading
11/17/1998	Sediments	165 tons	BFI & Modern landfills	Non - Hazardous	Bill of lading
11/18/1998	Rip rap	75 tons	Modern Landfill	Non - Hazardous	Bill of lading
11/25/1998	Sediments	690 tons	BFI & Modern landfills	Non - Hazardous	Bill of lading
12/28/1998	Sediments	315 tons	BFI & Modern landfills	Non - Hazardous	Bill of lading
02/01/1999	Sediments	128 tons	Sarnia, Ontario, Canada	Hazardous	Manifest # 1 - 4
02/02/1999	Sediments	128 tons	Sarnia, Ontario, Canada	Hazardous	Manifest # 5 - 8
02/03/1999	Sediments	128 tons	Sarnia, Ontario, Canada	Hazardous	Manifest # 9 - 12
02/04/1999	Sediments	160 tons	Sarnia, Ontario, Canada	Hazardous	Manifest # 13 - 17
02/05/1999	Sediments	128 tons	Sarnia, Ontario, Canada	Hazardous	Manifest # 18 - 21
02/08/1999	Sediments	256 tons	Sarnia, Ontario, Canada	Hazardous	Manifest # 22 - 29
02/09/1999	Sediments	256 tons	Sarnia, Ontario, Canada	Hazardous	Manifest # 30 - 37
02/10/1999	Sediments	256 tons	Sarnia, Ontario, Canada	Hazardous	Manifest # 38 - 45
02/11/1999	Sediments	192 tons	Sarnia, Ontario, Canada	Hazardous	Manifest # 46 - 51
02/12/1999	Sediments	192 tons	Sarnia, Ontario, Canada	Hazardous	Manifest # 52 - 57

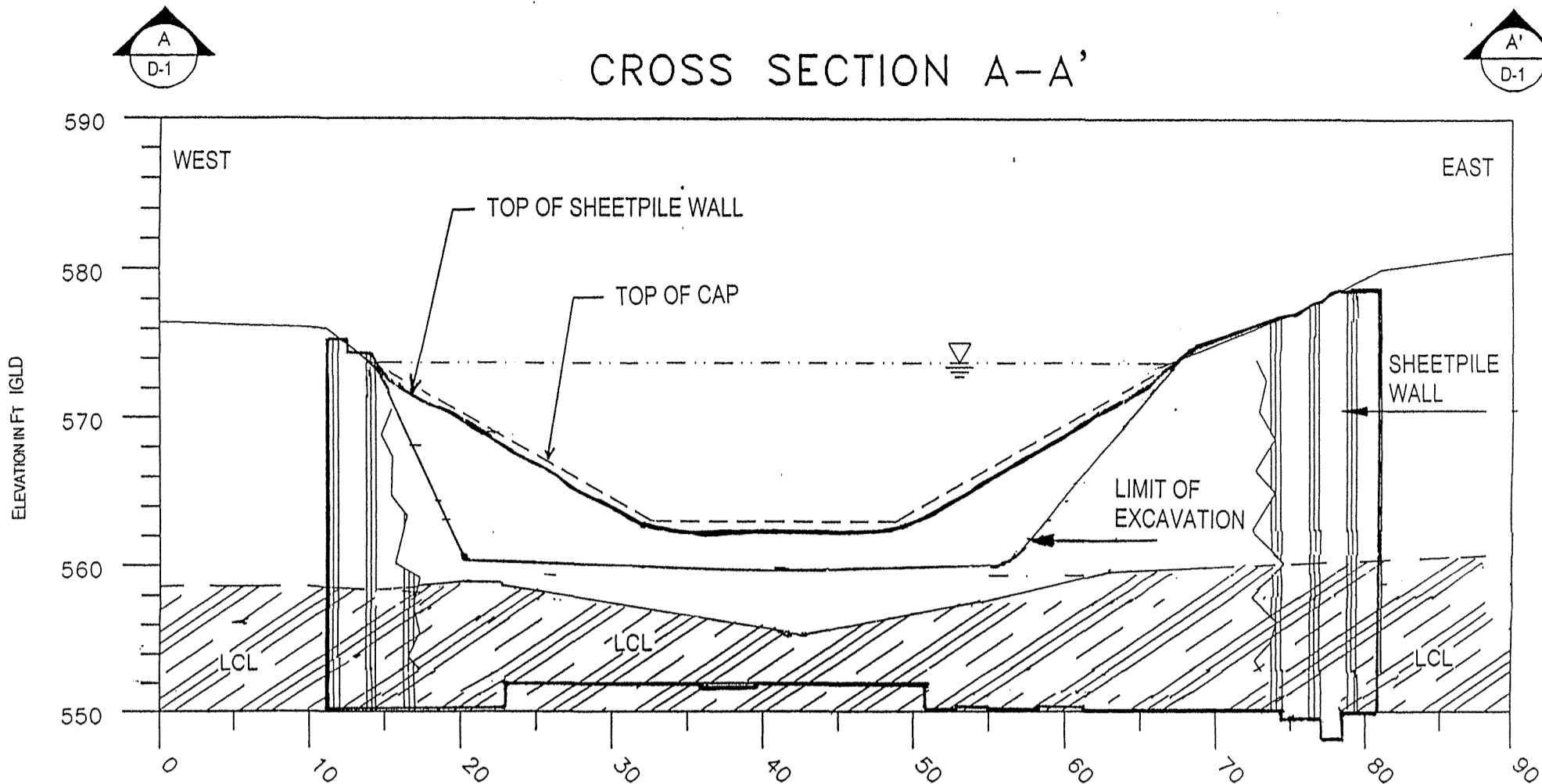
APPENDIX C (Cont'd.)
LOG OF OFFSITE SHIPMENTS
Scajaquada Creek Remediation

DATE	MATERIAL	QUANTITY	SHIPPED TO	DESIGNATION	MANIFEST
02/15/1999	Sediments	256 tons	Sarnia, Ontario, Canada	Hazardous	Manifest # 58 - 65
02/16/1999	Sediments	256 tons	Sarnia, Ontario, Canada	Hazardous	Manifest # 66 - 73
02/17/1999	Sediments	256 tons	Sarnia, Ontario, Canada	Hazardous	Manifest # 74 - 81
02/18/1999	Sediments	256 tons	Sarnia, Ontario, Canada	Hazardous	Manifest # 82 - 89
02/19/1999	Sediments	256 tons	Sarnia, Ontario, Canada	Hazardous	Manifest # 90 - 97
02/22/1999	Sediments	192 tons	Sarnia, Ontario, Canada	Hazardous	Manifest # 98 - 103
02/23/1999	Sediments	256 tons	Sarnia, Ontario, Canada	Hazardous	Manifest # 104 - 111
02/24/1999	Sediments	256 tons	Sarnia, Ontario, Canada	Hazardous	Manifest # 112 - 119
03/22/1999	Sediments	192 tons	Horizon Landfill, Quebec, Canada	Hazardous	Manifest # 120 - 125
03/23/1999	Sediments	128 tons	Horizon Landfill, Quebec, Canada	Hazardous	Manifest # 126 - 129
03/24/1999	Sediments	192 tons	Horizon Landfill, Quebec, Canada	Hazardous	Manifest # 130 - 135
03/25/1999	Sediments	128 tons	Horizon Landfill, Quebec, Canada	Hazardous	Manifest # 136 - 139
03/26/1999	Sediments	256 tons	Horizon Landfill, Quebec, Canada	Hazardous	Manifest # 140 - 147
03/29/1999	Sediments	192 tons	Horizon Landfill, Quebec, Canada	Hazardous	Manifest # 148 - 153
03/30/1999	Sediments	384 tons	Horizon Landfill, Quebec, Canada	Hazardous	Manifest # 154 - 165
03/31/1999	Sediments	576 tons	Horizon Landfill, Quebec, Canada	Hazardous	Manifest # 166 - 183
04/01/1999	Sediments	576 tons	Horizon Landfill, Quebec, Canada	Hazardous	Manifest # 184 - 201
04/05/1999	Sediments	512 tons	Horizon Landfill, Quebec, Canada	Hazardous	Manifest # 202 - 217
04/06/1999	Sediments	576 tons	Horizon Landfill, Quebec, Canada	Hazardous	Manifest # 218 - 235
04/07/1999	Sediments	384 tons	Horizon Landfill, Quebec, Canada	Hazardous	Manifest # 236 - 247
04/08/1999	Sediments	960 tons	Horizon Landfill, Quebec, Canada	Hazardous	Manifest # 248 - 277
04/09/1999	Sediments	448 tons	Horizon Landfill, Quebec, Canada	Hazardous	Manifest # 278 - 291
04/12/1999	Sediments	320 tons	Horizon Landfill, Quebec, Canada	Hazardous	Manifest # 292 - 301
04/13/1999	Sediments	576 tons	Horizon Landfill, Quebec, Canada	Hazardous	Manifest # 302 - 319
04/14/1999	Sediments	416 tons	Horizon Landfill, Quebec, Canada	Hazardous	Manifest # 320 - 332
04/15/1999	Sediments	576 tons	Horizon Landfill, Quebec, Canada	Hazardous	Manifest # 333 - 350
04/16/1999	Sediments	384 tons	Horizon Landfill, Quebec, Canada	Hazardous	Manifest # 351 - 362
04/17/1999	Sediments	128 tons	Horizon Landfill, Quebec, Canada	Hazardous	Manifest # 363 - 366
04/19/1999	Sediments	512 tons	Horizon Landfill, Quebec, Canada	Hazardous	Manifest # 367 - 382
04/20/1999	Sediments	512 tons	Horizon Landfill, Quebec, Canada	Hazardous	Manifest # 383 - 398
04/21/1999	Sediments	384 tons	Horizon Landfill, Quebec, Canada	Hazardous	Manifest # 399 - 410
04/22/1999	Sediments	704 tons	Horizon Landfill, Quebec, Canada	Hazardous	Manifest # 411 - 432
04/23/1999	Sediments	448 tons	Horizon Landfill, Quebec, Canada	Hazardous	Manifest # 433 - 446
04/26/1999	Sediments	448 tons	Horizon Landfill, Quebec, Canada	Hazardous	Manifest # 447 - 457
04/27/1999	Sediments	480 tons	Horizon Landfill, Quebec, Canada	Hazardous	Manifest # 458 - 466
05/05/1999	Asphalt	30 tons	NFG Mineral Springs Landfill	Non - Hazardous	Bill of lading
05/07/1999	MHF Residuals	32 tons	Horizon Landfill, Quebec, Canada	Hazardous	Manifest # 467
05/13/1999	Spent Carbon	8 tons	BFI Landfill	Non - Hazardous	Bill of lading
05/13/1999	Paint Drums	100 gallons	Research Oil, Ohio	Non - Hazardous	Bill of lading

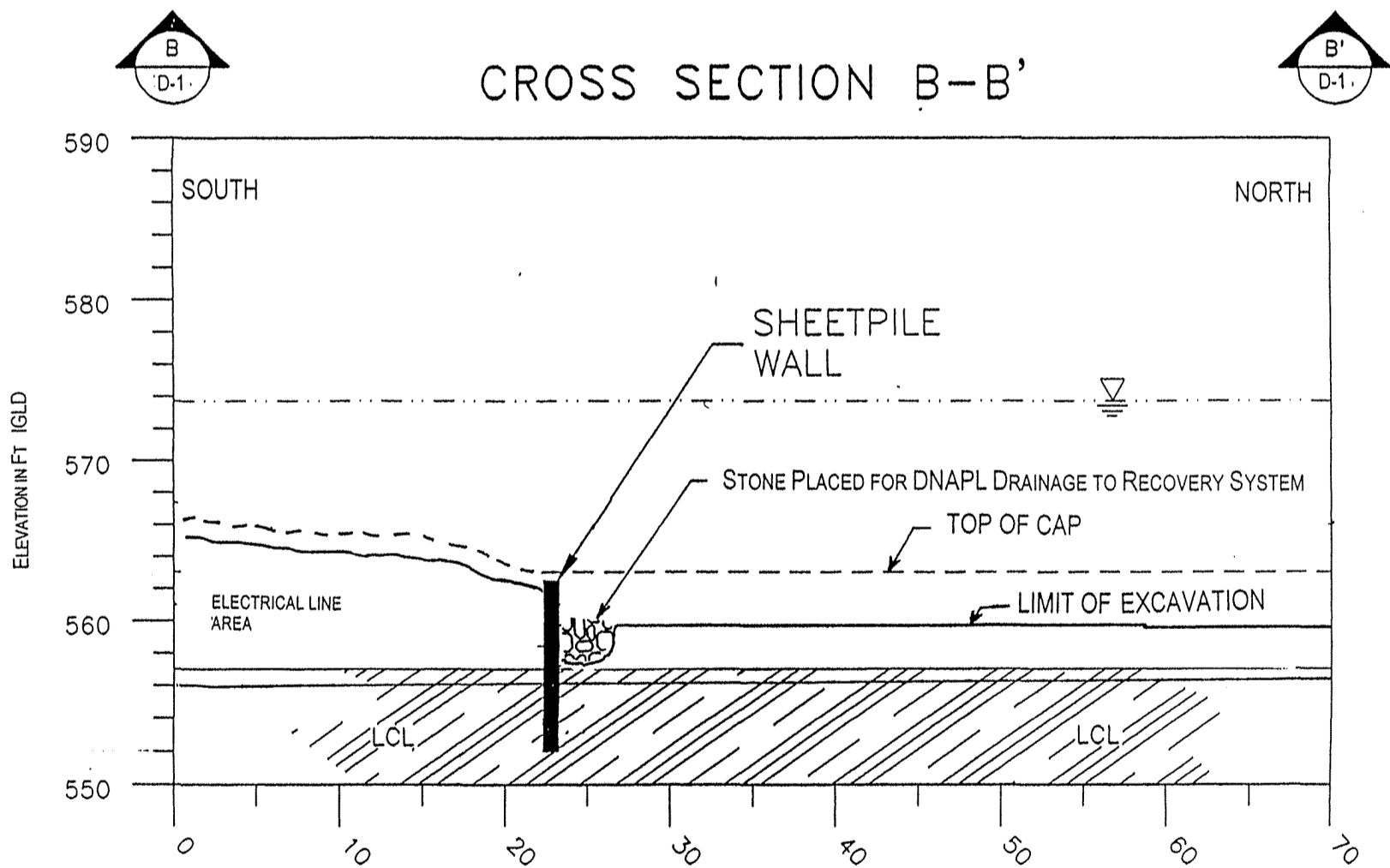
Appendix D
As-Built Drawings

NYSDEC Site # 91514B
August 30, 2000

CROSS SECTION A-A'



CROSS SECTION B-B'



LCL = LOWER CLAY

Horizontal Scale: 1-inch = 10 feet

Vertical Scale: 1-inch = 10 feet



John T. Finn



As-Built Cross Sections of Sheet Pile Wall at Sta 0+60

7/14/00

NFGD1-02111

D-3

**NIAGARA BOUNDARY
& MAPPING SERVICES, LSPC**

4769 Lower River Road
LEWISTON, NY 14092
(716) 754-2462

JOB SHEET PILE WALL @ 0+60

SHEET NO. _____ OF _____

CALCULATED BY _____ DATE 2-8-99 / AM

CHECKED BY _____ DATE REV. 7:13:00 J.F.F.

SCALE _____

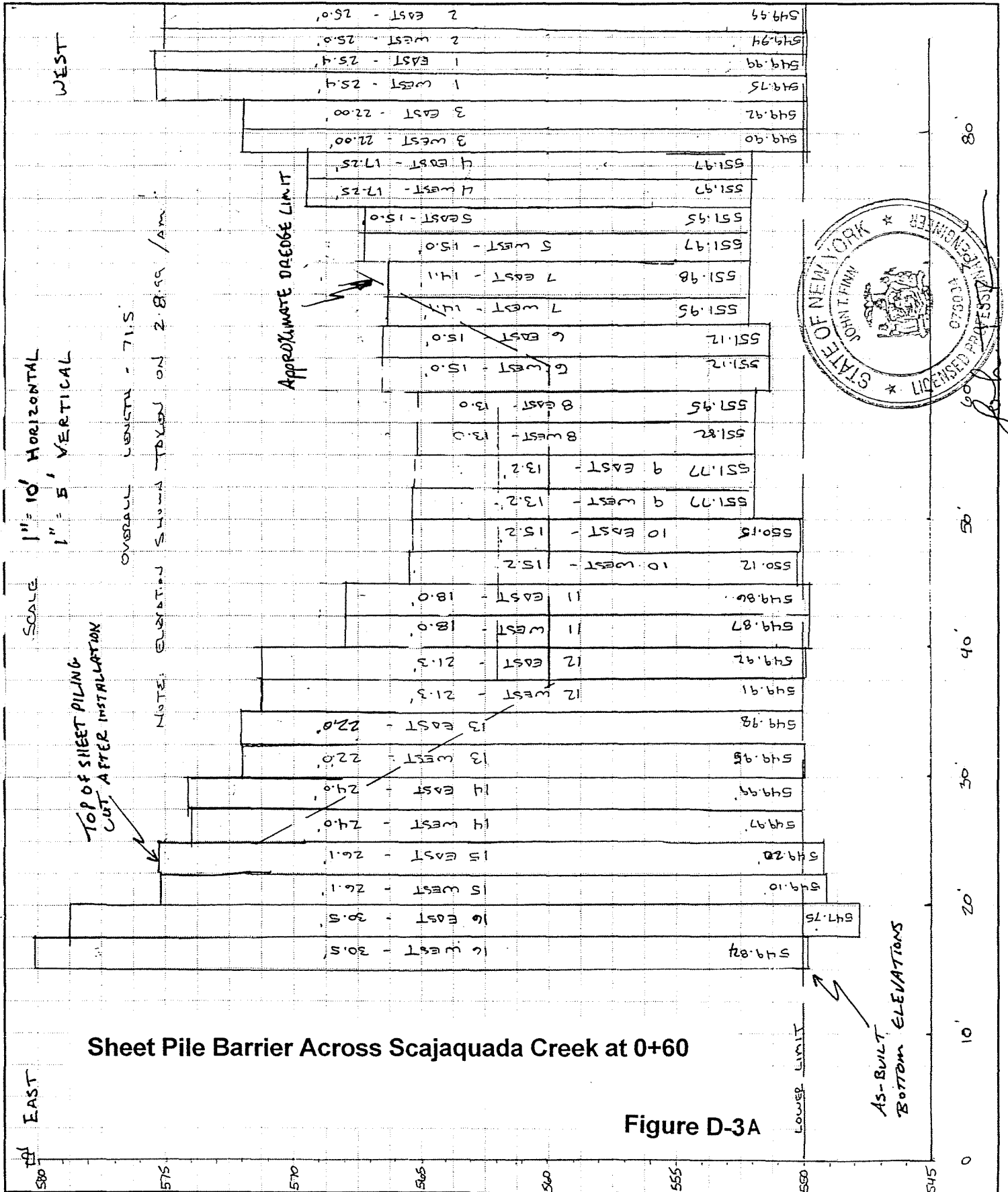
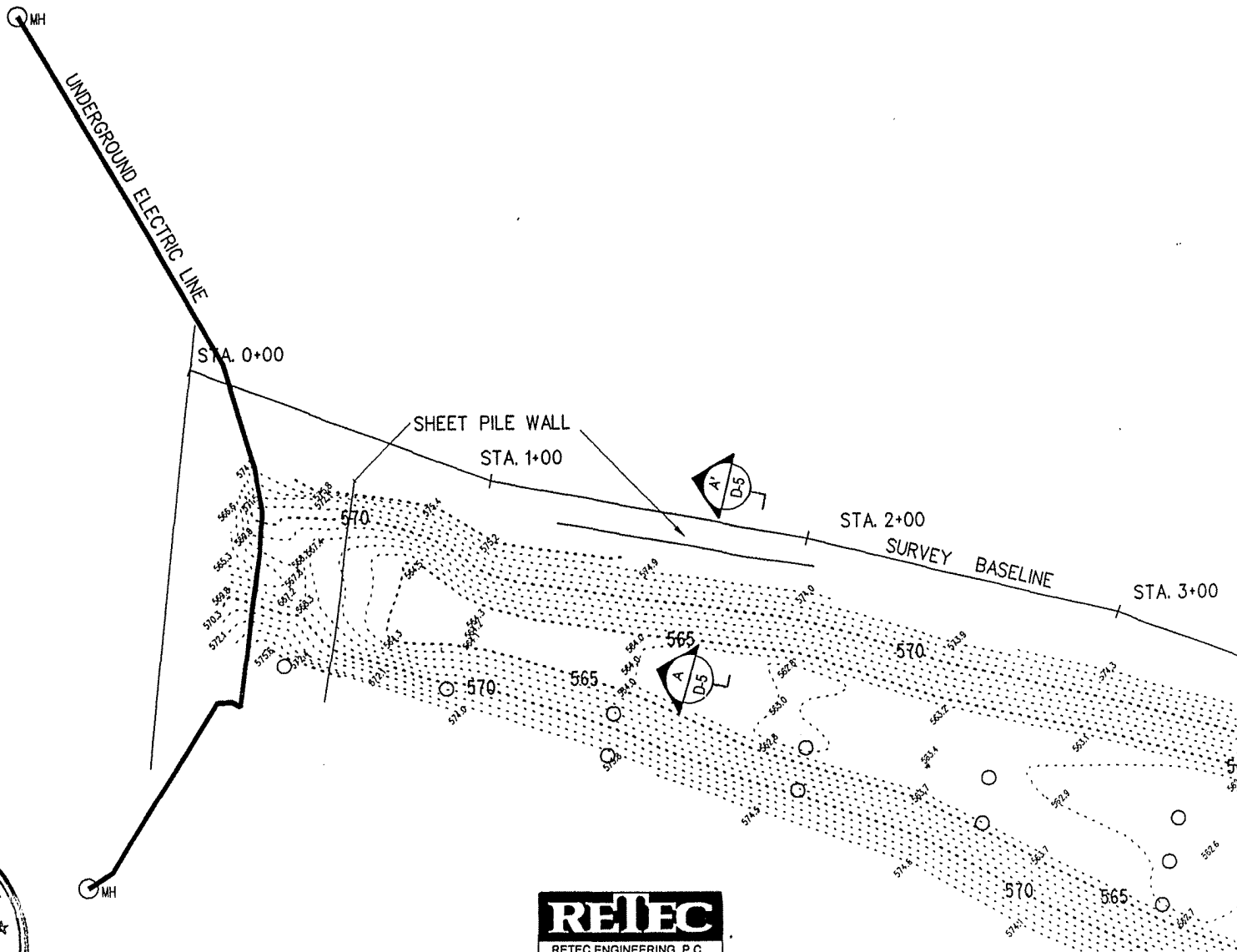


Figure D-3A

**WEST AVENUE
BRIDGE**

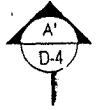
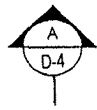


John T. Finn



As-Built Sheet Pile Retaining Wall Location

7/14/00	FILE	NFGD1-02111	D-4
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SCAJAQUADA CREEK



SHEET PILE RETAINING WALL

CLEAN FILL

580

575

570

565

560

555

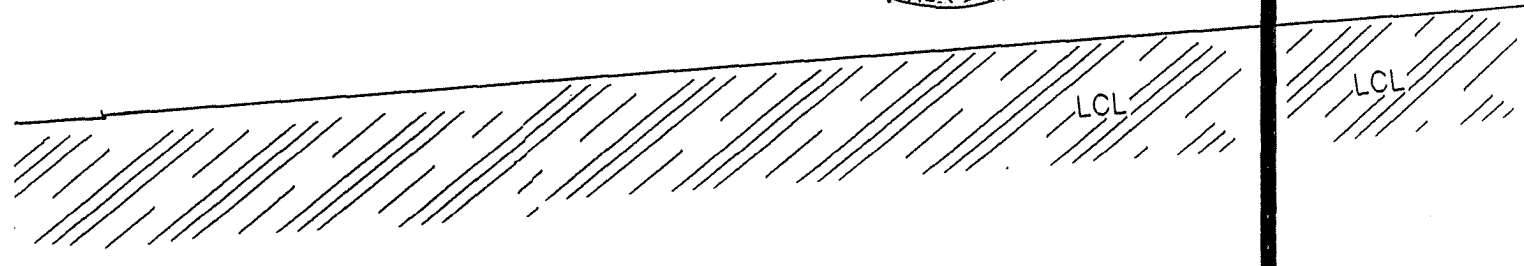
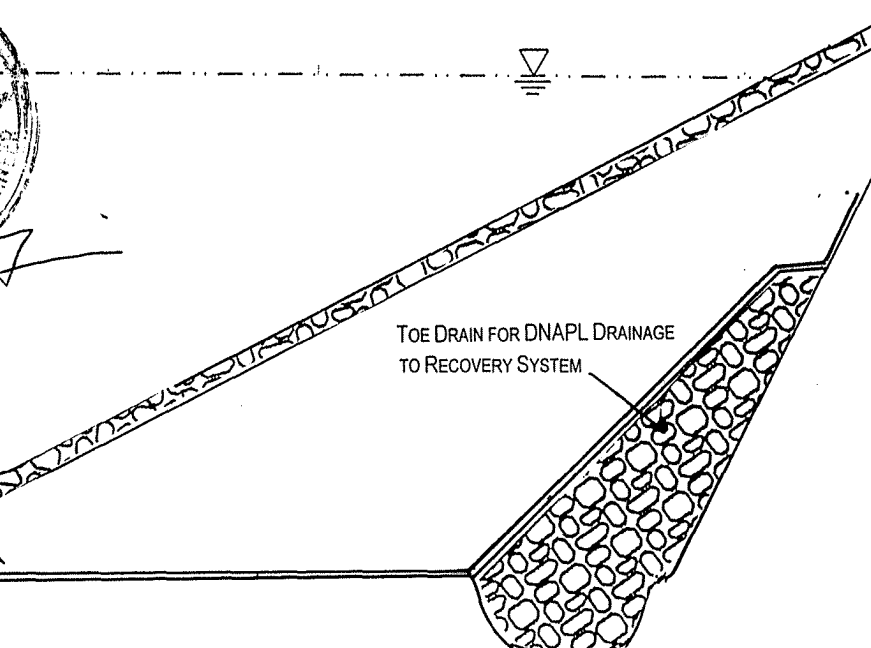
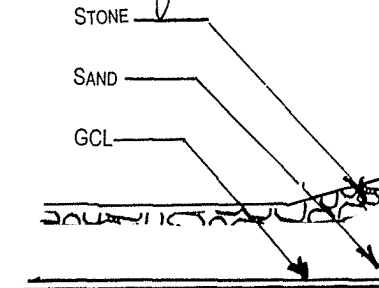
WEEP HOLES IN SHEET PILE

TOE DRAIN FOR DNAPL DRAINAGE TO RECOVERY SYSTEM

STONE

SAND

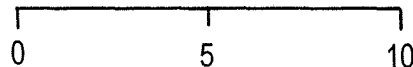
GCL



ELEVATION IN FT IGLD

LCL = LOWER CLAY

SCALE IN FEET



As-Built Sheet Pile Retaining Wall Cross Section

7/14/00

FILE

NFGD1-02111



D-5



March 26, 1999

Abul Barkat, P.E.
Project Manager
New York State Department of Environmental Conservation - Region 9
270 Michigan Avenue
Buffalo, NY 14203-2999

RETEC Engineering, P.C.
1001 West Seneca Street
Suite 204
Ithaca, NY 14850-3342
(607) 277-5716
FAX (607) 277-9057

**RE: Design of Sheet Pile Retaining Wall on the West Bank
Riparian Portion of the Iroquois Gas/Westwood Site # 915141-B.**

Dear Mr. Barkat:

Per your request, please find attached the description of the sheet pile retaining wall to be installed on the west bank. The design has been approved by Mr. Tom Clark of ThermoRetec after his engineering analysis of the retaining wall. The design includes a sufficient number of weep holes located in the saturated zone to avoid mounding of groundwater or DNAPL behind the wall. Each sheet will have a total of 24 2- inch (+/-1/2) holes placed over a ten-foot depth interval. Forty sheets will be installed, providing a total weep hole area of approximately 20 square feet. This design was described to Mr. Kevin Glaser and was approved by him in a telephone conversation on Thursday, March 18, 1999.

Please contact me with any questions or comments at (607) 277-5716.

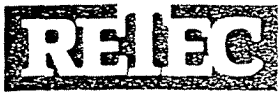
Sincerely,
RETEC ENGINEERING, P.C.

John T. Finn, P.E.
Senior Engineer

Attachment

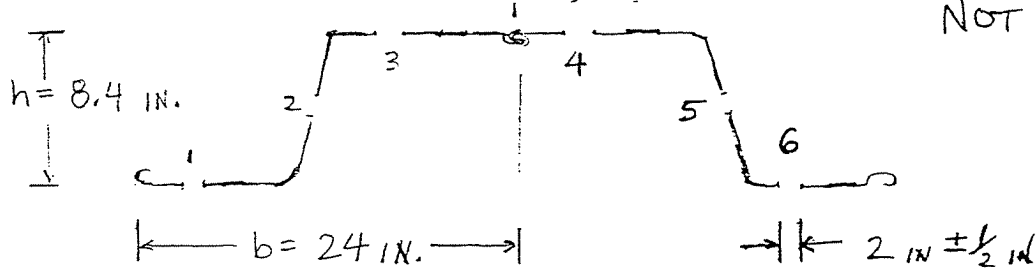
JTF:

cc: Tanya Alexander - NFG
file: 3-2111-600



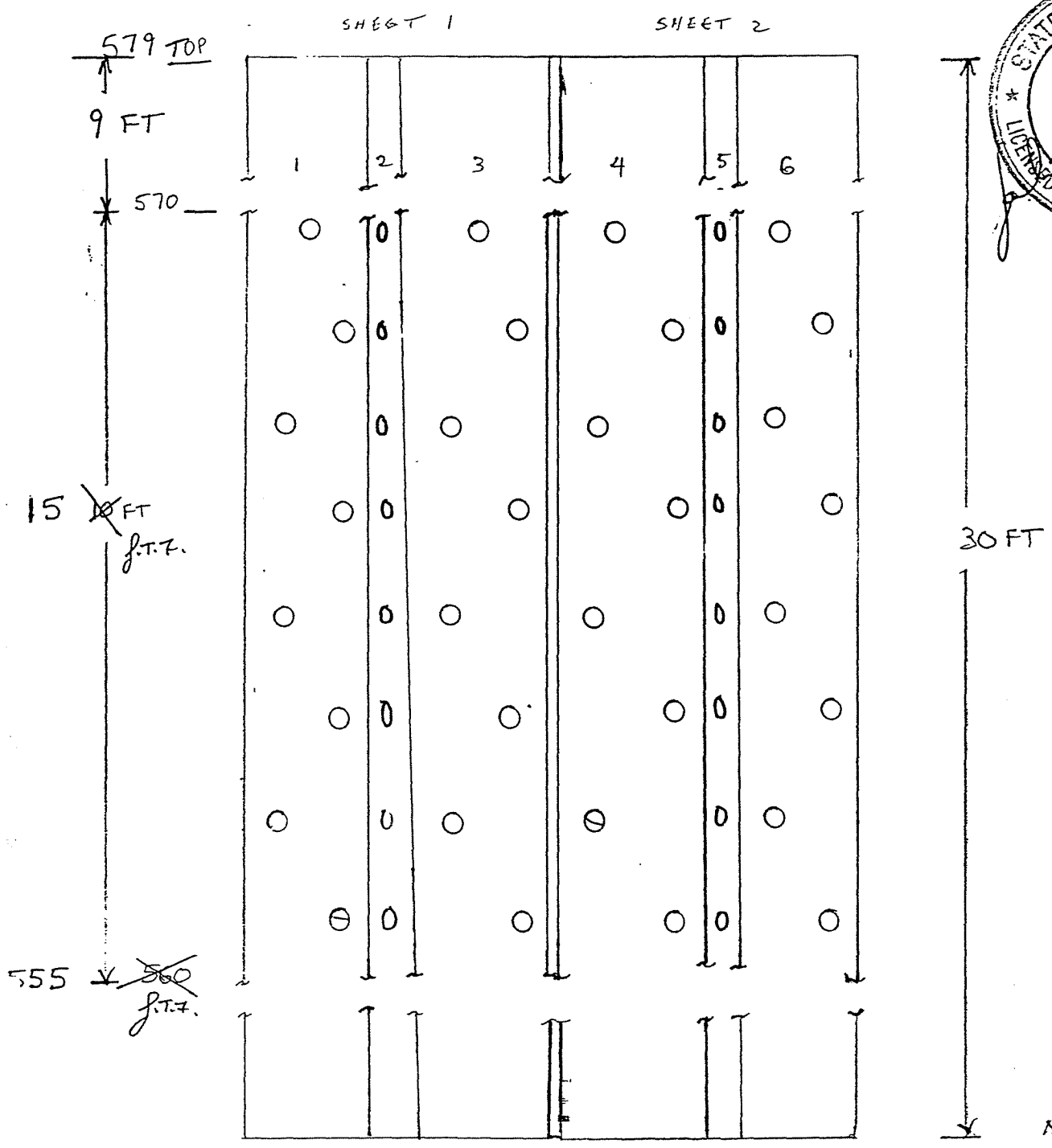
Project No. 3-2111-600
 Client NATIONAL FUEL GAS
 Site SCASAQUANDA CREEK
 Subject SHEET PILE RETAINING WALL
WEEP HOLE DETAIL

Page 1 of 1
 Date 3/18/99 REV. 4/4/99
 By JOHN FINN
 App. J.T.F.



NOT TO SCALE

2 SHEETS:
 6 x 8 = 48 HOLES
 @ 151 SQ. IN.



NOT TO SCALE

UNDERGROUND ELECTRIC LINE

STA. 0+00

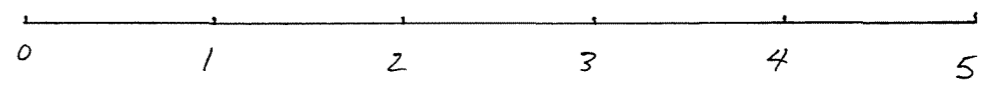
SHEET PILE WALL
STA. 1+00

STA. 2+00
SURVEY BASELINE

STA. 3+00

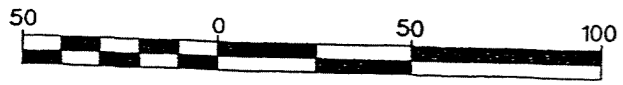
STA. 4+00

6-INCH ANGULAR QUARRY STONE



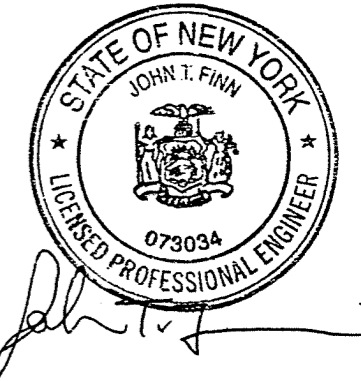
SCALE IN FEET

CROSS SECTION A - A' (TYPICAL)



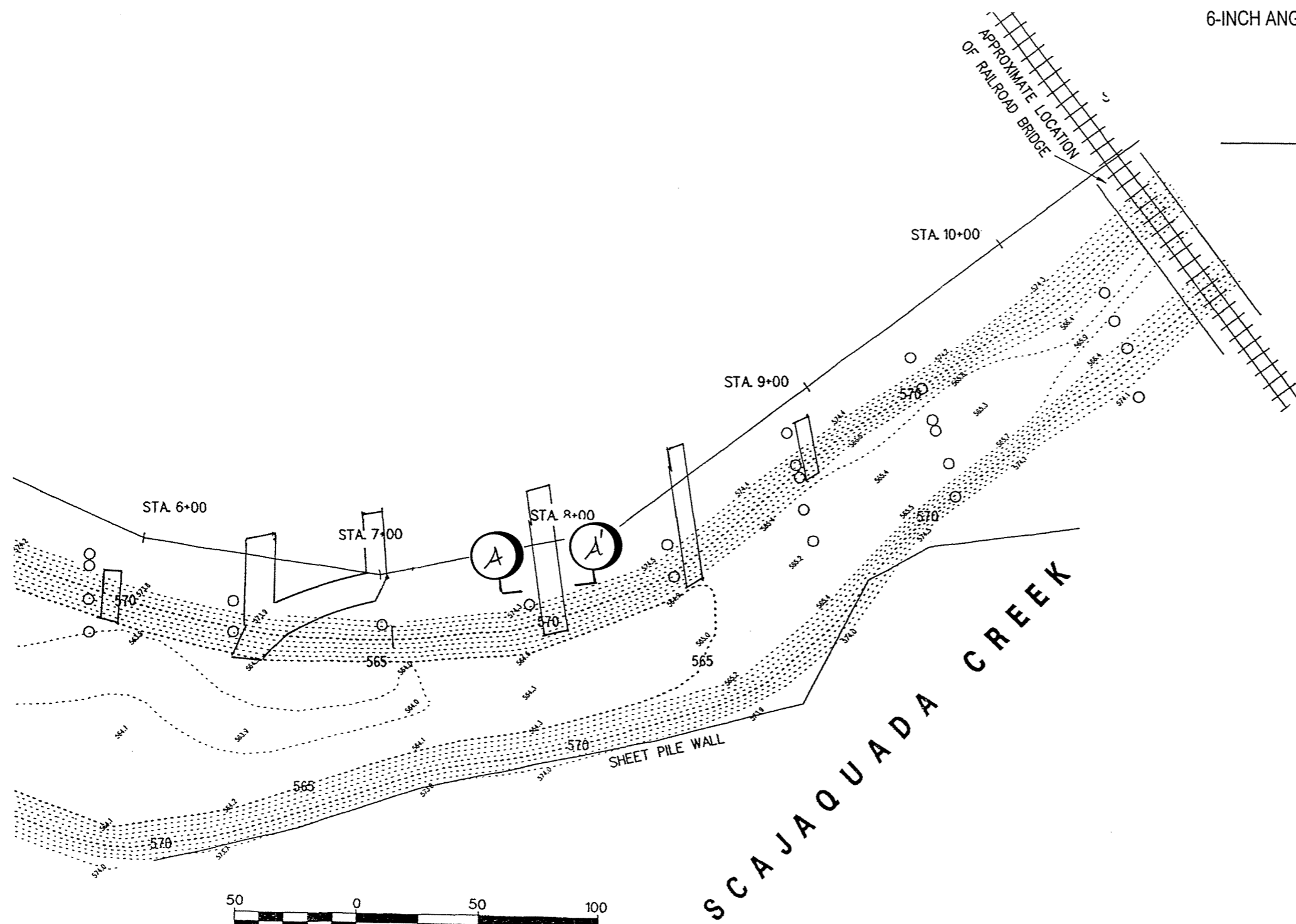
SCALE BAR
IN FEET

SCAJAQUADA
CREEK



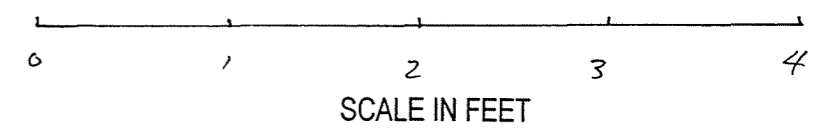
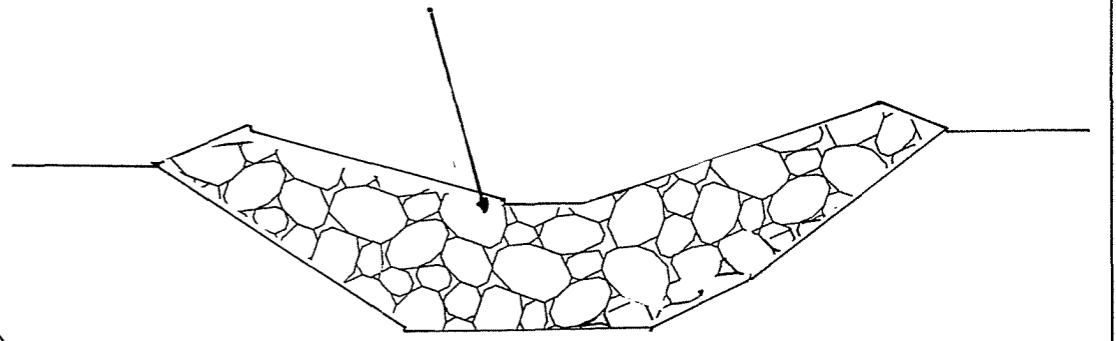
As-Built Drawings of
Swales Sta 0+00 to 4+00

RETEC	
RETEC ENGINEERING, P.C.	
DRAWING NO.	REV.
D-7	

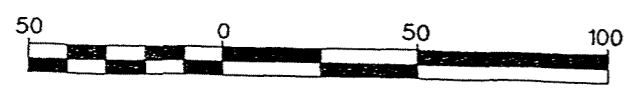


A

6-INCH ANGULAR QUARRY STONE



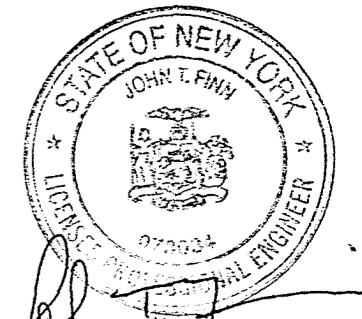
CROSS SECTION A - A' (TYPICAL)



SCALE BAR
IN FEET

SCAJAQUADA CREEK

SHEET PILE WALL



As-Built Drawings of
Swales Sta 6+00 to 9+00

RETEC	
RETEC ENGINEERING, P.C.	
DRAWING NO.	REV.
D-8	

Appendix E
Tables of Survey Results

NYSDEC Site # 91514B
August 30, 2000

Scajaquada Creek Sediment Remediation

DREDGING ACCEPTANCE SURVEY

Station	Control Point	Acceptable Elevation Feet IGLD -0.25/-0.5	Actual Distance from Baseline Along Transect (INPUT BY SURVEYOR)	Actual Elevation Feet IGLD (INPUT BY SURVEYOR)	Surveyor Initials	RETEC Acceptance
S-2A & B						
4-55	W Bank	574				
4-55	W Toe	562				
4-55	Mid 1	562				
4-55	Center	562				
4-55	Mid 2	562				
4-55	E Toe	562				
4-55	E Bank	574				
4-01	W Bank	574				
4-01	W Toe	562				
4-01	Mid 1	562				
4-01	Center	562				
4-01	Mid 2	562				
4-01	E Toe	562				
4-01	E Bank	574				
3-55	W Bank	574				
3-55	W Toe	562				
3-55	Mid 1	560				
3-55	Center	560				
3-55	Mid 2	560				
3-55	E Toe	560				
3-55	E Bank	574				
3-05	W Bank	574	17.6	STAKED		
3-05	W Toe	560	21.50	560.18	BUN	SW 12/16
3-05	Center	560	60.25	560.38		12/19 3:00 PM
3-05	E Toe	560	89	560.20		0930
3-05	E Bank	574	103	STAKED		
2-55	W Bank	574	19.2	STAKED		
2-55	W Toe	560	33.20	560.08	BUN	12/28
2-55	Center	560	56.10	560.22		DNA 2/18/99
2-55	E Toe	560	74.0	560.11		13:00
2-55	E Bank	574	93.0	STAKED		
2-05	W Bank	574	16.2	STAKED		
2-05	W Toe	560	30.2	560.17	BUN	2/8/99 12:00 PM
2-05	Center	560	57.0	560.24		DNA 2/18/99
2-05	E Toe	560	79.05	560.42		13:00
2-05	E Bank	574	88.0	STAKED		
1-55	W Bank	574	15	STAKED		
1-55	W Toe	560	29.0	560.25	BUN	SW 2/18/99 2/18/99
1-55	Center	560	50.0	560.15		1615 4:00 PM
1-55	E Toe	560	70.0	560.31		
1-55	E Bank	574	89.0	STAKED		
1-05	W Bank	574		STAKED		
1-05	W Toe	562		560.10	BUN	SW 2/22/99 2/21/99
1-05	Center	560		559.60		1915 5:00 PM
1-05	E Toe	562		557.90		
1-05	E Bank	574		STAKED		
0-55	W Bank	574		STAKED		
0-55	W Toe	562	561.8	560.5	BUN	SW 2/22/99 2/22/99
0-55	Center	562		560.1		5:00 PM
0-55	E Toe	562		560.4		
0-55	E Bank	574		STAKED		
75 degrees						
0-01	W Bank	574				
0-01	W Toe	562				
0-01	Center	562				
0-01	E Toe	562				
0-01	E Bank	574				

FORM PREPARED 7-22.

INTERMEDIATE STATIONS
PREDGING

STATION	CONTROL PT	ACCUPT. ELEV.	ACT. ELEV.	SURVEYORS INITIALS	DATE/TIME
0490	W. TOP	574	STALLED		
0490	W. TOE	562	559.8	BON	SW 2/22/99 1915
0490	CENTRAL	560.6	559.9		2/22/99 8:00.
0490	E. TOE	562	560.26		
0590	E. TOP	574	STALLED		

INTERMEDIATE STATIONS

DREDGING

STATIONS	CONTROL PT.	ACCP. ELEV.	ACT. ELEV.	SURVEYORS INITIALS	RETEC ACCP.	DATE/TIME
1+60	W. TOP	574	STAKED			
1+60	W. TOE	560	560.25		SW 2/18/99 1615	2/18/99 2:00 PM
1+60	CENTER	560	560.15	BHN		
1+60	E. TOE	560	560.31			
1+60	E. TOP	574	STAKED			
1+45	W. TOP	574	STAKED			
1+45	W. TOE	560	560.26		SW 2/18/99 1615	2/18/99 4:00 PM
1+45	CENTER	560	560.15	BAN		
1+45	E. TOE	560	560.20			
1+45	E. TOP	574	STAKED			
1+30	W. TOP	574	STAKED			
1+30	W. TOE	560	560.10		SW 2/21/99 0845	2/21/99 8:30 AM
1+30	CENTER	560	560.10	BAN		
1+30	E. TOE	560	559.80			
1+30	E. TOP	574	STAKED			
1+20	W. TOP	574	STAKED			
1+20	W. TOE	560	560.1		SW 2/22/99 0825	2/22/99 3:00 PM
1+20	CENTER	560	559.8	BAN		
1+20	E. TOE	560	560.0			
1+20	E. TOP	574	STAKED			

Scajaguada Creek Sediment Remediation

DREDGING ACCEPTANCE SURVEY

Station	Control Point	Acceptable Elevation	Actual Distance from Baseline	Actual Elevation	Surveyor	RETEC
Ref Dwg.	Along Transect	Feet IGLD -0.25/-0.5	Along Transect	Feet IGLD	Initials	Acceptance
S-2A & B			(INPUT BY SURVEYOR)	(INPUT BY SURVEYOR)		
4-55	W. Bank	574				
4-55	W. Toe	562				
4-55	Mid 1	562				
4-55	Center	562				
4-55	Mid 2	562				
4-55	E. Toe	562				
4-55	E. Bank	574				
4-01	W. Bank	574				
4-01	W. Toe	562				
4-01	Mid 1	562				
4-01	Center	562				
4-01	Mid 2	562				
4-01	E. Toe	562				
4-01	E. Bank	574				
3-55	W. Bank	574				
3-55	W. Toe	562				
3-55	Mid 1	560				
3-55	Center	560				
3-55	Mid 2	560				
3-55	E. Toe	560				
3-55	E. Bank	574				
3-05	W. Bank	574	17.5	STAKED		
3-05	W. Toe	560	31.50	560.18	BUN	SW 12/16
3-05	Center	560	62.25	560.38		12/19 3:00 PM
3-05	E. Toe	560	89	560.20		0930
3-05	E. Bank	574	103	STAKED		
2-55	W. Bank	574	19.2	STAKED		
2-55	W. Toe	560	33.20	560.08	BUN	12/28
2-55	Center	560	50.10	560.22		SW 2/19/11
2-55	E. Toe	560	74.0	560.11		13:00
2-55	E. Bank	574	93.0	STAKED		
2-05	W. Bank	574	16.2	STAKED		
2-05	W. Toe	560	30.2	560.17	BUN	2/8/11 12:00
2-05	Center	560	50.10	560.24		SW 2/14/11
2-05	E. Toe	560	74.0	560.42		13:00
2-05	E. Bank	574	88.0	STAKED		
1-55	W. Bank	574	5	STAKED		
1-55	W. Toe	560	31.1	560.25	BUN	SW 2/18/11 2/18/11
1-55	Center	560	51.1	560.15		1615 4:00 PM
1-55	E. Toe	560	71.1	560.31		
1-55	E. Bank	574	77	STAKED		
1-05	W. Bank	574				
1-05	W. Toe	562				
1-05	Center	560				
1-05	E. Toe	562				
1-05	E. Bank	574				
0-55	W. Bank	574				
0-55	W. Toe	562				
0-55	Center	562				
0-55	E. Toe	562				
0-55	E. Bank	574				
75 degrees						
0-01	W. Bank	574				
0-01	W. Toe	562				
0-01	Center	562				
0-01	E. Toe	562				
0-01	E. Bank	574				

FORM PREPARED 7-22

INTERMEDIATE STATIONS
DREGGING

STATIONS	CONTROL PT.	ACCP. ELEV.	ACT. ELEV.	SURVEYORS INITIALS	RETER ACCP.	DATE/TIME
1+60	W. TOP	574	STAKED			
1+60	W. TOE	560	560.25		SW 2/18/99 1615	2/18/99 2:00 PM
1+60	CENTER	560	560.15	BHN		
1+60	E. TOE	560	560.31			
1+60	E. TOP	574	STAKED			
1+45	W. TOP	574	STAKED			
1+45	W. TOE	560	560.26			SW 2/18/99 1615
1+45	CENTER	560	560.15	BAN		
1+45	E. TOE	560	560.20			
45	E. TOP	574	STAKED			

INTERMEDIATE STATIONS

DREDGING

STATIONS	CONTROL PT	ALLOP ELEV.	ACT. ELEV.	SURVEYORS INITIALS	RETER SCHEP.	DATE	TIME
2+75	W.TOP	574	STAKED				
2+75	W.TOP	560	560.40	BUN	SW 12/19/98 0930	12/19	9:00 AM.
2+75	CENTER	560	560.22				
2+75	E.TOP	560	560.18				
2+75	E.TOP	574	STAKED				
2+65	W.TOP	574	STAKED				
2+65	W.TOP	560	560.20	BUN	SW 12/21/98 0945	12/21	9:30 AM.
2+65	CENTER	560	560.41				
2+65	E.TOP	560	560.15				
2+65	E.TOP	574	STAKED				
2+35	W.TOP	574	STAKED				
2+35	W.TOP	560	560.32				
2+35	CENTER	560	560.02	BUN	BUN 2/8/99 1300	2/8/99	12:00 PM.
2+35	E.TOP	560	560.12				
2+35	E.TOP	574	STAKED				
2+05	W.TOP	574	STAKED				
2+05	W.TOP	560	560.22	BUN	SW 2/18/99 0945	2/18/99	8:00 AM
2+05	CENTER	560	559.78				
2+05	E.TOP	560	559.94				
2+05	E.TOP	574	STAKED				

INTERMEDIATE STATIONS

DRED 4.114

STATIONS	CONTROL PT	ALLOP ELEV.	ACT. ELEV.	SURVEYORS INITIALS	RETEC SURV.	DATE	TIME
2+75	W. TOP	574	STAKED				
2+75	W. TOE	560	560.40	BIAN	SW 12/19/98 0930	12/19	9:00 AM.
2+75	CENTER	560	560.22				
2+75	E. TOE	560	560.18				
2+75	E. TOP	574	STAKED				
2+65	W. TOP	574	STAKED				
2+65	W. TOE	560	560.20	BIAN	SW 12/21/98 0945	12/21	9:30 AM.
2+65	CENTER	560	560.41				
2+65	E. TOE	560	560.15				
2+65	E. TOP	574	STAKED				

Scajaguada Creek Sediment Remediation

DREDGING ACCEPTANCE SURVEY

Station	Control Point	Acceptable Elevation	Actual Distance from Baseline	Actual Elevation	Surveyor	RETEC	Date/Time
Ref Dwg.	Along Transect	Feet IGLD -0.25/-0.5	Along Transect	Feet IGLD	Initials	Acceptance	
			(INPUT BY SURVEYOR)	(INPUT BY SURVEYOR)			
4-55	W. Bank	574	16.58	572.25			
4-55	W. Toe	562	28.58	562.29			
4-55	Mid 1	562	36.05	562.18			12/3
4-55	Center	562	43.53	562.05	BWJ	SW	5:30 PM
4-55	Mid 2	562	81.00	562.11			
4-55	E. Toe	562	98.47	562.2			
4-55	E. Bank	574	110.47	STAKED			
4-01	W. Bank	574	15.43	572.60			
4-01	W. Toe	562	27.43	561.98			
4-01	Mid 1	562	44.19	562.05			12/7
4-01	Center	562	60.85	561.87	BWJ	SW	3:30 PM
4-01	Mid 2	562	77.52	561.88			
4-01	E. Toe	562	94.27	561.55			
4-01	E. Bank	574	106.27	STAKED			
3-55	W. Bank	574	13	572.60			
3-55	W. Toe	562	25	562.29			
3-55	Mid 1	560	41.75				12/14
3-55	Center	560	58.5	560.76	BWJ	SW	5:00 PM
3-55	Mid 2	560	75.15				
3-55	E. Toe	560	92	560.46			
3-55	E. Bank	574	106	STAKED			
3-05	W. Bank	574	17.5	572.60			
3-05	W. Toe	560	31.5	560.18			
3-05	Center	560	60.26	560.38	BWJ	SW	12/16
3-05	E. Toe	560	89	560.26			7:30 AM
3-05	E. Bank	574	103	STAKED			
2-55	W. Bank	574					
2-55	W. Toe	560					
2-55	Center	560					
2-55	E. Toe	560					
2-55	E. Bank	574					
2-05	W. Bank	574					
2-05	W. Toe	560					
2-05	Center	560					
2-05	E. Toe	560					
2-05	E. Bank	574					
1-55	W. Bank	574					
1-55	W. Toe	560					
1-55	Center	560					
1-55	E. Toe	560					
1-55	E. Bank	574					
1-05	W. Bank	574					
1-05	W. Toe	562					
1-05	Center	560					
1-05	E. Toe	562					
1-05	E. Bank	574					
0-55	W. Bank	574					
0-55	W. Toe	562					
0-55	Center	562					
0-55	E. Toe	562					
0-55	E. Bank	574					
75 degrees							
0-01	W. Bank	574					
0-01	W. Toe	562					
0-01	Center	562					
0-01	E. Toe	562					
0-01	E. Bank	574					

FORM PREPARED 7-22

INTERMEDIATE STATIONS

DREDGE

STATIONS	CONTROL PT	ACUP. DEEP.	ACT. DEEP.	SURVEYORS INITIALS	RETEC ACCEPTANCE	DATE	TIME
3+70	W. TOP	574	STAKED				
3+70	W. TOE	560.7	561.05	BHN	SW	12/12	10:00 am.
3+70	CENTER	560.7	561.25		12/12/98		
3+70	E. TOE	560.7	561.30		10:25		
3+70	E. TOP	560.7	STAKED				
3+40	W. TOP	574	STAKED				
3+40	W. TOE	560	560.7	BHN	SW	12/16	7:30 am
3+40	CENTER	560	560.5		12/16/98		
3+40	E. TOE	560	560.45		0731		
3+40	E. TOP	574	STAKED				
3+20	W. TOP	574	STAKED				
3+20	W. TOE	560	560.35	BHN	SW	12/16/98	7:30 am.
3+20	CENTER	560	560.18		0730	12/16	
3+20	E. TOE	560	560.26				
3+20	E. TOP	574	STAKED				

Scajaguada Creek Sediment Remediation

DREDGING ACCEPTANCE SURVEY

Station Ref Dwg.	Control Point Along Transect	Acceptable Elevation Feet IGLD -0.25/-0.5	Actual Distance from Baseline Along Transect (INPUT BY SURVEYOR)	Actual Elevation Feet IGLD (INPUT BY SURVEYOR)	Surveyor Initials	RETEC Acceptance
S-2A & B						
4-55	W. Bank	574	10.58	572.25		
4-55	W. Toe	562	28.58	562.29		
4-55	Mid 1	562	46.05	562.18		
4-55	Center	562	63.53	562.05	BW	SW 12/3/98 R/L 5:00 PM
4-55	Mid 2	562	81.00	562.11		
4-55	E. Toe	562	98.47	562.2		
4-55	E. Bank	574	110.47	572.0		
4-01	W. Bank	574				
4-01	W. Toe	562	15.43	572.0		
4-01	Mid 1	562	27.43	561.95		
4-01	Center	562	44.19	562.08	BW	SW 12/7/98 R/L 3:30 PM
4-01	Mid 2	562	60.85	561.81		
4-01	E. Toe	562	77.56	561.88		
4-01	E. Bank	574	94.27	561.93		
			106.27	572.0		
3-55	W. Bank	574				
3-55	W. Toe	562				
3-55	Mid 1	560				
3-55	Center	560				
3-55	Mid 2	560				
3-55	E. Toe	560				
3-55	E. Bank	574				
3-05	W. Bank	574				
3-05	W. Toe	560				
3-05	Center	560				
3-05	E. Toe	560				
3-05	E. Bank	574				
2-55	W. Bank	574				
2-55	W. Toe	560				
2-55	Center	560				
2-55	E. Toe	560				
2-55	E. Bank	574				
2-05	W. Bank	574				
2-05	W. Toe	560				
2-05	Center	560				
2-05	E. Toe	560				
2-05	E. Bank	574				
1-55	W. Bank	574				
1-55	W. Toe	560				
1-55	Center	560				
1-55	E. Toe	560				
1-55	E. Bank	574				
1-05	W. Bank	574				
1-05	W. Toe	562				
1-05	Center	560				
1-05	E. Toe	562				
1-05	E. Bank	574				
0-55	W. Bank	574				
0-55	W. Toe	562				
0-55	Center	562				
0-55	E. Toe	562				
0-55	E. Bank	574				
75 degrees						
0-01	W. Bank	574				
0-01	W. Toe	562				
0-01	Center	562				
0-01	E. Toe	562				
0-01	E. Bank	574				

FORM PREPARED 7-22

INTERMEDIATE STATIONS

DREDGING

STATIONS	CONTROL PT.	ACCP. ELEV.	ACT. ELEV.	SURVEYORS INITIALS	RISER ACC'D.	DATE/TIME
4+30	W.TOP	574	STAKED	BWN	SW 12/4/98 1530	12/5 10:30 AM
4+30	W.TOE	562	562.48			
4+30	CENTER	562	562.40			
4+30	E.TOE	562	562.44			
4+30	E.TOP	574	STAKED			
4+15	W.TOP	574	STAKED	BWN	SW 12/5/98 1300 (Subject to removing water before placing G.C.)	12/5 1:00 P.
4+15	W.TOE	562	562.13			
4+15	CENTER	562	562.02			
4+15	E.TOE	562	562.05			
4+15	E.TOP	574	STAKED			
3+90	W.TOP	574	STAKED	BWN	SW 12/10/98	12/9 12:00
3+90	W.TOE	561.56	562.0			
3+90	CENTER	561.56	562.14			
3+90	E.TOE	561.52	562.34			
3+90	E.TOP	574	STAKED			
3+75	W.TOP	574	STAKED	BWN	SW 12/10/98 1600	12/10 11:30
3+75	W.TOE	562.0	561.88			
3+75	CENTER	561.0	561.33			
3+75	E.TOE	561.0	561.33			
3+75	E.TOP	574	STAKED			

INTERMEDIATE STATIONS

DREDGING

STATIONS	CONTROL PT.	ACCP. ELEV.	ACT. ELEV.	SURVEY # & INITIALS	DATE ACCP.	DATE / TIME
4+30	W.TOP	574	STAKED	BNN	SW 12/4/98 1530	12/5 12:30 AM
4+30	W.TOE	562	562.48			
4+30	CENTER	562	562.40			
4+30	E.TOE	562	562.44			
4+30	E.TOP	574	STAKED			
4+15	W.TOP	574	STAKED	BNN	SW 12/5/98 1300 (Subject to removing water before placing GCL)	12/5 1:00 PM
4+15	W.TOE	562	562.13			
4+15	CENTER	562	562.02			
4+15	E.TOE	562	562.05			
4+15	E.TOP	574	STAKED			
3+90	W.TOP	574	STAKED	BNN	SW 12/10/98	12/9 12:00 PM
3+90	W.TOE	561.56	562.0			
3+90	CENTER	561.56	562.14			
3+90	E.TOE	561.52	562.34			
3+90	E.TOP	574	STAKED			

INTERMEDIATE STATIONS

DREDGING

STATIONS	CONTROL PT.	ACCP. ELEV.	ACT. ELEV.	SURVEYOR'S INITIALS	RETICE ACCUP.	DATE / TIME
4+30	W. TOP	574	STAKED	BNW	SW 12/4/98 1530	12/5
4+30	W. TOE	562	562.48			10:30 A.
4+30	CENTER	562	562.40			
4+30	E. TOE	562	562.44			
4+30	E. TOP	574	STAKED			

Station Ref Dwg. S-2A & B	Control Point Along Transect	Acceptable Elevation Feet IGLD +0.25/-0.5	Actual Distance from Baseline Along Transect (INPUT BY SURVEYOR)	Actual Elevation Feet IGLD (INPUT BY SURVEYOR)	Surveyor Initials	RETEC Acceptance	Date/Time
10+05	W. Bank	574					
10+05	W. Toe	562					
10+05	Center	562					
10+05	E. Toe	562					
10+05	E. Bank	574					
9+55	W. Bank	574					
9+55	W. Toe	568					
9+55	Center	564					
9+55	E. Toe	568					
9+55	E. Bank	574					
9+05	W. Bank	574					
9+05	W. Toe	566					
9+05	Center	565					
9+05	Sheet Pile Wall	565					
8+55	W. Bank	574					
8+55	W. Toe	566					
8+55	Center	565					
8+55	Sheet Pile Wall	565					
8+05	W. Bank	574	20.5	STAKED			10/12
8+05	W. Toe	562 563	30.5	562.78	BUN	<i>[Signature]</i>	1:15 PM
8+05	Center	564 563	63.75	563.15			
8+05	Sheet Pile Wall	564 563	97.0	562.84			
7+55	W. Bank	574	24.82	STAKED			10/20
7+55	W. Toe	562	36.82	562.10	BUN	<i>[Signature]</i>	3:20 PM
7+55	Center	562	57.23	561.95		10/20	
7+55	Sheet Pile Wall	562	93.73	562.30		1530	
7+05	W. Bank	574	19.54	STAKED			10/22
7+05	W. Toe	562	31.54	562.20	BUN	<i>[Signature]</i>	3:00 PM
7+05	Center	562	55.40	562.18			
7+05	Sheet Pile Wall	562	91.27	562.10			
6+55	W. Bank	574	23.5	STAKED			10/26
6+55	W. Toe	562	36.5	562.27	BUN	<i>[Signature]</i>	3:30 PM
6+55	Mid 1	562	48.02 57.36	562.24			
6+55	Center	562	44.23	79.23			
6+55	Mid 2	562	101.05	561.98			
6+55	Sheet Pile Wall	562	122.55	561.91			
6+05	W. Bank	574	20.37	STAKED			11/1
6+05	W. Toe	562	32.37	561.93	BUN	<i>[Signature]</i>	8:00 AM
6+05	Mid 1	562	53.97	561.98			
6+05	Center	562	75.37	562.19			
6+05	Mid 2	562	106.79 91.12	562.05			
6+05	E. Toe	562	118.76	562.10			
6+05	E. Bank	574					
5+55	W. Bank	574	26.94	STAKED			11/17
5+55	W. Toe	562	38.94	562.20	BUN	<i>[Signature]</i>	9:00 AM
5+55	Mid 1	562	61.87	561.80			
5+55	Center	562	84.78	562.25			
5+55	Mid 2	562	107.75	562.24			
5+55	E. Toe	562	130.72	562.11			
5+55	E. Bank	574	142.72	STAKED			
5+05	W. Bank	574	19.46	STAKED			12/1
5+05	W. Toe	562	20.98 31.46	561.78	BUN	<i>[Signature]</i>	10:00 AM
5+05	Mid 1	562	49.82	562.0			
5+05	Center	562	68.18	561.92			
5+05	Mid 2	562	86.54	561.98			
5+05	E. Toe	562	104.89	561.80			
5+05	E. Bank	574	116.89	STAKED			

INTERMEDIATE STATIONS

DREDGING

STATION	CONTROL PT.	ACCEPT. ELEV.	ACT. ELEV.	SURVEYORS INITIALS	RETRAC ACCEPT.	DATE TIME
5740	W. TOP	574	STAKED			
5740	W. TOE	562	562.19			11/2
5740	MID 1	562	562.20		BWN <i>DMH</i>	9:00 a
5740	CENTER	562	562.05			
5740	MID 2	562	561.85			
5740	E. TOE	562	561.79			
5740	E. TOP	574	STAKED			
5720	W. TOP	574	STAKED			
5720	W. TOE	562	562.24			11/24
5720	MID 1	562	562.15		BWN <i>DMH</i> 11/25 0800	6:00 PM
5720	CENTER	562	562.72			
5720	MID 2	562	562.18			
5720	E. TOE	562	562.22			
5720	E. TOP	574	STAKED			
5710	W. TOP	574	STAKED			
5710	W. TOE	562	562.0			11/25
5710	MID 1	562	562.05		BWN <i>DMH</i> 11/25 1415	2:00 PM
5710	CENTER	562	561.80			
5710	MID 2	562	561.88			
5710	E. TOE	562	561.53			
5710	E. TOP	574	STAKED			
5775 4175	W. TOP	574	STAKED			
5775 4175	W. TOE	562	561.96			12/1
5775 4175	CENTER	562	562.24		BWN <i>DMH</i> 12/1/98 1030	10:00 AM
5775 4175	E. TOE	562	561.95			
5775 4175	E. TOP	574	STAKED			

INTERMEDIATE STATIONS

DREDGING

STATION	CONTROL PT.	ACCUPT. QUANT.	ACT. QUANT.	SURVEYORS INITIALS	RETRAC. ACCUP.	DATE TIME	
5140	W. TOP	574	STAKED				
5140	W. TOE	562	562.19		BWN <i>[Signature]</i>	11/2	
5140	MID 1	562	562.20			9:00 A	
5140	CENTER	562	562.05				
5140	MID 2	562	561.85				
5140	E. TOE	562	561.79				
5140	E. TOP	574	STAKED				
5120	W. TOP	574	STAKED				
5120	W. TOE	562	562.24			BWN <i>[Signature]</i> 11/25 0800	11/24
5120	MID 1	562	562.15		2:00 P		
5120	CENTER	562	562.72				
5120	MID 2	562	562.18				
5120	E. TOE	562	562.22				
5120	E. TOP	574	STAKED				
5110	W. TOP	574	STAKED				
5110	W. TOE	562	562.0		BWN <i>[Signature]</i> 11/25 1415	11/25	
5110	MID 1	562	562.05			2:00	
5110	CENTER	562	561.80				
5110	MID 2	562	561.88				
5110	E. TOE	562	561.53				
5110	E. TOP	574	STAKED				

INTERMEDIATE STATIONS

DREDGING

STATION	CONTROL PT.	ACCEPT. ELEV.	ACT. ELEV.	SURVEYORS INITIALS	REFER. ACCUR.	DATE / TIME
5140	W. TOP	574	STAKED			
5140	W. TOE	562	562.19			11/23
5140	MID 1	562	562.20		<i>DM</i>	9:00 AM
5140	CENTER	562	562.05	BWN		
5140	MID 2	562	561.85			
5140	E. TOE	562	561.79			
5140	E. TOP	574	STAKED			
5120	W. TOP	574	STAKED			
5120	W. TOE	562	562.24			11/24
5120	MID 1	562	562.15		<i>DM</i>	6:00 PM
5120	CENTER	562	566.72	BWN	11/25 0800	
5120	MID 2	562	562.18			
5120	E. TOE	562	562.22			
5120	E. TOP	574	STAKED			

INTERMEDIATE STATIONS

DREDGING

STATION	CONTROL PT.	ACCEPT. ELEV.	ACT. QUANT.	SURVEYOR'S INITIALS	RETRAC. ACCUR.	DATE TIME	
5740	W. TOP	574	STAKED				
5740	W. TOE	562	562.19			11/2	
5740	MID 1	562	562.20		DWA	9:00 a	
5740	CENTER	562	562.05	BUN			
5740	MID 2	562	561.85				
5740	E. TOE	562	561.79				
5740	E. TOP	574	STAKED				

Scajaquada Creek Sediment Remediation			DREDGING ACCEPTANCE SURVEY		PAGE 2 of 3		
Station Ref Dwg. S-2A & B	Control Point Along Transect	Acceptable Elevation Feet IGLD +0.25/-0.5	Actual Distance from Baseline Along Transect (INPUT BY SURVEYOR)	Actual Elevation Feet IGLD (INPUT BY SURVEYOR)	Surveyor Initials	RETEC Acceptance	Date/Time
10+05	W. Bank	574					
10+05	W. Toe	562					
10+05	Center	562					
10+05	E. Toe	562					
10+05	E. Bank	574					
9+55	W. Bank	574					
9+55	W. Toe	568					
9+55	Center	564					
9+55	E. Toe	568					
9+55	E. Bank	574					
9+05	W. Bank	574					
9+05	W. Toe	566					
9+05	Center	565					
9+05	Sheet Pile Wall	565					
8+55	W. Bank	574					
8+55	W. Toe	566					
8+55	Center	565					
8+55	Sheet Pile Wall	565					
8+05	W. Bank	574	20.5	STAYED			10/12
8+05	W. Toe	562 563	30.5	562.78	BUN	Dnd	1:15 PM
8+05	Center	564 563	63.25	563.15			
8+05	Sheet Pile Wall	564 563	97.0	562.84			
7+55	W. Bank	574					
7+55	W. Toe	562	24.82	STAYED			10/20
7+55	Center	562	36.82	562.10	BUN	Dnd	3:20 PM
7+55	Center	562	53.25	561.95			
7+55	Sheet Pile Wall	562	93.73	562.30			
7+05	W. Bank	574					
7+05	W. Toe	562	19.54	STAYED			10/22
7+05	Center	562	31.54	562.20	BUN	Dnd	3:00 PM
7+05	Center	562	55.40	562.18			
7+05	Sheet Pile Wall	562	91.27	562.10			
6+55	W. Bank	574					
6+55	W. Toe	562	23.5	STAYED			10/26
6+55	W. Toe	562	35.5	562.22			
6+55	Mid 1	562	48.02 57.36	562.24	BUN	Dnd	3:30 PM
6+55	Center	562	48.73	562.07			
6+55	Center	562	79.23	561.98			
6+55	Mid 2	562	101.09	561.91			
6+55	Sheet Pile Wall	562	122.55	561.91			
6+05	W. Bank	574					
6+05	W. Toe	562	20.37	STAYED			11/1
6+05	W. Toe	562	32.37	561.93			
6+05	Mid 1	562	53.37	561.98	BUN	Dnd	8:00 AM
6+05	Center	562	75.37	562.19			
6+05	Center	562	106.74 91.17	562.05			
6+05	E. Toe	562	118.76	562.10			
6+05	E. Bank	574					
5+55	W. Bank	574					
5+55	W. Toe	562	26.34	STAYED			11/19
5+55	W. Toe	562	32.84	562.26			
5+55	Mid 1	562	61.81	561.86	BUN	Dnd	9:00 AM
5+55	Center	562	84.78	562.05			
5+55	Center	562	107.75	562.24			
5+55	E. Toe	562	132.72	562.11			
5+55	E. Bank	574	142.72	STAYED			
5+05	W. Bank	574					
5+05	W. Toe	562					
5+05	Mid 1	562					
5+05	Center	562					
5+05	Mid 2	562					
5+05	E. Toe	562					
5+05	E. Bank	574					

INTERMEDIATE STA.

DREDGING

STATION	CONTROL PT	ACCP. BLK.	ACT. BLK.	SURVEYORS INITIALS	RETSC ACCOP.	DIST/ TIME
5+90	W.TOP	574	STAKED			
5+90	W.TOP	562	562.1		11/4 0900	11/4
5+90	MID 1	562	562	BUN	<i>[Signature]</i>	8:30 A
5+90	CENTER	562	561.74			
5+90	MID 2	562	561.90			
5+90	E.TOP	562	562.05			
5+85	W.TOP	574	STAKED			
5+85	W.TOP	562	562.25		11/6/98	11/6
5+85	MID 1	562	562.11	BUN	<i>[Signature]</i>	2:00 P
5+85	CENTER	562	562.25			
5+85	MID 2	562	562.18			
5+85	E.TOP	562	562.17			
5+85	E.TOP	574	STAKED			
5+75	W.TOP	574	STAKED			
5+75	W.TOP	562	561.94		<i>[Signature]</i>	11/7
5+75	MID 1	562	562.13	BUN	11/7/98	11:30 P
5+75	CENTER	562	562.06			
5+75	MID 2	562	562.09			
5+75	E.TOP	562	562.24			
5+75	E.TOP	574	STAKED			

INTERMEDIATE STA.

DREDGING

STATION	CONTROL PT.	ACCP. ELEV.	ACT. ELEV.	SURVEYORS INITIALS	RESET ACCP.	DATE/TIME
5+90	W. TOP	574	STAKED			
5+90	W. TOE	562	562.1			
5+90	MID 1	562	562	BUN	11/4 0900 Dif	11/4 8:30 AM
5+90	CENTER	562	561.74			
5+90	MID 2	562	561.90			
5+90	E. TOE	562	562.05			
5+85	W. TOP	574	STAKED			
5+85	W. TOE	562	562.25			
5+85	MID 1	562	562.11	BUN	11/6/98 Dif	11/6 2:00 PM
5+85	CENTER	562	562.25			
5+85	MID 2	562	562.18			
5+85	E. TOE	562	562.17			
5+85	E. TOP	574	STAKED			

INTERMEDIATE STA.

DREDGING

STATION	CONTROL PT.	ACCP. ELEV.	ACT. ELEV.	SURVEYORS INITIALS	RETIC ACCOP.	DATE/ TIME
5+90	W. TOP	574	STAKED			
5+90	W. TOE	562	562.1			
5+90	M.D 1	562	562	BUN	11/4 0900 BUN	11/4
5+90	CENTER	562	561.74			8:30 A.
5+90	M.D 2	562	561.90			
5+90	E. TOE	562	562.05			

Station Ref Dwg. S-2A & B	Control Point Along Transect	Acceptable Elevation Feet IGLD +0.25/-0.5	Actual Distance from Baseline Along Transect (INPUT BY SURVEYOR)	Actual Elevation Feet IGLD (INPUT BY SURVEYOR)	Surveyor Initials	RETEC Acceptance	Date/Time
10+05	W. Bank	574					
10+05	W. Toe	562					
10+05	Center	562					
10+05	E. Toe	562					
10+05	E. Bank	574					
9+55	W. Bank	574					
9+55	W. Toe	566					
9+55	Center	564					
9+55	E. Toe	566					
9+55	E. Bank	574					
9+05	W. Bank	574					
9+05	W. Toe	566					
9+05	Center	565					
9+05	Sheet Pile Wall	565					
8+55	W. Bank	574					
8+55	W. Toe	566					
8+55	Center	565					
8+55	Sheet Pile Wall	565					
8+05	W. Bank	574	20.5	STAYED			10/12
8+05	W. Toe	564 563	30.5	562.78	BUN	<i>[Signature]</i>	1:15 PM
8+05	Center	564 563	63.75	563.15			
8+05	Sheet Pile Wall	564 563	97.0	562.84			
7+55	W. Bank	574	24.82	STAYED			10/20
7+55	W. Toe	562	36.82	562.10	BUN	<i>[Signature]</i>	3:20 PM
7+55	Center	562	55.28	561.95			
7+55	Sheet Pile Wall	562	93.73	562.20			
7+05	W. Bank	574	19.54	STAYED			10/22
7+05	W. Toe	562	31.54	562.20	BUN	<i>[Signature]</i>	3:00 PM
7+05	Center	562	55.40	562.18			
7+05	Sheet Pile Wall	562	91.27	562.10			
6+55	W. Bank	574	23.5	STAYED			10/26
6+55	W. Toe	562	35.5	562.22	BUN	<i>[Signature]</i>	3:30 PM
6+55	Mid 1	562	48.00 57.36	562.24			
6+55	Center	562	49.23 79.23	562.07			
6+55	Mid 2	562	101.05	561.98			
6+55	Sheet Pile Wall	562	127.55	561.91			
6+05	W. Bank	574	20.37	STAYED			11/1
6+05	W. Toe	562	32.37	561.93	BUN	<i>[Signature]</i>	8:00 AM
6+05	Mid 1	562	53.37	561.98			
6+05	Center	562	75.37	562.19			
6+05	Mid 2	562	106.70 97.17	562.65			
6+05	E. Toe	562	118.76	562.10			
6+05	E. Bank	574					
5+55	W. Bank	574					
5+55	W. Toe	562					
5+55	Mid 1	562					
5+55	Center	562					
5+55	Mid 2	562					
5+55	E. Toe	562					
5+55	E. Bank	574					
5+05	W. Bank	574					
5+05	W. Toe	562					
5+05	Mid 1	562					
5+05	Center	562					
5+05	Mid 2	562					
5+05	E. Toe	562					
5+05	E. Bank	574					

INTERMEDIATE STATIONS
DREDGING

STATION	CONTROL PT	ACCP ELEV.	ACT. ELEV.	SURVEYORS INITIALS	RETER ACCP.	DATE TIN
6+80	W. TOP	574	STAKED			
6+80	W. TOE	562	561.73	BKN	PMB	10/21 2:15
6+80	CENTER	562	562.05			
6+80	E. TOE	562	561.57			
	SHEET PILE					
6+70	W. TOP	574.0	STAKED			
6+70	W. TOE	562.0	562.18	BKN	PMB	10/27 8:30
6+70	CENTER	562.0	562.0			
6+70	E. TOE	562.0	561.96			
6+40	W. TOP	574.0	STAKED			
6+40	W. TOE	562.0	562.05			
6+40	MID 1	562.0	561.9		SW BKN	10/28 11:30 A
6+40	CENTER	562.0	562.0			
6+40	MID 2	562.0	562.12			
6+40	E. TOE	562.0	562.08			
	SHEET PILE					
6+15	W. TOP	574.0	STAKED			
6+15	W. TOE	562.0	562.06		SW BKN	10/30 8:30 AM
6+15	MID 1	562.0	562.06			
6+15	CENTER	562.0	562.12			
6+15	MID 2	562.0	562.24			
6+15	E. TOE	562.0	561.68			

INTERMEDIATE STATIONS
DREDGING

STATION	CONTROL PT	ACCP. ELEV.	ACT. ELEV.	SURVEYORS INITIALS	RETR ACCOP.	DATE / TIME
6780	W. TOP	574	STOKED			
6780	W. TOE	562	561.73	BWN	<i>[Signature]</i>	10/26 2:15
6780	CENTER	562	562.05			
6780	E. TOE	562	561.57			
	SHEET PILE					
6770	W. TOP	574.0	STOKED			
6770	W. TOE	562.0	562.18	BWN	<i>[Signature]</i>	10/27 8:30
6770	CENTER	562.0	562.0			
6770	E. TOE	562.0	561.96			
	..					

Scajaquada Creek Sediment Remediation

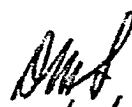



DREDGING ACCEPTANCE SURVEY

Station Ref Dwg.	Control Point Along Transect	Acceptable Elevation Feet IGLD -0.25/-0.5	Actual Distance from Baseline Along Transect (INPUT BY SURVEYOR)	Actual Elevation Feet IGLD (INPUT BY SURVEYOR)	Surveyor Initials	RETEC Acceptance
S-2A & B						
4+55	W Bank	574	16.58	572.25	BAN	SW 12/3/98 12/3 5:00 PM
4+55	W Toe	562	28.58	562.29		
4+55	Mid 1	562	46.05	562.18		
4+55	Center	562	63.53	562.05		
4+55	Mid 2	562	81.00	562.11		
4+55	E Toe	562	98.47	562.2		
4+55	E Bank	574	110.47	562.2		
4-01	W Bank	574				
4-01	W Toe	562				
4-01	Mid 1	562				
4-01	Center	562				
4-01	Mid 2	562				
4-01	E Toe	562				
4-01	E Bank	574				
3+55	W Bank	574				
3+55	W Toe	562				
3+55	Mid 1	560				
3+55	Center	560				
3+55	Mid 2	560				
3+55	E Toe	560				
3+55	E Bank	574				
3+05	W Bank	574				
3+05	W Toe	560				
3+05	Center	560				
3+05	E Toe	560				
3+05	E Bank	574				
2+55	W Bank	574				
2+55	W Toe	560				
2+55	Center	560				
2+55	E Toe	560				
2+55	E Bank	574				
2+05	W Bank	574				
2+05	W Toe	560				
2+05	Center	560				
2+05	E Toe	560				
2+05	E Bank	574				
1+55	W Bank	574				
1+55	W Toe	560				
1+55	Center	560				
1+55	E Toe	560				
1+55	E Bank	574				
1+05	W Bank	574				
1+05	W Toe	562				
1+05	Center	560				
1+05	E Toe	562				
1+05	E Bank	574				
0+55	W Bank	574				
0+55	W Toe	562				
0+55	Center	562				
0+55	E Toe	562				
0+55	E Bank	574				
75 degrees						
0+01	W Bank	574				
0+01	W Toe	562				
0+01	Center	562				
0+01	E Toe	562				
0+01	E Bank	574				

FORM PREPARED 7-22

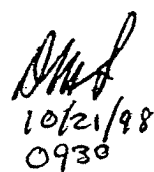

INTERMEDIATE STA.

DREDGING

STATION	CONTROL PT.	ACCEP. ELEV.	ACT. ELEV.	SURVEYORS INITIALS	RETEL ACCEPTANCE	DATE/TIME
7+35	W. TOP	574	STAKED			
7+35	W. TOE	562	562.09	BWN	 10/21/98 0930	10/21
7+35	CENTER	562	562.05			8:30 AM
7+35	E. TOE SHEET PILE	562	561.98			
7+20	W. TOP	574 572.8	STAKED			
7+20	W. TOE	562.0	562.11	BWN		10/22
7+20	CENTER	562.0	562.20			9:15 AM
7+20	E. TOE SHEET PILE	562.0	561.91			
6+95	W. TOP	574.0	STAKED			
6+95	W. TOE	562.0	562.2	BWN	 10/23 16:35	10/23
6+95	CENTER	562.0	561.89			4:30 PM
6+95	E. TOE SHEET PILE	562.0	562.1			
6+90	W. TOP	574.0	STAKED			
6+90	W. TOE	562.0	562.2	BWN		10/24
6+90	CENTER	562.0	562.18			2:00 PM
6+90	E. TOE SHEET PILE	562.0	561.89			

INTERMEDIATE STA.


DREDGING

STATION	CONTROL PT.	ACCEP. ELEV.	ACT. ELEV.	SURVEYORS INITIALS	RETEN ACCEPTANCE	DATE/TIME
7+35	W. TOP	574	STAKED			
7+35	W. TOE	562	562.09	BWN	 10/21/98 0930	10/21 8:30 AM
7+35	CENTER	562	562.05			
7+35	E. TOE SHEET PILE	562	561.98			
7+20	W. TOP	574 572.8	STAKED			
7+20	W. TOE	562.0	562.11			
7+20	CENTER	562.0	562.20			
7+20	E. TOE SHEET PILE	562.0	561.91			
6+95	W. TOP	574.0	STAKED	BWN	 10/23 16:35	10/23 4:30 PM
6+95	W. TOE	562.0	562.2			
6+95	CENTER	562.0	561.89			
6+95	E. TOE SHEET PILE	562.0	562.1			

Station Ref Dwg. S-2A & B	Control Point Along Transect	Acceptable Elevation Feet IGLD +0.25/-0.5	Actual Distance from Baseline Along Transect (INPUT BY SURVEYOR)	Actual Elevation Feet IGLD (INPUT BY SURVEYOR)	Surveyor Initials	RETEC Acceptance	Date/Time
10+05	W. Bank	574					
10+05	W. Toe	562					
10+05	Center	562					
10+05	E. Toe	562					
10+05	E. Bank	574					
9+55	W. Bank	574					
9+55	W. Toe	566					
9+55	Center	564					
9+55	E. Toe	566					
9+55	E. Bank	574					
9+05	W. Bank	574					
9+05	W. Toe	566					
9+05	Center	565					
9+05	Sheet Pile Wall	565					
8+55	W. Bank	574					
8+55	W. Toe	566					
8+55	Center	565					
8+55	Sheet Pile Wall	565					
8+05	W. Bank	574	20.5	572.60			10/12
8+05	W. Toe	566 563	30.5	562.78	BHW	<i>[Signature]</i>	1:15 Pm.
8+05	Center	564 563	63.75	563.15			
8+05	Sheet Pile Wall	564 563	97.0	562.84			
7+55	W. Bank	574	24.82	572.60			10/20
7+55	W. Toe	562	36.82	562.10	BHW	<i>[Signature]</i>	3:20 Pm
7+55	Center	562	59.28	561.95			
7+55	Sheet Pile Wall	562	93.73	562.20			
7+05	W. Bank	574	19.54	572.60			10/22
7+05	W. Toe	562	31.54	562.20	BHW	<i>[Signature]</i>	3:20 Pm
7+05	Center	562	55.40	562.18			
7+05	Sheet Pile Wall	562	91.27	562.10			
6+55	W. Bank	574					
6+55	W. Toe	562					
6+55	Mid 1	562					
6+55	Center	562					
6+55	Mid 2	562					
6+55	Sheet Pile Wall	562					
6+05	W. Bank	574					
6+05	W. Toe	562					
6+05	Mid 1	562					
6+05	Center	562					
6+05	Mid 2	562					
6+05	E. Toe	562					
6+05	E. Bank	574					
5+55	W. Bank	574					
5+55	W. Toe	562					
5+55	Mid 1	562					
5+55	Center	562					
5+55	Mid 2	562					
5+55	E. Toe	562					
5+55	E. Bank	574					
5+05	W. Bank	574					
5+05	W. Toe	562					
5+05	Mid 1	562					
5+05	Center	562					
5+05	Mid 2	562					
5+05	E. Toe	562					
5+05	E. Bank	574					

INTERMEDIATE STA.

DREDGING

STATION	CONTROL PT.	ACCEP. ELEV.	ACT. ELEV.	SURVEYOR'S INITIALS	RETEL ACCEPTANCE	DATE/TIME
7+35	W. TOP	574	STAGED			
7+35	W. TOE	562	562.09	BAN	 10/21/98 0930	10/21 8:30 AM
7+35	CENTER	562	562.05			
7+35	E. TOE SHEET PILE	562	561.98			

INTERMEDIATE STA.

DREDGING

STATION	CONTROL PT	ACCP. ELEV.	ACT. ELEV.	SURVEYORS INITIALS	RECEIPT ACCEPTANCE	DATE / TIME
8+35	W. TOE	563	562.95	BHN	<i>[Signature]</i>	10/12 1:15 PM
	CENTER	563	563.04			
	E. TOE	563	562.89			
7+85	W. TOP	574	STAKED			
7+85	W. TOE	562.7	562.78	BHN.	<i>[Signature]</i> 10/14/98 1600	10/14
7+85	CENTER	562.7	562.72			
7+85	SHEET PILE E. TOE	562.7	562.82			
7+70	W. TOP	574	STAKED			
7+70	W. TOE	562.4	562.54	BHN	<i>[Signature]</i> 16 Oct 98 6:05 P	10/16 6:05 PM
7+70	CENTER	562.4	562.38			
7+70	E. TOE SHEET PILE	562.4	562.44			
7+60	W. TOP	574	STAKED			
7+60	W. TOE	562.1	561.99	BHN	<i>[Signature]</i> 10/19/98 1200	10/19 11:30 AM
7+60	CENTER	562.1	562.08			
7+60	E. TOE SHEET PILE	562.1	562.11			
7+40	W. TOP	574	STAKED			
7+40	W. TOE	562.0	562.14	BHN	<i>[Signature]</i> 10/20/98 1530	10/20 3:20 PM
7+40	CENTER	562.0	561.98			
7+40	E. TOE SHEET PILE	562.0	562.11			

Scajquada Creek Sediment Remediation			DREDGING ACCEPTANCE SURVEY		PAGE 2 of 3		
Station Ref Dwg. S-2A & B	Control Point Along Transect	Acceptable Elevation Feet IGLD +0.25/-0.5	Actual Distance from Baseline Along Transect (INPUT BY SURVEYOR)	Actual Elevation Feet IGLD (INPUT BY SURVEYOR)	Surveyor Initials	RETEC Acceptance	Date/Time
10+05	W. Bank	574					
10+05	W. Toe	562					
10+05	Center	562					
10+05	E. Toe	562					
10+05	E. Bank	574					
9+55	W. Bank	574					
9+55	W. Toe	566					
9+55	Center	564					
9+55	E. Toe	566					
9+55	E. Bank	574					
9+05	W. Bank	574					
9+05	W. Toe	566					
9+05	Center	565					
9+05	Sheet Pile Wall	565					
8+55	W. Bank	574					
8+55	W. Toe	566					
8+55	Center	565					
8+55	Sheet Pile Wall	565					
8+05	W. Bank	574	20.5	STOKED	BNA	<i>[Signature]</i>	10/12 1:15 Pm.
8+05	W. Toe	564 563	30.5	562.78			
8+05	Center	564 563	63.75	563.15			
8+05	Sheet Pile Wall	564 563	97.0	562.84			
			97.0				
7+55	W. Bank	574	24.02	STOKED	BNA	<i>[Signature]</i> 10/20 1530	10/20 3:20 Pm.
7+55	W. Toe	562	36.02	562.10			
7+55	Center	562	57.28	561.95			
7+55	Sheet Pile Wall	562	93.73	562.20			
7+05	W. Bank	574					
7+05	W. Toe	562					
7+05	Center	562					
7+05	Sheet Pile Wall	562					
		574					
6+55	W. Bank	574					
6+55	W. Toe	562					
6+55	Mid 1	562					
6+55	Center	562					
6+55	Mid 2	562					
6+55	Sheet Pile Wall	562					
6+05	W. Bank	574					
6+05	W. Toe	562					
6+05	Mid 1	562					
6+05	Center	562					
6+05	Mid 2	562					
6+05	E. Toe	562					
6+05	E. Bank	574					
5+55	W. Bank	574					
5+55	W. Toe	562					
5+55	Mid 1	562					
5+55	Center	562					
5+55	Mid 2	562					
5+55	E. Toe	562					
5+55	E. Bank	574					
5+05	W. Bank	574					
5+05	W. Toe	562					
5+05	Mid 1	562					
5+05	Center	562					
5+05	Mid 2	562					
5+05	E. Toe	562					
5+05	E. Bank	574					

INTERMEDIATE STA.

DREDGING

STATION	CONTROL PT	ACCP. Elev.	ACT. Elev.	SURVEYORS INITIALS	RETR. ACCEPTANCE	DOTS / TIME
8+35	W. TOE	563	562.95	BHN	<i>[Signature]</i>	10/12
	CENTER	563	563.04			1:15 PM
	E. TOE	563	562.89			
7+85	W. TOP	574	STAKED	BHN.	<i>[Signature]</i> 10/14/98 1600	10/14
7+85	W. TOE	562.7	562.78			
7+85	CENTER	562.7	562.72			
7+85	SHEET PILE E. TOE	562.7	562.82			
7+70	W. TOP	574	STAKED	BHN	<i>[Signature]</i> 16 Oct 98 6:05 P	10/16 6:05 PM
7+70	W. TOE	562.4	562.54			
7+70	CENTER	562.4	562.38			
7+70	E. TOE SHEET PILE	562.4	562.44			
7+60	W. TOP	574	STAKED	BHN	<i>[Signature]</i> 10/19/98 1200	10/19 11:30 AM
7+60	W. TOE	562.1	561.99			
7+60	CENTER	562.1	562.08			
7+60	E. TOE SHEET PILE	562.1	562.1			

Scajaguada Creek Sediment Remediation			DREDGING ACCEPTANCE SURVEY		PAGE 2 of 3		
Station Ref Dwg. S-2A & B	Control Point Along Transect	Acceptable Elevation Feet IGLD +0.25/-0.5	Actual Distance from Baseline Along Transect (INPUT BY SURVEYOR)	Actual Elevation Feet IGLD (INPUT BY SURVEYOR)	Surveyor Initials	RETEC Acceptance	Date/Time
10+05	W. Bank	574					
05	W. Toe	562					
05	Center	562					
10+05	E. Toe	562					
10+05	E. Bank	574					
9+55	W. Bank	574					
9+55	W. Toe	568					
9+55	Center	564					
9+55	E. Toe	568					
9+55	E. Bank	574					
9+05	W. Bank	574					
9+05	W. Toe	566					
9+05	Center	565					
9+05	Sheet Pile Wall	565					
8+55	W. Bank	574					
8+55	W. Toe	566					
8+55	Center	565					
8+55	Sheet Pile Wall	565					
8+05	W. Bank	574	20.5	STAYED			10/12
8+05	W. Toe	562 563	30.5	562.78	BUN	<i>[Signature]</i>	1:15 PM
8+05	Center	564 563	63.75	563.15			
8+05	Sheet Pile Wall	564 563	97.0	562.84			
			570				
7+55	W. Bank	574	24.82	STAYED			10/20
7+55	W. Toe	562	36.82	562.10	BUN	<i>[Signature]</i>	3:20 PM
7+55	Center	562	57.28	561.95			
7+55	Sheet Pile Wall	562	93.73	562.30			
7+05	W. Bank	574	19.54	STAYED			10/22
7+05	W. Toe	562	31.54	562.20	BUN	<i>[Signature]</i>	3:00 PM
05	Center	562	55.40	562.18			
05	Sheet Pile Wall	562	91.27	562.10			
		574					
6+55	W. Bank	574	23.5	STAYED			10/26
6+55	W. Toe	562	36.5	562.27	BUN	<i>[Signature]</i>	3:30 PM
6+55	Mid 1	562	48.08 57.36	562.24			
6+55	Center	562	49.23	792.3			
6+55	Mid 2	562	101.09	562.07			
6+55	Sheet Pile Wall	562	122.55	561.91			
6+05	W. Bank	574					
6+05	W. Toe	562					
6+05	Mid 1	562					
6+05	Center	562					
6+05	Mid 2	562					
6+05	E. Toe	562					
6+05	E. Bank	574					
5+55	W. Bank	574					
5+55	W. Toe	562					
5+55	Mid 1	562					
5+55	Center	562					
5+55	Mid 2	562					
5+55	E. Toe	562					
5+55	E. Bank	574					
5+05	W. Bank	574					
5+05	W. Toe	562					
5+05	Mid 1	562					
5+05	Center	562					
5+05	Mid 2	562					
5+05	E. Toe	562					
5+05	E. Bank	574					

INTERMEDIATE STATIONS

PRODING

STATION	CONTROL PT	ACCP. ELAV.	ACT. ELAV.	SURVEYORS INITIALS	RETIC ACCEPTANCE	DATE / TIME
8+35	W. TOE	563	562.95	BHN	<i>[Signature]</i>	10/12 1:15
	CENTER	563	563.04			
	E. TOE	563	562.89			
7+85	W. TOP	574	STAKED	BHN.	<i>[Signature]</i> 10/14/98 1600	10/14
7+85	W. TOE	562.7	562.78			
7+85	CENTER	562.7	562.72			
7+85	SHEET PILE E. TOE	562.7	562.82			
7+70	W. TOP	574	STAKED	BHN	<i>[Signature]</i> 16 Oct 98 6:05 P	10/16 6:05 P
7+70	W. TOE	562.4	562.54			
7+70	CENTER	562.4	562.38			
7+70	E. TOE SHEET PILE	562.4	562.24			




Station Ref Dwg.	Control Point Along Transect	Acceptable Elevation Feet IGLD +0.25/-0.5	Actual Distance from Baseline Along Transect (INPUT BY SURVEYOR)	Actual Elevation Feet IGLD (INPUT BY SURVEYOR)	Surveyor Initials	RETEC Acceptance	Date/Time
10+05 S-2A & B	W. Bank	574					
	W. Toe	562					
	Center	562					
	E. Toe	562					
10+05	E. Bank	574					
9+55	W. Bank	574					
	W. Toe	566					
	Center	564					
	E. Toe	566					
	E. Bank	574					
9+05	W. Bank	574					
	W. Toe	566					
	Center	565					
	Sheet Pile Wall	565					
8+55	W. Bank	574					
	W. Toe	566					
	Center	565					
	Sheet Pile Wall	565					
8+05	W. Bank	574	20.5	562.60	Bart	<i>[Signature]</i>	10/12 1:15 PM.
	W. Toe	566 563	30.5	562.78			
	Center	564 563	63.75	563.15			
	Sheet Pile Wall	564 563	97.0	562.84			
			67.0				
7+55	W. Bank	574					
	W. Toe	562					
	Center	562					
	Sheet Pile Wall	562					
7+05	W. Bank	574					
	W. Toe	562					
	Center	562					
	Sheet Pile Wall	562					
		574					
6+55	W. Bank	574					
	W. Toe	562					
	Mid 1	562					
	Center	562					
	Mid 2	562					
	Sheet Pile Wall	562					
6+05	W. Bank	574					
	W. Toe	562					
	Mid 1	562					
	Center	562					
	Mid 2	562					
	E. Toe	562					
6+05	E. Bank	574					
5+55	W. Bank	574					
	W. Toe	562					
	Mid 1	562					
	Center	562					
	Mid 2	562					
	E. Toe	562					
5+55	E. Bank	574					
5+05	W. Bank	574					
	W. Toe	562					
	Mid 1	562					
	Center	562					
	Mid 2	562					
	E. Toe	562					
5+05	E. Bank	574					

STATION	CONTROL PT	ACCD. ELEV.	ACT. ELEV.	SURVEYORS INITIALS	RETR ACCEPTANCE	DATE / TIME
8+35	W. TOE	563	562.95	BHW	<i>[Signature]</i>	10/12
	CENTER	563	563.04			
	E. TOE	563	562.89			

INTERMEDIATE STA.
DREDGING

STATION	CONTROL PT	ACCP. ELEV	ACT. ELEV.	SURVEYORS INITIALS	PETER ACCEPTANCE	DATE / TIME
8+35	W. TOE	563	562.95	BHN	<i>[Signature]</i>	10/12
	CENTER	563	563.64			1:15
	E. TOE	563	562.89			
7+85	W. TOP	574	STAKED	BHN.	<i>[Signature]</i> 10/14/98 1600	10/14
7+85	W. TOE	562.7	562.78			
7+85	CENTER	562.7	562.72			
7+85	SHEEP PILE E. TOE	562.7	562.82			

INTERMEDIATE STA.
DREDGING

STATION	CONTROL PT.	ACCEP. ELEV.	ACT. ELEV.	SURVEYORS INITIALS	RETEC ACCEPTANCE	DATE/TIME
9+30	W. TOE	563 563	563.20	BWN		9/21/98 2:30 P
	CENTER	563	563.15			
	E. TOE	563	562.95			
8+80	W. TOE	563	562.85	BWN		9/21/98 2:30 P
	CENTER	563	562.71			
	E. TOE	563	563.08			
8+35	W. TOE	563	562.78	BWN		10/2/98 4:45 P
	CENTER	563	562.65			
	E. TOE	563	562.45			

Station	Control Point	Acceptable Elevation	Actual Distance from Baseline	Actual Elevation	Surveyor	RETEC	Date/Time
Ref Dwg	Along Transect	Feet IGLD +0.25/-0.5	Along Transect	Feet IGLD	Initials	Acceptance	
			(INPUT BY SURVEYOR)	(INPUT BY SURVEYOR)			
S-2A & B							
10+05	W Bank	574	23.5	574 STAKED			
10+05	W Toe	562	35.5	561.72			9/11/98
10+05	Center	562	53.0	561.46			4:15
10+05	E Toe	562	71.4	561.88			
10+05	E Bank	574	83.4	574 STAKED			
9+55	W Bank	574	23.5	574 STAKED			
9+55	W Toe	566	31.5	564.57			9/11/98
9+55	Center	564	51.0	562.27			4:15
9+55	E Toe	566	70.5	565.36			
9+55	E Bank	574	78.5	574 STAKED			
9-05	W Bank	574	18.5	574 STAKED			9/21/98
9-05	W Toe	566	29.5	563.17			
9-05	Center	566	48.55	563.01			1:30 Pm.
9-05	Sheet Pile Wall	565	78.60	562.13			
8-55	W Bank	574	18.5	574 STAKED			
8-55	W Toe	566	26.5	562.83			9/30/98
8-55	Center	565	60.2	563.13			1:30 Pm
8-55	Sheet Pile Wall	565	93.1	562.90			1:30
8-05	W Bank	574	20.50	574 STAKED			
8-05	W Toe	564	30.5	563.02			10/6/98
8-05	Center	564	63.75	562.5			2:15 Pm
8-05	Sheet Pile Wall	564	97.00	562.6			
7-55	W Bank	574					
7-55	W Toe	562					
7-55	Center	562					
7-55	Sheet Pile Wall	562					
7-05	W Bank	574					
7-05	W Toe	562					
7-05	Center	562					
7-05	Sheet Pile Wall	562					
6-55	W Bank	574					
6-55	W Toe	562					
6-55	Mid 1	562					
6-55	Center	562					
6-55	Mid 2	562					
6-55	Sheet Pile Wall	562					
6-05	W Bank	574					
6-05	W Toe	562					
6-05	Mid 1	562					
6-05	Center	562					
6-05	Mid 2	562					
6-05	E Toe	562					
6-05	E Bank	574					
5-55	W Bank	574					
5-55	W Toe	562					
5-55	Mid 1	562					
5-55	Center	562					
5-55	Mid 2	562					
5-55	E Toe	562					
5-55	E Bank	574					
5-05	W Bank	574					
5-05	W Toe	562					
5-05	Mid 1	562					
5-05	Center	562					
5-05	Mid 2	562					
5-05	E Toe	562					
5-05	E Bank	574					

103?

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561.73

Scajaquada Creek Sediment Remediation

DREDGING ACCEPTANCE SURVEY

Station Ref Dwg	Control Point Along Transect	Acceptable Elevation Feet IGLD +0.25/-0.5	Actual Distance from Baseline Along Transect (INPUT BY SURVEYOR)	Actual Elevation Feet IGLD (INPUT BY SURVEYOR)	Surveyor Initials	RETEC Acceptance	Date/Time
S-2A & B							
10+05	W Bank	574	23.5	574 STAKED			
10+05	W Toe	562	35.5	561.77			9/11/98
10+05	Center	562	53.05	561.46			4:15
10+05	E Toe	562	71.4	561.88			
10+05	E Bank	574	83.4	574 STAKED			
9+55	W Bank	574	23.5	574 STAKED			
9+55	W Toe	566	31.5	564.97			9/11/98
9+55	Center	564	51.0	562.27			4:15
9+55	E Toe	566	70.5	565.36			
9+55	E Bank	574	78.5	574 STAKED			
9+05	W Bank	574	18.5	574 STAKED			9/21/98
9+05	W Toe	566	29.5	563.17			1:30 Pm.
9+05	Center	566	48.55	563.01			
9+05	Sheet Pile Wall	565	78.60	563.12			
				574 STAKED			
8+55	W Bank	574	18.5	574 STAKED			
8+55	W Toe	566	26.5	562.83			9/30/98
8+55	Center	565	40.2	563.13			1:30 Pm
8+55	Sheet Pile Wall	565	93.7	562.90			13:30
8+05	W Bank	574					
8+05	W Toe	564					
8+05	Center	564					
8+05	Sheet Pile Wall	564					
7+55	W Bank	574					
7+55	W Toe	562					
7+55	Center	562					
7+55	Sheet Pile Wall	562					
7+05	W Bank	574					
7+05	W Toe	562					
7+05	Center	562					
7+05	Sheet Pile Wall	562					
6+55	W Bank	574					
6+55	W Toe	562					
6+55	Mid 1	562					
6+55	Center	562					
6+55	Mid 2	562					
6+55	Sheet Pile Wall	562					
6+05	W Bank	574					
6+05	W Toe	562					
6+05	Mid 1	562					
6+05	Center	562					
6+05	Mid 2	562					
6+05	E Toe	562					
6+05	E Bank	574					
5+55	W Bank	574					
5+55	W Toe	562					
5+55	Mid 1	562					
5+55	Center	562					
5+55	Mid 2	562					
5+55	E Toe	562					
5+55	E Bank	574					
5+05	W Bank	574					
5+05	W Toe	562					
5+05	Mid 1	562					
5+05	Center	562					
5+05	Mid 2	562					
5+05	E Toe	562					
5+05	E Bank	574					

563?

AS PER RETEC

AS PER RETEC

AS PER RETEC

565.4

561.73

Scajaguada Creek Sediment Remediation

DREDGING ACCEPTANCE SURVEY

Station	Control Point	Acceptable Elevation	Actual Distance from Baseline Along Transect	Actual Elevation	Surveyor Initials	RETEC Acceptance	Date/Time
Ref Dwg.	Along Transect	Feet IGLD +0.25/-0.5	(INPUT BY SURVEYOR)	Feet IGLD	(INPUT BY SURVEYOR)		
10-05	W. Bank	574	23.5	574 STAKED			
10-05	W. Toe	562	35.5	561.77			
10-05	Center	562	53.05	561.46			
10-05	E. Toe	562	71.4	561.88			
10-05	E. Bank	574	83.4	574 STAKED			
9-55	W. Bank	574	23.5	574 STAKED			
9-55	W. Toe	566	31.5	564.97			
9-55	Center	564	51.0	562.27			
9-55	E. Toe	566	70.5	565.36			
9-55	E. Bank	574	78.5	574 STAKED			
9-05	W. Bank	574					
9-05	W. Toe	566					
9-05	Center	565					
9-05	Sheet Pile Wall	565					
8-55	W. Bank	574					
8-55	W. Toe	566					
8-55	Center	565					
8-55	Sheet Pile Wall	565					
8-05	W. Bank	574					
8-05	W. Toe	564					
8-05	Center	564					
8-05	Sheet Pile Wall	564					
7-55	W. Bank	574					
7-55	W. Toe	562					
7-55	Center	562					
7-55	Sheet Pile Wall	562					
7-05	W. Bank	574					
7-05	W. Toe	562					
7-05	Center	562					
7-05	Sheet Pile Wall	562					
6-55	W. Bank	574					
6-55	W. Toe	562					
6-55	Mid 1	562					
6-55	Center	562					
6-55	Mid 2	562					
6-55	Sheet Pile Wall	562					
6-05	W. Bank	574					
6-05	W. Toe	562					
6-05	Mid 1	562					
6-05	Center	562					
6-05	Mid 2	562					
6-05	E. Toe	562					
6-05	E. Bank	574					
5-55	W. Bank	574					
5-55	W. Toe	562					
5-55	Mid 1	562					
5-55	Center	562					
5-55	Mid 2	562					
5-55	E. Toe	562					
5-55	E. Bank	574					
5-05	W. Bank	574					
5-05	W. Toe	562					
5-05	Mid 1	562					
5-05	Center	562					
5-05	Mid 2	562					
5-05	E. Toe	562					
5-05	E. Bank	574					

Handwritten signature and date: *[Signature]* 9/11/98

Handwritten signature and date: *[Signature]* 9/11/98

4:15




4:15

565.46

561.73

INTERMEDIATE SECTIONS


ADDITIONAL DRESSING

STATION	CONTROL PT.	ACCP. ELEV.	ACT. ELEV.	SURVEYOR'S INITIAL	RETEL ACCEPTANCE	DATE / TIME
13+35	W. TOE	564.0	563.9	BUN		9/24/98 10:00 AM 10:50 9/24/98
	CENTER	563.5	563.25			
	E. TOE	564.0	564.07			
13+90	W. TOE	563	562.72	BUN		9/26/98 11:00 AM 11:30
	CENTER	562.5	562.23			
	E. TOE	563	563.20			
14+45	W. TOE	564	564.07	BUN		9/26/98 11:00 AM 11:30
	CENTER	563.5	563.39			
	E. TOE	564	563.91			

Station Ref Dwg.	Control Point Along Transect	Acceptable Elevation Feet IGLD +0.25/-0.5	Actual Distance from Baseline Along Transect (INPUT BY SURVEYOR)	Actual Elevation Feet IGLD (INPUT BY SURVEYOR)	Surveyor Initials	RETEC Acceptance	Date/Time
15-85	W. Bank	574					
15-85	W. Toe	564					
15-85	Center	564					
15-85	E. Toe	564					
15-85	E. Bank	574					
15-60	W. Bank	574					
15-60	W. Toe	564					
15-60	Center	564					
15-60	E. Toe	564					
15-60	E. Bank	574					
14-75	W. Bank	574					
14-75	W. Toe	566	24.6	565.88	BWN	<i>[Signature]</i>	9/20/98
14-75	Center	566	47.24	565.97			11:30 AM
14-75	E. Toe	566	69.88	566.13			
14-75	E. Bank	574					
14-20	W. Bank	574					
14-20	W. Toe	562	27.7	562.18	BWN	<i>[Signature]</i>	9/20/98
14-20	Center	561	48.95	561.22			11:00 AM
14-20	E. Toe	562	70.2	562.0			
14-20	E. Bank	574					
13-60	W. Bank	574		574 STANDARD			
13-60	W. Toe	564	21.8 DESIGN	563.45	BWN	<i>[Signature]</i>	9/20/98
13-60	Center	564	45.35	563.65			11:00 AM
13-60	E. Toe	564	68.98 DESIGN / 67.42 ACT.	563.60			
13-60	E. Bank	574					
13-10	W. Bank	574					
13-10	W. Toe	564	30.9 DESIGN / 37.90	564.20	BWN	<i>[Signature]</i>	9/21/98
13-10	Center	563	50.16	562.90			1:00 PM
13-10	E. Toe	564	69.42 DESIGN / 61.8	563.89			10:00
13-10	E. Bank	574					
12-60	W. Bank	574					
12-60	W. Toe	564					
12-60	Center	563					
12-60	E. Toe	564					
12-60	E. Bank	574					
12-10	W. Bank	574					
12-10	W. Toe	564					
12-10	Center	564					
12-10	E. Toe	564					
12-10	E. Bank	574					
11-60	W. Bank	574					
11-60	W. Toe	564					
11-60	Center	564					
11-60	E. Toe	564					
11-60	E. Bank	574					
11-10	W. Bank	574					
11-10	W. Toe	564					
11-10	Center	564					
11-10	E. Toe	564					
11-10	E. Bank	574					
10-95	W. Bank	574					
10-95	W. Toe	562					
10-95	Center	562					
10-95	E. Toe	562					
10-95	E. Bank	574					

INTERMEDIATE SECTIONS

ADDITIONAL DREDGING

STATION	CONTROL PT.	ACCEP. ELEV.	ACT. ELEV.	SURVEYORS INITIAL	RETEL ACCEPTANCE	DATE / TIME
13+35	W. TOE CENTER E. TOE	564.0 563.5 564.0	563.9 563.25 564.07	BUN		9/24/98 10:00 am 1050 9/24/98

AREA OF KEDREDGE

Station Ref Dwg.	Control Point Along Transect	Acceptable Elevation Feet IGLD +0.25/-0.5	Actual Distance from Baseline Along Transect (INPUT BY SURVEYOR)	Actual Elevation Feet IGLD (INPUT BY SURVEYOR)	Surveyor Initials	RETEC Acceptance	Date/Time
S-2A & B							
15+85	W. Bank	574					
15+85	W. Toe	564					
15+85	Center	564					
15+85	E. Toe	564					
15+85	E. Bank	574					
15+60	W. Bank	574					
15+60	W. Toe	564					
15+60	Center	564					
15+60	E. Toe	564					
15+60	E. Bank	574					
14+75	W. Bank	574					
14+75	W. Toe	566					
14+75	Center	566					
14+75	E. Toe	566					
14+75	E. Bank	574					
14+20	W. Bank	574					
14+20	W. Toe	562					
14+20	Center	561					
14+20	E. Toe	562					
14+20	E. Bank	574					
13+60	W. Bank	574					
13+60	W. Toe	564					
13+60	Center	564					
13+60	E. Toe	564					
13+60	E. Bank	574					
13+10	W. Bank	574					
13+10	W. Toe	564					
13+10	Center	563					
13+10	E. Toe	564					
13+10	E. Bank	574					
12+60	W. Bank	574					
12+60	W. Toe	564					
12+60	Center	563					
12+60	E. Toe	564					
12+60	E. Bank	574					
12+10	W. Bank	574					
12+10	W. Toe	564					
12+10	Center	564					
12+10	E. Toe	564					
12+10	E. Bank	574					
11+60	W. Bank	574					
11+60	W. Toe	564					
11+60	Center	564					
11+60	E. Toe	564					
11+60	E. Bank	574					
11+10	W. Bank	574					
11+10	W. Toe	564					
11+10	Center	564					
11+10	E. Toe	564					
11+10	E. Bank	574					
10+95	W. Bank	574					
10+95	W. Toe	562					
10+95	Center	562					
10+95	E. Toe	562					
10+95	E. Bank	574					

30.9 DESIGN / 37.90 564.20
 30.16
 62.42 DESIGN / 61.2 562.90
 563.89

BWN

[Signature] 9/21/58
 1:00 PM
 16:00

Station Ref Dwg. S-2A & B	Control Point Along Transect	Acceptable Elevation Feet IGLD +0.25/-0.5	Actual Distance from Baseline Along Transect (INPUT BY SURVEYOR)	Actual Elevation Feet IGLD (INPUT BY SURVEYOR)	Surveyor Initials	RETEC Acceptance	Date/Time
15-85	W Bank	574					
15-85	W Toe	564					
15-85	Center	564					
15-85	E Toe	564					
15-85	E Bank	574					
15-60	W Bank	574					
15-60	W Toe	564					
15-60	Center	564					
15-60	E Toe	564					
15-60	E Bank	574					
14-75	W Bank	574					
14-75	W Toe	566					
14-75	Center	566					
14-75	E Toe	566					
14-75	E Bank	574					
14-20	W Bank	574					
14-20	W Toe	562					
14-20	Center	561					
14-20	E Toe	562					
14-20	E Bank	574					
13-60	W Bank	574					
13-60	W Toe	564					
13-60	Center	564					
13-60	E Toe	564					
13-60	E Bank	574					
13-10	W Bank	574	20.9	574.1	BNW		8/27/98
13-10	W Toe	564	30.9	564.22			
13-10	Center	563	50.16	563.04			
13-10	E Toe	564	69.42	563.83			
13-10	E Bank	574	79.42	574.1			
12-60	W Bank	574	17.3	574.2	BNW		8/27/98
12-60	W Toe	564	27.3	564.24			
12-60	Center	563	48.5	563.20			
12-60	E Toe	564	69.5	564.15			
12-60	E Bank	574	79.5	574.0			
12-10	W Bank	574	20.9	573.85	BNW		8/28/98
12-10	W Toe	564	30.9	563.9			
12-10	Center	564	50.41	564.2			
12-10	E Toe	564	81.92	564.2			
12-10	E Bank	574	91.92	574.15			
11-60	W Bank	574	19.6	573.9	BNW		8/31/98
11-60	W Toe	564	29.6	564.91			
11-60	Center	564	53.59	563.48			
11-60	E Toe	564	76.57	563.51			
11-60	E Bank	574	86.57	574.15			
11-10	W Bank	574	15.0	574.10	BNW		8/31/98
11-10	W Toe	564	25.0	563.5			
11-10	Center	564	45.0	563.6			
11-10	E Toe	564	65.0	563.4			
11-10	E Bank	574	75.0	574.0			
10-95	W Bank	574					
10-95	W Toe	562					
10-95	Center	562					
10-95	E Toe	562					
10-95	E Bank	574					

No Dig Zone

Scajaquada Creek Sediment Remediation

DREDGING ACCEPTANCE SURVEY

Station Ref Dwg. S-2A & B	Control Point Along Transect	Acceptable Elevation Feet IGLD +0.25/-0.5	Actual Distance from Baseline Along Transect (INPUT BY SURVEYOR)	Actual Elevation Feet IGLD (INPUT BY SURVEYOR)	Surveyor Initials	RETEC Acceptance	Date/Time
10+05	W. Bank	574	23.5	574 No change	BHW		9.5.98 1:30pm
10+05	W. Toe	562	35.0 DESIGN/40.1 EXIST.	562.44			
10+05	Center	562	53.05	562.67			
10+05	E. Toe	562	71.4 DESIGN/69.1 EXIST.	562.39			
10+05	E. Bank	574	83.4	574 No change			
9+55	W. Bank	574	23.5	574 No change	BHW.		9.5.98 1:30pm
9+55	W. Toe	566	31.9 DESIGN/37.5 EXIST.	563.56			
9+55	Center	564	51.0	563.37			
9+55	E. Toe	566	70.5 DESIGN/67.5 EXIST.	563.61			
9+55	E. Bank	574	78.5	574 No change			
9+05	W. Bank	574					
9+05	W. Toe	566					
9+05	Center	565					
9+05	Sheet Pile Wall	565					
8+55	W. Bank	574					
8+55	W. Toe	566					
8+55	Center	565					
8+55	Sheet Pile Wall	565					
8+05	W. Bank	574					
8+05	W. Toe	564					
8+05	Center	564					
8+05	Sheet Pile Wall	564					
7+55	W. Bank	574					
7+55	W. Toe	562					
7+55	Center	562					
7+55	Sheet Pile Wall	562					
7+05	W. Bank	574					
7+05	W. Toe	562					
7+05	Center	562					
7+05	Sheet Pile Wall	562					
		574					
6+55	W. Bank	574					
6+55	W. Toe	562					
6+55	Mid 1	562					
6+55	Center	562					
6+55	Mid 2	562					
6+55	Sheet Pile Wall	562					
6+05	W. Bank	574					
6+05	W. Toe	562					
6+05	Mid 1	562					
6+05	Center	562					
6+05	Mid 2	562					
6+05	E. Toe	562					
6+05	E. Bank	574					
5+55	W. Bank	574					
5+55	W. Toe	562					
5+55	Mid 1	562					
5+55	Center	562					
5+55	Mid 2	562					
5+55	E. Toe	562					
5+55	E. Bank	574					
5+05	W. Bank	574					
5+05	W. Toe	562					
5+05	Mid 1	562					
5+05	Center	562					
5+05	Mid 2	562					
5+05	E. Toe	562					
5+05	E. Bank	574					

Station Ref Dwg. S-2A & B	Control Point Along Transect	Acceptable Elevation Feet IGLD +0.25/-0.5	Actual Distance from Baseline Along Transect (INPUT BY SURVEYOR)	Actual Elevation Feet IGLD (INPUT BY SURVEYOR)	Surveyor Initials	RETEC Acceptance	Date/Time
15+85	W. Bank	574	84.5	574.1	JSD	Pass	8/11/98
15+85	W. Toe	564	74.0	563.8			
15+85	Center	564	60.9	563.7			
15+85	E. Toe	564	27.3	564.1			
15+85	E. Bank	574	17.3	572.2			
15+60	W. Bank	574	18	574.1	JSD	Pass	8/11/98
15+60	W. Toe	564	28	563.8			
15+60	Center	564	50.6	563.7			
15+60	E. Toe	564	73.2	563.8			
15+60	E. Bank	574	83.2	574.2			
14+75	W. Bank	574	14.4	574.2	JSD	Pass	8/13/98
14+75	W. Toe	566	24.4	566.2			
14+75	Center	566	47.24	565.7			
14+75	E. Toe	566	69.88	565.3			
14+75	E. Bank	574	77.88	574.1			
14+20	W. Bank	574	15.7	574.1	JSD	Pass	8/14/98
14+20	W. Toe	562	27.7	562.18			
14+20	Center	561	48.95	560.96			
14+20	E. Toe	562	70.2	561.79			
14+20	E. Bank	574	82.2	574.05			
13+60	W. Bank	574	11.8	574.0	BIN	Pass	8/18/98
13+60	W. Toe	564	21.8	564.14			
13+60	Center	564	45.39	563.87			
13+60	E. Toe	564	68.98	564.21			
13+60	E. Bank	574	78.98	574.1			
13+10	W. Bank	574	20.9	574.1	BIN	Pass	8/18/98
13+10	W. Toe	564	30.9	563.98			
13+10	Center	563	50.16	563.16			
13+10	E. Toe	564	69.42	564.24			
13+10	E. Bank	574	79.42	574.1			
12+60	W. Bank	574	17.3	574.2	BIN	Pass	8/18/98
12+60	W. Toe	564	27.3	564.23			
12+60	Center	563	48.4	562.94			
12+60	E. Toe	564	69.5	564.16			
12+60	E. Bank	574	79.5	574.0			
12+10	W. Bank	574	20.9	573.85	BIN	Pass	8/18/98
12+10	W. Toe	564	30.9	563.6			
12+10	Center	564	56.41	564.11			
12+10	E. Toe	564	81.92	563.05			
12+10	E. Bank	574	91.92	574.13			
11+60	W. Bank	574	19.6	573.9	BIN	Pass	8/20/98
11+60	W. Toe	564	29.6	564.18			
11+60	Center	564	53.09	563.86			
11+60	E. Toe	564	76.57	563.69			
11+60	E. Bank	574	86.57	574.15			
11+10	W. Bank	574	15.0	574.10	BIN	Pass	8/20/98
11+10	W. Toe	564	25.0	563.71			
11+10	Center	564	45.0	563.78			
11+10	E. Toe	564	65.0	564.06			
11+10	E. Bank	574	75.0	574.0			
10+95	W. Bank	574			OUTSIDE LIMITS		
10+95	W. Toe	562					
10+95	Center	562					
10+95	E. Toe	562					
10+95	E. Bank	574					

Station Ref Dwg. S-2A & B	Control Point Along Transect	Acceptable Elevation Feet IGLD +0.25' -0.5'	Actual Distance from Baseline Along Transect (INPUT BY SURVEYOR)	Actual Elevation Feet IGLD (INPUT BY SURVEYOR)	Surveyor Initials	RETEC Acceptance	Date/Time
15+85	W. Bank	574	84.5	574.1	JSS	[Signature]	8/11/98
15+85	W. Toe	564	74.5	563.8			
15+85	Center	564	50.9	563.7			
15+85	E. Toe	564	27.3	564.1			
15+85	E. Bank	574	17.3	574.2			
15-60	W. Bank	574	18	574.1	JSS	[Signature]	8/11/98
15-60	W. Toe	564	28	563.8			
15-60	Center	564	50.6	563.7			
15-60	E. Toe	564	73.2	563.8			
15-60	E. Bank	574	83.2	574.2			
14+75	W. Bank	574					
14+75	W. Toe	566					
14+75	Center	566					
14+75	E. Toe	566					
14+75	E. Bank	574					
14+20	W. Bank	574					
14+20	W. Toe	562					
14+20	Center	561					
14+20	E. Toe	562					
14+20	E. Bank	574					
13+60	W. Bank	574					
13+60	W. Toe	564					
13+60	Center	564					
13+60	E. Toe	564					
13+60	E. Bank	574					
13+10	W. Bank	574					
13+10	W. Toe	564					
13+10	Center	563					
13+10	E. Toe	564					
13+10	E. Bank	574					
12+60	W. Bank	574					
12+60	W. Toe	564					
12+60	Center	563					
12+60	E. Toe	564					
12+60	E. Bank	574					
12+10	W. Bank	574					
12+10	W. Toe	564					
12+10	Center	564					
12+10	E. Toe	564					
12+10	E. Bank	574					
11+60	W. Bank	574					
11+60	W. Toe	564					
11+60	Center	564					
11+60	E. Toe	564					
11+60	E. Bank	574					
11+10	W. Bank	574					
11+10	W. Toe	564					
11+10	Center	564					
11+10	E. Toe	564					
11+10	E. Bank	574					
10+95	W. Bank	574					
10+95	W. Toe	562					
10+95	Center	562					
10+95	E. Toe	562					
10+95	E. Bank	574					

Station Ref Dwg. S-2A & B	Control Point Along Transect	Acceptable Elevation Feet IGLD +0.25/-0.5	Actual Distance from Baseline Along Transect (INPUT BY SURVEYOR)	Actual Elevation Feet IGLD (INPUT BY SURVEYOR)	Surveyor Initials	RETEC Acceptance	Date/Time
15+85	W Bank	574	84.5	574.1	JSB		8/11/98
15+85	W Toe	564	74.5	563.8			
15+85	Center	564	50.9	563.7			
15+85	E Toe	564	27.3	564.1			
15+85	E Bank	574	17.3	574.2			
15+60	W Bank	574	18	574.1	JSB		8/11/98
15+60	W Toe	564	28	563.8			
15+60	Center	564	50.6	563.7			
15+60	E Toe	564	73.2	563.8			
15+60	E Bank	574	83.2	574.2			
14+75	W Bank	574	14.0	574.2	JSB	JMS	8/13/98 8/17/98
14+75	W Toe	566	24.0	564.2			
14+75	Center	566	47.24	565.7			
14+75	E Toe	566	69.88	565.5			
14+75	E Bank	574	77.88	574.2			
14+20	W Bank	574	15.7	574.1	JSD	JMS	8/14/98 8/17/98
14+20	W Toe	562	27.7	562.18			
14+20	Center	561	48.95	560.96			
14+20	E Toe	562	70.2	561.79			
14+20	E Bank	574	82.2	574.02			
13+60	W Bank	574					
13+60	W Toe	564					
13+60	Center	564					
13+60	E Toe	564					
13+60	E Bank	574					
13+10	W Bank	574					
13+10	W Toe	564					
13+10	Center	563					
13+10	E Toe	564					
13+10	E Bank	574					
12+60	W Bank	574					
12+60	W Toe	564					
12+60	Center	563					
12+60	E Toe	564					
12+60	E Bank	574					
12+10	W Bank	574					
12+10	W Toe	564					
12+10	Center	564					
12+10	E Toe	564					
12+10	E Bank	574					
11+60	W Bank	574					
11+60	W Toe	564					
11+60	Center	564					
11+60	E Toe	564					
11+60	E Bank	574					
11+10	W Bank	574					
11+10	W Toe	564					
11+10	Center	564					
11+10	E Toe	564					
11+10	E Bank	574					
10+95	W Bank	574					
10+95	W Toe	562					
10+95	Center	562					
10+95	E Toe	562					
10+95	E Bank	574					

Station Ref Dwg. S-2A & B	Control Point Along Transect	Acceptable Elevation Feet IGLD +0.25' -0.5	Actual Distance from Baseline Along Transect (INPUT BY SURVEYOR)	Actual Elevation Feet IGLD (INPUT BY SURVEYOR)	Surveyor Initials	RETEC Acceptance	Date/Time
15+85	W Bank	574	54.5	574.1	JOS	DMS	8/11/98
15+85	W Toe	564	74.5	563.8			
15+85	Center	564	90.9	563.7			
15+85	E Toe	564	127.3	564.1			
15+85	E Bank	574	173	574.2			
15-60	W Bank	574	18	574.1	JOS	DMS	8/11/98
15-60	W Toe	564	28	563.8			
15-60	Center	564	50.6	563.7			
15-60	E Toe	564	73.2	563.8			
15-60	E Bank	574	83.2	574.2			
14+75	W Bank	574	14.0	574.2	JOS	DMS	8/13/98
14+75	W Toe	566	24.0	566.2			
14+75	Center	566	47.24	565.7			
14+75	E Toe	566	69.88	565.5			
14+75	E Bank	574	77.88	574.1			
14+20	W Bank	574	15.7	574.1	JOS	DMS	8/14/98
14+20	W Toe	562	27.7	562.8			
14+20	Center	561	48.95	560.96			
14+20	E Toe	562	70.2	561.79			
14+20	E Bank	574	82.2	574.05			
13+60	W Bank	574	11.8	574.0	BAN	DMS	8/18/98
13+60	W Toe	564	21.8	564.14			
13+60	Center	564	45.39	563.87			
13+60	E Toe	564	68.98	564.21			
13+60	E Bank	574	78.98	574.1			
13-10	W Bank	574	20.9	574.1	BAN	DMS	8/18/98
13-10	W Toe	564	30.9	563.98			
13-10	Center	563	50.16	563.16			
13-10	E Toe	564	69.42	564.24			
13-10	E Bank	574	79.42	574.1			
12+60	W Bank	574					
12+60	W Toe	564					
12+60	Center	563					
12+60	E Toe	564					
12+60	E Bank	574					
12+10	W Bank	574					
12+10	W Toe	564					
12+10	Center	564					
12+10	E Toe	564					
12+10	E Bank	574					
11+60	W Bank	574					
11+60	W Toe	564					
11+60	Center	564					
11+60	E Toe	564					
11+60	E Bank	574					
11+10	W Bank	574					
11+10	W Toe	564					
11+10	Center	564					
11+10	E Toe	564					
11+10	E Bank	574					
10+95	W Bank	574					
10+95	W Toe	562					
10+95	Center	562					
10+95	E Toe	562					
10+95	E Bank	574					

Station Ref Dwg. S-2A & B	Control Point Along Transect	Acceptable Elevation Feet IGLD +0.25/-0.5	Actual Distance from Baseline Along Transect (INPUT BY SURVEYOR)	Actual Elevation Feet IGLD (INPUT BY SURVEYOR)	Surveyor Initials	RETEC Acceptance	Date/Time
10+05	W Bank	574	23.5	574 STAKED			
10+05	W Toe	562	35.5	561.77			9/11/88
10+05	Center	562	53.0	561.46			4:15
10+05	E Toe	562	71.5	561.88			
10+05	E Bank	574	83.5	574 STAKED			
9+55	W Bank	574	23.5	574 STAKED			
9+55	W Toe	566	31.5	564.97			9/11/88
9+55	Center	564	51.0	562.27			9/11/88
9+55	E Toe	566	70.5	565.36			4:15
9+55	E Bank	574	78.5	574 STAKED			
9-05	W Bank	574	18.5	574 STAKED			9/21/88
9-05	W Toe	566	29.5	563.17			
9-05	Center	566	48.55	563.01			
9-05	Sheet Pile Wall	565	67.60	563.12			1:30 P.M.
			78.60	574 STAKED			
8-55	W Bank	574					
8-55	W Toe	566					
8-55	Center	565					
8-55	Sheet Pile Wall	565					
8-05	W Bank	574					
8-05	W Toe	564					
8-05	Center	564					
8-05	Sheet Pile Wall	564					
7-55	W Bank	574					
7-55	W Toe	562					
7-55	Center	562					
7-55	Sheet Pile Wall	562					
7-05	W Bank	574					
7-05	W Toe	562					
7-05	Center	562					
7-05	Sheet Pile Wall	562					
6-55	W Bank	574					
6-55	W Toe	562					
6-55	Mid 1	562					
6-55	Center	562					
6-55	Mid 2	562					
6-55	Sheet Pile Wall	562					
6-05	W Bank	574					
6-05	W Toe	562					
6-05	Mid 1	562					
6-05	Center	562					
6-05	Mid 2	562					
6-05	E Toe	562					
6-05	E Bank	574					
5-55	W Bank	574					
5-55	W Toe	562					
5-55	Mid 1	562					
5-55	Center	562					
5-55	Mid 2	562					
5-55	E Toe	562					
5-55	E Bank	574					
5-05	W Bank	574					
5-05	W Toe	562					
5-05	Mid 1	562					
5-05	Center	562					
5-05	Mid 2	562					
5-05	E Toe	562					
5-05	E Bank	574					

563?

AS PER RETEC

565.97

561.73

Station Ref Dwg. S-2A & B	Control Point Along Transect	Acceptable Elevation Feet IGLD +0.25' -0.5'	Actual Distance from Baseline Along Transect (INPUT BY SURVEYOR)	Actual Elevation Feet IGLD (INPUT BY SURVEYOR)	Surveyor Initials	RETEC Acceptance	Date/Time
15+85	W. Bank	574	84.5	574.1	JSB	[Signature]	8/11/98
15+85	W. Toe	564	74.5	563.8			
15+85	Center	564	50.9	563.7			
15+85	E. Toe	564	27.3	564.1			
15+85	E. Bank	574	17.3	574.2			
15+60	W. Bank	574	18	574.1	JSB	[Signature]	8/11/98
15+60	W. Toe	564	28	563.8			
15+60	Center	564	50.6	563.7			
15+60	E. Toe	564	73.2	563.8			
15+60	E. Bank	574	83.2	574.2			
14+75	W. Bank	574					
14+75	W. Toe	566					
14+75	Center	566					
14+75	E. Toe	566					
14+75	E. Bank	574					
14+20	W. Bank	574					
14+20	W. Toe	562					
14+20	Center	561					
14+20	E. Toe	562					
14+20	E. Bank	574					
13+60	W. Bank	574					
13+60	W. Toe	564					
13+60	Center	564					
13+60	E. Toe	564					
13+60	E. Bank	574					
13+10	W. Bank	574					
13+10	W. Toe	564					
13+10	Center	563					
13+10	E. Toe	564					
13+10	E. Bank	574					
12+60	W. Bank	574					
12+60	W. Toe	564					
12+60	Center	563					
12+60	E. Toe	564					
12+60	E. Bank	574					
12+10	W. Bank	574					
12+10	W. Toe	564					
12+10	Center	564					
12+10	E. Toe	564					
12+10	E. Bank	574					
11+60	W. Bank	574					
11+60	W. Toe	564					
11+60	Center	564					
11+60	E. Toe	564					
11+60	E. Bank	574					
11+10	W. Bank	574					
11+10	W. Toe	564					
11+10	Center	564					
11+10	E. Toe	564					
11+10	E. Bank	574					
10+95	W. Bank	574					
10+95	W. Toe	562					
10+95	Center	562					
10+95	E. Toe	562					
10+95	E. Bank	574					

INTERMEDIATE S/D
DREDGING

STATION	CONTROL PT.	ACCEP. ELEV.	ACT. ELEV.	SURVEYORS INITIALS	RETSEC ACCEPTANCE	DATE / TIME
9+30	W. TOE	563	563.20	BDW	<i>[Signature]</i>	9/21/98 2:30 PM
	CENTER	563	563.15			
	E. TOE	563	562.95			
8+80	W. TOE	563	562.85	BDW	<i>[Signature]</i>	9/21/98 2:30 PM
	CENTER	563	562.71			
	E. TOE	563	563.08			

Station	Control Point	Acceptable Elevation Feet IGLD +0.5 / -0.5 (min. Thickness = 1.5 ft)	Actual Distance from Baseline Along Transect (INPUT BY SURVEYOR)	Actual Elevation Feet IGLD (INPUT BY SURVEYOR)	Surveyor Initials	RETEC Acceptance	Date/Time
S-3A & B							
4-55	W Bank	574					
4-55	W Toe	563.5					
4-55	Center	563.5					
4-55	E Toe	563.5					
4-55	E Bank	574					
4-01	W Bank	574					
4-01	W Toe	563.5					
4-01	Center	563.5					
4-01	E Toe	563.5					
4-01	E Bank	574					
3-55	W Bank	574	572.88	14.12		STAKED	
3-55	W Toe	563.5		32.88		562.79	BUN SW 12/14/99 12:14 5:00 PM
3-55	Center	561.5		52.10		562.59	
3-55	E Toe	561.5		82.12		562.29	
3-55	E Bank	574	572.88	104.88		STAKED	
3-05	W Bank	574	572.88	17.5		STAKED	
3-05	W Toe	561.5		40.26		562.01	BUN 12/19/98 2:30 PM
3-05	Center	561.5		60.25		562.27	SW 12/19/98 1545
3-05	E Toe	561.5		80.24		561.87	
3-05	E Bank	574	572.88	103.0		STAKED	
2-55	W Bank	574	572.88	19.2		STAKED	
2-55	W Toe	561.5		41.46		562.11	BUN SW 2/18/99 0945 12:14 PM
2-55	Center	561.5		56.10		561.86	
2-55	E Toe	561.5		71.24		562.06	
2-55	E Bank	574	572.88	93.00		STAKED	
2-05	W Bank	574	572.83	16.2		STAKED	
2-05	W Toe	561.5		38.96		561.82	BUN SW 2/18/99 0945 2/10/99
2-05	Center	561.5		58.0		561.67	
2-05	E Toe	561.5		65.24		562.12	
2-05	E Bank	574	572.83	85.0		STAKED	7:30 PM
1-55	W Bank	574	572.88			STAKED	
1-55	W Toe	561.5				561.44	BUN SW 2/22/99 0825 2/20/99
1-55	Center	561.5				562.12	
1-55	E Toe	561.5				562.30	
1-55	E Bank	574	572.88			STAKED	2:00 PM
1-05	W Bank	574				STAKED	
1-05	W Toe	563.5				563.2	BUN SW 2/22/99 1915 2/22/99
1-05	Center	561.5				562.7	
1-05	E Toe	563.5				563.0	
1-05	E Bank	574				564.83	7:00 PM
0-55	W Bank	574					
0-55	W Toe	563.5					
0-55	Center	563.5					
0-55	E Toe	563.5					
0-55	E Bank	574					
75 degrees							
0+01	W Bank	574					
0+01	W Toe	563.5					
0+01	Center	563.5					
0+01	E Toe	563.5					
0+01	E Bank	574					

INTERMEDIATE STA.

SOUND CAPPING

STATION	CONTROL PT.	ACCEP. ELEV.	ACT. ELEV.	SURVEYORS INITIALS	DATE ACCEP.	DATE TIME
1+40	W. TOP	572.88	STAKED			
1+40	W. TOE	561.5	562.23			2/21
1+40	CENTER	561.5	562.50	BANK	SW 2/22/99	12:00
1+40	E. TOE	561.5	562.50			
1+40	E. TOP	572.88	562.7 STAKED		1915	

Station	Control Point	Acceptable Elevation	Actual Distance from Baseline	Actual Elevation	Surveyor	RETEC	Date/Time
Ref Dwg	Along Transect	Feet IGLD +0.5 / -0.5 (min. Thickness = 1.5 ft)	Along Transect (INPUT BY SURVEYOR)	Feet IGLD (INPUT BY SURVEYOR)	Initials	Acceptance	
4-55	W Bank	574					
4-55	W Toe	563.5					
4-55	Center	563.5					
4-55	E Toe	563.5					
4-55	E Bank	574					
4-01	W Bank	574					
4-01	W Toe	563.5					
4-01	Center	563.5					
4-01	E Toe	563.5					
4-01	E Bank	574					
3-55	W Bank	574	572.88	14.12	STAKED		
3-55	W Toe	563.5		32.88	562.71	BUN	SW 12/14/98 12:14
3-55	Center	561.5		52.30	562.59		5:00 PM
3-55	E Toe	561.5		82.12	562.29		
3-55	E Bank	574	572.88	104.88	STAKED		
3-05	W Bank	574	572.88	17.5	STAKED		
3-05	W Toe	561.5		40.26	562.01	BUN	12/19/98 2:30 PM
3-05	Center	561.5		60.25	562.27		SW 12/19/98 1545
3-05	E Toe	561.5		80.24	561.89		
3-05	E Bank	574	572.88	103.0	STAKED		
2-55	W Bank	574	572.88	19.2	STAKED		
2-55	W Toe	561.5		41.96	562.11	BUN	SW 2/18/99 12:00 PM
2-55	Center	561.5		56.10	561.86		
2-55	E Toe	561.5		71.24	562.06		
2-55	E Bank	574	572.88	93.00	STAKED		
2-05	W Bank	574	572.83	16.2	STAKED		
2-05	W Toe	561.5		38.96	561.82	BUN	SW 2/18/99 2/17/99
2-05	Center	561.5		52.0	561.67		
2-05	E Toe	561.5		65.14	562.12		
2-05	E Bank	574	572.83	88.0	STAKED		0945 7:30 PM
1-55	W Bank	574	572.88		STAKED		
1-55	W Toe	561.5			561.44	BUN	SW 2/22/99 2/20/99
1-55	Center	561.5			562.12		2:00 PM
1-55	E Toe	561.5			562.30		
1-55	E Bank	574	572.88		STAKED		0825
1-05	W Bank	574					
1-05	W Toe	563.5					
1-05	Center	561.5					
1-05	E Toe	563.5					
1-05	E Bank	574					
0-55	W Bank	574					
0-55	W Toe	563.5					
0-55	Center	563.5					
0-55	E Toe	563.5					
0-55	E Bank	574					
75 degrees							
0-01	W Bank	574					
0-01	W Toe	563.5					
0-01	Center	563.5					
0-01	E Toe	563.5					
0-01	E Bank	574					

INTERMEDIATE STATIONS

SAND CAPPING

STATION	CONTROL PT.	ACCEP. ELEV.	ACT. ELEV.	SURVEYOR'S INITIALS	RETEN. ACCEPTANCE	DATE / TIME
2+30	W. TOP	572.88	STAKED			
2+30	W. TOE	561.5	562.4	BAN	SW 2/18/99 0945	2/18/99 2:00 P
2+30	CENTER ELEV.	564.5	562.3			
2+30	E. TOE	561.5	562.5			
2+30	E. TOP	572.88	STAKED			
2+15	W. TOP	572.88	STAKED			
2+15	W. TOE	561.5	561.99	BAN	SW 2/18/99 0945	2/18/99 10:00 P
2+15	CENTER	561.5	561.86			
2+15	E. TOE	561.5	562.05			
2+15	E. TOP	572.88	STAKED			
1+90	W. TOP	572.08	STAKED			
1+90	W. TOE	561.5	561.82	BAN	SW 2/18/99 1615	2/18/99 2:00 P
1+90	CENTER	561.5	562.67			
1+90	E. TOE	561.5	562.12			
1+90	E. TOP	572.88	STAKED			
1+75	W. TOP	572.08	STAKED			
1+75	W. TOE	561.5	561.45	BAN	SW 2/18/99 1615	2/18/99 4:00 P
1+75	CENTER	561.5	561.93			
1+75	E. TOE	561.5	562.0			
1+75	E. TOP	572.88	STAKED			

Scajaquada Creek Sediment Remediation

SAND CAPPING ACCEPTANCE SURVEY

Station	Control Point	Acceptable Elevation	Actual Distance from Baseline	Actual Elevation	Surveyor	RETEC	Date/Time
Ref Dwg	Along Transect	Feet IGLD +0.5 / -0.5	Along Transect	Feet IGLD	Initials	Acceptance	
S-3A & B		(min. Thickness = 1.5 ft)	(INPUT BY SURVEYOR)	(INPUT BY SURVEYOR)			
4-55	W Bank	574					
4-55	W Toe	563.5					
4-55	Center	563.5					
4-55	E Toe	563.5					
4-55	E Bank	574					
4-01	W Bank	574					
4-01	W Toe	563.5					
4-01	Center	563.5					
4-01	E Toe	563.5					
4-01	E Bank	574					
3-55	W Bank	574	572.88	14.12	STAKED		
3-55	W Toe	563.5		32.88	562.79		
3-55	Center	561.5		57.50	562.59		
3-55	E Toe	561.5		82.12	562.29		
3-55	E Bank	574	572.88	104.88	STAKED		
3-05	W Bank	574	572.88	17.5	STAKED		
3-05	W Toe	561.5		40.26	562.01		
3-05	Center	561.5		60.25	562.27		
3-05	E Toe	561.5		80.24	561.89		
3-05	E Bank	574	572.88	103.0	STAKED		
2-55	W Bank	574	572.88	19.2	STAKED		
2-55	W Toe	561.5		41.46	562.11		
2-55	Center	561.5		56.10	561.82		
2-55	E Toe	561.5		71.24	562.00		
2-55	E Bank	574	572.88	93.00	STAKED		
2-05	W Bank	574	572.83	16.2	STAKED		
2-05	W Toe	561.5		40.2	561.82		
2-05	Center	561.5		58.0	561.47		
2-05	E Toe	561.5		76.0	562.12		
2-05	E Bank	574	572.83	88.0	STAKED		
1-55	W Bank	574					
1-55	W Toe	561.5					
1-55	Center	561.5					
1-55	E Toe	561.5					
1-55	E Bank	574					
1-05	W Bank	574					
1-05	W Toe	563.5					
1-05	Center	561.5					
1-05	E Toe	563.5					
1-05	E Bank	574					
0-55	W Bank	574					
0-55	W Toe	563.5					
0-55	Center	563.5					
0-55	E Toe	563.5					
0-55	E Bank	574					
75 degrees							
0-01	W Bank	574					
0-01	W Toe	563.5					
0-01	Center	563.5					
0-01	E Toe	563.5					
0-01	E Bank	574					

SW
 12/14/98
 1700
 BUN
 12/14
 5:00 PM

 SW 12/19/98
 1545
 BUN
 12/19/98
 2:30 PM

 SW 2/18/99
 0945
 BUN
 12/29/98
 12:00 AM

 SW
 2/18/99
 0945
 BUN
 2/18/99
 7:30 PM

INTERMEDIATE STATIONS

SAND CAPPING

STATION	CONTROL PT.	ACCP. ELEV.	ACT. ELEV.	SURVEYOR'S INITIALS	ROTEL ACCEPTANCE	DATE / TIME
2+30	W. TOP	572.82	STAKED			
2+30	W. TOE	561.5	562.4		SW 2/18/99 0945	2/9/99 2:00 PM
2+30	CENTER ELEV.	560.5	562.3	BAN		
2+30	E. TOE	561.5	562.5			
2+30	E. TOP	572.88	STAKED			
2+15	W. TOP	572.82	STAKED			
2+15	W. TOE	561.5	561.99		SW 2/18/99 0945	2/16/99 10:00 AM
2+15	CENTER	561.5	561.86	BAN		
2+15	E. TOE	561.5	562.05			
2+15	E. TOP	572.82	STAKED			

INTERMEDIATE STATIONS
SAND

STATIONS	CONTROL PT.	ACCEP. ELEV.	ACT. ELEV.	SURVEYORS INITIALS	PETER ACCEPTANCE	DATE/ TIME
2+65	W. TOP	572.88	STOKED			
2+65	W. TOE	561.5	562.11	BUN	<i>[Signature]</i>	12/21
2+65	CENTER	561.5	561.82			2:45 PM
2+65	E. TOE	561.5	562.06			
2+65	E. TOP	572.88	STOKED			

Station	Control Point	Acceptable Elevation	Actual Distance from Baseline	Actual Elevation	Surveyor	RETEC	Date/Time
Rei Dwg.	Along Transect	Feet IGLD +0.5 / -0.5 (min. Thickness = 1.5 ft)	Along Transect (INPUT BY SURVEYOR)	Feet IGLD (INPUT BY SURVEYOR)	Initials	Acceptance	
S-3A & B							
4-55	W Bank	574					
4-55	W Toe	563.5					
4-55	Center	563.5					
4-55	E Toe	563.5					
4-55	E Bank	574					
4-01	W Bank	574					
4-01	W Toe	563.5					
4-01	Center	563.5					
4-01	E Toe	563.5					
4-01	E Bank	574					
3-55	W Bank	574	572.88	14.12	STAYLOR		
3-55	W Toe	563.5		32.88	562.79		
3-55	Center	561.5		57.50	562.59		
3-55	E Toe	561.5		82.12	562.29		
3-55	E Bank	574	572.88	104.88	570.20		
3-05	W Bank	574	572.88		STAYLOR		
3-05	W Toe	561.5			562.01		
3-05	Center	561.5			562.27		
3-05	E Toe	561.5			561.89		
3-05	E Bank	574	572.88		STAYLOR		
2-55	W Bank	574					
2-55	W Toe	561.5					
2-55	Center	561.5					
2-55	E Toe	561.5					
2-55	E Bank	574					
2-05	W Bank	574					
2-05	W Toe	561.5					
2-05	Center	561.5					
2-05	E Toe	561.5					
2-05	E Bank	574					
1-55	W Bank	574					
1-55	W Toe	561.5					
1-55	Center	561.5					
1-55	E Toe	561.5					
1-55	E Bank	574					
1-05	W Bank	574					
1-05	W Toe	563.5					
1-05	Center	561.5					
1-05	E Toe	563.5					
1-05	E Bank	574					
0-55	W Bank	574					
0-55	W Toe	563.5					
0-55	Center	563.5					
0-55	E Toe	563.5					
0-55	E Bank	574					
75 degrees							
0-01	W Bank	574					
0-01	W Toe	563.5					
0-01	Center	563.5					
0-01	E Toe	563.5					
0-01	E Bank	574					

SW
 12/14/98
 1700
 12/14
 5:00 PM
 SW
 12/15/98
 1545
 2:30 PM

INTERMEDIATE STATIONS

SAND CAPPING

STAT. NO.	CENTER PT.	ACCU. ELAV.	ACT. ELAV.	Surveyors Initials	RETR. OCCUR	DATE	Time
3+70	W. TOP	572.88	STAKED				
3+70	W. TOE	572.2	572.53	BUN	SW 12/12/98 1530	12/12	3:00 Am
3+70	CENTER	572.2	572.58				
3+70	E. TOE	572.2	572.49				
3+70	E. TOP	572.88	STAKED				
3+55							
3+40	W. TOP	572.88	STAKED				
3+40	W. TOE	561.5	562.44	BUN	SW 12/16/98 1520	12/16	1:00 Am.
3+40	CENTER	561.5	562.03				
3+40	E. TOE	561.5	562.04				
3+40	E. TOP	572.88	STAKED				
3+10	W. TOP	572.88	STAKED				
3+10	W. TOE	561.5	562.33	BUN	SW 12/19/98 1545	12/19	2:30 Am
3+10	CENTER	561.5	562.23				
3+10	E. TOE	561.5	562.5				
3+10	E. TOP	572.88	STAKED				
3+00	W. TOP	572.88	STAKED				
3+00	W. TOE	561.5	561.88	BUN	SW 12/19/98 1545	12/19	3:00 Am
3+00	CENTER	561.5	562.08				
3+00	E. TOE	561.5	561.88				
3+00	E. TOP	572.88	STAKED				

INTERMEDIATE STATIONS

SAND CAPPING

STATION	CENTER PT.	ACCU. Elev.	ACT. Elev.	Surveyor Initials	REUSE OCCUR	DATE	Time
3+70	W. TOP	572.88	STOKED				
3+70	W. TOE	572.2	572.53				
3+70	CENTER	572.2	572.58	BUN	SW 12/12/98 1530	12/12	3:00 PM
3+70	E. TOE	572.2	572.49				
3+70	E. TOP	572.88	STOKED				
3+55							
3+40	W. TOP	572.88	STOKED				
3+40	W. TOE	561.5	562.44				
3+40	CENTER	561.5	562.03	BUN	SW 12/16/98 1520	12/16	1:00 AM.
3+40	E. TOE	561.5	562.04				
3+40	E. TOP	572.88	STOKED				

Scajaquada Creek Sediment Remediation			SAND CAPPING ACCEPTANCE SURVEY			PAGE 3 of 3	
Station	Control Point	Acceptable Elevation	Actual Distance from Baseline	Actual Elevation	Surveyor	RETEC	Date/Time
Ref Dwg.	Along Transect	Feet IGLD +0.5 / -0.5	Along Transect	Feet IGLD	Initials	Acceptance	
S-3A & B		(min. Thickness = 1.5 ft)	(INPUT BY SURVEYOR)	(INPUT BY SURVEYOR)			
4-55	W Bank	574					
4-55	W Toe	563.5					
4-55	Center	563.5					
4-55	E Toe	563.5					
4-55	E Bank	574					
4-01	W Bank	574					
4-01	W Toe	563.5					
4-01	Center	563.5					
4-01	E Toe	563.5					
4-01	E Bank	574					
3-55	W Bank	574	572.88	14.12	STAKED		
3-55	W Toe	563.5		32.88	562.79		
3-55	Center	561.5		57.30	562.59		
3-55	E Toe	561.5		82.12	562.29		
3-55	E Bank	574	572.88	104.88	570.20		
3-05	W Bank	574					
3-05	W Toe	561.5					
3-05	Center	561.5					
3-05	E Toe	561.5					
3-05	E Bank	574					
2-55	W Bank	574					
2-55	W Toe	561.5					
2-55	Center	561.5					
2-55	E Toe	561.5					
2-55	E Bank	574					
2-05	W Bank	574					
2-05	W Toe	561.5					
2-05	Center	561.5					
2-05	E Toe	561.5					
2-05	E Bank	574					
1-55	W Bank	574					
1-55	W Toe	561.5					
1-55	Center	561.5					
1-55	E Toe	561.5					
1-55	E Bank	574					
1-05	W Bank	574					
1-05	W Toe	563.5					
1-05	Center	561.5					
1-05	E Toe	563.5					
1-05	E Bank	574					
0-55	W Bank	574					
0-55	W Toe	563.5					
0-55	Center	563.5					
0-55	E Toe	563.5					
0-55	E Bank	574					
75 degrees							
0-01	W Bank	574					
0-01	W Toe	563.5					
0-01	Center	563.5					
0-01	E Toe	563.5					
0-01	E Bank	574					

844 SWJ
12/14/98
1700
12/14
5:00 PM

FORM PREPARED 7:22

INTERMEDIATE STATIONS

SAND CAPPING

STATION	CENTER PT.	ACCU. ELEV.	ACT. ELEV.	SURVEYOR INITIALS	RETR. OCCUR	DATE	TIME
3+70	W. TOP	572.88	STAKED				
3+70	W. TOE	572.2	572.53				
3+70	CENTER	572.2	572.58	BUN	SW 12/12/98 1530	12/12	3:00 PM
3+70	E. TOE	572.2	572.49				
3+70	E. TOP	572.88	STAKED				

INTERMEDIATE STA.

SAND CAPPING

STATION	CONTROL PT.	ASCCP. ELEV.	ACT. ELEV.	SURVEYOR INITIALS	RETEZ ACCP.	DATE/TIME
4+05	W. TOP	572.88	STAKED		<i>Phf</i> 12/8/98 1800	12/8
4+05	W. TOE	563.5	562.98	BUN		5:30
4+05	CENTER	563.5	562.93			
4+05	E. TOE	563.5	563.0			
4+05	E. TOP	572.88	STAKED			
4+01	W. Top	572.88	STAKED		BSM	<i>Phf</i> 1445
4+01	W. TOE	563.00	563.65	2:45		
4+01	Center	563.00	563.82			
4+01	E. TOE	563.0	563.45			
4+01	E. TOP	572.88	STAKED			
3+90	W. Top	572.88	STAKED	BSM	<i>Phf</i> 1445	12/9
3+90	W. TOE	563.0	563.44			2:45
3+90	Center	563.0	563.08			
3+90	E. TOE	563.0	562.85			
3+90	E. TOP	572.88	STAKED			
3+75	W. TOP	572.88	56 STAKED	BUN	<i>Phf</i> 12/10/98 1630	12/10
3+75	W. TOE	562.5	562.95			3:00
3+75	CENTER	562.5	562.53			
3+75	E. TOE	562.5	562.93			
3+75	E. TOP	572.88	STAKED			

INTERMEDIATE STA.

SAND CAPPING

STATION	CONTROL PT.	ACCOP. ELEV.	ACT. ELEV.	SURVEYOR INITIALS	RETEZ ACCOP.	DATE/TIME
4+05	W. TOP	572.88	STAKED			12/8
4+05	W. TOE	563.5	562.98			5:30
4+05	CENTER	563.5	562.93	BUN		
4+05	E. TOE	563.5	563.0			
4+05	E. TOP	572.88	STAKED			
4+0i	W. TOP	572.88	STAKED			
4+0i	W. TOE	563.00	563.65	BSM		12/9
4+0i	CENTER	563.00	563.82			2:45
4+0i	E. TOE	563.0	563.25			
4+0i	E. TOP	572.88	STAKED			
3+90	W. TOP	572.88	STAKED			
3+90	W. TOE	563.0	563.44	BSM		12/9
3+90	CENTER	563.0	563.08			2:45
3+90	E. TOE	563.0	562.85			
3+90	E. TOP	572.88	STAKED			

BSM
12/8/98
1800

BSM
1445

BSM
1445

INTERMEDIATE STA.

SAND CAPPING

STATION	CONTROL PT.	ASCP. ELEV.	ACT. ELEV.	SURVEYOR INITIALS	RETR. ASCP.	DATE/TIME
4+05	W. TOP	572.88	STAKED			12/8
4+05	W. TOE	563.5	562.98		BHJ 12/8/98 1800	5:30 P
4+05	CENTER	563.5	562.93	BHJ		
4+05	E. TOE	563.5	563.0			
4+05	E. TOP	572.88	STAKED			

INTERMEDIATE STA.

SAND CAPPING

STATION	CONTROL PT.	ACCR. ELEV.	ACT. ELEV.	SURVEYOR'S INITIALS	RETIC. ACCR.	DATE/TIME
4+75	W. TOP	572.88	STAKED			
4+75	W. TOE	563.5	564.31			12/3
4+75	MID 1	563.5	563.94	BAN	SW	8:00 A
4+75	CENTER	563.5	563.39		12/3	
4+75	MID 2	563.5	563.68		0905	
4+75	E. TOE	563.5	563.76			
4+75	E. TOP	572.88	STAKED			
4+60	W. TOP	572.88	STAKED			
4+60	W. TOE	563.5	563.55			12/4
4+60	CENTER	563.5	563.5	BAN	SW	10:00 A
4+60	E. TOE	563.5	563.78		12/4/98	
4+60	E. TOP	572.88	STAKED		1005	
4+40	W. TOP	572.88	STAKED			
4+40	W. TOE	563.5	563.48			12/4
4+40	CENTER	563.5	563.58	BAN	SW	3:30 P
4+40	E. TOE	563.5	563.89		12/4/98	
4+40	E. TOP	572.88	STAKED		1530	

INTERMEDIATE STS.

SAND CAPPING

STATION	CONTROL PT.	ACCU. ELEV.	ACT. ELEV.	SURVEYORS INITIALS	REF. ACCUR.	DATE/TIME
4+75	W. TOP	572.88	STAKED			
4+75	W. TOE	563.5	564.31			12/3
4+75	MID 1	563.5	563.94	BAN		8:00 AM
4+75	CENTER	563.5	563.39		SW 12/3 0905	
4+75	MID 2	563.5	563.68			
4+75	E. TOE	563.5	563.76			
4+75	E. TOP	572.88	STAKED			
4+60	W. TOP	572.88	STAKED			
4+60	W. TOE	563.5	563.55			12/4
4+60	CENTER	563.5	563.5	BAN	SW 12/4/98 1005	10:00 AM
4+60	E. TOE	563.5	563.78			
4+60	E. TOP	572.88	STAKED			

INTERMEDIATE STA.

SAND CAPPING



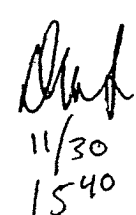
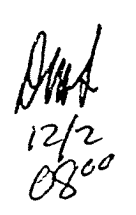
STATION	CONTROL PT.	ASCR. ELEV.	ACT. ELEV.	SURVEYORS INITIALS	REF. ASCR.	DATE/TIME
4+75	W. TOP	572.88	STALED			
4+75	W. TOE	563.5	564.31			12/3
4+75	MID 1	563.5	563.74	BAN		8:00 AM
4+75	CENTER	563.5	563.39		SW 12/3 0905	
4+75	MID 2	563.5	563.68			
4+75	E. TOE	563.5	563.76			
4+75	E. TOP	572.88	STALED			

Scajaquada Creek Sediment Remediation SAND CAPPING ACCEPTANCE SURVEY

Station Ref Dwg.	Control Point Along Transect	Acceptable Elevation Feet IGLD +0.5/-0.5 (min. Thickness = 1.5 ft)	Actual Distance from Baseline Along Transect (INPUT BY SURVEYOR)	Actual Elevation Feet IGLD (INPUT BY SURVEYOR)	Surveyor Initials	RETEC Acceptance	Date/Time
10-05	W Bank	572.88	24.62	573.0			
10-05	W Toe	563.5	43.39 DESIGN / 37.38 ACT.	565.68			
10-05	Center	563.5	53.45	565.42	BHW		9/21/98
10-05	E Toe	563.5	63.52 DESIGN / 72.52 ACT.	565.56			9:00 AM
10-05	E Bank	572.88	82.28	572.93			
9-55	W Bank	572.88	24.62	573.0			
9-55	W Toe	567.5	35.38	565.1			
9-55	Center	565.5	51.00	564.4	BHW		9/21/98
9-55	E Toe	567.5	66.62	565.1			9:00 AM
9-55	E Bank	572.88	72.38	571.6			
9-05	W Bank	572.88	19.62	574.91			
9-05	W Toe	567.5	30.38	566.02			
9-05	Center	567.5	48.5	564.65	BHW		9/29/98
9-05	E Toe	567.5	60.6	564.80			9/21/98
9-05	Sheet Pile Wall	573.5	78.6	573.5 STAKED			3:00 PM
8-55	W Bank	572.88	19.62	573.34			
8-55	W Toe	567.5	30.38	564.94			
8-55	Center	566.5	50.14	564.30	BHW		10/14/98
8-55	E Toe	566.5	75.90	564.62			6:30 PM
8-55	Sheet Pile Wall	573.5	93.50	573.5 STAKED			
8-05	W Bank	572.88	21.62	573.05 STAKED			
8-05	W Toe	565.5	36.38	564.53			
8-05	Center	565.5	58.69	564.37	BHW		10/16/98
8-05	E Toe	565.5	81.0	564.51			3:00 PM
8-05	Sheet Pile Wall	573.5	97.0	573.45 STAKED			
7-55	W Bank	572.88	25.44	573.05			
7-55	W Toe	563.5	44.70	563.97			
7-55	Center	563.5	57.28	563.80	BHW		10/20/98
7-55	E Toe	563.5	73.85	563.62			6:30 PM
7-55	Sheet Pile Wall	573.5	93.73	573.62 STAKED			
7-05	W Bank	572.88	19.58	573.05			
7-05	W Toe	563.5	30.34	563.8			
7-05	Center	563.5	55.40	563.65	BHW		10/24/98
7-05	E Toe	563.5	81.27	563.7			9:30 AM
7-05	Sheet Pile Wall	573.5	91.27	563.7			11:00
6-55	W Bank	572.88	24.62	573.05			
6-55	W Toe	563.5	45.38	563.49			
6-55	Center	563.5	74.17	563.47	BHW		10/29/98
6-55	E Toe	563.5	102.95	563.76			3:00 PM
6-55	Sheet Pile Wall	573.5	122.95	573.05 STAKED			
6-05	W Bank	572.88	21.49	573.05			
6-05	W Toe	563.5	40.25	563.73			
6-05	Center	563.5	65.58	563.35	BHW		10/7/98
6-05	E Toe	563.5	98.91	563.67			9:30 AM
6-05	E Bank	574	117.07	573.67 STAKED			
5-55	W Bank	572.38	23.96	573.05			
5-55	W Toe	563.5	42.72	564.09			
5-55	Mid 1	563.5	61.75	563.87	BHW		11/21/98
5-55	Center	563.5	80.78	563.63			
5-55	Mid 2	563.5	99.81	563.96	BHW		11/23/98
5-55	E Toe	563.5	118.94	564.01			
5-55	E Bank	572.88	137.60	573.05 STAKED			
5-05	W Bank	572.88	20.58	563.55			
5-05	W Toe	563.5	39.34	563.63			
5-05	Center	563.5	60.18	564.0	BHW		12/2/98
5-05	E Toe	563.5	97.01	564.0	Bm		3:00 PM
5-05	E Bank	572.88	115.77	573.05 STAKED			



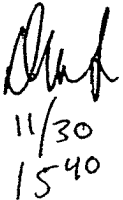
INTERMEDIATE STA.

SAND CAPPING

STATION	CENTRAL PT.	ACCUR. ELEV	ACT ELEV	SURVEYORS INITIALS	REFLECT ACCUR	DATE / TIME
5140	W. TOP	572.88	STAKED			
5140	W. TOE	563.5	564.15		 1558	11/24
5140	MID 1	563.5	563.55	BUND		3:30 P
5140	CENTRAL	563.5	563.74			
5140	MID 2	563.5	563.59			
5140	E. TOE	563.5	564.12			
5140	E. TOP	572.88	STAKED			
5140						
5130	W. TOP	572.88	STAKED			11/25
5130	W. TOE	563.5	563.58		 1015	10:00 A.
5130	MID 1	563.5	563.68	BUND		
5130	CENTRAL	563.5	563.52			
5130	MID 2	563.5	563.72			
5130	E. TOE	563.5	563.91			
5130	E. TOP	572.88	STAKED			
5130						
5120	W. TOP	572.88	STAKED			11/25 +
5120	W. TOE	563.5	563.42		 11/30 1540	11/30
5120	CENTRAL	563.5	563.42	BUND		3:30 PM
5120	E. TOE	563.5	563.76			
5120	E. TOP	572.88	STAKED			
5120						
4180	W. TOP	572.88	STAKED			12/2
4180	W. TOE	563.5	563.99		 12/2 0800	8:00 AM.
4180	CENTRAL	563.5	563.43	BUND		
4180	E. TOE	563.5	563.41			
4180	E. TOP	572.88	STAKED			
4180						



INTERMEDIATE STA.

SAND CAPPING

STATION	CONTROL PT.	ACCOMP. ELEV	ACT ELEV	SURVEYORS INITIALS	RETIC ACCOR	DATE/TIME
5140	W. TOP	572.88	STAKED			
5140	W. TOE	563.5	564.15		 1550	11/24
5140	MID 1	563.5	563.55	BUN		3:30 P.
5140	CENTER	563.5				
5140	MID 2	563.5	563.74			
5140	E. TOE	563.5	563.59			
5140	E. TOP	563.5	564.12			
		572.88	STAKED			
5130	W. TOP	572.88	STAKED			11/25
5130	W. TOE	563.5	563.58		 1015	10:00 A.
5130	MID 1	563.5	563.68	BUN		
5130	CENTER	563.5	563.52			
5130	MID 2	563.5	563.72			
5130	E. TOE	563.5	563.91			
5130	E. TOP	572.88	STAKED			
5120	W. TOP	572.88	STAKED		 11/30 1540	11/25 +
5120	W. TOE	563.5	563.42			11/30
5120	CENTER	563.5	563.42	BUN		3:30 P.
5120	E. TOE	563.5	563.76			
5120	E. TOP	572.88	STAKED			


INTERMEDIATE STA.

SAND CAPPING

STATION	CONTROL PT.	ACCOMP. ELEV	ACT ELEV	SURVEYORS INITIALS	RETIC ACCOR	DATE / TIME		
5140	W. TOP	572.88	STAKED					
5140	W. TOE	563.5	564.15		 1558	11/24 3:30 PM		
5140	MID 1	563.5	563.55	BUN				
5140	CENTER	563.5	563.74					
5140	MID 2	563.5	563.59					
5140	E. TOE	563.5	564.12					
5140	E. TOP	572.88	STAKED					
5130	W. TOP	572.88	STAKED				 1015	11/25 10:00 AM
5130	W. TOE	563.5	563.58					
5130	MID 1	563.5	563.68	BUN				
5130	CENTER	563.5	563.52					
5130	MID 2	563.5	563.72					
5130	E. TOE	563.5	563.91					
5130	E. TOP	572.88	STAKED					

INTERMEDIATE STA.

SAND CAPPING

STATION	CONTROL PT.	ACCP. ELEV	ACT ELEV	SURVEYORS INITIALS	RETIC ACCP	DATE / TIME
5+40	W. TOP	572.88	STAKED			
5+40	W. TOE	563.5	564.15			11/24 3:30 PM
5+40	MID 1	563.5	563.55	Bent		
5+40	CENTER	563.5	563.74			
5+40	MID 2	563.5	563.59			
5+40	E. TOE	563.5	564.12			
5+40	E. TOP	572.88	STAKED			

INTERMEDIATE STATIONS
SAND CAPPING




STATION	CONTROL PT.	ALCOB ELEV.	ACT ELEV.	SURVEYOR'S INITIALS	RECTOR ACCEPTANCE	DATE/TIME
5185	W. TOP	572.23	STAKED			
5185	W. TOE	563.5	563.48	BWN	<i>[Signature]</i>	11/9 7:20 PM
5185	CENTER	563.5	563.35			
5185	E. TOE	563.5	563.27			
5185	E. TOP	572.28	STAKED			
5480	W. TOP	572.88	STAKED			
5480	W. TOE	563.5	563.92			
5480	MID 1	563.5	563.44			
5480	CENTER	563.5	563.40	BWN	<i>[Signature]</i>	11/17 1:20 PM
5480	MID 2	563.5	563.78			
5480	E. TOE	563.5	564.05			
5480	E. TOP	572.88	STAKED			
5465	W. TOP	572.88	STAKED			
5465	W. TOE	563.5	563.87			
5465	MID 1	563.5	563.31			
5465	CENTER	563.5	563.45	BWN	<i>[Signature]</i>	11/19 4:45 PM
5465	MID 2	563.5	563.98			
5465	E. TOE	563.5	563.94			
5465	E. TOP	572.88	STAKED			
5445	W. TOP	572.88	STAKED			
5445	W. TOE	563.5	563.80			
5445	MID 1	563.5	563.32	BWN	<i>[Signature]</i>	11/24 8:00 AM
5445	CENTER	563.5	563.43			
5445	MID 2	563.5	563.60			
5445	E. TOE	563.5	564.1			
5445	E. TOP	572.88	STAKED			

Scajaguada Creek Sediment Remediation

SAND CAPPING ACCEPTANCE SURVEY

Station	Control Point	Acceptable Elevation	Actual Distance from Baseline	Actual Elevation	Surveyor	RETEC	Date/Time
Ref Dwg.	Along Transect	Feet IGLD +0.5/-0.5	Along Transect	Feet IGLD	Initials	Acceptance	
S-3A & B		(min. Thickness = 1.5 ft)	(INPUT BY SURVEYOR)	(INPUT BY SURVEYOR)			
10-05	W. Bank	574 572.88	24.62	573.0			
10-05	W. Toe	563.5	43.39 DESIGN / 37.38 ACT.	565.68			
10-05	Center	563.5	53.45	565.42	BHW		9/21/98
10-05	E. Toe	563.5	63.52 DESIGN / 77.52 ACT.	565.56			9:00 AM
10-05	E. Bank	574 572.88	82.28	572.93			
9-55	W. Bank	574 572.88	24.62	573.0			
9-55	W. Toe	567.5	35.38	565.1			
9-55	Center	567.5	51.00	564.4	BHW		9/21/98
9-55	E. Toe	567.5	66.62	565.1			9:00 AM
9-55	E. Bank	574 572.88	77.38	571.6			
9-05	W. Bank	574 572.88	19.62	574.91			
9-05	W. Toe	567.5	36.38	566.02			
9-05	Center	567.5	48.5	564.65	BHW		9/29/98
9-05	E. Toe	567.5	60.6	564.80			9/21/98
9-05	Sheet Pile Wall	573.5	78.6	573.5 STAKED			3:20 PM
8-55	W. Bank	574 572.88	19.62	573.34			
8-55	W. Toe	567.5	36.38	564.94			
8-55	Center	566.5	50.14	564.38	BHW		10/14/98
8-55	E. Toe	566.5	75.50	564.62			6:30 PM
8-55	Sheet Pile Wall	573.5	93.50	573.5 STAKED			
8-05	W. Bank	574 572.88	21.62	573.05 STAKED			
8-05	W. Toe	565.5	36.68	564.53			
8-05	Center	565.5	58.69	564.37	BHW		10/04/98
8-05	E. Toe	565.5	81.0	564.61			3:20 PM
8-05	Sheet Pile Wall	573.5	97.0	573.45 STAKED			
7-55	W. Bank	574 572.88	25.44	573.05			
7-55	W. Toe	563.5	44.70	563.97			
7-55	Center	563.5	57.28	563.80	BHW		10/20
7-55	E. Toe	563.5	73.85	563.62			6:30 PM
7-55	Sheet Pile Wall	573.5	93.73	573.62 STAKED			
7-05	W. Bank	574 572.88	19.54	573.05			
7-05	W. Toe	563.5	36.54	563.8	BHW		10/24
7-05	Center	563.5	55.40	563.65			9:30 AM
7-05	E. Toe	563.5	61.27	563.7			
7-05	Sheet Pile Wall	573.5		573.7			
6-55	W. Bank	574 572.88	24.62	573.05			
6-55	W. Toe	563.5	45.38	563.49			
6-55	Center	563.5	74.7	563.47	BHW		10/29
6-55	E. Toe	563.5	102.95	563.76			3:00 PM
6-55	Sheet Pile Wall	573.5	122.95	573.05 STAKED			
6-05	W. Bank	574 572.88	21.49	573.05			
6-05	W. Toe	563.5	40.25	563.73	BHW		10/7
6-05	Center	563.5	65.58	563.35			9:30 AM
6-05	E. Toe	563.5	98.91	563.63			
6-05	E. Bank	574	117.07	573.05			
5-55	W. Bank	574 572.88	23.96	573.05			
5-55	W. Toe	563.5	42.72	564.09			
5-55	Mid 1	563.5	61.75	563.87	BHW		10/21
5-55	Center	563.5	80.78	563.63			
5-55	Mid 2	563.5	99.81	563.96	BHW		11/23
5-55	E. Toe	563.5	118.84	564.21			
5-55	E. Bank	574 572.88	137.60	573.05			
5-05	W. Bank	574					
5-05	W. Toe	563.5					
5-05	Center	563.5					
5-05	E. Toe	563.5					
5-05	E. Bank	574					

INTERMEDIATE STATIONS
SAND CAPPING

STATION	CONTROL PT.	ACCP. ELEV.	ACT. ELEV.	SURVEYOR'S INITIALS	RETEL ACCEPTANCE	DATE/TIME
5185	W. TOP	572.83	STAKED			11/9 7:00 PM
5185	W. TOE	563.5	563.48	BWN		
5185	CENTER	563.5	563.35			
5185	E. TOE	563.5	563.87			
5185	E. TOP	572.88	STAKED			
5180	W. TOP	572.88	STAKED			11/17 1:20 PM
5180	W. TOE	563.5	563.92			
5180	MID 1	563.5	563.44			
5180	CENTER	563.5	563.40	BWN		
180	MID 2	563.5	563.78			
5180	E. TOE	563.5	564.05			
5180	E. TOP	572.88	STAKED			
5165	W. TOP	572.88	STAKED			11/19 4:45 PM
5165	W. TOE	563.5	563.87			
5165	MID 1	563.5	563.31			
5165	CENTER	563.5	563.45	BWN		
5165	MID 2	563.5	563.98			
5165	E. TOE	563.5	563.94			
5165	E. TOP	572.88	STAKED			


INTERMEDIATE STATIONS

SAND CAPPING

STATION	CONTROL PT.	ACCP. ELEV.	ACT. ELEV.	SURVEYOR'S INITIALS	RETR. ACCEPTANCE	DATE/TIME
5+85	W. TOP	572.22	STAKED		<i>[Signature]</i>	11/9 7:00 PM
5+85	W. TOE	563.5	563.48	BWN		
5+85	CENTER	563.5	563.35			
5+85	E. TOE	563.5	563.27			
5+85	E. TOP	572.28	STAKED			
5+80	W. TOP	572.88	STAKED		<i>[Signature]</i>	11/17 6:20 PM
5+80	W. TOE	563.5	563.92			
5+80	M.P. 1	563.5	563.44			
5+80	CENTER	563.5	563.40	BWN		
5+80	M.P. 2	563.5	563.78			
5+80	E. TOE	563.5	564.05			
5+80	E. TOP	572.88	STAKED			

INTERMEDIATE STATIONS

SAND CAPPING

STATION	CONTROL PT.	ACCP. ELEV.	ACT. ELEV.	SURVEYOR'S INITIALS	RECEIVED ACCEPTANCE	DATE / TIME
5+85	W. TOP	572.88	STAKED			11/9 7:00 PM
5+85	W. TOE	563.5	563.48	BWN		
5+85	CENTER	563.5	563.35			
5+85	E. TOE	563.5	563.87			
5+85	E. TOP	572.88	STAKED			

Scajaquada Creek Sediment Remediation			SAND CAPPING ACCEPTANCE SURVEY			PAGE 2 of 3	
Station	Control Point	Acceptable Elevation	Actual Distance from Baseline	Actual Elevation	Surveyor	RETEC	Date/Time
Ref Dwg.	Along Transect	Feet IGLD +0.5/-0.5 (min. Thickness = 1.5 ft)	Along Transect (INPUT BY SURVEYOR)	Feet IGLD (INPUT BY SURVEYOR)	Initials	Acceptance	
10-05	W. Bank	574	24.62	573.0			
10-05	W. Toe	563.5	43.39 DESK / 37.38 ACT.	565.68			
10-05	Center	563.5	53.45	565.42	BHW		9/21/98
10-05	E. Toe	563.5	63.52 DESIGN / 77.52 ACT.	565.50			9:00 AM
10-05	E. Bank	574	82.28	572.93			
9-55	W. Bank	574	24.62	573.0			
9-55	W. Toe	567.5	35.38	565.1			
9-55	Center	565.5	51.00	564.4	BHW		9/21/98
9-55	E. Toe	567.5	66.62	565.1			9:00 AM
9-55	E. Bank	574	77.38	571.6			
9-05	W. Bank	574	19.62	574.91			
9-05	W. Toe	567.5	36.38	566.02			
9-05	Center	567.5	48.5	564.65	BHW		9/21/98
9-05	E. Toe	567.5	60.6	564.80			3:30 PM
9-05	Sheet Pile Wall	573.5	78.6	573.5 STAKED			
8-55	W. Bank	574	19.62	573.34			
8-55	W. Toe	567.5	36.38	564.94			
8-55	Center	566.5	56.14	564.38	BHW		10/13
8-55	E. Toe	566.5	75.90	564.62			6:30 PM
8-55	Sheet Pile Wall	573.5	93.50	572.65			
8-05	W. Bank	574	21.62	573.05 STAKED			
8-05	W. Toe	565.5	36.38	564.53			
8-05	Center	565.5	58.09	564.37	BHW		10/16
8-05	E. Toe	565.5	81.0	564.61			3:00 PM
8-05	Sheet Pile Wall	573.5	97.0	573.45 STAKED			
7-55	W. Bank	574	25.44	574.05			
7-55	W. Toe	563.5	44.70	563.97			
7-55	Center	563.5	59.28	563.80	BHW		10/20
7-55	E. Toe	563.5	73.05	563.62			6:30 AM
7-55	Sheet Pile Wall	573.5	93.73	573.62			
7-05	W. Bank	574	19.54	574.05			
7-05	W. Toe	563.5	36.38	563.8	BHW		10/24
7-05	Center	563.5	55.40	563.63			9:30 AM
7-05	E. Toe	563.5	91.27	563.7			
7-05	Sheet Pile Wall	573.5		573.7			
6-55	W. Bank	574	24.62	574.05			
6-55	W. Toe	563.5	45.38	563.49			
6-55	Center	563.5	74.7	563.47	BHW		10/29
6-55	E. Toe	563.5	102.95	563.76			3:00 PM
6-55	Sheet Pile Wall	573.5	122.95	573.62			
6-05	W. Bank	574	21.49	574.05			
6-05	W. Toe	563.5	40.25	563.73	BHW		10/7
6-05	Center	563.5	65.58	563.35			9:30 AM
6-05	E. Toe	563.5	98.31	563.62			
6-05	E. Bank	574	117.07	573.62			
5-55	W. Bank	574					
5-55	W. Toe	563.5					
5-55	Mid 1	563.5					
5-55	Center	563.5					
5-55	Mid 2	563.5					
5-55	E. Toe	563.5					
5-55	E. Bank	574					
5-05	W. Bank	574					
5-05	W. Toe	563.5					
5-05	Center	563.5					
5-05	E. Toe	563.5					
5-05	E. Bank	574					

INTERMEDIATE STATIONS
SAND CAPPING

STATION	CONTROL PT.	ACCU. ELEV.	ACT. ELEV.	SURVEYOR'S INITIALS	DATE ACCEPTANCE	DATE/TIME
6420	W. TOP	572.88	STAKED			11/3
6420	W. TOE	563.5	563.58		<i>BNW</i> 11/3/98 1900	4:45
6420	CENTER	563.5	563.58	BNW		
6420	E. TOE	563.5	563.67			
6420	E. TOP	573.5	STAKED			
6445	W. TOP	572.88	STAKED			
6445	W. TOE	563.5	563.35		<i>BNW</i> 11/4/98 1900	11/4
6445	CENTER	563.5	563.60	BNW		
6445	E. TOE	563.5	563.73			
6445	E. TOP	573.5	STAKED			
6410	W. TOP	572.88	STAKED			
6410	W. TOE	563.5	563.88		<i>BNW</i> 11-5-98 1900	11-5
6410	CENTER	563.5	563.38	BNW		
6410	E. TOE	563.5	563.67			
6410	E. TOP	573.5	STAKED			
6405	W. TOP	572.88	STAKED			
6405	W. TOE	563.5	563.38		<i>BNW</i> 11/9/98 1900	11/9
6405	CENTER	563.5	563.35	BNW		
6405	E. TOE	563.5	564.17			
6405	E. TOP	572.88	STAKED			

INTERMEDIATE STATIONS
SAND CAPPING

STATION	CONTROL PT.	ACCP. ELEV.	ACT. ELEV.	SURVEYORS INITIALS	RETEC ACCEPTANCE	DATE/TIME
6+20	W. TOP	572.88	STAKED			11/3
6+20	W. TOE	563.5	563.58		<i>BMW</i> 11/3/98 1900	4:45
6+20	CENTER	563.5	563.58	BMW		
6+20	E. TOE	563.5	563.67			
6+20	E. TOP	573.5	STAKED			
6+15	W. TOP	572.88	STAKED			
6+15	W. TOE	563.5	563.35		<i>BMW</i> 11/4/98 1900	11/4
6+15	CENTER	563.5	563.60	BMW		
6+15	E. TOE	563.5	563.73			
6+15	E. TOP	573.5	STAKED			
6+10	W. TOP	572.88	STAKED			
6+10	W. TOE	563.5	563.88		<i>BSM</i> 11-5-98 1900	11-5
6+10	CENTER	563.5	563.38	BSM		
6+10	E. TOE	563.5	563.67			
6+10	E. TOP	573.5	STAKED			
6+10	E. TOP	573.5	STAKED			

INTERMEDIATE STATIONS
SAND CAPPING

STATION	CONTROL PT.	ACCIP. ELEV.	ACT. ELEV.	SURVEYORS INITIALS	RETIC ACCEPTANCE	DATE/TIME
6+10	W. TOP	572.88	STAKED			11/3
6+10	W. TOE	563.5	563.58		<i>DWA</i> 11/3/98 1700	4:45P
6+10	CENTER	563.5	563.58	BW		
6+10	E. TOE	563.5	563.67			
6+10	E. TOP	573.5	STAKED			




Scajaquada Creek Sediment Remediation

SAND CAPPING ACCEPTANCE SURVEY

Station	Control Point	Acceptable Elevation Feet IGLD +0.5/-0.5 (min. Thickness = 1.5 ft)	Actual Distance from Baseline Along Transect (INPUT BY SURVEYOR)	Actual Elevation Feet IGLD (INPUT BY SURVEYOR)	Surveyor Initials	RETEC Acceptance	Date/Time
10-05	W Bank	574 572.88	24.62	573.0			
10-05	W Toe	563.5	43.39 DESIGN / 37.38 ACT.	565.68			
10-05	Center	563.5	53.45	565.42	BWN		9/21/98
10-05	E Toe	563.5	63.52 DESIGN / 72.52 ACT.	565.56			9:00 am
10-05	E Bank	574 572.88	82.28	572.93			
9-55	W Bank	574 572.88	24.62	573.0			
9-55	W Toe	567.5	35.38	565.1			
9-55	Center	565.5	51.00	564.4	BWN		9/21/98
9-55	E Toe	567.5	61.62	565.1			9:00 am
9-55	E Bank	574 572.88	77.38	571.6			
9-05	W Bank	574 572.88	19.62	574.91			
9-05	W Toe	567.5	36.38	566.02			
9-05	Center	567.5	48.5	564.65	BWN		9/21/98
9-05	E Toe	567.5	60.6	564.80			3:20 PM
9-05	Sheet Pile Wall	573.5	78.6	573.5 STAKED			
8-55	W Bank	574 572.88	19.62	573.34			
8-55	W Toe	567.5	36.38	564.94			
8-55	Center	566.5	56.14	564.38	BWN		10/13
8-55	E Toe	566.5	75.50	564.62			6:30 PM
8-55	Sheet Pile Wall	573.5	93.50	574.62 STAKED			
8-05	W Bank	574 572.88	21.62	573.05 STAKED			
8-05	W Toe	565.5	36.38	564.53			
8-05	Center	565.5	58.49	564.37	BWN		10/16
8-05	E Toe	565.5	81.0	564.61			3:20 PM
8-05	Sheet Pile Wall	573.5	97.0	573.45 STAKED			
7-55	W Bank	574 572.88	25.44	574.05			
7-55	W Toe	563.5	44.70	563.92			
7-55	Center	563.5	59.28	563.80	BWN		10/20
7-55	E Toe	563.5	73.85	563.62			6:50 PM
7-55	Sheet Pile Wall	573.5	93.73	574.05 STAKED			
7-05	W Bank	574 572.88	19.54	574.05			
7-05	W Toe	563.5	36.38	563.92			
7-05	Center	563.5	55.40	563.65	BWN		10/24
7-05	E Toe	563.5	91.27	563.7			9:30 am
7-05	Sheet Pile Wall	573.5		563.7			
6-55	W Bank	574 572.88	24.62	574.05			
6-55	W Toe	563.5	45.38	563.49			
6-55	Center	563.5	74.17	563.47	BWN		10/29
6-55	E Toe	563.5	102.95	563.76			3:00 PM
6-55	Sheet Pile Wall	573.5	122.95	574.05 STAKED			
6-05	W Bank	574					
6-05	W Toe	563.5					
6-05	Center	563.5					
6-05	E Toe	563.5					
6-05	E Bank	574					
5-55	W Bank	574					
5-55	W Toe	563.5					
5-55	Mid 1	563.5					
5-55	Center	563.5					
5-55	Mid 2	563.5					
5-55	E Toe	563.5					
5-55	E Bank	574					
5-05	W Bank	574					
5-05	W Toe	563.5					
5-05	Center	563.5					
5-05	E Toe	563.5					
5-05	E Bank	574					

INTERMEDIATE STA.



SAND CAPPING

STATION	CONTROL PT	ACCP. ELEV.	ACT. ELEV.	SURVEYOR'S INITIALS	RETEC ACCEPTANCE	DATE / TIME
6+85	W. TOP	572.88	STAKED			10/26
6+85	W. TOE	563.5	563.53	BHW		5:00 PM
6+85	CENTER	563.5	563.44			
6+85	E. TOE SHEET PILE	563.5	563.69			
6+75	W. TOP	572.88	STAKED			10/27
6+75	W. TOE	563.5	563.60	BHW		1:30 PM
6+75	CENTER	563.5	563.46			
6+75	E. TOE SHEET PILE	563.5	563.52			
6+65	W. TOP	572.88	STAKED			10/28
6+65	W. TOE	563.5	563.61	BHW		9:30 AM
6+65	CENTER	563.5	563.40			
6+65	E. TOE SHEET PILE	563.5	563.47			

INTERMEDIATE STATIONS
SAND CAPPING

STATION	CONTROL PT.	ACCP. ELEV.	ACT. ELEV.	SURVEYORS INITIALS	RETREC ACCEPTANCE	DATE/TIME
6+20	W. TOP	572.88	STAKED			11/3
6+20	W. TOE	563.5	563.58		<i>BMH</i> 11/3/98 1500	4:45
6+20	CENTER	563.5	563.58	BHW		
6+20	E. TOE	563.5	563.67			
6+20	E. TOP	573.5	STAKED			
6+10	W. TOP	572.88	STAKED			
6+10	W. TOE	563.5	563.35		<i>BMH</i> 11/4/98 1900	11/4 6:30
6+10	CENTER	563.5	563.60	BHW		
6+10	E. TOE	563.5	563.73			
6+10	E. TOP	573.5	STAKED			

INTERMEDIATE STA.
SAND CAPPING

STATION	CONTROL PT	ACCP. ELEV.	ACT. ELEV.	SURVEYOR'S INITIALS	RETER ACCEPTANCE	DATE / TIME
6+85	W. TOP	572.88	STAKED			10/26
6+85	W. TOE	563.5	563.53	BUN		5:00 P
6+85	CENTER	563.5	563.44			
6+85	E. TOE SHEET PILE	563.5	563.69			
6+75	W. TOP	572.88	STAKED			
6+75	W. TOE	563.5	563.60	BUN		10/26
6+75	CENTER	563.5	563.46			11:30 P
6+75	E. TOE SHEET PILE	563.5	563.52			

INTERMEDIATE STA.

SAND CAPPING


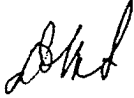



STATION	CONTROL PT	ACCP. ELEV.	ACT. ELEV.	SURVEYOR'S INITIALS	RETIC ACCEPTANCE	DATE / TIME
6+85	W. TOP	572.88	STAKED			10/26
6+85	W. TOE	563.5	563.53	BOW	<i>[Signature]</i>	5:00 P
6+85	CENTER	563.5	563.44			
6+85	E. TOE SHEET PILE	563.5	563.69			

Scajaquada Creek Sediment Remediation

SAND CAPPING ACCEPTANCE SURVEY


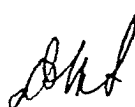


Station Ref Dwg.	Control Point Along Transect	Acceptable Elevation Feet IGLD +0.5/-0.5 (min. Thickness = 1.5 ft)	Actual Distance from Baseline Along Transect (INPUT BY SURVEYOR)	Actual Elevation Feet IGLD (INPUT BY SURVEYOR)	Surveyor Initials	RETEC Acceptance	Date/Time
10-05	W. Bank	574	24.62	573.0			
10-05	W. Toe	563.5	43.39 DESIGN / 37.38 ACT.	565.68			
10-05	Center	563.5	53.45	565.42	BHW		9/21/98
10-05	E. Toe	563.5	63.52 DESIGN / 77.52 ACT.	565.56			9:00 AM
10-05	E. Bank	574	82.28	572.93			
9-55	W. Bank	574	24.62	573.0			
9-55	W. Toe	567.5	35.38	565.1			
9-55	Center	565.5	51.00	564.4	BHW		9/21/98
9-55	E. Toe	567.5	66.62	565.1			9:00 AM
9-55	E. Bank	574	77.38	571.6			
9-05	W. Bank	574	19.62	574.91			
9-05	W. Toe	567.5	36.38	566.02			
9-05	Center	567.5	48.5	564.65	BHW		9/29/98
9-05	E. Toe	567.5	60.6	564.80			9/29/98
9-05	Sheet Pile Wall	573.5	78.6	573.5 STAKED			3:00 PM
8-55	W. Bank	574	14.62	573.34			
8-55	W. Toe	567.5	36.38	564.94			
8-55	Center	566.5	56.14	564.38	BHW		10/13
8-55	E. Toe	566.5	75.90	564.62			6:30 PM
8-55	Sheet Pile Wall	573.5	93.50	573.5 STAKED			
8-05	W. Bank	574	21.62	573.08 STAKED			
8-05	W. Toe	565.5	36.38	564.53			
8-05	Center	565.5	58.69	564.37	BHW		16 Oct 98
8-05	E. Toe	565.5	81.0	564.61			3:00 PM
8-05	Sheet Pile Wall	573.5	97.0	573.45 STAKED			
7-55	W. Bank	574	25.44	573.08 STAKED			
7-55	W. Toe	563.5	44.70	563.97			
7-55	Center	563.5	59.28	563.80	BHW		10/20
7-55	E. Toe	563.5	73.85	563.62			6:30 PM
7-55	Sheet Pile Wall	573.5	93.73	573.62 STAKED			
7-05	W. Bank	574	19.54	573.08 STAKED			
7-05	W. Toe	563.5	36.38	563.8			
7-05	Center	563.5	55.40	563.65	BHW		10/24/98
7-05	E. Toe	563.5	61.27	563.7			9:30 AM
7-05	Sheet Pile Wall	573.5					
6-55	W. Bank	574					
6-55	W. Toe	563.5					
6-55	Center	563.5					
6-55	E. Toe	563.5					
6-55	Sheet Pile Wall	573.5					
6-05	W. Bank	574					
6-05	W. Toe	563.5					
6-05	Center	563.5					
6-05	E. Toe	563.5					
6-05	E. Bank	574					
5-55	W. Bank	574					
5-55	W. Toe	563.5					
5-55	Mkd 1	563.5					
5-55	Center	563.5					
5-55	Mkd 2	563.5					
5-55	E. Toe	563.5					
5-55	E. Bank	574					
5-05	W. Bank	574					
5-05	W. Toe	563.5					
5-05	Center	563.5					
5-05	E. Toe	563.5					
5-05	E. Bank	574					

INTERMEDIATE STA.
SAND CAPPING

STATION	CONTROL PT.	ALLOD ELEV.	ACT. ELEV.	SURVEYORS INITIALS	RETER ACCEPTANCE	DATE/TIME
7+45	W. BANK	572.88	STAKED			
7+45	W. TOE	563.5	563.67		 10/21/98 1700	10/21
7+45	CENTER	563.5	563.65	BWN		4:45 PM
7+45	E. TOE SHEET PILE	563.5	563.62			
7+30	W. BANK	572.88	STAKED			
7+30	W. TOE	563.5	563.62			10/22
7+30	CENTER	563.5	563.69	BWN		11:50 AM
7+30	E. TOE SHEET PILE	563.5	563.58			
7+15	W. TOP	572.88	STAKED			
7+15	W. TOE	563.5	563.83		 10/23/98 1400	10/22
7+15	CENTER	563.5	563.58	BWN		2:00 PM
7+15	E. TOP	563.5	563.48			
7+10	W. TOP	572.88	STAKED			
7+10	W. TOE	563.5	563.6		 10/23/98 1400	10/23
7+10	CENTER	563.5	563.5	BWN		1:00 PM
7+10	E. TOP	563.5	563.7			
6+95	W. TOP	572.88	STAKED			
6+95	W. TOE	563.5	563.44			10/22
6+95	CENTER	563.5	563.61	BWN		10:30 AM
6+95	E. TOP	563.5	563.53			

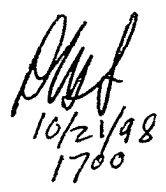

INTERMEDIATE STA.

SAND CAPPING

STATION	CONTROL PT.	ACCD. ELEV.	ACT. ELEV.	SURVEYORS INITIALS	RETR. ACCEPTANCE	DATE/TIME
7+45	W. BANK	572.88	STAKED			
7+45	W. TOE	563.5	563.67		 10/21/98 1700	10/21
7+45	CENTER	563.5	563.65	BWN		4:45 PM
7+45	E. TOE	563.5	563.62			
	SHEET PILE					
7+30	W. BANK	572.88	STAKED			10/22
7+30	W. TOE	563.5	563.62	BWN		11:50 AM
7+30	CENTER	563.5	563.69			
7+30	E. TOE	563.5	563.58			
	SHEET PILE					
7+15	W. TOP	572.88	STAKED		 10/23/98 1400	10/22
7+15	W. TOE	563.5	563.83	BWN		2:00 PM
7+15	CENTER	563.5	563.58			
7+15	E. TOP	563.5	563.48			
7+10	W. TOP	572.88	STAKED		 10/23/98 1400	10/23
7+10	W. TOE	563.5	563.6	BWN		1:00 PM
7+10	CENTER	563.5	563.5			
7+10	E. TOP	563.5	563.7			

INTERMEDIATE STA.

SAND CAPPING

STATION	CONTROL PT.	ASCD ELEV.	ACT. ELEV.	SURVEYORS INITIALS	RETIC ACCEPTANCE	DATE/TIME
7+45	W. BANK	572.88	STAKED			
7+45	W. TOE	563.5	563.67			10/21 4:45 PM
7+45	CENTER	563.5	563.65	BWN		
7+45	E. TOE SHEET PILE	563.5	563.62			
7+30	W. BANK	572.88	STAKED			
7+30	W. TOE	563.5	563.62			10/22 11:50 AM
7+30	CENTER	563.5	563.69	BWN		
7+30	E. TOE SHEET PILE	563.5	563.58			

INTERMEDIATE STA.

SAND COPPING

STATION	CONTROL PT.	ACCD ELEV.	ACT. ELEV.	SURVEYORS INITIALS	RETR ACCEPTANCE	DATE/ TIME
7+45	W. BANK	572.88	STOKED			
7+45	W. TOE	563.5	563.67			10/21
7+45	CENTER	563.5	563.65	BWM	<i>[Signature]</i> 10/21/98 1700	4:45 PM
7+45	E. TOE SHORT PILE	563.5	563.62			

Scajaquada Creek Sediment Remediation

SAND CAPPING ACCEPTANCE SURVEY

Station	Control Point	Acceptable Elevation	Actual Distance from Baseline	Actual Elevation	Surveyor	RETÉC	Date/Time
Ref Dwg.	Along Transect	Feet IGLD +0.5/-0.5 (min. Thickness = 1.5 ft)	Along Transect (INPUT BY SURVEYOR)	Feet IGLD (INPUT BY SURVEYOR)	Initials	Acceptance	
10+05	W Bank	574	24.62	573.0			
10+05	W Toe	563.5	43.39 DESIGN / 37.38 ACT.	565.68			
10+05	Center	563.5	53.45	565.92	BHW		9/21/98
10+05	E Toe	563.5	63.52 DESIGN / 72.52 ACT.	565.56			9:00 AM
10+05	E Bank	574	82.28	572.93			
9-55	W Bank	574	24.62	573.0			
9-55	W Toe	567.5	35.38	565.1			
9-55	Center	565.5	51.00	564.4	BHW		9/21/98
9-55	E Toe	567.5	61.62	565.1			9:00 AM
9-55	E Bank	574	77.38	571.6			
9-05	W Bank	574	19.62	574.91			
9-05	W Toe	567.5	36.38	566.02			
9-05	Center	567.5	48.5	564.65	BHW		9/21/98
9+05	E Toe	567.5	60.6	564.80			3:20 PM
9-05	Sheet Pile Wall	573.5	78.6	573.5 STAKED			
8-55	W Bank	574	19.62	573.34			
8-55	W Toe	567.5	36.38	564.94			
8-55	Center	566.5	56.14	564.38	BHW		10/13
8-55	E Toe	566.5	75.50	564.62			6:30 PM
8-55	Sheet Pile Wall	573.5	93.50	574.05			
8-05	W Bank	574	21.62	573.05 STAKED			
8-05	W Toe	565.5	36.38	564.53			
8-05	Center	565.5	58.09	564.37	BHW		10/16
8-05	E Toe	565.5	81.0	564.61			3:20 PM
8-05	Sheet Pile Wall	573.5	97.0	573.45 STAKED			
7-55	W Bank	574	25.44	570.05			
7-55	W Toe	563.5	44.70	563.97			
7-55	Center	563.5	57.28	563.80	BHW		10/20
7-55	E Toe	563.5	73.05	563.62			6:50 PM
7-55	Sheet Pile Wall	573.5	93.73	570.05			
7-05	W Bank	574					
7-05	W Toe	563.5					
7-05	Center	563.5					
7-05	E Toe	563.5					
7-05	Sheet Pile Wall	573.5					
6-55	W Bank	574					
6-55	W Toe	563.5					
6-55	Center	563.5					
6-55	E Toe	563.5					
6-55	Sheet Pile Wall	573.5					
6-05	W Bank	574					
6-05	W Toe	563.5					
6-05	Center	563.5					
6-05	E Toe	563.5					
6-05	E Bank	574					
5-55	W Bank	574					
5-55	W Toe	563.5					
5-55	Mid 1	563.5					
5-55	Center	563.5					
5-55	Mid 2	563.5					
5-55	E Toe	563.5					
5-55	E Bank	574					
5-05	W Bank	574					
5-05	W Toe	563.5					
5-05	Center	563.5					
5-05	E Toe	563.5					
5-05	E Bank	574					



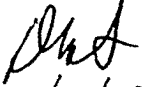
INTERMEDIATE STA.

SAND CAPPING

STATION	CONTROL PT.	ACCEP. ELEV.	ACT. ELEV.	SURVEYORS INITIALS	RETEC. ACCEPTANCE	DATE/TIME
7+75	W. BANK	572.88	STAKED	BHN	<i>[Signature]</i>	10/19 8:00 AM
7+75	W. TOE	564	564.0			
7+75	CENTER	564	564.26			
7+75	E. TOE	564	564.18			
7+75	E. BANK	573.5	STAKED			
7+65	W. BANK	572.88	STAKED	BHN	<i>[Signature]</i>	10/19 5:08 PM
7+65	W. TOE	563.7	564.15			
7+65	CENTER	563.7	564.23			
7+65	E. TOE	563.7	563.55			
7+65	E. BANK	573.5	STAKED			
7+60	W. BANK	572.88	STAKED	BHN	<i>[Signature]</i> 10/20/98 1315	10/20 11:50 AM
7+60	W. TOE	563.6	564.18			
7+60	CENTER	563.6	564.1			
7+60	E. TOE	563.6	564.0			
7+60	E. BANK	573.5	STAKED			
7+50	W. BANK	572.88	STAKED	BHN	<i>[Signature]</i> 10/21/98	10/21 11:00 AM
7+50	W. TOE	563.5	563.52			
7+50	CENTER	563.5	563.36			
7+50	E. TOE	563.5	563.63			
7+50	E. BANK	573.5	STAKED			

INTERMEDIATE STA.

SAND CAPPING

STATION	CONTROL PT.	ACCEP. ELEV.	ACT. ELEV.	SURVEYORS INITIALS	ESTEC. ACCEPTANCE	DATE/TIME
7+75	W. BANK	572.88	STAKED	BHN		10/19 8:00 am
7+75	W. TOE	564	564.0			
7+75	CENTER	564	564.26			
7+75	E. TOE	564	564.18			
7+75	E. BANK	573.5	STAKED			
7+65	W. BANK	572.88	STAKED	BHN		10/19 5:05 P
7+65	W. TOE	563.7	564.15			
7+65	CENTER	563.7	564.23			
7+65	E. TOE	563.7	563.55			
7+65	E. BANK	573.5	STAKED			
7+60	W. BANK	572.88	STAKED	BHN	 10/20/98 1315	10/20 11:30 am
7+60	W. TOE	563.6	564.18			
7+60	CENTER	563.6	564.1			
7+60	E. TOE	563.6	564.0			
7+60	E. BANK	573.5	STAKED			

INTERMEDIATE STA.

SAND CAPPING

STATION	CONTROL PT.	ACCEP. ELEV.	ACT. ELEV.	SURVYORS INITIALS	RETEC. ACCEPTANCE	DATE/TIME
7+75	W. BANK	572.88	STAKED			
7+75	W. TOE	564	564.0		<i>[Signature]</i>	10/19 8:00 AM
7+75	CENTER	564	564.26	BHN		
7+75	E. TOE	564	564.18			
7+75	E. BANK	573.5	STAKED			
7+65	W. BANK	572.88	STAKED			
7+65	W. TOE	563.7	564.15		<i>[Signature]</i>	10/19 5:00 PM
7+65	CENTER	563.7	564.23	BHN		
7+65	E. TOE	563.7	563.55			
7+65	E. BANK	573.5	STAKED			

Scajaquade Creek Sediment Remediation

SAND CAPPING ACCEPTANCE SURVEY

Station	Control Point	Acceptable Elevation Feet IGLD $\pm 0.5/-0.5$ (min. Thickness = 1.5 ft)	Actual Distance from Baseline Along Transect (INPUT BY SURVEYOR)	Actual Elevation Feet IGLD (INPUT BY SURVEYOR)	Surveyor Initials	RETÉC Acceptance	Date/Time
S-3A & B	W. Bank	574	24.62	573.0			
10+05	W. Toe	563.5	43.39 DESIGN / 37.38 ACT.	565.68			
10+05	Center	563.5	53.45	565.42	BHW		9/21/98
10+05	E. Toe	563.5	63.52 DESIGN / 72.52 ACT.	565.56			9:00 AM
10+05	E. Bank	574	82.28	572.93			
9-55	W. Bank	574	24.62	573.0			
9-55	W. Toe	567.5	35.38	565.1			
9-55	Center	565.5	51.00	564.4	BHW		9/21/98
9-55	E. Toe	567.5	61.62	565.1			9:00 AM
9-55	E. Bank	574	77.38	571.6			
9-05	W. Bank	574	19.62	574.91			
9-05	W. Toe	567.5	36.38	566.02			
9-05	Center	567.5	48.5	564.63	BHW		9/21/98
9-05	E. Toe	567.5	60.6	564.80			3:00 PM
9-05	Sheet Pile Wall	573.5	78.6	573.5 STAGED			
8-55	W. Bank	574	14.62	573.34			
8-55	W. Toe	567.5	36.38	564.94			
8-55	Center	566.5	56.14	564.38	BHW		10/13
8-55	E. Toe	566.5	75.90	564.62			6:30 PM
8-55	Sheet Pile Wall	573.5	93.90	573.5			
8-05	W. Bank	574					
8-05	W. Toe	565.5					
8-05	Center	565.5					
8-05	E. Toe	565.5					
8-05	Sheet Pile Wall	573.5					
7-55	W. Bank	574					
7-55	W. Toe	563.5					
7-55	Center	563.5					
7-55	E. Toe	563.5					
7-55	Sheet Pile Wall	573.5					
7-05	W. Bank	574					
7-05	W. Toe	563.5					
7-05	Center	563.5					
7-05	E. Toe	563.5					
7-05	Sheet Pile Wall	573.5					
6-55	W. Bank	574					
6-55	W. Toe	563.5					
6-55	Center	563.5					
6-55	E. Toe	563.5					
6-55	Sheet Pile Wall	573.5					
6+05	W. Bank	574					
6-05	W. Toe	563.5					
6-05	Center	563.5					
6-05	E. Toe	563.5					
6-05	E. Bank	574					
5-55	W. Bank	574					
5-55	W. Toe	563.5					
5-55	Mid 1	563.5					
5-55	Center	563.5					
5-55	Mid 2	563.5					
5-55	E. Toe	563.5					
5-55	E. Bank	574					
5-05	W. Bank	574					
5+05	W. Toe	563.5					
5-05	Center	563.5					
5-05	E. Toe	563.5					
5-05	E. Bank	574					




INTERMEDIATE STATIONS
SAND CAPPING

STATION	CONTROL PT.	ACCEP. ELEV.	ACT. ELEV.	SURVEYOR'S INITIALS	RETEC ACCEPTANCE	DATE/TIME
9+30	W. TOE	564.5 567.5	565.64	BHW		9/26/98 12:00 Pm.
	CENTER	563.5 566.5	564.94			
	E. TOE	567.5 564.5	565.3			
9+25	W. TOE	^{AS MEAS. 9/26/98} 565.7 565.7 / 567.5	565.5	BHW		9/29/98 3:00 P 16:30
	CENTER	564.9 / 566.7	564.65			
	E. TOE	565.7 / 567.5	565.57			
8+85	W. TOE	^{DESIGN CHANGE} 567.5 / 568.5	^(X6) 564.88 564.85	BHW		9 OCT 11:30 10/3/98 11:00
	CENTER	567.0 / 568.5	^(X5) 564.64 564.86			
	E. TOE	566.0 / 568.5	^(X6) 564.82 565.01			
8+35	W. TOE	564.5	565.0	BHW	 10/14/98 0730PM	10/14 6:30
	CENTER	564.5	564.79			
	E. TOE	564.5	564.91			



INTERMEDIATE STATIONS Sand Capping

STATION	CONTROL PT.	ACCP. ELEV.	ACT. ELEV.	Surveyors INITIALS	RETR. ACCEPTANCE	DATE/TIME
9+30	W. TOE	564.5 567.5	565.64	BHN		9/26/98 12:00 PM
	CENTER	563.5 566.5	564.94			
	E. TOE	567.5 564.5	565.3			
9+25	W. TOE	^{to 100 ft. station} 565.7 567.5 / 567.5	565.5	BHN		9/29/98 3:00 PM 16 ³⁰
	CENTER	564.9 / 566.7	564.65			
	E. TOE	565.7 / 567.5	565.57			
8+85	W. TOE	^{DESIGN CHANGE} 567.5 / 564.5	^{NO} 564.88	BHN		9/30/98 11:30 AM 10/3/98 11:00 AM
	CENTER	567.0 / 564.5	^{BHN} 564.64 564.86			
	E. TOE	566.0 / 564.5	^{BHN} 564.82 565.01			
8+35	W. TOE	564.5	565.0	BHN		10/13/98 6:30 PM
	CENTER	564.5	564.79			
	E. TOE	564.5	564.91			
8+15	W. TOE	564.5	564.42	BHN		10/15 10:30 AM
	CENTER	564.5	564.56			
	E. TOE	564.5	564.65			

INTERMEDIATE STATIONS
SAND CAPPING

STATION	CONTROL PT.	ACCP. ELEV.	ACT. ELEV.	SURVEYOR'S INITIALS	RETOR. ACCEPTANCE	DATE/TIME
9+30	W. TOE	564.5 567.5	565.64	BHN		9/26/98 12:00 PM
	CENTER	563.5 566.5	564.94			
	E. TOE	567.5 564.5	565.3			
9+25	W. TOE	^{As per 9/20/98} 565.7 566.7 / 567.5	565.5	BHN		9/29/98 3:00 PM 16 ³⁰
	CENTER	564.9 / 566.7	564.65			
	E. TOE	565.7 / 567.5	565.57			
9+85	W. TOE	^{DESIGN CHANGE} 567.5 / 568.5	⁽¹⁶⁾ 564.88 564.95	BHN		9/30/98 11:30 AM 10/3/98 11:00 AM
	CENTER	567.0 / 568.5	⁽¹⁶⁾ 564.64 564.86			
	E. TOE	566.0 / 568.5	⁽¹⁶⁾ 564.82 565.01			

INTERMEDIATE STATIONS
SAND CIPPING

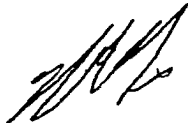
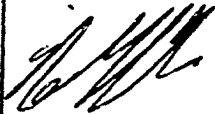



STATION	CONTROL PT.	ACCP. ELEV.	ACT. ELEV.	SUPERVISOR INITIALS	RETOR ACCEPTANCE	DATE/TIME
9+30	W. TOE	564.5 567.5	565.44	BAN		9/26/98 12:00 PM
	CENTRAL	563.5 566.5	564.94			
	E. TOE	567.5 564.5	565.3			
9+25	W. TOE	^{AS ORIGINALLY} 565.7 565.7 / 567.5	565.5	BAN		9/29/98 3:00 PM 16 ³⁰
	CENTRAL	564.9 / 566.7	564.65			
	E. TOE	565.7 / 567.5	565.57			

Scajaquada Creek Sediment Remediation			SAND CAPPING ACCEPTANCE SURVEY			PAGE 2 of 3	
Station	Control Point	Acceptable Elevation	Actual Distance from Baseline	Actual Elevation	Surveyor	RETEC	Date/Time
Ref Dwg.	Along Transect	Foot IGLD +0.5/-0.5 (min. Thickness = 1.5 ft)	Along Transect (INPUT BY SURVEYOR)	Feet IGLD (INPUT BY SURVEYOR)	Initials	Acceptance	
10+05	W Bank	574 572.88	24.62	573.0			
10+05	W Toe	563.5	43.38 DESIGN / 37.38 ACT.	565.68			
10+05	Center	563.5	53.45	565.42	BHN		9/21/98
10+05	E Toe	563.5	63.52 DESIGN / 72.52 ACT.	565.56			9:00 AM
10+05	E Bank	574 572.88	82.28	572.93			
9-55	W Bank	574 572.88	24.62	573.0			
9-55	W Toe	567.5	25.38	565.1			
9-55	Center	565.5	51.00	564.4	BHN		9/21/98
9-55	E Toe	567.5	66.62	565.1			9:00 AM
9-55	E Bank	574 572.88	77.38	571.6			
9-05	W Bank	574 572.88	19.62	574.91			
9-05	W Toe	567.5	26.38	566.02			
9-05	Center	567.5	48.5	564.65	BHN		9/21/98
9-05	E Toe	567.5	60.6	564.80			3:00 PM
9-05	Sheet Pile Wall	573.5	78.6	573.5 STAKED			1630
8-55	W Bank	574					
8-55	W Toe	567.5					
8-55	Center	566.5					
8-55	E Toe	566.5					
8-55	Sheet Pile Wall	573.5					
8-05	W Bank	574					
8-05	W Toe	565.5					
8-05	Center	565.5					
8-05	E Toe	565.5					
8-05	Sheet Pile Wall	573.5					
7-55	W Bank	574					
7-55	W Toe	563.5					
7-55	Center	563.5					
7-55	E Toe	563.5					
7-55	Sheet Pile Wall	573.5					
7-05	W Bank	574					
7-05	W Toe	563.5					
7-05	Center	563.5					
7-05	E Toe	563.5					
7-05	Sheet Pile Wall	573.5					
6-55	W Bank	574					
6-55	W Toe	563.5					
6-55	Center	563.5					
6-55	E Toe	563.5					
6-55	Sheet Pile Wall	573.5					
6-05	W Bank	574					
6-05	W Toe	563.5					
6-05	Center	563.5					
6-05	E Toe	563.5					
6-05	E Bank	574					
5-55	W Bank	574					
5-55	W Toe	563.5					
5-55	Mid 1	563.5					
5-55	Center	563.5					
5-55	Mid 2	563.5					
5-55	E Toe	563.5					
5-55	E Bank	574					
5-05	W Bank	574					
5-05	W Toe	563.5					
5-05	Center	563.5					
5-05	E Toe	563.5					
5-05	E Bank	574					

Station Ref Dwg. S-3A & B	Control Point Along Transect	Acceptable Elevation Feet IGLD +0.5/-0.5 (min Thickness = 1.5 ft)	Actual Distance from Baseline Along Transect (INPUT BY SURVEYOR)	Actual Elevation Feet IGLD (INPUT BY SURVEYOR)	Surveyor Initials	RETEC Acceptance	Date/Time
15-85	W Bank	572.88		18.2	STAKED		10/6/98
15-85	W Toe	565.5	32.96	566.2	566.2	BUN	10/7/98
15-85	Center	565.5	52.31	566.31	566.31		10/7/98
15-85	E Toe	565.5	56.84	565.84	565.84		16:30 10/
15-85	E Bank	572.88		83.28	STAKED		
15-60	W Bank	572.88		18.0	STAKED		10/6/98
15-60	W Toe	565.5		19.12	566.88	BUN	+
15-60	Center	565.5		50.0	565.95		10/7/98
15-60	E Toe	565.5		82.08	566.30		16:30 10/
15-60	E Bank	572.88		83.2	STAKED		
14-75	W Bank	572.88		17.72	STAKED		10/3/98
14-75	W Toe	567.5	572.88	26.48	567.35	BUN	
14-75	Center	567.5	567.35	47.24	567.51		2:30 PM
14-75	E Toe	567.5	572.88	46.00	567.65		
14-75	E Bank	572.88	572.88	76.76	STAKED		
14-20	W Bank	572.88			STAKED		10/1/98
14-20	W Toe	563.5	39.85		565.9	BUN	
14-20	Center	563.5	48.95		565.3		11:30 AM
14-20	E Toe	563.5	53.45		565.75		12:00
14-20	E Bank	572.88			STAKED		
13-60	W Bank	572.88		12.92	STAKED		9/21/98
13-60	W Toe	565.5		27.68	565.96	BUN	
13-60	Center	565.5		45.33	565.55		1:30 PM
13-60	E Toe	565.5		63.10	565.60		14:00
13-60	E Bank	572.88		72.86	STAKED		
13-10	W Bank	572.88		22.02	572.88 STAKED		9/22/98
13-10	W Toe	565.5		36.78	565.82	BUN	
13-10	Center	565.5		49.44	565.67		1:30 PM
13-10	E Toe	565.5		63.10	565.68		14:15
13-10	E Bank	572.88		77.86	572.88 STAKED		
12-60	W Bank	572.88		18.42	572.88 STAKED		9/16/98
12-60	W Toe	565.5		33.18	565.57	BUN	
12-60	Center	564.5		48.4	564.76		10:00 AM
12-60	E Toe	565.5		63.42	565.69		10:10
12-60	E Bank	572.88		78.38	572.88 STAKED		
12-10	W Bank	572.88		22.02	572.88 STAKED		9/14/98
12-10	W Toe	565.5		36.78	565.72	BUN	
12-10	Center	565.5		50.41	565.80		10:00 AM
12-10	E Toe	565.5		76.04	565.65		13:15
12-10	E Bank	572.88		90.80	572.88 STAKED		
11-60	W Bank	572.88		20.92	572.88 STAKED		
11-60	W Toe	565.5		35.68	565.80	BUN	
11-60	Center	565.5		53.09	565.62		
11-60	E Toe	565.5		70.89	565.47		
11-60	E Bank	572.88		85.45	572.88 STAKED		
11-10	W Bank	572.88		15.44	572.88 STAKED		9/10/98
11-10	W Toe	565.5		30.75	565.18	BUN	
11-10	Center	565.5		45.00	565.12		8:30 AM
11-10	E Toe	565.5		59.75	565.21		
11-10	E Bank	572.88		74.50	572.88 STAKED		
10-95	W Bank	574					
10-95	W Toe	563.5					
10-95	Center	563.5					
10-95	E Toe	563.5					
10-95	E Bank	574					

INTERMEDIATE STATION ON BACK




SAND CAPPING

STATION	CONTROL PT.	ACCEP. ELEV.	ACT. ELEV.	SURVEYORS INITIALS	RET. ACC. ACCEPTANCE	DATE / TIME
11+05±	W. BANK	572.88	STAKED	BNN		9/10/98 8:55a
	W. TOE	564.5	564.76			
	CENTER	564.5	564.7			
	E. TOE	564.5	564.69			
	E. BANK	572.88	STAKED			
11+35	W. BANK	572.88	STAKED	BNN		9/10/98 1:30 PM
	W. TOE	565.5	565.62			
	CENTER	565.5	565.61			
	E. TOE	565.5	565.44			
	E. BANK	572.88	STAKED			
11+80	W. BANK	572.88	STAKED	BNN		9/12/98 9:30 am.
	W. TOE	565.5	565.58			
	CENTER	565.5	565.53			
	E. TOE	565.5	565.48			
	E. BANK	572.88	STAKED			
12+30	W. BANK	572.88	STAKED	BNN		9/14/98 3:30 PM 1600
	W. TOE	565.5	565.68			
	CENTER	565.1	565.28			
	E. TOE	565.5	565.63			
	E. BANK	572.88	STAKED			
1+50	W. BANK	572.88	STAKED	BNN		9/15/98 1:30 PM 1550
	W. TOE	565.5	565.80			
	CENTER	564.7	564.81			
	E. TOE	565.5	565.77			
	E. BANK	572.88	STAKED			



INTERMEDIATE STA.

SAND CAPPING

STATION	CONTROL PT.	ACCEP. ELEV.	ACT. ELEV.	SURVEYORS INITIALS	RETEN ACCEPTANCE	DATE / TIME
14+35	W. BANK	572.82	572.88 STAKED	BHN		10/2/98 1:45
	W. TOE	564.59	565.96			
	CENTER	563.86	565.8			
	E. TOE	564.59	566.0			
	E. BANK	572.88	572.88 STAKED			
14+50	W. BANK	572.82	STAKED	BHN		10/3/98 8:15 am.
	W. TOE	565.68	566.27			
	CENTER	565.23	565.85			
	E. TOE	565.68	566.53			
	E. BANK	572.83	STAKED			
14+65	W. BANK	572.88	STAKED	BHN		10/3/98 1:45 PM.
	W. TOE	566.77	566.94			
	CENTER	566.59	566.76			
	E. TOE	566.77	567.23			
	E. BANK	572.88	STAKED			

Station Ref Dwg.	Control Point Along Transect	Acceptable Elevation Feet IGLD +0.5/-0.5 (min. Thickness = 1.5 ft)	Actual Distance from Baseline Along Transect (INPUT BY SURVEYOR)	Actual Elevation Feet IGLD (INPUT BY SURVEYOR)	Surveyor Initials	RETEC Acceptance	Date/Time
15-85	W. Bank	574					
15-85	W. Toe	565.5					
15-85	Center	565.5					
15-85	E. Toe	565.5					
15-85	E. Bank	574					
15-60	W. Bank	574					
15-60	W. Toe	565.5					
15-60	Center	565.5					
15-60	E. Toe	565.5					
15-60	E. Bank	574					
14-75	W. Bank	574	572.88	572.88	17.72	STAKED	
14-75	W. Toe	567.5		567.35	26.48		
14-75	Center	567.5		567.51	47.24		
14-75	E. Toe	567.5		567.65	68.00		
14-75	E. Bank	574	572.88	572.88	76.76	STAKED	
14-20	W. Bank	574	572.88			STAKED	
14-20	W. Toe	563.5		39.85			
14-20	Center	562.5		48.95			
14-20	E. Toe	563.5		52.48			
14-20	E. Bank	574	572.88			STAKED	
13-60	W. Bank	574	572.88			STAKED	
13-60	W. Toe	565.5		12.92			
13-60	Center	565.5		27.68			
13-60	E. Toe	565.5		45.33			
13-60	E. Bank	574	572.88	63.10			
13-10	W. Bank	574	572.88			STAKED	
13-10	W. Toe	565.5		22.02			
13-10	Center	565.5		36.78			
13-10	E. Toe	565.5		49.44			
13-10	E. Bank	574	572.88	63.10			
12-60	W. Bank	574	572.88			STAKED	
12-60	W. Toe	565.5		18.42			
12-60	Center	564.5		33.18			
12-60	E. Toe	565.5		48.4			
12-60	E. Bank	574	572.88	63.62			
12-10	W. Bank	574	572.88			STAKED	
12-10	W. Toe	565.5		22.02			
12-10	Center	565.5		36.78			
12-10	E. Toe	565.5		56.41			
12-10	E. Bank	574	572.88	76.04			
11-60	W. Bank	574	572.88			STAKED	
11-60	W. Toe	565.5		20.82			
11-60	Center	565.5		35.88			
11-60	E. Toe	565.5		53.09			
11-60	E. Bank	574	572.88	70.89			
11-10	W. Bank	574	572.88			STAKED	
11-10	W. Toe	565.5		15.44			
11-10	Center	565.5		30.75			
11-10	E. Toe	565.5		45.00			
11-10	E. Bank	574	572.88	58.75			
10-95	W. Bank	574				STAKED	
10-95	W. Toe	563.5					
10-95	Center	563.5					
10-95	E. Toe	563.5					
10-95	E. Bank	574				STAKED	

INTERMEDIATE STATION ON BACK

INTERMEDIATE STA.

SAND CAPPING

STATION	CONTROL PT.	ACCP. ELEV.	ACT. ELEV.	SURVEYORS INITIALS	RETEL ACCEPTANCE	DATE/TIME
12+85	W. BANK	572.88	STAKED	BHN	<i>[Signature]</i>	9/17/98 1:30 PM 5:30 PM 9/17/98
	W. TOE	565.5	565.76			
	CENTER	565.0	565.28			
	E. TOE	565.5	565.71			
	E. BANK	572.88	STAKED			
13+35	W. BANK	572.88	STAKED	BHN	<i>[Signature]</i>	9/26/98 11:00 AM 11:30
	W. TOE	565.5	565.71			
	CENTER	565.0	565.26			
	E. TOE	565.5	565.61			
	E. BANK	572.88	STAKED			
13+1850	W. BANK	572.88	STAKED	BHN	<i>[Signature]</i>	9/28/0 1:30 A 1:35
	W. TOE	565.5	565.55			
	CENTER	565.5	565.58			
	E. TOE	565.5	565.78			
	E. BANK	572.88	STAKED			
13+70	W. BANK	572.88	STAKED	BHN	<i>[Signature]</i>	9/28/98 1:30 P 1:40
	W. TOE	565.17	565.45			
	CENTER	565.00	565.48			
	E. TOE	565.17	565.72			
	E. BANK	572.88	STAKED			
+95	W. BANK	572.88	STAKED	BHN	<i>[Signature]</i>	9/30/0 2:00 P 1:50
	W. TOE	564.33	565.42			
	CENTER	563.75	565.18			
	E. TOE	564.33	565.57			
	E. BANK	572.88	STAKED			

Station Ref Dwg. S-3A & B	Control Point Along Transect	Acceptable Elevation Feet IGLD +0.5/-0.5 (min. Thickness = 1.5 ft)	Actual Distance from Baseline Along Transect (INPUT BY SURVEYOR)	Actual Elevation Feet IGLD (INPUT BY SURVEYOR)	Surveyor Initials	RETEC Acceptance	Date/Time
15-85	W. Bank	574					
15-85	W. Toe	565.5					
15-85	Center	565.5					
15-85	E. Toe	565.5					
15-85	E. Bank	574					
15-60	W Bank	574					
15-60	W Toe	565.5					
15-60	Center	565.5					
15-60	E Toe	565.5					
15-60	E Bank	574					
14-75	W Bank	574					
14-75	W Toe	567.5					
14-75	Center	567.5					
14-75	E Toe	567.5					
14-75	E Bank	574					
14-20	W Bank	574					
14-20	W Toe	563.5					
14-20	Center	562.5					
14-20	E Toe	563.5					
14-20	E Bank	574					
13-60	W. Bank	574	572.83	12.92	STAKED		
13-60	W Toe	565.5		27.68	565.96	BWJ	9/21/98
13-60	Center	565.5		45.33	565.55		1:30 PM
13-60	E Toe	565.5		63.10	565.60		1400
13-60	E Bank	574	572.83	71.86	STAKED		
13-10	W Bank	574	572.83	22.02	572.88 STAKED		
13-10	W Toe	565.5		36.78	565.82	BWJ	9/22/98
13-10	Center	565.5		49.54	565.67		1:30 PM
13-10	E Toe	565.5		63.10	565.68		1415
13-10	E Bank	574	572.83	77.86	572.88 STAKED		
12-60	W Bank	574	572.88	18.42	572.88 STAKED		
12-60	W Toe	565.5		33.18	565.57	BWJ	9/16/98
12-60	Center	565.5		48.4	564.76		10:00 AM
12-60	E Toe	565.5		63.62	565.69		1010
12-60	E Bank	574	572.88	78.38	572.88 STAKED		
12-10	W Bank	574	572.88	22.02	572.88 STAKED		
12-10	W Toe	565.5		36.78	565.72	BWJ	9/14/98
12-10	Center	565.5		50.41	565.80		10:00 AM
12-10	E Toe	565.5		76.04	565.65		1015
12-10	E Bank	574	572.88	90.80	572.88 STAKED		
11-60	W Bank	574	572.88	20.82	572.88 STAKED		
11-60	W Toe	565.5		35.48	565.80		
11-60	Center	565.5		53.09	565.52		
11-60	E Toe	565.5		70.82	565.47		
11-60	E Bank	574	572.88	85.85	572.88 STAKED		
11-10	W Bank	574	572.88	15.44	572.88 STAKED		
11-10	W Toe	565.5		30.75	565.18	BWJ	9/10/98
11-10	Center	565.5		45.00	565.12		8:30 AM
11-10	E Toe	565.5		58.75	565.21		
11-10	E Bank	574	572.83	74.50	572.88 STAKED		
10-95	W Bank	574					
10-95	W Toe	563.5					
10-95	Center	563.5					
10-95	E Toe	563.5					
10-95	E Bank	574					

INTERMEDIATE STATIONS ON BACK

INTERMEDIATE STA.
SAND CAPPING

STATION	CONTROL PT.	ACCP. ELEV.	ACT. ELEV.	SURVEYORS INITIALS	RETEC ACCEPTANCE	DATE/TIME
12+85	W. BANK	572.88	STAKED	BHW	<i>[Signature]</i>	9/17/9 1:30 P 5:30 P 9/17/9
	W. TOE	565.5	565.76			
	CENTER	565.0	565.28			
	E. TOE	565.5	565.71			
	E. BANK	572.88	STAKED			
13+35	W BANK	572.88	STAKED	BHW	<i>[Signature]</i>	9/26/9 11:00 A 11:30
	W. TOE	565.5	565.71			
	CENTER	565.0	565.26			
	E. TOE	565.5	565.61			
	E. BANK	572.88	STAKED			
13+1850	W. BANK	572.88	STAKED	BHW	<i>[Signature]</i>	9/28/9 1:30 1335
	W. TOE	565.5	565.55			
	CENTER	565.5	565.58			
	E. TOE	565.5	565.78			
	E. BANK	572.88	STAKED			
13+70	W. BANK	572.88	STAKED	BHW	<i>[Signature]</i>	9/28/9 1:30 1400
	W. TOE	565.17	565.45			
	CENTER	565.00	565.48			
	E. TOE	565.17	565.72			
	E. BANK	572.88	STAKED			

INTERMEDIATE STA.
SAND CAPPING

STATION	CONTROL PT.	ACCP. ELEV.	ACT. ELEV.	SURVEYORS INITIALS	RETEL ACCEPTANCE	DATE/TIME
12+85	W. BANK	572.88	STAKED	BHN	<i>Dnt</i>	9/17/9 1:30 5:30 9/17
	W. TOE	565.5	565.76			
	CENTER	565.0	565.28			
	E. TOE	565.5	565.71			
	E. BANK	572.88	STAKED			
13+35	W BANK	572.88	STAKED	BHN	<i>Dnt</i>	9/26 11:00 11:30
	W. TOE	565.5	565.71			
	CENTER	565.0	565.28			
	E. TOE	565.5	565.61			
	E. BANK	572.88	STAKED			
13+15	W. BANK	572.88	STAKED	BHN	<i>Dnt</i>	9/29 1:30 13:35
	W. TOE	565.5	565.55			
	CENTER	565.5	565.58			
	E. TOE	565.5	565.78			
	E BANK	572.88	STAKED			


INTERMEDIATE STA.
SAND CAPPING ACCEPTANCE SURVEY
SAND CAPPING

Station Ref Dwg. S-3A & B	Control Point Along Transect	Acceptable Elevation Feet IGLD +0.5/-0.5 (min. Thickness = 1.5 ft)	Actual Distance from Baseline Along Transect (INPUT BY SURVEYOR)	Actual Elevation Feet IGLD (INPUT BY SURVEYOR)	Surveyor Initials	RETEC Acceptance	Date/Time
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STATION	CONTROL PT	ACCP. ELEV.	ACT. ELEV.	SURVEYORS INITIALS	RETEC ACCEPTANCE	DATE/TIME
15-85	W Bank	574				
15-85	W Toe	565.5				
15-85	Center	565.5				
15-85	E Toe	565.5				
15-85	E Bank	574				
12+8	W Bank	574				
15-60	W. BANK	565.5	572.88	STAGED		
15-60	Center	565.5				
15-60	E Toe	565.5				
15-60	E. TOE	565.5	565.5	565.76	BHW	9/17/91
15-60	E Bank	574				
15-60	CENTER	565.0				
15-60	E TOE	565.0				
14-75	W Bank	574	565.5	565.71		1:30 P.
14-75	W TOE	567.5				5:30 PM
14-75	Center	567.5	572.88	STAGED		9/17/91
14-75	E Toe	567.5				
14-75	E Bank	574				
14-20	W Bank	574				
14-20	W Toe	563.5				
14-20	Center	562.5				
14-20	E Toe	563.5				
14-20	E Bank	574				
13+35	W BANK	574	572.88	STAGED		
13-60	W TOE	574	565.5	565.71		9/26/91
13-60	W Toe	565.5				
13-60	Center	565.5				
13-60	E Toe	565.5	565.0	565.26	BHW	11:00 AM
13-60	E Bank	574				11/30
13-60	C TOE	565.5				
13-10	W Bank	574	565.5	565.61		
13-10	W Toe	565.5				
13-10	Center	565.5	572.88	STAGED		
13-10	E Toe	565.5				
13-10	E Bank	574				
12-60	W Bank	574				
12-60	W Toe	565.5				
12-60	Center	564.5				
12-60	E Toe	565.5				
12-60	E Bank	574				
12-10	W Bank	574				
12-10	W Toe	565.5				
12-10	Center	565.5				
12-10	E Toe	565.5				
12-10	E Bank	574				
11-60	W Bank	574				
11-60	W Toe	565.5				
11-60	Center	565.5				
11-60	E Toe	565.5				
11-60	E Bank	574				
11-10	W Bank	574				
11-10	W Toe	565.5				
11-10	Center	565.5				
11-10	E Toe	565.5				
11-10	E Bank	574				
10-95	W Bank	574				
10-95	W Toe	563.5				
10-95	Center	563.5				
10-95	E Toe	563.5				
10-95	E Bank	574				

INTERMEDIATE STATIONS

SAND CAPPING

STATION	CONTROL PT.	ACCP. ELEV.	ACT. ELEV.	SURVEYOR'S INITIALS	RETOR ACCEPTANCE	DATE/TIME	
9+30	W. TOE	524.5 527.5	525.24	BAN		9/26/91	
	CENTER	523.5 526.5	524.94				12:00 PM
	E. TOE	527.5 524.5	525.3				

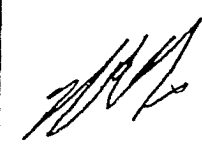
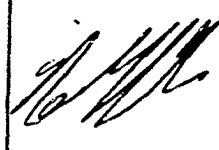



Scajaquada Creek Sediment Remediation			SAND CAPPING ACCEPTANCE SURVEY			PAGE 2 of 3	
Station	Control Point	Acceptable Elevation	Actual Distance from Baseline	Actual Elevation	Surveyor	RETEC	Date/Time
Ref Dwg.	Along Transect	Feet IGLD +0.5/-0.5	Along Transect	Feet IGLD	Initials	Acceptance	
S-3A & B		(min. Thickness = 1.5 ft)	(INPUT BY SURVEYOR)	(INPUT BY SURVEYOR)			
10+05	W. Bank	574	24.62	573.0			
10+05	W. Toe	563.5	43.39 DESIGN / 37.38 ACT.	565.68			
10+05	Center	563.5	53.45	565.42	BHN		9/21/98
10+05	E. Toe	563.5	63.52 DESIGN / 72.52 ACT.	565.56			9:00 Am
10+05	E. Bank	574	82.28	572.43			
9-55	W. Bank	574	24.62	573.0			
9-55	W. Toe	567.5	35.38	565.1			
9-55	Center	565.5	51.00	564.4	BHN		9/21/98
9-55	E. Toe	567.5	66.62	565.1			9:00 Am
9-55	E. Bank	574	77.38	571.6			
9-05	W. Bank	574					
9-05	W. Toe	567.5					
9-05	Center	567.5					
9-05	E. Toe	567.5					
9-05	Sheet Pile Wall	573.5					
8-55	W. Bank	574					
8-55	W. Toe	567.5					
8-55	Center	566.5					
8-55	E. Toe	566.5					
8-55	Sheet Pile Wall	573.5					
8-05	W. Bank	574					
8-05	W. Toe	565.5					
8-05	Center	565.5					
8-05	E. Toe	565.5					
8-05	Sheet Pile Wall	573.5					
7-55	W. Bank	574					
7-55	W. Toe	563.5					
7-55	Center	563.5					
7-55	E. Toe	563.5					
7-55	Sheet Pile Wall	573.5					
7-05	W. Bank	574					
7-05	W. Toe	563.5					
7-05	Center	563.5					
7-05	E. Toe	563.5					
7-05	Sheet Pile Wall	573.5					
6-55	W. Bank	574					
6-55	W. Toe	563.5					
6-55	Center	563.5					
6-55	E. Toe	563.5					
6-55	Sheet Pile Wall	573.5					
6-05	W. Bank	574					
6-05	W. Toe	563.5					
6-05	Center	563.5					
6-05	E. Toe	563.5					
6-05	E. Bank	574					
5-55	W. Bank	574					
5-55	W. Toe	563.5					
5-55	Mid 1	563.5					
5-55	Center	563.5					
5-55	Mid 2	563.5					
5-55	E. Toe	563.5					
5-55	E. Bank	574					
5-05	W. Bank	574					
5-05	W. Toe	563.5					
5-05	Center	563.5					
5-05	E. Toe	563.5					
5-05	E. Bank	574					

Station Ref Dwg. S-3A & B	Control Point Along Transect	Acceptable Elevation Feet IGLD +0.5/-0.5 (min Thickness = 1.5 ft)	Actual Distance from Baseline Along Transect (INPUT BY SURVEYOR)	Actual Elevation Feet IGLD (INPUT BY SURVEYOR)	Surveyor Initials	RETEC Acceptance	Date/Time
15-85	W Bank	574					
15-85	W Toe	565.5					
15-85	Center	565.5					
15-85	E Toe	565.5					
15-85	E Bank	574					
15-60	W Bank	574					
15-60	W Toe	565.5					
15-60	Center	565.5					
15-60	E Toe	565.5					
15-60	E Bank	574					
14-75	W Bank	574					
14-75	W Toe	567.5					
14-75	Center	567.5					
14-75	E Toe	567.5					
14-75	E Bank	574					
14-20	W Bank	574					
14-20	W Toe	563.5					
14-20	Center	562.5					
14-20	E Toe	563.5					
14-20	E Bank	574					
13-60	W Bank	574					
13-60	W Toe	565.5					
13-60	Center	565.5					
13-60	E Toe	565.5					
13-60	E Bank	574					
13-10	W Bank	574 572.88	22.02	572.88 STAKED			
13-10	W Toe	565.5	36.78	565.82	BWJ		9/22/98
13-10	Center	565.5	49.94	565.67			1:30 PM
13-10	E Toe	565.5	63.10	565.68			1415
13-10	E Bank	574 572.88	77.86	572.88 STAKED			
12-60	W Bank	574 572.88	18.42	572.88 STAKED			
12-60	W Toe	565.5	33.18	565.57	BWJ		9/16/98
12-60	Center	564.5	48.4	564.76			10:00 AM
12-60	E Toe	565.5	63.62	565.69			1010
12-60	E Bank	574 572.88	78.38	572.88 STAKED			
12-10	W Bank	574 572.88	22.02	572.88 STAKED			
12-10	W Toe	565.5	36.78	565.72	BWJ		9/14/98
12-10	Center	565.5	50.41	565.80			10:00 AM
12-10	E Toe	565.5	76.04	565.65			1015
12-10	E Bank	574 572.88	90.80	572.88 STAKED			
11-60	W Bank	574 572.88	20.88	572.88 STAKED			
11-60	W Toe	565.5	35.48	565.80			
11-60	Center	565.5	53.09	565.52			
11-60	E Toe	565.5	70.88	565.47			
11-60	E Bank	574 572.88	85.85	572.88 STAKED			
11-10	W Bank	574 572.88	15.44	572.88 STAKED			
11-10	W Toe	565.5	30.75	565.18	BWJ		9/10/98
11-10	Center	565.5	45.00	565.12			8:30 am
11-10	E Toe	565.5	58.75	565.21			
11-10	E Bank	574 572.88	74.56	572.88 STAKED			
10-95	W Bank	574					
10-95	W Toe	563.5					
10-95	Center	563.5					
10-95	E Toe	563.5					
10-95	E Bank	574					

INTERMEDIATE STATIONS ON BACK

INTERMEDIATE STA.

SAND CAPPING

STATION	CONTROL PT.	ACCP. ELEV.	ACT. ELEV.	SURVEYOR'S INITIALS	RETOR ACCEPTANCE	DATE / TIME
11+05±	W. BANK	572.88	STAKED	BHN		9/10/98 8:35
	W. TOE	564.5	564.76			
	CENTER	564.5	564.7			
	E. TOE	564.5	564.69			
	E. BANK	572.88	STAKED			
11+35	W. BANK	572.88	STAKED	BHN		9/10/98 1:30
	W. TOE	565.5	565.62			
	CENTER	565.5	565.61			
	E. TOE	565.5	565.44			
	E. BANK	572.88	STAKED			
11+80	W. BANK	572.88	STAKED	BHN		9/12/98 9:30
	W. TOE	565.5	565.58			
	CENTER	565.5	565.53			
	E. TOE	565.5	565.48			
	E. BANK	572.88	STAKED			
12+30	W. BANK	572.88	STAKED	BHN		9/14/98 3:30 1600
	W. TOE	565.5	565.68			
	CENTER	565.1	565.28			
	E. TOE	565.5	565.63			
	E. BANK	572.88	STAKED			
12+50	W. BANK	572.88	STAKED	BHN		9/15/98 2:30 1:55
	W. TOE	565.5	565.80			
	CENTER	564.7	564.81			
	E. TOE	565.5	565.77			
	E. BANK	572.88	✓ STAKED			



Station	Description	Elevation	Notes
10+05	Center	572.88	
10+05	E Toe	563.5	
10+05	E Bank	563.5	
9+55	W Bank	574	
9+55	W Toe	567.5	
9+55	Center	565.5	
9+55	E Toe	567.5	
9+55	E Bank	573.5	
9+05	W Bank	574	
9+05	W Toe	567.5	
9+05	Center	565.5	
9+05	E Toe	567.5	
9+05	E Bank	573.5	
7+05	Sheet Pile Wall	573.5	
8+55	W Bank	574	
8+55	W Toe	567.5	
8+55	Center	565.5	
8+55	E Toe	567.5	
8+55	Sheet Pile Wall	573.5	
8+05	W Bank	574	
8+05	W Toe	567.5	
8+05	Center	565.5	
8+05	E Toe	567.5	
8+05	Sheet Pile Wall	573.5	
7+55	W Bank	574	
7+55	W Toe	567.5	
7+55	Center	565.5	
7+55	E Toe	567.5	
7+55	Sheet Pile Wall	573.5	
7+05	W Bank	574	
7+05	W Toe	567.5	
7+05	Center	565.5	
7+05	E Toe	567.5	
7+05	Sheet Pile Wall	573.5	
6+55	W Bank	574	
6+55	W Toe	567.5	
6+55	Center	565.5	
6+55	E Toe	567.5	
6+55	Sheet Pile Wall	573.5	
6+05	W Bank	574	
6+05	W Toe	567.5	
6+05	Center	565.5	
6+05	E Toe	567.5	
6+05	E Bank	574	
5+55	W Bank	574	
5+55	W Toe	567.5	
5+55	Mid 1	563.5	
5+55	Center	563.5	
5+55	Mid 2	563.5	
5+55	E Toe	563.5	
5+55	E Bank	574	
5+05	W Bank	574	
5+05	W Toe	567.5	
5+05	Center	563.5	
5+05	E Toe	563.5	
5+05	E Bank	574	

Thickness = 15 ft
 Long Transect
 INPUT BY SURVEYOR
 24.62
 43.34
 53.13
 63.52
 82.28
 33.38
 35.38
 51.00
 61.62
 72.38
 AREA Elevation
 573.0
 565.65
 563.42
 565.56
 572.93
 573.0
 565.1
 564.4
 565.1
 571.6
 BHN
 BHN
 9/21/98
 9/21/98
 9/21/98
 9:00 AM
 9:00 AM
 9:00 AM

Station Ref Dwg. S-3A & B	Control Point Along Transect	Acceptable Elevation Feet IGLD +0.5 / -0.5 (min Thickness = 1.5 ft)	Actual Distance from Baseline Along Transect (INPUT BY SURVEYOR)	Actual Elevation Feet IGLD (INPUT BY SURVEYOR)	Surveyor Initials	RETEC Acceptance	Date/Time
15-85	W Bank	574					
15-85	W Toe	565.5					
15-85	Center	565.5					
15-85	E Toe	565.5					
15-85	E Bank	574					
15-60	W Bank	574					
15-60	W Toe	565.5					
15-60	Center	565.5					
15-60	E Toe	565.5					
15-60	E Bank	574					
14-75	W Bank	574					
14-75	W Toe	567.5					
14-75	Center	567.5					
14-75	E Toe	567.5					
14-75	E Bank	574					
14-20	W Bank	574					
14-20	W Toe	563.5					
14-20	Center	562.5					
14-20	E Toe	563.5					
14-20	E Bank	574					
13-60	W Bank	574					
13-60	W Toe	565.5					
13-60	Center	565.5					
13-60	E Toe	565.5					
13-60	E Bank	574					
13-10	W Bank	574					
13-10	W Toe	565.5					
13-10	Center	565.5					
13-10	E Toe	565.5					
13-10	E Bank	574					
12-60	W Bank	574					
12-60	W Toe	565.5					
12-60	Center	564.5					
12-60	E Toe	565.5					
12-60	E Bank	574					
12-10	W Bank	574					
12-10	W Toe	565.5					
12-10	Center	565.5					
12-10	E Toe	565.5					
12-10	E Bank	574					
11-60	W Bank	574 572.88	20.88	572.88			
11-60	W Toe	565.5	35.88	565.80			
11-60	Center	565.5	53.09	565.52			
11-60	E Toe	565.5	70.00	565.47			
11-60	E Bank	574 572.98	85.05	572.88			
11-10	W Bank	574 572.80	15.44	572.88			
11-10	W Toe	565.5	30.75	565.18			
11-10	Center	565.5	45.00	565.12			
11-10	E Toe	565.5	58.75	565.21			
11-10	E Bank	574 572.90	74.50	572.88			
10-95	W Bank	574					
10-95	W Toe	563.5					
10-95	Center	563.5					
10-95	E Toe	563.5					
10-95	E Bank	574					

[Handwritten signature]

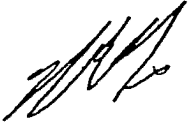
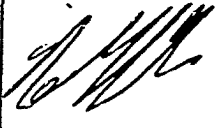

Blind *[Handwritten signature]*

9/10/98
8:30 AM

INTERMEDIATE STATION ON BACK

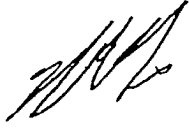
INTERMEDIATE STA.

SAND CAPPING

STATION	CONTROL PT.	ACCEP. ELEV.	ACT. ELEV.	SURVEYOR'S INITIALS	RETOR. ACCEPTANCE	DATE / TIME
11+05±	W. BANK	572.88	STAKED	BNN		9/10/9 8:35
	W. TOE	564.5	564.76			
	CENTER	564.5	564.7			
	E. TOE	564.5	564.69			
	E. BANK	572.88	STAKED			
11+35	W. BANK	572.88	STAKED	BNN		9/10/ 1:30
	W. TOE	565.5	565.62			
	CENTER	565.5	565.61			
	E. TOE	565.5	565.44			
	E. BANK	572.88	STAKED			
11+80	W. BANK	572.88	STAKED	BNN		9/12/ 9:30
	W. TOE	565.5	565.58			
	CENTER	565.5	565.53			
	E. TOE	565.5	565.48			
	E. BANK	572.88	STAKED			

INTERMEDIATE STA.

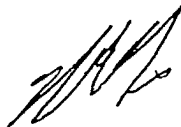
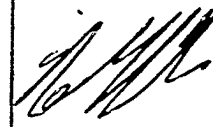



SAND CAPPING

STATION	CONTROL PT.	ACCEP. ELEV.	ACT. ELEV.	SURVEYOR'S INITIALS	RETOR ACCEPTANCE	DATE / TIME
11+05±	W. BANK	572.88	STAKED	BNN		9/10/19 8:55
	W. TOE	564.5	564.76			
	CENTER	564.5	564.7			
	E TOE	564.5	564.69			
	E. BANK	572.88	STAKED			

Station Ref Dwg. S-3A & B	Control Point Along Transect	Acceptable Elevation Feet IGLD +0.5/-0.5 (min. Thickness = 1.5 ft)	Actual Distance from Baseline Along Transect (INPUT BY SURVEYOR)	Actual Elevation Feet IGLD (INPUT BY SURVEYOR)	Surveyor Initials	RETEC Acceptance	Date/Time
15-85	W Bank	574					
15-85	W Toe	565.5					
15-85	Center	565.5					
15-85	E Toe	565.5					
15-85	E Bank	574					
15-60	W Bank	574					
15-60	W Toe	565.5					
15-60	Center	565.5					
15-60	E Toe	565.5					
15-60	E Bank	574					
14-75	W Bank	574					
14-75	W Toe	567.5					
14-75	Center	567.5					
14-75	E Toe	567.5					
14-75	E Bank	574					
14-20	W Bank	574					
14-20	W Toe	563.5					
14-20	Center	562.5					
14-20	E Toe	563.5					
14-20	E Bank	574					
13-60	W Bank	574					
13-60	W Toe	565.5					
13-60	Center	565.5					
13-60	E Toe	565.5					
13-60	E Bank	574					
13-10	W Bank	574					
13-10	W Toe	565.5					
13-10	Center	565.5					
13-10	E Toe	565.5					
13-10	E Bank	574					
12-60	W Bank	574	18.42	572.88 STAKED			9/16/98
12-60	W Toe	565.5	33.18	565.57	BWD		10:00 AM
12-60	Center	564.5	48.4	564.76			10/10
12-60	E Toe	565.5	63.62	565.69			
12-60	E Bank	574	78.38	572.88 STAKED			
12-10	W Bank	574	22.02	572.88 STAKED			9/14/98
12-10	W Toe	565.5	36.78	565.72	BWD		10:00 AM
12-10	Center	565.5	56.41	565.80			10:15
12-10	E Toe	565.5	76.04	565.65			
12-10	E Bank	574	90.80	572.88 STAKED			
11-60	W Bank	574	20.88	572.88 STAKED			
11-60	W Toe	565.5	35.98	565.80			
11-60	Center	565.5	53.09	565.52			
11-60	E Toe	565.5	70.88	565.47			
11-60	E Bank	574	86.45	572.88 STAKED			
11-10	W Bank	574	15.44	572.88 STAKED			9/10/98
11-10	W Toe	565.5	30.75	565.18	BWD		8:30 AM
11-10	Center	565.5	45.00	565.12			
11-10	E Toe	565.5	58.75	565.21			
11-10	E Bank	574	74.50	572.88 STAKED			
10-95	W Bank	574					
10-95	W Toe	563.5					
10-95	Center	563.5					
10-95	E Toe	563.5					
10-95	E Bank	574					

INTERMEDIATE STATIONS ON BACK

SAND CAPPING

STATION	CONTROL PT.	ACCP. ELEV.	ACT. ELEV.	SURVEYORS INITIALS	RETREE ACCEPTANCE	DATE / TIME
11+05±	W. BANK	572.88	STAKED	BNN		9/10/95 8:55
	W. TOE	564.5	564.76			
	CENTER	564.5	564.7			
	E. TOE	564.5	564.69			
	E. BANK	572.88	STAKED			
11+35	W. BANK	572.88	STAKED	BNN		9/10/95 1:30
	W. TOE	565.5	565.62			
	CENTER	565.5	565.61			
	E. TOE	565.5	565.44			
	E. BANK	572.88	STAKED			
11+80	W. BANK	572.88	STAKED	BNN		9/12/95 9:30
	W. TOE	565.5	565.58			
	CENTER	565.5	565.53			
	E. TOE	565.5	565.48			
	E. BANK	572.88	STAKED			
12+30	W. BANK	572.88	STAKED	BNN		9/14/95 3:30 16:00
	W. TOE	565.5	565.68			
	CENTER	565.1	565.28			
	E. TOE	565.5	565.63			
	E. BANK	572.88	STAKED			
12+50	W. BANK	572.88	STAKED	BNN		9/15/95 2:30 P 1:55
	W. TOE	565.5	565.80			
	CENTER	564.7	564.81			
	E. TOE	565.5	565.77			
	E. BANK	572.88	STAKED			

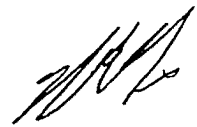
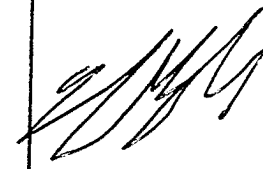
INTERMEDIATE STA.

SAND CAPPING



STATION	CONTROL PT.	ACCP. ELEV.	ACT. ELEV.	SURVEYORS INITIALS	RETEL ACCEPTANCE	DATE/TIME
12+85	W. BANK	572.88	STAKED	BHW	<i>[Signature]</i>	9/17/98 1:30 PM 6:30 PM 9/17/98
	W. TOE	565.5	565.76			
	CENTER	565.0	565.28			
	E. TOE	565.5	565.71			
	E. BANK	572.88	STAKED			

Station Ref Dwg	Control Point Along Transect	Acceptable Elevation Feet IGLD +0.5/-0.5 (min. Thickness = 1.5 ft)	Actual Distance from Baseline Along Transect (INPUT BY SURVEYOR)	Actual Elevation Feet IGLD (INPUT BY SURVEYOR)	Surveyor Initials	RETEC Acceptance	Date/Time
15-85	W Bank	574					
15-85	W Toe	565.5					
15-85	Center	565.5					
15-85	E Toe	565.5					
15-85	E Bank	574					
15-60	W Bank	574					
15-60	W Toe	565.5					
15-60	Center	565.5					
15-60	E Toe	565.5					
15-60	E Bank	574					
14-75	W Bank	574					
14-75	W Toe	567.5					
14-75	Center	567.5					
14-75	E Toe	567.5					
14-75	E Bank	574					
14-20	W Bank	574					
14-20	W Toe	563.5					
14-20	Center	562.5					
14-20	E Toe	563.5					
14-20	E Bank	574					
13-60	W Bank	574					
13-60	W Toe	565.5					
13-60	Center	565.5					
13-60	E Toe	565.5					
13-60	E Bank	574					
13-10	W Bank	574					
13-10	W Toe	565.5					
13-10	Center	565.5					
13-10	E Toe	565.5					
13-10	E Bank	574					
12-60	W Bank	574					
12-60	W Toe	565.5					
12-60	Center	564.5					
12-60	E Toe	565.5					
12-60	E Bank	574					
12-10	W Bank	574					
12-10	W Toe	565.5					
12-10	Center	565.5					
12-10	E Toe	565.5					
12-10	E Bank	574					
11-60	W Bank	574					
11-60	W Toe	565.5					
11-60	Center	565.5					
11-60	E Toe	565.5					
11-60	E Bank	574					
11-10	W Bank	574					
11-10	W Toe	565.5					
11-10	Center	565.5					
11-10	E Toe	565.5					
11-10	E Bank	574					
10-95	W Bank	574					
10-95	W Toe	563.5					
10-95	Center	563.5					
10-95	E Toe	563.5					
10-95	E Bank	574					

INTERMEDIATE STA.

STATION	CONTROL PT.	ACCP. ELEV.	ACT. ELEV.	SURVEYOR'S INITIALS	RETOR. ACCEPTANCE	DATE / TIME
+05 ±	W. BANK	572.88	STAKED	BNN		9/10/98 8:55 AM
	W. TOE	564.5	564.76			
	CENTER	564.5	564.7			
	E. TOE	564.5	564.69			
	E. BANK	572.88	STAKED			
+35	W. BANK	572.88	STAKED	BNN		9/10/98 1:30 PM
	W. TOE	565.5	565.62			
	CENTER	565.5	565.61			
	E. TOE	565.5	565.44			
	E. BANK	572.88	STAKED			

INTERMEDIATE STA.
SAND CAPPING

STATION	CONTROL PT.	ACCEP. ELEV.	ACT. ELEV.	SURVEYORS INITIALS	REFER ACCEPTANCE	DATE / TIME
14+35	W. BANK	572.82	572.88 STAKED	BHN		10/21
	W. TOE	564.59	565.96			
	CENTER	563.86	565.8			
	E. TOE	564.59	566.0			
	E. BANK	572.83	572.88 STAKED			
14+50	W. BANK	572.82	STAKED	BHN		10/31
	W. TOE	565.68	566.27			
	CENTER	565.23	565.85			
	E. TOE	565.68	566.53			
	E. BANK	572.83	STAKED			

Station Ref Dwg S-3A & B	Control Point Along Transect	Acceptable Elevation Feet KSLD +0.5/-0.5 (min Thickness = 1.5 ft)	Actual Distance from Baseline Along Transect (INPUT BY SURVEYOR)	Actual Elevation Feet IGLD (INPUT BY SURVEYOR)	Surveyor Initials	RETEC Acceptance	Date/Time
15-85	W Bank	574					
15-85	W Toe	565.5					
15-85	Center	565.5					
15-85	E Toe	565.5					
15-85	E Bank	574					
15-60	W Bank	574					
15-60	W Toe	565.5					
15-60	Center	565.5					
15-60	E Toe	565.5					
15-60	E Bank	574					
14-75	W Bank	574					
14-75	W Toe	567.5					
14-75	Center	567.5					
14-75	E Toe	567.5					
14-75	E Bank	574					
14-20	W Bank	574 572.83	39.85	565.9	BWD	OK'd	10/1/98
14-20	W Toe	563.5	48.45	565.3			
14-20	Center	562.5	53.45	565.75			11:30 AM
14-20	E Toe	563.5					1200
14-20	E Bank	574 572.83		STAKED			
13-60	W Bank	574 572.83	12.42	565.96	BWD	OK'd	9/22/98
13-60	W Toe	565.5	27.02	565.55			
13-60	Center	565.5	45.35	565.00			1:30 PM
13-60	E Toe	565.5	63.10				1400
13-60	E Bank	574 572.83	77.82	STAKED			
13-10	W Bank	574 572.83	22.02	572.88 STAKED			
13-10	W Toe	565.5	36.78	565.82	BWD	OK'd	9/22/98
13-10	Center	565.5	49.44	565.67			
13-10	E Toe	565.5	63.10	565.65			1:30 PM
13-10	E Bank	574 572.83	77.82	572.83 STAKED			1415
12-60	W Bank	574 572.88	18.42	572.88 STAKED			
12-60	W Toe	565.5	33.18	565.57	BWD	OK'd	9/16/98
12-60	Center	564.5	48.4	564.76			10:00 AM
12-60	E Toe	565.5	63.62	565.69			1010
12-60	E Bank	574 572.88	78.38	572.88 STAKED			
12-10	W Bank	574 572.88	22.02	572.88 STAKED			
12-10	W Toe	565.5	36.78	565.72	BWD	OK'd	9/14/98
12-10	Center	565.5	56.41	565.80			
12-10	E Toe	565.5	76.04	565.65			10:00 AM
12-10	E Bank	574 572.88	90.80	572.88 STAKED			1315
11-60	W Bank	574 572.88	20.92	572.88 STAKED			
11-60	W Toe	565.5	35.98	565.80			
11-60	Center	565.5	53.07	565.62			
11-60	E Toe	565.5	70.80	565.47			
11-60	E Bank	574 572.88	85.85	572.88 STAKED			
11-10	W Bank	574 572.88	15.44	572.88 STAKED	BWD	OK'd	9/10/98
11-10	W Toe	565.5	30.70	565.10			
11-10	Center	565.5	45.00	565.12			
11-10	E Toe	565.5	58.75	565.21			8:30 AM
11-10	E Bank	574 572.88	74.50	572.88 STAKED			
10-95	W Bank	574					
10-95	W Toe	563.5					
10-95	Center	563.5					
10-95	E Toe	563.5					
10-95	E Bank	574					

INTERMEDIATE STATIONS ON BACK

INTERMEDIATE STA.

SAND CAPPING

STATION	CONTROL PT.	ACCEP. ELEV.	ACT. ELEV.	SURVEYORS INITIALS	RETEL ACCEPTANCE	DATE / TIME		
14+35	W. BANK	572.22	572.12 STOOD	BUNE		10/2		
	W. TDE	564.59	565.96					
	CENTAL	563.86	565.8					
	E. TDE	564.59	566.0					1:4
	E. BANK	572.22	572.88 STOOD					

Scajaquada Creek Sediment Remediation

STONE CAPPING ACCEPTANCE SURVEY

Station Ref Dwg. S-3A & B	Control Point Along Transect	Acceptable Elevation Feet IGLD +0.5 / -0.5 (min. Thickness = 0.5 ft)	Actual Distance from Baseline Along Transect (INPUT BY SURVEYOR)	Actual Elevation Feet IGLD (INPUT BY SURVEYOR)	Surveyor Initials	RETEC Acceptance	Date/Time
4-55	W Bank	574	16.58	574.18 574.18	BHW	DWA 12/10/98 1600	12/10 12:00pm
4-55	W Toe	564	40.85	564.03			
4-55	Center	564	63.53	564.03			
4-55	E Toe	564	87.00	564.33			
4-55	E Bank	574	110.47	574.28			
4-01	W Bank	574	15.43	574.15	BHW	DWA 12/10/98 1600	12/10 12:00pm
4-01	W Toe	564	38.14	563.88			
4-01	Center	564	60.85	563.88			
4-01	E Toe	564	83.56	564.00			
4-01	E Bank	574	106.27	574.58			
3-55	W Bank	574	13.0	574.75	BHW	SW 12/19/98 1545	12/19 2:00pm
3-55	W Toe	564	32.0	562.92			
3-55	Center	562	59.50	562.62			
3-55	E Toe	562	82.0	562.7			
3-55	E Bank	574	106	574.19			
3-05	W Bank	574	17.5	574.25	BHW	SW 2/18/99 0945	2/16/99 12:00pm
3-05	W Toe	562	31.5	563.11			
3-05	Center	562	55.00	562.86			
3-05	E Toe	562	79.00	563.68			
3-05	E Bank	574	103	574.14			
2-55	W Bank	574	19.2	573.86	BHW	SW 2/25/99 1200	2/16/99 12:00pm
2-55	W Toe	562	33.2	563.23			
2-55	Center	562	56.00	563.40			
2-55	E Toe	562	69.0	563.64			
2-55	E Bank	574	93.0	574.62			
2-05	W Bank	574		574.02	BHW	SW 2/25/99 1200	2/16/99 12:00pm
2-05	W Toe	562		562.60			
2-05	Center	562		563.00			
2-05	E Toe	562		562.25			
2-05	E Bank	574		574.55			
1-55	W Bank	574		574.92	BHW	SW 2/25/99 1200	2/25/99 2:17pm 10:00am 10:00am
1-55	W Toe	562		564.04			
1-55	Center	562		564.12			
1-55	E Toe	562		564.02			
1-55	E Bank	574		573.77			
1-05	W Bank	574		575.21	BHW	SW 2/25/99 1200	2/24/99 1:00pm
1-05	W Toe	564		564.25			
1-05	Center	562					
1-05	E Toe	564		564.13			
1-05	E Bank	574		571.89			
0-55	W Bank	574		572.14	BHW	SW 2/25/99 1200	2/24/99 1:00pm
0-55	W Toe	564		568.09			
0-55	Center	564		567.11			
0-55	E Toe	564		567.21			
0-55	E Bank	574		575.57			
75 degrees:							
0-30	W Bank	574	570	570.04	BHW	SW 2/25/99 1200	2/24/99 1:00pm
0-30	W Toe	564		565.03			
0-30	Center	564		566.87			
0-30	E Toe	564		566.37			
0-30	E Bank	574		573.97			

FORM PREPARED 7:22

Scajaquada Creek Sediment Remediation

STONE CAPPING ACCEPTANCE SURVEY

Station	Control Point	Acceptable Elevation	Actual Distance from Baseline	Actual Elevation	Surveyor	RETEC	Date/Time
Ref Dwg.	Along Transect	Feet IGLD +0.5 / -0.5	Along Transect	Feet IGLD	Initials	Acceptance	
S-3A & B		(min. Thickness = 0.5 ft)	(INPUT BY SURVEYOR)	(INPUT BY SURVEYOR)			
4+55	W Bank	574	16.58	574.18 574.18			
4+55	W Toe	564	40.05	564.03			12/10
4+55	Center	564	63.53	564.03	BWJ	RMA 12/10/98	12:00pm
4+55	E Toe	564	87.00	564.33		1600	
4+55	E Bank	574	110.47	574.28			
4+01	W Bank	574	15.43	574.15			
4+01	W Toe	564	38.14	563.58	BWJ	RMA 12/10/98	12/10
4+01	Center	564	60.85	563.58			12:00pm
4+01	E Toe	564	83.56	564.00		1600	
4+01	E Bank	574	106.27	574.58			
3+55	W Bank	574	13.0	574.75			
3+55	W Toe	564	32.0	562.92	BWJ	SW 12/19/98	12/19
3+55	Center	562	59.50	562.62		1545	2:00 pm
3+55	E Toe	562	82.0	562.7			
3+55	E Bank	574	106	574.19			
3+05	W Bank	574	17.5	574.25			
3+05	W Toe	562	31.5	563.11	BWJ	SW 2/18/99	2/16/99
3+05	Center	562	55.00	562.86		0945	12:00 pm
3+05	E Toe	562	79.00	563.68			
3+05	E Bank	574	103	574.14			
2+55	W Bank	574	19.2	573.86			
2+55	W Toe	562	33.2	563.23	BWJ		2/16/99
2+55	Center	562	56.00	563.40			12:00 pm
2+55	E Toe	562	69.0	563.69			
2+55	E Bank	574	93.0	573.69			
2+05	W Bank	574					
2+05	W Toe	562					
2+05	Center	562					
2+05	E Toe	562					
2+05	E Bank	574					
1+55	W Bank	574					
1+55	W Toe	562					
1+55	Center	562					
1+55	E Toe	562					
1+55	E Bank	574					
1+05	W Bank	574					
1+05	W Toe	564					
1+05	Center	562					
1+05	E Toe	564					
1+05	E Bank	574					
0+55	W Bank	574					
0+55	W Toe	564					
0+55	Center	564					
0+55	E Toe	564					
0+55	E Bank	574					
75 degrees							
0+01	W Bank	574					
0+01	W Toe	564					
0+01	Center	564					
0+01	E Toe	564					
0+01	E Bank	574					

FORM PREPARED 7:22

INTERMEDIATE STATIONS

STONE

STATION	CONTROL PT.	OCUP. ELEV.	ACT. ELEV.	SURVEYORS INITIALS	RTCC. ACCEPTANCE	DATE / TIME
3+80	W. TOP	574	574.68	BWN	SW 12/19/98 1545	12/19 2:00 PM
3+80	W. TOE	563	562.68			
3+80	CENTER	563	562.83			
3+80	E. TOE	563	562.97			
3+80	E. TOP	574	573.45			
3+30	W. TOP	574	575.10	BWN	SW 12/19/98 1545	12/19 2:00 PM
3+30	W. TOE	562	562.79			
3+30	CENTER	562	562.67			
3+30	E. TOE	562	562.93			
3+30	E. TOP	574	574.78			
2+80	W. TOP	574	573.58	BWN		12/19/99 12:00 PM
2+80	W. TOE	562	564.0			
2+80	CENTER	562	563.59			
2+80	E. TOE	562	563.05			
2+80	E. TOP	574	5			
2+5						

Scajaguada Creek Sediment Remediation			STONE CAPPING ACCEPTANCE SURVEY			PAGE 3 of 3	
Station	Control Point	Acceptable Elevation	Actual Distance from Baseline	Actual Elevation	Surveyor	RETEC	Date/Time
Ref Dwg.	Along Transect	Feet IGLD +0.5 / -0.5 (min. Thickness = 0.5 ft)	Along Transect	Feet IGLD	Initials	Acceptance	
S-3A & B			(INPUT BY SURVEYOR)	(INPUT BY SURVEYOR)			
4+55	W Bank	574	16.58	574.18 574.18			
4+55	W Toe	564	40.05	564.03			12/10
4+55	Center	564	63.53	564.03	BUN	12/10/98	12:00pm
4+55	E Toe	564	87.00	564.33		1600	
4+55	E Bank	574	110.47	574.28			
4+01	W Bank	574	15.43	574.15			
4+01	W Toe	564	38.14	563.98	BUN	12/10/98	12/10
4+01	Center	564	60.85	563.58			12:00pm
4+01	E Toe	564	83.56	574.60		1600	
4+01	E Bank	574	106.27	574.58			
3+55	W Bank	574	13.0	574.75			12/19
3+55	W Toe	564	37.0	562.92	BUN	12/19/98	2:00pm
3+55	Center	562	59.50	562.62		1545	
3+55	E Toe	562	82.0	562.7			
3+55	E Bank	574	106	574.19			
3+05	W Bank	574					
3+05	W Toe	562					
3+05	Center	562					
3+05	E Toe	562					
3+05	E Bank	574					
2+55	W Bank	574					
2+55	W Toe	562					
2+55	Center	562					
2+55	E Toe	562					
2+55	E Bank	574					
2+05	W Bank	574					
2+05	W Toe	562					
2+05	Center	562					
2+05	E Toe	562					
2+05	E Bank	574					
1+55	W Bank	574					
1+55	W Toe	562					
1+55	Center	562					
1+55	E Toe	562					
1+55	E Bank	574					
1+05	W Bank	574					
1+05	W Toe	564					
1+05	Center	562					
1+05	E Toe	564					
1+05	E Bank	574					
0+55	W Bank	574					
0+55	W Toe	564					
0+55	Center	564					
0+55	E Toe	564					
0+55	E Bank	574					
75 degrees							
0+01	W Bank	574					
0+01	W Toe	564					
0+01	Center	564					
0+01	E Toe	564					
0+01	E Bank	574					

FORM PREPARED 7/22

INTERMEDIATE STATIONS

STONE

STATION	CONTROL PT.	OCUP. ELEV.	ACT. ELEV.	SURVEYORS INITIALS	POSTER. ACCEPTANCE	DATE TIME
3+80	W.TOP	574	574.68	BWW	SW 12/19/98 1545	12/19 2:00 P.
3+80	W.TO E	563	562.68			
3+80	CENTER	563	562.83			
3+80	E TO E	563	562.97			
3+80	E.TOP	574	573.45			
3+30	W.TOP	574	575.10	BWW	SW 12/19/98 1545	12/19 2:00 P.
3+30	W.TO E	562	562.79			
3+30	CENTER	562	562.67			
3+30	E.TO E	562	562.93			
3+30	E.TOP	574	574.78			

Scajaguada Creek Sediment Remediation

STONE CAPPING ACCEPTANCE SURVEY

Station	Control Point	Acceptable Elevation	Actual Distance from Baseline	Actual Elevation	Surveyor	RETEC	Date/Time
Ref Dwg.	Along Transect	Feet (GLD +0.5/-0.5)	Along Transect	Feet (GLD)	Initials	Acceptance	
S-3A & B		(min Thickness = 0.5 ft)	(INPUT BY SURVEYOR)	(INPUT BY SURVEYOR)			
4-55	W Bank	574	16.58	574.18			
4-55	W Toe	564	10.65	564.03			
4-55	Center	564	63.53	564.03			
4-55	E Toe	564	87.00	564.33	BWJ	DMJ 12/10/98 1600	12:00pm
4-55	E Bank	574	110.47	574.28			
4-01	W Bank	574	15.43	574.15			
4-01	W Toe	564	38.14	563.58	BWJ	DMJ 12/10/98 1600	12:00pm
4-01	Center	564	60.80	563.58			
4-01	E Toe	564	83.56	564.00			
4-01	E Bank	574	106.27	574.58			
3-55	W Bank	574					
3-55	W Toe	564					
3-55	Center	562					
3-55	E Toe	562					
3-55	E Bank	574					
3-05	W Bank	574					
3-05	W Toe	562					
3-05	Center	562					
3-05	E Toe	562					
3-05	E Bank	574					
2-55	W Bank	574					
2-55	W Toe	562					
2-55	Center	562					
2-55	E Toe	562					
2-55	E Bank	574					
2-05	W Bank	574					
2-05	W Toe	562					
2-05	Center	562					
2-05	E Toe	562					
2-05	E Bank	574					
1-55	W Bank	574					
1-55	W Toe	562					
1-55	Center	562					
1-55	E Toe	562					
1-55	E Bank	574					
1-05	W Bank	574					
1-05	W Toe	564					
1-05	Center	562					
1-05	E Toe	564					
1-05	E Bank	574					
0-55	W Bank	574					
0-55	W Toe	564					
0-55	Center	564					
0-55	E Toe	564					
0-55	E Bank	574					
75 degrees							
0-01	W Bank	574					
0-01	W Toe	564					
0-01	Center	564					
0-01	E Toe	564					
0-01	E Bank	574					

STONE

INTERMEDIATE STA.

STATION	CONTROL PT.	ACCP. ELEV.	ACT. ELEV.	SURVEYORS INITIALS	ROSTER ACCUR-	DATE / TIME
5+80	W. TOP 574	574	STAKED (574.5)			11/23
5+80	W. TOE	564	563.86	BUN	<i>DMF</i> 11/23 10 ⁰⁰	9:00 AM
5+80	CENTER	564	563.35			
5+80	E. TOE	564	564.8			
5+80	E. TOP	574	STAKED (576.5) (e. corner)			
5+30	W. TOP	574	574.12			
5+30	W. TOE	564	564.63	BUN	<i>DMF</i> 12/3 15 ⁰⁰	12/3 2:00 PM
5+30	CENTER	564	564.05			
5+30	E. TOE	564	564.81			
5+30	E. TOP	574	573.8			
4+80	W. TOP	574	573.91			
4+80	W. TOE	564	564.88	BUN	<i>DMF</i> 12/3 15 ⁰⁰	12/3 2:00 PM
4+80	CENTER	564	563.88			
4+80	E. TOE	564	564.5			
4+80	E. TOP	574	573.85			
4+30	W. TOP	574	573.90			
4+30	W. TOE	564	563.90	BUN	<i>DMF</i> 12/10/98 16 ⁰⁰	12/10 12:00 PM
4+30	CENTER	564	563.48			
4+30	E. TOE	564	564.43			
4+30	E. TOP	574	574.23			

STONE

INTERMEDIATE STA.

STATION	CONTROL PT.	ACCP. ELEV.	ACT. ELEV.	SURVEYORS INITIALS	RSTEC ACCUP-	DATE / TIME
5+80	W. TOP 574	574	STAKED (574.5)			11/23
5+80	W. TOE	564	563.86	BWD	<i>[Signature]</i> 11/23 10:00	9:00 AM
5+80	CENTER	564	563.95			
5+80	E. TOE	564	564.8			
5+80	E. TOP	574	STAKED (576.5) (e corner)			
5+30	W. TOP	574	574.12			
5+30	W. TOE	564	564.63	BWD	<i>[Signature]</i> 12/3 15:00	12/3 2:00 PM
5+30	CENTER	564	564.05			
5+30	E. TOE	564	564.81			
5+30	E. TOP	574	573.8			
4+80	W. TOP	574	573.91			
4+80	W. TOE	564	564.88	BWD	<i>[Signature]</i> 12/3 15:00	12/3 2:00 PM
4+80	CENTER	564	563.88			
4+80	E. TOE	564	564.5			
4+80	E. TOP	574	573.85			

Scajaquada Creek Sediment Remediation

STONE CAPPING ACCEPTANCE SURVEY

Station	Control Point	Acceptable Elevation	Actual Distance from Baseline	Actual Elevation	Surveyor	RETEC
Ref Dwg.	Along Transect	Feet IGLD +0.5/-0.5	Along Transect	Feet IGLD	Initials	Acceptance
S-3A & B		(min. Thickness = 0.5 ft)	(INPUT BY SURVEYOR)	(INPUT BY SURVEYOR)		
10-05	W Bank	574				
10-05	W Toe	564				
10-05	Center	564				
10-05	E Toe	564				
10-05	E Bank	574				
9-55	W Bank	574				
9-55	W Toe	568				
9-55	Center	566				
9-55	E Toe	568				
9-55	E Bank	574				
9-05	W Bank	574				
9-05	W Toe	568				
9-05	Center	568				
9-05	E Toe	568				
9-05	Sheet Pile Wall	574				
8-55	W Bank	574				
8-55	W Toe	568				
8-55	Center	567				
8-55	E Toe	567				
8-55	Sheet Pile Wall	574				
8-05	W Bank	574				
8-05	W Toe	566				
8-05	Center	566				
8-05	E Toe	566				
8-05	Sheet Pile Wall	574				
7-55	W Bank	574				
7-55	W Toe	564				
7-55	Center	564				
7-55	E Toe	564				
7-55	Sheet Pile Wall	574				
7-05	W Bank	574				
7-05	W Toe	564				
7-05	Center	564				
7-05	E Toe	564				
7-05	Sheet Pile Wall	574				
6-55	W Bank	574				
6-55	W Toe	564				
6-55	Center	564				
6-55	E Toe	564				
6-55	Sheet Pile Wall	574				
6-05	W Bank	574				
6-05	W Toe	564				
6-05	Center	564				
6-05	E Toe	564				
6-05	E Bank	574				
5-55	W Bank	574	22.84	574.17	BUN	11/24
5-55	W Toe	564	42.84	564.40	<i>[Signature]</i>	4:15 PM
5-55	Mid 1	564	61.81	563.90	1630	
5-55	Center	564	80.78	563.90		
5-55	Mid 2	564	99.75	564.18		
5-55	E Toe	564	118.72	564.50		
5-55	E Bank	574	138.72	574.42		
5-05	W Bank	574	19.46	574.08	BUN	12/3
5-05	W Toe	564	37.40	564.45	<i>[Signature]</i>	2:00 PM
5-05	Center	564	67.18	563.88	12/3	
5-05	E Toe	564	90.89	564.50	1500	
5-05	E Bank	574	116.89	573.78		

Station	Control Point	Acceptable Elevation	Actual Distance from Baseline	Actual Elevation	Surveyor	RETEC	Date/Time
Ref Dwg.	Along Transect	Feet IGLD $\pm 0.5' - 0.5'$	Along Transect	Feet IGLD	initials	Acceptance	
S-3A & B		(min Thickness = 0.5 ft)	(INPUT BY SURVEYOR)	(INPUT BY SURVEYOR)			
10-05	W Bank	574					
10-05	W Toe	564					
10-05	Center	564					
10-05	E Toe	564					
10-05	E Bank	574					
9-55	W Bank	574					
9-55	W Toe	563					
9-55	Center	563					
9-55	E Toe	563					
9-55	E Bank	574					
9-05	W Bank	574					
9-05	W Toe	568					
9-05	Center	568					
9-05	E Toe	568					
9-05	Sheet Pile Wall	574					
8-55	W Bank	574					
8-55	W Toe	568					
8-55	Center	567					
8-55	E Toe	567					
8-55	Sheet Pile Wall	574					
8-05	W Bank	574					
8-05	W Toe	566					
8-05	Center	566					
8-05	E Toe	566					
8-05	Sheet Pile Wall	574					
7-55	W Bank	574					
7-55	W Toe	564					
7-55	Center	564					
7-55	E Toe	564					
7-55	Sheet Pile Wall	574					
7-05	W Bank	574					
7-05	W Toe	564					
7-05	Center	564					
7-05	E Toe	564					
7-05	Sheet Pile Wall	574					
6-55	W Bank	574					
6-55	W Toe	564					
6-55	Center	564					
6-55	E Toe	564					
6-55	Sheet Pile Wall	574					
6-05	W Bank	574					
6-05	W Toe	564					
6-05	Center	564					
6-05	E Toe	564					
6-05	E Bank	574					
5-55	W Bank	574	22.84	574.17			
5-55	W Toe	564	42.84	564.43			
5-55	Mid 1	564	61.81	563.60			
5-55	Center	564	80.78	563.90			
5-55	Mid 2	564	99.75	564.18			
5-55	E Toe	564	118.72	564.60			
5-55	E Bank	574	138.72	574.42			
5-05	W Bank	574					
5-05	W Toe	564					
5-05	Center	564					
5-05	E Toe	564					
5-05	E Bank	574					

BNN *[Signature]* 11/24
1630 4:55 PM

STONE

INTERMEDIATE STA.

STATION	CONTROL PT.	ACC'D. ELEV.	ACT. ELEV.	SURVEYORS INITIALS	ROTEC ACC'D.	DATE / TIME
5+80	W. TOP 574	574	STAKED (574.5)			11/23
5+80	W. TOE	564	563.86	Bisni	<i>[Signature]</i>	9:00 AM
5+80	CENTER	564	563.35		11/23	
5+80	E. TOE	564	564.8		10 ⁰⁰	
5+80	E. TOP	574	STAKED (576.5) (E. CURVE)			

INTERMEDIATE
STATIONS

STONE CAPPING

STATION	CONTROL PT.	ACCP ELEV.	ACT. ELEV.	SURVEYORS INITIALS	RSTCL ACCEPTANCE	DATE/ TIME
9+30	W. TOP	574	573.95	BHN	<i>[Signature]</i>	9/23 11:00 A. 1800 9/24
	W. TOE	566	565.57			
	CENTER	565	564.97			
	E. TOE	566	565.61			
	E. TOP	574	574.16			

Scajaquada Creek Sediment Remediation

STONE CAPPING ACCEPTANCE SURVEY



Station	Control Point	Acceptable Elevation	Actual Distance from Baseline	Actual Elevation	Surveyor	RETEC	Date/Time
Ref Dwg.	Along Transect	Feet IGLD +0.5/-0.5	Along Transect	Feet IGLD	Initials	Acceptance	
S-3A & B		(min. Thickness = 0.5 ft)	(INPUT BY SURVEYOR)	(INPUT BY SURVEYOR)			
10-05	W Bank	574	23.5	574.34			
10-05	W Toe	564	43.2	564.41			
10-05	Center	564	53.45	564.92	BAN		9/23 9/24
10-05	E Toe	564	63.4	566.44			11:00 1800
10-05	E Bank	574	83.4	574.06			
9-55	W Bank	574					
9-55	W Toe	568					
9-55	Center	568					
9-55	E Toe	568					
9-55	E Bank	574					
9-05	W Bank	574					
9-05	W Toe	568					
9-05	Center	568					
9-05	E Toe	568					
9-05	Sheet Pile Wall	574					
8-55	W Bank	574					
8-55	W Toe	568					
8-55	Center	567					
8-55	E Toe	567					
8-55	Sheet Pile Wall	574					
8-05	W Bank	574					
8-05	W Toe	566					
8-05	Center	566					
8-05	E Toe	566					
8-05	Sheet Pile Wall	574					
7-55	W Bank	574					
7-55	W Toe	564					
7-55	Center	564					
7-55	E Toe	564					
7-55	Sheet Pile Wall	574					
7-05	W Bank	574					
7-05	W Toe	564					
7-05	Center	564					
7-05	E Toe	564					
7-05	Sheet Pile Wall	574					
6-55	W Bank	574					
6-55	W Toe	564					
6-55	Center	564					
6-55	E Toe	564					
6-55	Sheet Pile Wall	574					
6-05	W Bank	574					
6-05	W Toe	564					
6-05	Center	564					
6-05	E Toe	564					
6-05	E Bank	574					
5-55	W Bank	574					
5-55	W Toe	564					
5-55	Mid 1	564					
5-55	Center	564					
5-55	Mid 2	564					
5-55	E Toe	564					
5-55	E Bank	574					
5-05	W Bank	574					
5-05	W Toe	564					
5-05	Center	564					
5-05	E Toe	564					
5-05	E Bank	574					

STONE
INTERMEDIATE STATIONS

STATION	CONTROL PT.	ACCEP. ELEV.	ACT. ELEV.	SURVEYORS INITIALS	RETIC. ACCEPTANCE	DATE TIME
11+85	W. TOP	574	574.4	BWN	<i>DMH</i> 9/21/98 1600	9/18/98 3:00 P
	W. TOE	566	566.24			
	CENTER	566	566.08			
	E. TOE	566	566.21			
	E. TOP	574	574.10			
12+35	W. TOP	574	573.10	BWN	<i>DMH</i>	9/18/98 3:00 P
	W. TOE	566	566.21			
	CENTER	565.5	565.84			
	E. TOE	566	566.38			
	E. TOP	574	573.93			
12+85	W. TOP	574	573.75	BWN	<i>DMH</i>	9/22/98 1:30 P 1415
	W. TOE	566	566.27			
	CENTER	565.5	566.10			
	E. TOE	566	566.07			
	E. TOP	574	574.21			
13+35	W. TOP	574	574.88	BWN	<i>DMH</i>	9/28/98 11:30 9/29/98 0700
	W. TOE	566	566.34			
	CENTER	566	565.70			
	E. TOE	566	566.27			
	E. TOP	574	574.12			
12+90	W. TOP	574	574.86	BWN	<i>DMH</i>	10/1/98 9:30 AM 1600
	W. TOE	565 /	566.05			
	CENTER	564.5 /	565.80			
	E. TOE	565 /	566.15			
	E. TOP	574	574.60			

Station Ref Dwg. S-3A & B	Control Point Along Transect	Acceptable Elevation Feet IGLD +0.5 / -0.5 (min. Thickness = 0.5 ft)	Actual Distance from Baseline Along Transect (INPUT BY SURVEYOR)	Actual Elevation Feet IGLD (INPUT BY SURVEYOR)	Surveyor Initials	RETEC Acceptance	Date/Time
15-85	W Bank	574					
15-85	W Toe	566					
15-85	Center	566					
15-85	E Toe	566					
15-85	E Bank	574					
15-60	W Bank	574					
15-60	W Toe	566					
15-60	Center	566					
15-60	E Toe	566					
15-60	E Bank	574					
14-75	W Bank	574					
14-75	W Toe	568					
14-75	Center	568					
14-75	E Toe	568					
14-75	E Bank	574					
14-20	W Bank	574					
14-20	W Toe	564					
14-20	Center	563					
14-20	E Toe	564					
14-20	E Bank	574					
13-60	W Bank	574					
13-60	W Toe	566		574.74			10/1/98
13-60	Center	566		566.45	BWJ		9:30 am
13-60	E Toe	566		566.18			10:00
13-60	E Bank	574		566.31			
13-60	E Bank	574		574.48			
13-10	W Bank	574					
13-10	W Toe	566	574.53				
13-10	Center	566	566.25				9/28/98
13-10	E Toe	566	566.06		BWJ		11:30 PM
13-10	E Bank	574	566.50				9/29/98
13-10	E Bank	574	574.20				0700
12-60	W Bank	574					
12-60	W Toe	566		574.15	9/22 BWJ		
12-60	Center	566		573.20			
12-60	E Toe	566		566.41	BWJ		9/18/98
12-60	E Bank	574		565.40			3:00 PM
12-60	E Bank	574		566.25			(BOT, ONLY)
12-60	E Bank	574		573.14	574.27 9/22 BWJ		
12-10	W Bank	574					
12-10	W Toe	566		574.48			
12-10	Center	566		566.47	BWJ		9/18/98
12-10	E Toe	566		566.35			3:00 PM
12-10	E Bank	574		566.27			
12-10	E Bank	574		574.10			
11-60	W Bank	574					
11-60	W Toe	566		575.12			
11-60	Center	566		566.52	BWJ		9/18/98
11-60	E Toe	566		566.04			3:00 PM
11-60	E Bank	574		566.20			
11-60	E Bank	574		573.94			
11-10	W Bank	574					
11-10	W Toe	566					
11-10	Center	566					
11-10	E Toe	566					
11-10	E Bank	574					
10-95	W Bank	574					
10-95	W Toe	564					
10-95	Center	564					
10-95	E Toe	564					
10-95	E Bank	574					

STONE
INTERMEDIATE STA.



STATION	CONTROL PT.	ACCEP. @LEV.	ACT. @LEV.	SURVEYORS INITIALS	REFER ACCEPTANCE	DATE/ TIME
11+05.1	W. BANK	574.0	574 ±	BUN		9/10/98 4:30 P.
	W. TOE	565.0	565.2			
	CENTER	565.0	565.2			
	E. TOE	565.0	565.2			
	E. BANK	574.0	574 ±			
11+35	W. BANK	574.0	574. ±	BUN		9/10/98 5:45
	W. TOE	566.0	566.1			
	CENTER	566.0	566.1			
	E. TOE	566.0	565.9			
	E. BANK	574.0	574 ±			

Station Ref Dwg. S-3A & B	Control Point Along Transect	Acceptable Elevation Feet IGLD +0.5 / -0.5 (min. Thickness = 0.5 ft)	Actual Distance from Baseline Along Transect (INPUT BY SURVEYOR)	Actual Elevation Feet IGLD (INPUT BY SURVEYOR)	Surveyor Initials	RETEC Acceptance	Date/Time
15+85	W. Bank	574					
15+85	W. Toe	566					
15+85	Center	566					
15+85	E. Toe	566					
15+85	E. Bank	574					
15+60	W. Bank	574					
15+60	W. Toe	566					
15+60	Center	566					
15+60	E. Toe	566					
15+60	E. Bank	574					
14+75	W. Bank	574					
14+75	W. Toe	568					
14+75	Center	568					
14+75	E. Toe	568					
14+75	E. Bank	574					
14+20	W. Bank	574					
14+20	W. Toe	564					
14+20	Center	563					
14+20	E. Toe	564					
14+20	E. Bank	574					
13+60	W. Bank	574					
13+60	W. Toe	566					
13+60	Center	566					
13+60	E. Toe	566					
13+60	E. Bank	574					
13+10	W. Bank	574					
13+10	W. Toe	566					
13+10	Center	566					
13+10	E. Toe	566					
13+10	E. Bank	574					
12+60	W. Bank	574					
12+60	W. Toe	566					
12+60	Center	565					
12+60	E. Toe	566					
12+60	E. Bank	574					
12+10	W. Bank	574					
12+10	W. Toe	566					
12+10	Center	566					
12+10	E. Toe	566					
12+10	E. Bank	574					
11+60	W. Bank	574					
11+60	W. Toe	566					
11+60	Center	566					
11+60	E. Toe	566					
11+60	E. Bank	574					
11+10	W. Bank	574	15'	574.2			
11+10	W. Toe	566	31.0	565.70			
11+10	Center	566	45.9	565.62			
11+10	E. Toe	566	59.0	565.71			
11+10	E. Bank	574	75'	574.2			
10+95	W. Bank	574					
10+95	W. Toe	564					
10+95	Center	564					
10+95	E. Toe	564					
10+95	E. Bank	574					

INTERMEDIATE STATIONS ON BACK

NOTE: STONE WAS RANDOMLY MEASURE WITH TAPE TO INSURE 0.5' DEPTH MIN. THIS 0.5' WAS ADDED TO ACCEPTED SAND ELEV. B.W.

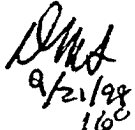




STONE
INTERMEDIATE STA.

STATION	CONTROL PT.	ACCP. @LEV.	ACT. @LEV.	SURVEYORS INITIALS	RETEC ACCEPTANCE	DATE/TIME
11+05.1	W. BANK	574.0	574 ±	BUN		9/10/98 4:30 P.
	W. TOE	565.0	565.2			
	CENTER	565.0	565.2			
	E. TOE	565.0	565.2			
	E. BANK	574.0	574 ±			
11+35	W. BANK	574.0	574. ±	BUN		9/10/98 5:45
	W. TOE	566.0	566.1			
	CENTER	566.0	566.1			
	E. TOE	566.0	565.9			
	E. BANK	574.0	574 ±			

Station Ref Dwg. S-3A & B	Control Point Along Transect	Acceptable Elevation Feet IGLD +0.5 / -0.5 (min. Thickness = 0.5 ft)	Actual Distance from Baseline Along Transect (INPUT BY SURVEYOR)	Actual Elevation Feet IGLD (INPUT BY SURVEYOR)	Surveyor Initials	RETEC Acceptance	Date/Time
15-85	W. Bank	574					
15-85	W. Toe	566					
15-85	Center	566					
15-85	E. Toe	566					
15-85	E. Bank	574					
15-60	W. Bank	574					
15-60	W. Toe	566					
15-60	Center	566					
15-60	E. Toe	566					
15-60	E. Bank	574					
14-75	W. Bank	574					
14-75	W. Toe	568					
14-75	Center	568					
14-75	E. Toe	568					
14-75	E. Bank	574					
14-20	W. Bank	574					
14-20	W. Toe	564					
14-20	Center	563					
14-20	E. Toe	564					
14-20	E. Bank	574					
13-60	W. Bank	574					
13-60	W. Toe	566					
13-60	Center	566					
13-60	E. Toe	566					
13-60	E. Bank	574					
13-10	W. Bank	574					
13-10	W. Toe	566					
13-10	Center	566					
13-10	E. Toe	566					
13-10	E. Bank	574					
12-60	W. Bank	574		573.20	BHW	OK	9/18/98
12-60	W. Toe	566		566.41			3:00 PM
12-60	Center	566		565.40			(DOT ONLY)
12-60	E. Toe	566		566.25			
12-60	E. Bank	574		573.14			
12-10	W. Bank	574		574.48	BHW	OK	9/18/98
12-10	W. Toe	566		566.67			3:00 PM
12-10	Center	566		566.35			
12-10	E. Toe	566		566.27			
12-10	E. Bank	574		574.10			
11-60	W. Bank	574		575.12	BHW	OK	9/18/98
11-60	W. Toe	566		566.52			3:00 PM
11-60	Center	566		566.04			
11-60	E. Toe	566		566.20			
11-60	E. Bank	574		573.94			
11-10	W. Bank	574					
11-10	W. Toe	566					
11-10	Center	566					
11-10	E. Toe	566					
11-10	E. Bank	574					
10-95	W. Bank	574					
10-95	W. Toe	564					
10-95	Center	564					
10-95	E. Toe	564					
10-95	E. Bank	574					

Station Ref Dwg. S-3A & B	Control Point Along Transect	Acceptable Elevation Feet IGLD +0.5/-0.5 (min. Thickness = 0.5 ft)	Actual Distance from Baseline Along Transect (INPUT BY SURVEYOR)	Actual Elevation Feet IGLD (INPUT BY SURVEYOR)	Surveyor Initials	RETEC Acceptance	Date/Time
15-85	W Bank	574	84.5 17.3	574.32	BWN	DMS	10/7/98 5:20 PM 10/9/98 0700
15-85	W Toe	566	33.3	566.95			
15-85	Center	566	50.7	567.1			
15-85	E Toe	566	68.5	567.5			
15-85	E Bank	574	84.5	574.29			
15-60	W Bank	574	18	574.14	BWN	DMS	10/7/98 5:00 PM 10/9/98 0700
15-60	W Toe	566	34.0	566.71			
15-60	Center	566	50.6	566.93			
15-60	E Toe	566	67.2	566.98			
15-60	E Bank	574	83.2	574.61			
14-75	W Bank	574	17.72	574.32	BWN	DMS	10/5/98 3:00 PM 10/9/98 0700
14-75	W Toe	568	28.48	567.95			
14-75	Center	568	47.24	568.12			
14-75	E Toe	568	66.00	568.40			
14-75	E Bank	574	76.72	574.16			
14-20	W Bank	574	16.92	575.0	BWN	DMS	10/5/98 7:00 PM 10/9/98 0700
14-20	W Toe	564	29.45	565.93			
14-20	Center	563	48.95	566.10			
14-20	E Toe	564	58.45	565.74			
14-20	E Bank	574	81.28	574.68			
13-60	W Bank	574	12.92	574.74	BWN	DMS	10/1/98 9:30 AM 10:00
13-60	W Toe	566	27.68	566.45			
13-60	Center	566	45.33	566.18			
13-60	E Toe	566	63.00	566.31			
13-60	E Bank	574	77.88	574.48			
13-10	W Bank	574	574.53	574.15	BWN	DMS	9/28/98 11:30 PM 9/29/98 0700
13-10	W Toe	566	566.25	573.26			
13-10	Center	566	566.00	566.41			
13-10	E Toe	566	566.50	565.40			
13-10	E Bank	574	574.20	566.25			
12-60	W Bank	574		574.15	9/22 BWN	DMS	9/18/98 3:00 PM (BOT. ONLY)
12-60	W Toe	566		573.26			
12-60	Center	566		566.41			
12-60	E Toe	566		565.40			
12-60	E Bank	574		566.25			
12-10	W Bank	574		574.48	BWN	DMS	9/18/98 3:00 PM
12-10	W Toe	566		566.47			
12-10	Center	566		566.35			
12-10	E Toe	566		566.27			
12-10	E Bank	574		574.10			
11-60	W Bank	574		575.12	BWN	DMS	9/18/98 3:00 PM
11-60	W Toe	566		566.52			
11-60	Center	566		566.04			
11-60	E Toe	566		566.20			
11-60	E Bank	574		573.94			
11-10	W Bank	574					
11-10	W Toe	566					
11-10	Center	566					
11-10	E Toe	566					
11-10	E Bank	574					
10-95	W Bank	574					
10-95	W Toe	564					
10-95	Center	564					
10-95	E Toe	564					
10-95	E Bank	574					

STONE
INTERMEDIATE STATIONS

STATION	CONTROL PT.	ACCEP. ELEV.	ACT. ELEV.	SURVEYORS INITIALS	RET. ACC. ACCEPTANCE	D. TIME
11+85	W. TOP	574	574.4	BHN	 9/21/98 1600	9/18/98 3:00 P
	W. TOE	566	566.44			
	CENTER	566	566.08			
	E. TOE	566	566.21			
	E. TOP	574	574.10			
12+35	W. TOP	574	573.10	BHN		9/18/98 3:00 P
	W. TOE	566	566.21			
	CENTER	565.5	565.84			
	E. TOE	566	566.38			
	E. TOP	574	573.93			
12+85	W. TOP	574	573.95	BHN		9/22/98 1:30 14/11
	W. TOE	566	566.27			
	CENTER	565.5	566.10			
	E. TOE	566	566.07			
	E. TOP	574	574.21			
13+35	W. TOP	574	574.88	BHN		9/18/98 11:30 9/20/98 0-
	W. TOE	566	566.34			
	CENTER	566	565.70			
	E. TOE	566	566.27			
	E. TOP	574	574.12			
3+90	W. TOP	574	574.86	BHN		10/1/98 9:30 1000
	W. TOE	565 /	566.05			
	CENTER	565 /	565.80			
	E. TOE	565 /	566.15			
	E. TOP	574	574.50			