N00129.AR.000848
NSB NEW LONDON
5090.3a

Basewide Groundwater Operable Unit Remedial Investigation Report

For

Naval Submarine Base New London

Groton, Connecticut

VOLUME III - APPENDIX A

Northern Division Naval Facilities Engineering Command

Contract Number N62472-90-D-1298

Contract Task Order 0312

February 2001

TETRA TECH NUS, INC.

APPENDIX A

FIELD DATA

A.1 BORING LOGS

A.2 WELL COMPLETION LOGS

A.3 WELL DEVELOPMENT LOGS

A.4 SLUG TEST RESULTS

A.5 SOIL SAMPLE LOGS

A.6 GROUNDWATER PURGE SHEETS AND SAMPLE LOGS

A.7 FIELD INSTRUMENT CALIBRATION LOGS

A.8 SURVEY DATA

A.9 CHAIN OF CUSTODIES

A.10 NATURAL ATTENUATION DATA

APPENDIX A.1

BORING LOGS

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NSB NEW LONDON
PROJECT NUMBER: 7856 CTO 0312
DRILLING COMPANY: Parratt - Wolff
DRILLING RIG: CME 75
BORING NUMBER: 2D mw 29 D
DATE:
GEOLOGIST: ~~STAN CONTI~~ Cercone
DRILLER: Lane

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth /Ft.) or Screened Interval	Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm) Sample	Sampler BZ	Borehole**	Driller BZ**
	1												
	2						0-10: Sec						
	3						LOG FOR						
	4						2DMW29S FROM						
	5						PHASE 2 RI						
	6						INVESTIGATION						
	7												
	8												
	9												
	10	5/6	2.0			Buf to	SAND (f-m)		SAMPLE ID: S3SB29D 1012				
	11	8/11			loose	Br.	SAND + SILT		wet	0	0	0	0
	12												
	13						NOT LOGGED						
	14						12 to 16 FT						
	15												
	16	9/16	1.5		STIFF		16-17: Same AS 11-12'			0	0	0	0
	17	35/50-2"			Hard		17-18': WEATHERED Gneiss						
	18						TD=18'						
	19						Auger & SSpoon						
	20						REFUSAL @ 18'						

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks: SHELBY TUBE TAKEN AT INSTEAD OF 3MW14S. Shelbys were FedEx to us today.

Drilling Area Background (ppm): 0

Converted to Well: Yes ____ No X Well I.D. #: Borehole Abandoned

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NSB NEW LONDON
PROJECT NUMBER: 7856 CTO 0312
DRILLING COMPANY: PW Inc
DRILLING RIG: CME 75
BORING NUMBER: 3MW14S
DATE: 6-22-00
GEOLOGIST: ~~STAN CONTI~~ Cercone
DRILLER: Lane

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth /Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
S-1	1	2/3	1.1		loose	D. Br	SILT, loose		DAMP				
	2	4/4											
	3	6/6	1.2		loose	Buff	f. SAND		dry				
	4	5/6											
	5	8/18	1.2				Same as above						
	6	20/2											
	7	18/25	1.3				SAND (f-c) + GRAVEL, ang.		dry				
	8	26/22											
	9	9/11	1.5				Same as above						
	10	20/13											
	11	11/12	1.6			L Br.	f SAND		damp.				
	12	12/13											
	13	14/9	1.5			Buff	Same as above						
	14	9/14											
	15	6/8	1.3			L Br	Same as above						
	16	12/12											
	17	13/16	1.6				Same as above						
	18	29/52											
	19	21/18	1.3			Buff White	f-c SAND ?		dry				
	20	17/16					GRAVEL, angular						

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area
Background (ppm): 0

Remarks: A SHELBY TUBE WAS NOT COLLECTED IN THIS HOLE DUE TO DRILLER'S RUNNING OUT OF TUBES. AN ALTERNATE TUBE WAS COLLECTED AT 2DMW29D on 6-23-00.

Converted to Well: Yes X No ____ Well I.D. #: 3MW14S

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NSB NEW LONDON
PROJECT NUMBER: 7856 CTO 0312
DRILLING COMPANY: PW Inc.
DRILLING RIG: CME 75
BORING NUMBER: 3 MW 14 S
DATE: 6-22-00
GEOLOGIST: ~~STAN CONTI~~ D Cercone
DRILLER:

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth /Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
21	~~1~~	– / –					No Recovery						
	~~2~~	– / –	– 0										
	~~3~~	23 / 25				Buff	f SAND & some med. GRAVEL		dry				
	~~4~~	14 / 17											
25	25	11 / 20	1.5				Same as above						
	~~6~~	14 / 14											
	~~7~~	17 / 14	1.6				Same as above		dry				
	~~8~~	18 / 13											
	~~9~~	8 / 10	0				Little Recovery						
30	~~10~~	13 / 9					cobble in tip						
	~~11~~	29 / 22	0										
	~~12~~	13 / 11		▽ 32'	loose		SAND & GRAVEL		Wet @ 32				
	~~13~~	8 / 7	1.0										
	~~14~~	8 / 7							SAMPLE ID: S3SB14S3234				
35	~~15~~	8 / 14	2.0										
	~~16~~	13 / 17											
	~~17~~	8 / 12	2.0										
	~~18~~	15 / 15											
	~~19~~	/					TD = 38'						
40	~~20~~	/											

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm):

Remarks:

Converted to Well: Yes ____ No ____ Well I.D. #: ____

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NSB NEW LONDON
PROJECT NUMBER: 7856 CTO 0312
DRILLING COMPANY: PARRATT WOLFF
DRILLING RIG: CME 75
BORING NUMBER: 2W MW 22S
DATE: 6-21-00
GEOLOGIST: STAN CONTI
DRILLER: JIM LANSING

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth /Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
S-1 e	1	6/11	1.1/2	? NAT ↓	M DENSE	BRN GRAY	SILTY SAND (F/C) AND	SW	DAMP	0			
1505	2	7/4					ROCK FRAG - TR ROOTS GRAVEL			0			
S-2 e	3	3/3	0.5/2	3' →	M DENSE	BRN	F/C SAND AND ROCK & GRAVEL FRAGS	SW	POOR REC DUE MOIST) TO	0			
1507	4	11/7							LG. ROCK FRAG	0			
S-3 e	5	6/9	1/2		DENSE	GRAY BRN	SILTY F/C SAND - SOME	SW	MOIST	0			
1520	6	17/21		▽ 6'±			GRAVEL & ROCK			0			
S-4 e	7	33/46	1.6/2		V DENSE	BRN	SILTY F/C SAND AND GRAVEL / ROCK FRAGS	SW	SPOON WAS WET @ 6' - BUT	0			
1525	8	50/.4							WAS @ 4' WHILE DRILLING.	0			
S-5 1545	9	4/27	1.7/2		V DENSE	TAN BRN	SILTY F/C SAND AND	SW	WET	0			
	10	39/30					GRAVEL - ROCK FRAGS			0			
S-6 e	11	18/46	1/2		V DENSE	BRN	SILTY F/M SAND - SOME ROCK & GRAVEL FRAGS	SW	MOIST → WET	0			
1550	12	50/.3	TO 13'						V. COMPACT.	0			
	13									0			
	14			13' TD			HSA REFUSAL (BEDROCK) ?						
	15												
	16						6 - 2" SPOONS						
	17						HSA TO 13'						
	18						SCREEN 3 TO 13						
	19						SAND 2 TO 13						
	20												

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area _____
Background (ppm): _____

Remarks: _____

Converted to Well: Yes ✓ No _____ Well I.D. #: 2W MW 22S

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NSB NEW LONDON
PROJECT NUMBER: 7856 CTO 0312
DRILLING COMPANY: PARRATT - WOLFF
DRILLING RIG: CME 75
BORING NUMBER: 23MW01S
DATE: 6-21-00
GEOLOGIST: STAN CONTI
DRILLER: JIM LANSING

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth /Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
S-1 e	1	4/3	1/2	0.5	LOOSE	BRN	TOPSOIL / SILTY SAND / ROOTS		DAMP → MOIST				
					DENSE	BRN	SILTY SAND - SOME	SM	MOIST	0			
0840	2	50/.4	1				LG. GRAVEL, WOOD (FILL)			0			
S-2 e	3	8/11	1/2		M DENSE	BRN TO	SILTY SAND AND ROCK FRAGS - ROOTS		DAMP	0			
0855	4	10/8				GRAY	(FILL)			0			
S-3 e	5	7/5	0.8/2			BRN	SAME AS ABOVE	SM	MOIST	0			
0900	6	6/7		F. 6						0			
S-4 e	7	5/6	1/2	N ?	M DENSE	BRN	SILTY SAND AND GRAVEL	SW	1" Φ GRAVEL	0			
0905	8	6/8		8'± ▼		YELLOW			SUB ROUND NAT ? BOTTOM OF	0			
S-5 e	9	4/14	1/2		M DENSE	BRN	SILTY SAND - TR M SAND	SM	SPOON WAS WET. SOME 3" GRAVEL	0			
0920	10	13/14				TAN			IN CUTTINGS. → WET	0			
S-6 e	11	5/7	1.2/2		M DENSE	GRAY BRN	SILTY F/M SAND	SM	WET	0			
0925	12	13/13				YELLOW			SOME LAMINATIONS	0			
S-7 e	13	13/8	1.2/2		M DENSE	BRN	SILTY F/M SAND - TR	SM	WET	0			
0930	14	6/7					F/M GRAVEL	SW	SUB ROUND 3/4" Φ GRAVEL	0			
S-8 e	15	5/4	1.5/2		LOOSE	GRAY	SILTY F SAND	SM	WET	0			
0940	16	6/4							MICACEOUS	0			
	17			16' TD					NO BR HIT. WT WELL ONLY.				
	18						8-SPOONS		SCREEN 6-16				
	19						16' - 2" WELL.		SAND 4-16 CHIPS 2-4				
	20												

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm):

Remarks:

Converted to Well: Yes ✓ No _____ Well I.D. #: 23MW01S

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NSB NEW LONDON
PROJECT NUMBER: 7856 CTO 0312
DRILLING COMPANY: PARRATT WOLFF
DRILLING RIG: CME

BORING NUMBER: 23MW045
DATE: 6-20-00
GEOLOGIST: STAN CONTI
DRILLER: JIM LANSING

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth /Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
S-1 @	1	14		0.5			ASPHALT & GRAVEL		DAMP	0			
0730	2	15/18	1/1.5		DENSE	BRN	SILTY SAND - SOME ROCK FRAGS		DAMP	0			
S-2 @	3	36/26	1/2		M DENSE	TAN BRN	SILTY F SAND - TR ROCK FRAGS.	SM	DAMP → MOIST	0			
0735	4	13/14					(FILL)			0			
S-3	5	4/3	1/2		LOOSE	BRN	SILTY SAND - TR C SAND	SM	DAMP	25			
0745	6	3/2					LOOKS NAT @ 5' ±			15			
S-4 @	7	3/2	1/2		LOOSE					49			
0748	8	2/1		▽ 8'±		TAN			8'± WET	17			
S-5 @	9	W/O	1.5/2		V LOOSE	ORANGE GRAY	SILTY SAND - TR GRAVEL	SM		0			
0810	10	H/1					AND WOOD FRAG TR ROOTS @ 9' LOOKS NAT		WET	0			
S-6 @	11		045 ST 1	REC 20"					TOOK SHELBY TUBE HERE 10-12	—			
0825	12							*	SAMPLE ID: S23S8045 1012	—			
S-7 @	13	4/5	2/2		M DENSE	BRN GRAY	SILTY F SAND	SM	NAT (WET)	0			
0835	14	5/7				TO GRAY			MICACEOUS	0			
S-8 @	15	3/4	1.5/2		LOOSE	GRAY	SILTY VF SAND/ SANDY SILT	SM/ML	WET	0			
0840	16	5/5								0			
S-9 0845	17	3/4	1.5/2		LOOSE	GRAY	SAME AS ABOVE		WET	0			
	18	4/3							LAMINATIONS NOTED	0			
S-10 @	19	2/2	1.7/2		LOOSE	GRAY	SILTY VF SAND/ SANDY SILT	SM/ML	WET	0			
0850	20	3/3							LAMINATIONS NOTED	0			

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 0

Remarks: * SAMPLE S23S8045 1012 WAS COLLECTED ON 6-23-00 IN A BOREHOLE NEXT TO THE MONITORING WELL.

Converted to Well: Yes ✓ No _____ Well I.D. #: 23 MW 04S

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NSB NEW LONDON
PROJECT NUMBER: 7856 CTO 0312
DRILLING COMPANY: PARRATT WOLFF
DRILLING RIG: CME 75
BORING NUMBER: 23MW04S
DATE: 6/20/00
GEOLOGIST: STAN CONTI
DRILLER: JIM LANSING

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth /Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
S-11 e	21	1/1	1/2		V LOOSE	GRAY	SILTY VF SAND - SANDY	SM/ML	WET	0			
0900	22	1/1					SILT		LAMINATIONS	0			
S-12 e	23	2/2	1./2			GRAY	SAME AS ABOVE		WET	0			
0905	24	2/2		24						0			
S-13 e	25	W/0	1.5/2		V LOOSE	BRN	SILTY F SAND	SM	WET - NOT AS	0			
0915	26	H/1							FINE AS ABV CHANGE IN	0			
S-14 e	27	2/2	1/1			GRAY BRN	SAME AS ABOVE		COLOR TO BRN @ 24	0			
0918	28	2/2		28±					TR ORANG BRN STREAKS 27±	0			
S-15 e	29	1/1	1.1/2		LOOSE	GRAY	SILTY VF SAND/SANDY SILT	SM ML	WET -	0			
0950	30	2/4		30±					LAMINATED	0			
S-16 e	31	1/1	1.2/2		LOOSE	GRAY	SANDY SILT - LAMINATED	SM ML	MOIST → WET	0			
0955	32	2/3					W/ V. THIN CLAY LENS		V. THIN = 1/16" OR SMALLER	0			
S-17 e	33	4/3	1.2/2		LOOSE		SANDY SILT - SILTY VF	SM	WET	0			
1000	34	3/3					SAND (LAMINATED)	ML	NO VISIBLE CLAY SEAMS	0			
S-18 e	35	W/0 H	1/2		V LOOSE		SILTY VF SAND	SM	WET	0			
1015	36	1/2		36±						0			
S-19 e	37	2/3	1.5/2		LOOSE	BRN TO	SILTY F SAND	SM	WET	0			
1018	38	3/2				GRAY			CHANGE IN COLOR.	0			
S-20 e	39	1/1	1/2		V LOOSE	TAN		SM		0			
1035	40	1/1				BRN				0			

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm):

Remarks:

Converted to Well: Yes ✓ No _____ Well I.D. #: 23MW04S

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NSB NEW LONDON
PROJECT NUMBER: 7856 CTO 0312
DRILLING COMPANY: PARRATT WOLFF
DRILLING RIG: CME 75

BORING NUMBER: 23 MW 04S
DATE: 6-20-00
GEOLOGIST: STAN CONTI
DRILLER: JIM LANSING

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth /Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
S-21	41	W/O H	1/2		LOOSE	TAN BRN	SILTY F SAND	SM	WET	0			
@ 1040	42	2/3								0			
S-22 @	43	3/4	1.1/2		M DENSE	TO	SILTY F SAND	SM	WET → MOIST	0			
1045	44	5/6				YELLOW BRN	LAMINATED		MICACEOUS	0			
S-23 @	45	3/3	1-2/2	45	LOOSE	TAN BRN	SILTY VF SAND	SM	WET → MOIST	0			
1108	46	5/4					TR ORANG BRN ≈ 45'		MICACEOUS	0			
S-24 @	47	4/4	1/2		LOOSE	TAN	SILTY F SAND	SM	WET	0			
1110	48	4/3							MICACEOUS	0			
S-25 @	49	3/3	1.3/2		LOOSE	TAN BRN	SILTY VF SAND	SM	WET → MOIST	0			
1124	50	3/6					1" 49.5 (ORANGE BRN SEAM)			0			
S-26 @	51	2/2	1/2		LOOSE		SILTY VF SAND	SM	WET	0			
1130	52	2/3							MICACEOUS	0			
S-27 @	53	4/3	1/2		LOOSE	BRN	SILTY F SAND	SM	WET → MOIST	0			
1135	54	3/4							MICACEOUS	0			
S-28 @	55	2/10	1/1.2	55	LOOSE		SILTY F/M SAND			0			
1145	56	50/.2		REF @ 55.2	TO HARD		TRACE OF DARK GRAY		TOR ≈ 55'±				
	57						BEDROCK (SCHIST) BIOTITE/QUARTZ						
	58												
	59						10 SLOT 45 TO 55						
	60						SAND TO 43						

BENT CHIPS TO 41.

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): ____

Remarks: ____

Converted to Well: Yes ✓ No ____ Well I.D. #: 23 MW04S

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NSB NEW LONDON
PROJECT NUMBER: 7856 CTO 0312
DRILLING COMPANY: PARRATT-WOLFF
DRILLING RIG: CME 75 - W/ AUTO HAMMER
BORING NUMBER: 23 MW02S
DATE: 6-20-00
GEOLOGIST: STAN CONTI
DRILLER: JIM LANSING

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth /Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
S-1 e	1	7/13	1.2/3		M DENSE	TAN BRN	SILTY SAND - SOME	SM	DAMP	0			
1630	2	12/8					ROCK FRAG - ROOTS (FILL)	SP		0			
S-2 e	3	9/7	1/3			GRAY BRN	SILTY SAND - TR GRAVEL	SM	MOIST	0			
1635	4	9/7					AND ROCK (FILL)			0			
S-3 e	5	1/1	1.3/2	4	V LOOSE	GRAY	SILTY F SAND - TR	SM	MOIST → WET	0			
1640	6	1/1					CLAY			0			
S-4 e	7	1/1	1/2	POSS. ▼ 7 OR 8 ALSO		BRN GRAY	SAME AS	SM	MOIST → WET	0			
1645	8	1/1					ABOVE TR GRAV.		(NAT AS FILL ?)	0			
S-5 e	9	W/O	1/2				SAME AS ABOVE	SM	MOIST → WET	0			
1655	10	H/1		TOOK ST - 8-10 2nd Attempt						0			
S-6 e	11	W/O	1/2		V LOOSE	BRN TO	SAME AS ABOVE	SM	MOIST → WET	0			
1700	12	H/4				GRAY	LAST 6" GRAY CLAYEY SAND	SP	MORE WET THAN ABOVE	0			
S-7 e	13		▼ 025 ST 1	NO REC. TUBE DAMAGED					SAMPLE ID: * S23SB02S0810	0			
1710	14		▲							0			
	15			TD 14'									
	16						AUGER REF @ 14'		DRILL 2ND HOLE TO				
	17						SET WELL 4 TO 14		8' PUSH TUBE 8 TO 10				
	18						SAND 2 TO 14						
	19						PELLETS 1 TO 2						
	20						THEN FLUSH MT.						

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): [ ]

Remarks: * SHELBY TUBE COLLECTED ON 6-23-00 IN A BOREHOLE NEXT TO MONITORING WELL.

Converted to Well: Yes ✓ No ____ Well I.D. #: 23 MW02S

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NSB NEW LONDON
PROJECT NUMBER: 7856 CTO 0312
DRILLING COMPANY: PARRATT - WOLFF
DRILLING RIG: CME 75

BORING NUMBER: 2LMW35S
DATE: 6-21-00
GEOLOGIST: STAN CONTI
DRILLER: JIM LANSING

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth /Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
S-1 e	1	4/8	1.1/2		DENSE	BRN	SILTY SAND - SOME ROCK FRAGS	SM/SW	DAMP	0			
1250	2	16/16								0			
S-2 e	3	11/11	1.2/2		M DENSE	GRAY BRN	SILTY SAND AND ROCK FRAGS	SW	MOIST	0			
1255	4	15/15		4						0			
S-3 e	5	4/2	1.3/2		LOOSE	BRN	SILTY SAND - SOME ROCK FRAGS (FILL)	SM	MOIST	0			
1300	6	2/2		6' ±						0			
S-4 e	7	3/3	1/2		M DENSE	BRN	SILTY F/C SAND - SOME ROCK FRAG ? (NAT)	SW	MOIST	0			
1303	8	8/6							COULD BE NATURAL	0			
S-5 e	9	19/27	.8/1.1		TO HARD	GRAY BRN	F/C SAND AND ROCK (GNEISS)? FRAGS.	SW	MOIST	0			
1310	10	50/.1		9.1 TD									
	11												
	12												
	13												
	14						5- 2" SPOONS						
	15						9' HSA						
	16						9' WELL (4-9)						
	17						SAND (2-9)						
	18						CHIPS 1-2						
	19						THEN FLUSH MOUNT.						
	20												

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm):

Remarks: NO OBS WATER TO 9' - DECIDE TO SET SHALLOW WELL IN CASE IT MAKES WATER.

Converted to Well: Yes ✓ No

Well I.D. #: 2LMW35S

Tetra Tech NUS, Inc.

BORING LOG

Page ___ of ___

PROJECT NAME: NSB NEW LONDON
PROJECT NUMBER: 7856 CTO 0312
DRILLING COMPANY: TDS
DRILLING RIG: DPT

BORING NUMBER: STN 26
DATE: 6-9-00 / 6-23-00
GEOLOGIST: STAN CONTI
DRILLER: VITONE

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth /Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
	1			-4			ASPHALT			0			
S-1	2			CME HSA TO 4' ON 6/23/00	DENSE	GRAY BRN TO		SM	DAMP	0			
	3					ORANG BRN	SILTY SAND - TR TO SOME		REF @ 3 (1ST)	0			
	4						ROCK FRAGS TR ROOTS		REF @ 3 (2ND)	0			
S-1	5								REF @ 4 (3RD)				
	6						AUGER TO 8' INTO		REF @ 4' (4TH)				
S-2	7						ROCK NO WATER		REF @ 4' (5TH)				
	8						ON 6/23/00						
S-3	9												
	10												
	11								N ±				
	12								4'				
	13								10' ORG LOC				
	14								4				
	15												
	16												
	17								30'				
	18												
	19						5 CORES - NO WELL						
	20												
	21												
	22						HSA rig failed						
	23						also.						
	24												
	25												

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): ____

Remarks: ON 6/23/00 PW USE 3/4" ID HSA IN ATTEMPT TO HIT SHALLOW WATER AND INSTALL TEMP WELL - WANTED TO SEE IF HSA COULD GET DEEPER THAN TDS' GEOPROBE.

Converted to Well: Yes ____ No ✓ Well I.D. #: ____

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NSB NEW LONDON
PROJECT NUMBER: 7856 CTO 0312
DRILLING COMPANY: TDS
DRILLING RIG: DPT

BORING NUMBER: 3TW1
DATE: 6-8-00
GEOLOGIST: STAN CONTI
DRILLER: VITONE

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth /Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
					M	DK							
	1			0.5	DENSE	BRN	TOPSOIL/ROOTS	ML	MOIST	1.4			
S-1 e	2		4/4			GRAY	SAND AND ROCK	SP		.8			
1415	3					TO ORANG	FRAGS TO			0			
	4			4		BRN	SILTY FINE SAND	SM	MOIST	0			
	5									0			
S-2	6				DENSE	TAN ORANG	SILTY SAND AND	SP	MOIST	1.2			
e 1420	7		4/4	7		BRN	ROCK FRAGS			0			
	8			8						0			
	9									0			
S-3 e	10		3.8/4	10'±	DENSE	BRN	F/C SAND - SOME ROCK	SW	MOIST → WET	0			
1430	11						AND GRAVEL FRAGS.		WET @ 10'±	0			
	12			12						0			
S-4	13					ORANG				0			
e	14				DENSE	BRN	F/C SAND - TR F	SW		0			
1450	15						GRAVEL		WET	0			
	16			16						0			
	17												
	18			17' TO									
	19												
	20			20									
	21						SCREEN 7 TO 17						
	22						SAND 6 TO 17						
	23						BENTONITE 5 TO 6						
	24												
	25						(4) 4' CORES						

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area
Background (ppm):

Remarks:

Converted to Well: Yes ✓ No _____ Well I.D. #: 3 TW 1

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NSB NEW LONDON
PROJECT NUMBER: 7856 CTO 0312
DRILLING COMPANY: TDS
DRILLING RIG: DPT
BORING NUMBER: 3 TW 4
DATE: 6-8-00
GEOLOGIST: STAN CONTI
DRILLER: VITONE

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth /Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
	1			0.5	LOOSE	BRN	TOPSOIL/SILT/ROOTS		MOIST	0			
S-1 @ 1305	2		3/4		M DENSE	BRN TO	SILTY F SAND - TR GRAVEL - TR ROOTS	SM	MOIST	0			
	3					ORANG				0			
	4					BRN				0			
	5			5'		TAN				0			
S-2 @ 1310	6		4/4		M DENSE	BRN	F/C SAND - SOME GRAVEL FRAGS.	SW	MOIST - 1" PCS SUB ANG TO SUB ROUND	0			
	7									0			
	8									0			
	9									0			
S-3 @ 1320	10		2/4	10' ±	M DENSE	TAN BRN	F/C SAND	SW	WET ≈ 10'	0			
	11									0			
	12									0			
	13									0			
S-4 @	14		3.5/4		M DENSE		F/C SAND - SOME GRAVEL.	SW	WET	0			
	15			15'						0			
	16									0			
	17			TD @ 16'									
S-5 @	18												
	19						SCREEN 5 TO 15		1¼" Ø PVC.				
	20						SAND 4 TO 15						
	21						PELLETS 3 TO 4						
	22												
	23						4 - 4' CORES						
	24						15' WELL.						
	25												

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks:

Drilling Area Background (ppm):

Converted to Well: Yes ✓ No ____ Well I.D. #: 3 TW 4

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NSB NEW LONDON
PROJECT NUMBER: 7856 CTO 0312
DRILLING COMPANY: TDS
DRILLING RIG: DPT

BORING NUMBER: 3TW10
DATE: 6-8-00
GEOLOGIST: STAN CONTI
DRILLER: VITONE

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth /Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS*	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
	1			.5	LOOSE	BRN	TOPSOIL - ROOTS	ML	MOIST	0			
S-1 @ 0905	2		3/4		M-DENSE	TAN BRN	F/C SAND - TR GRAVEL TR ROCK FRAGS	SW	DAMP → MOIST	0			
	3									0			
	4									0			
	5					YELLOW				0			
S-2 @ 0910	6		4/4		M DENSE	BRN	F/C SAND - TR GRAVEL	SW	MOIST/DAMP	0			
	7						TR ROOTS			0			
	8					TAN				0			
S-3 @ 0915	9		4/4		M DENSE	BRN	F/C SAND - TR GRAVEL	SW	MOIST/DAMP	0			
	10								LOOKS NAT.	0			
	11									0			
	12									0			
S-4 @ 0920	13		4/4		M-DENSE		F/C SAND - TR GRAVEL	SW	MOIST	0			
	14									0			
	15									0			
	16									0			
S-5 @ 0930	17		4/4		DENSE	TAN BRN	F/M SAND - TR GRAVEL	SP/SM	MOIST	0			
	18									0			
	19									0			
	20									0			

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area ____
Background (ppm): ____

Remarks: ____

Converted to Well: Yes ✓ No ____ Well I.D. #: 3TW10

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NSB NEW LONDON
PROJECT NUMBER: 7856 CTO 0312
DRILLING COMPANY: TDS
DRILLING RIG: DPT
BORING NUMBER: 3TW10
DATE: 6/8/00
GEOLOGIST: STAN CONTI
DRILLER: VITONE

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth /Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
	20.0												
	21				DENSE	TAN BRN	F/C SAND - TR F		WET	0			
S-6 @ 1000	22		4/4	∇ ± 22'			GRAVEL			0			
	23									0			
	24									0			
	25			24' TD									
	26						(6-) 4' CORES						
	27						SCREEN 19-24						
	28						SAND 18-24						
	29												
	30						(24') WELL						
	11												
	12												
	13												
	14												
	15												
	16												
	17												
	18												
	19												
	20												

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks:

Drilling Area Background (ppm):

Converted to Well: Yes ✓ No _____ Well I.D. #: 3TW10

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NSB NEW LONDON
PROJECT NUMBER: 7856 CTO 0312
DRILLING COMPANY: TDS
DRILLING RIG: DPT
BORING NUMBER: 3TW15
DATE: 6-8-00
GEOLOGIST: STAN CONTI
DRILLER: VITONE

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth /Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
	1			0.5	LOOSE	BRN	TOPSOIL - ROOTS/SILT	ML	MOIST	0			
					M DENSE	BRN	SILTY F/C SAND TR ROCK FRAGS, TR GRAVEL		MOIST				
S-1	2		3/4							0			
@ 1030	3									0			
	4									0			
	5									0			
	6					TAN				0			
S-2 @	7		4/4		DENSE	BRN		SW	MOIST	0			
1035	8						6" SANDY SILT @ BOTM			0			
	9									0			
S-3	10									0			
@ 1040	11		4/4		DENSE	TAN BRN	F/C SAND - TR TO	SW	MOIST	0			
	12						SOME GRAVEL TR 1" ROCK FRAG.		LOOKS NAT.	0			
	13									0			
S-4	14		2/4				SILTY F/C SAND TR	SW	MOIST	0			
@ 1045	15						GRAVEL		1¼" GRAVEL PC.	0			
	16									0			
S-5	17									0			
@ 1050	18		4/4				SAME AS ABOVE	SW	MOIST	0			
	19									0			
	20									0			
	21					TAN				0			
S-6 @	22		3/4		DENSE	BRN	SILTY SAND (F/M)		MOIST	0			
1100	23			23'					NO SIGN OF H2O	0			
	24									0			
	25												

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm):

Remarks:

Converted to Well: Yes ✓ No

Well I.D. #: 3 TW 15

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NSB NEW LONDON
PROJECT NUMBER: 7856 CTO 0312
DRILLING COMPANY: TDS
DRILLING RIG: DPT
BORING NUMBER: 3TW15
DATE: 6-8-00
GEOLOGIST: STAN CONTI
DRILLER: VITONE

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth /Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
26'	1			▽ 26' ±	DENSE	TAN BRN	F/C SAND - TR TO		WET ≈ 26'±	0			
5-7	2		4/4				SOME GRAVEL.			0			
28'	3									0			
	4			28' TD			SET SCREEN 23-28		1¼" PVC				
	5						SAND 22-28						
	6						CHIPS 21-22						
	7												
	8												
	9						(7) 4' CORES						
	10						(28) WELL						
	11												
	12												
	13												
	14												
	15												
	16												
	17												
	18												
	19												
	20												
	21												
	22												
	23												
	24												
	25												

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks:

Drilling Area Background (ppm):

Converted to Well: Yes ✓ No

Well I.D. #: 3TW15

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NSB NEW LONDON
PROJECT NUMBER: 7856 CTO 0312
DRILLING COMPANY: TDS
DRILLING RIG: GEOPROBE

BORING NUMBER: 3TW17
DATE: 6-7-00
GEOLOGIST: STAN CONTI
DRILLER: STEVE VITONE

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth /Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
	1				DENSE	BRN	SILT / ROOTS TO SILTY SAND - SOME	SP	MOIST	0			
S-1 @	2		3/4				ROCK FRAGS TR C. SAND (FILL)			0			
1435	3									0			
	4									0			
	5									0			
S-2 @	6		1/4		DENSE	TAN BRN	SAND AND ROCK FRAGS. (GRANITE)	SW	MOIST	0			
1440	7			7'			FILL			0			
	8									0			
	9				DENSE		SAME AS ABV.	SW	MOIST	0			
S-3 @	10		1/4						→ WET	0			
1445	11			▽					HIT H2O ≈	0			
	12								11'± DECIDE TO	0			
	13			12' TD			REF @ 12		TRT				
S-4 @	14						BOTM @ 12'						
—	15						3-4' CORES						
	16												
	17												
	18												
	19												
	20												

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area ____
Background (ppm): ____

Remarks: ____

Converted to Well: Yes ✓ No ____ Well I.D. #: 3TW17

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NSB NEW LONDON
PROJECT NUMBER: 7856 CTO 0312
DRILLING COMPANY: TDS.
DRILLING RIG: GEOPROBE
BORING NUMBER: 3 TW 19
DATE: 6-7-00
GEOLOGIST: STAN CONTI
DRILLER: STEVE VITONE

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth /Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
	1				M DENSE		TOPSOIL - TOP 6"						
						ORANG	SILTY SAND/ SANDY	SM	MOIST	0			
S-1 @	2		3/4			BRN	SILT - SOME ROCK FRAGS (FILL)		REF @ 5' - MOVE	0			
12 55	3						TR CLAY			0			
	4									0			
	5												
S-2 @	6												
	7												
	8												
	9												
S-3 @	10												
	11												
	12												
	13												
S-4 @	14												
	15												
	16						3 ATTEMPTS HIT						
	17						REF. - MOVE TO						
	18						3 TW 20						
	19						+1						
	20						4 - CORES.						

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks:

Drilling Area Background (ppm):

Converted to Well: Yes ✓ No _____ Well I.D. #: 3 TW 19

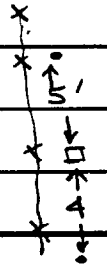
Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NSB NEW LONDON
PROJECT NUMBER: 7856 CTO 0312
DRILLING COMPANY: TDS
DRILLING RIG: GEOPROBE

BORING NUMBER: 3TW20
DATE: 6-7-00
GEOLOGIST: STAN CONTI
DRILLER: STEVE VITONE

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth /Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
	1			.5	LOOSE DENSE	BRN GRAY	TOPSOIL - SILT - ROOTS			0			
S-1 @	2		2/4			BRN	SILTY SAND - SOME ROCK FRAG.	SM	MOIST	0			
1330	3									0			
	4									0			
	5												
S-2	6												
@ 1340	7												
	8												
	9												
S-3 @	10												
	11												
	12												
S-4 @	13												
	14												
	15												
	16							1.	HIT REF @ 7'				
	17						3 CORES	2. 3.	MOVE. HIT REF @ 7'				
	18						+2	4. 5	MOVE. HIT REF. 7'+				
	19						5 TOTAL						
	20												



* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area
Background (ppm):

Remarks:

Converted to Well: Yes _____ No _____ Well I.D. #: _____

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NSB NEW LONDON
PROJECT NUMBER: 7856 CTO 0312
DRILLING COMPANY: TDS
DRILLING RIG: GEOPROBE
BORING NUMBER: 3TW22
DATE: 6-7-00
GEOLOGIST: STAN CONTI
DRILLER: STEVE

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth /Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
	1				M DENSE	BRN	SILTY SAND - TR ROOTS	SM	MOIST	0			
S-1 e	2		3/4	2			SOME ROCK FRAGS TR C. SAND (FILL)			0			
1100	3									0			
	4									0			
	5									0			
S-2 e	6		3.5/4		DENSE	GRAY BRN	SILTY SAND - SOME		MOIST	0			
1110	7						ROCK FRAGS - TR C. SAND			0			
	8			±			(FILL)			0			
	9								WET	0			
S-3 e	10		3.5/4		DENSE	BRN	SILTY F SAND - TR ROCK FRAGS.			0			
1120	11									0			
	12		12'	FILL	M	BRN	SILTY SAND TR.	SM		0			
	13			NAT	DENSE		COARSE SAND	SP	WET → SAT	0			
S-4 e	14									0			
1130	15									0			
	16									0			
	17			16 TD									
	18						4 - 4' CORES						
	19						1 - EXTRA						
	20						5 TOTAL						

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

12' TEMP.

Drilling Area Background (ppm):

Remarks:

Converted to Well: Yes ✓ No ____ Well I.D. #: 3TW22

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NSB NEW LONDON
PROJECT NUMBER: 7856 CTO 0312
DRILLING COMPANY: TDS
DRILLING RIG: DPT
BORING NUMBER: 3TW25
DATE: 6-9-00
GEOLOGIST: STAN CONTI
DRILLER: VITONE

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth /Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
	1				DENSE	BRN	SILTY SAND - SOME	SM	MOIST	0			
S-1 @	2		4/4				ROCK, ROOTS - GRAVEL (FILL)			0			
0930	3									0			
	4		4'	WET						0			
	5			@ ▽ 5'±	DENSE	OLIVE BRN	SILTY SAND / TR CLAY	SM	WET @ 5'±	0			
S-2	6		4/4				TR GRAVEL			0			
@ 0935	7									0			
	8			8	MDENSE	BRN				0			
	9			9'					WET	0			
S-3 @	10			10.						0			
0945	11			REF @ 10'									
	12			12			BOTM @ 10'						
	13						3-4' CORES						
	14						SCREEN 4 TO 9'		1¼" PVC				
	15						SAND 1 TO 9						
	16						BENT 0 TO 1						
	17												
	18								ORIG. LOC				
	19						NEW LOC		30'± → ⊗				
	20						⊗ ←		300°				
	21												
	22												
	23												
	24												
	25												

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm):

Remarks:

Converted to Well: Yes ✓ No _____ Well I.D. #: 3TW25

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NSB NEW LONDON
PROJECT NUMBER: 7856 CTO 0312
DRILLING COMPANY: TDS
DRILLING RIG: DPT

BORING NUMBER: 3TW26
DATE: 6-9-00
GEOLOGIST: STAN CONTI
DRILLER: VITONE

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth /Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
	1			-4			ASPHALT						
S-1	2				DENSE	GRAY BRN TO		SM	DAMP	0			
	3					ORANG BRN	SILTY SAND - TR TO SOME		REF @ 3 (1ST)	0			
	4						ROCK FRAGS TR ROOTS		REF @ 3 (2ND)	0			
	5								REF @ 4 (3RD)				
	6								REF @ 4' (4TH)				
	7								REF @ 4' (5TH)				
	8												
	9												
	10												
	11								N ±				
	12								4'				
	13								10' ⊗ ORG LOC				
	14								4				
	15												
	16												
	17								30'				
	18												
	19						5 CORES - NO WELL						
	20												
	21												
	22												
	23												
	24												
	25												

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm):

Remarks:

Converted to Well: Yes ____ No ✓ Well I.D. #:

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NSB NEW LONDON
PROJECT NUMBER: 7856 CTO 0312
DRILLING COMPANY: TDS
DRILLING RIG: DPT
BORING NUMBER: 7 TW 1
DATE: 6-10-00
GEOLOGIST: STAN CONTI
DRILLER: ZORK

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth /Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
	1			6"			TOPSOIL/ROOTS			0			
S-1 @ 11/10	2		3/4		DENSE	BRN	SILTY SAND-ROCK FRAGS	SW	MOIST → DAMP	0			
	3									0			
	4						(FILL)			0			
	5									0			
S-2 @ 11/15	6		3/4				SAME AS ABOVE	SW		0			
	7						(FILL)			0			
	8									0			
	9			8						0			
S-3 @ 1120	10			▽ ±	DENSE	GRAY BRN	SILTY SAND AND ROCK FRAGS			0			
	11		2.6/4						WET ≈ 10 TO 12 - DIFFICULT TO DETERMINE	0			
	12									0			
S-4 @ 1130	13		1/1				SAND AND ROCK FRAGS @ 13'		BEDROCK? @ 13' NOT SURE.	0			
	14			REF @ 13'									
	15												
	16						4 - 4' CORES						
	17						SCREEN 8-13						
	18						SAND 7-13						
	19						BENT 6-7						
	20												

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm):

Remarks: ABOUT 1' H2O UPON COMPLETION

Converted to Well: Yes ✓ No _____ Well I.D. #: 7TW1

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NSB NEW LONDON
PROJECT NUMBER: 7856 CTO 0312
DRILLING COMPANY: TDS
DRILLING RIG: DPT
BORING NUMBER: 7TW2
DATE: 6-10-00
GEOLOGIST: STAN CONTI
DRILLER: ZORK

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth /Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
	1			0.5	LOOSE MDENSE	BRN GRAY	TOPSOIL/ROOTS SILTY SAND - SOME		MOIST	0			
S-1 @ 0950	2		3/4			BRN	ROCK FRAGS (FILL)	SW	REF @ 3' COULD BE	0			
	3								CONCRETE @ 3'	0			
	4								MOVE 3' TOWARDS BLDG	0			
	5								325.	0			
S-2 @	6									1			
0955	7		0.5/4	7'	MDENSE		SILTY SAND - SOME ROCK (FILL)	SW		1			
	8									0			
S-3 @	9		3.8/4	±8'	MDENSE	BRN	SILTY VF SAND/SANDY SILT	SM/ML	WET 8' ± LOOKS NAT.	0			
1000	10									0			
	11									0			
	12									0			
	13			TD @ 12'									
	14						(4) 3 - 4' CORES						
	15						SCREEN 7 - 12						
	16						SAND 6 - 12						
	17						BENT 5 - 6						
	18												
	19												
	20												

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks:

Drilling Area Background (ppm):

Converted to Well: Yes ✓ No Well I.D. #: 7TW2

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NSB NEW LONDON
PROJECT NUMBER: 7856 CTO 0312
DRILLING COMPANY: TDS
DRILLING RIG: DPT (Geoprobe-Track Mount)
BORING NUMBER: 7TW3
DATE: 6-10-00
GEOLOGIST: STAN CONTI
DRILLER: M ZORK.

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth /Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
	1			0.5			TOPSOIL / ROOTS / SILT		MOIST				
					DENSE	BRN	SILTY SAND - SOME	SM	MOIST → DAMP	0			
S-1 e	2		3/4				GRAY ROCK FRAGS FILL	SW		0			
0915	3									0			
	4			4						0			
	5									0			
S-2 e	6		2/4		DENSE	BRN	SAME AS ABV	SM/SW		0			
0920	7			6 7.5						0			
	8			7.5± 8					WET @ 7.5'±	0			
	9									0			
S-3 e	10		3/4							0			
0925	11			11	M DENSE	BRN GRAY	SILTY VF SAND - TR. CLAY	SM	WET	0			
	12			12						0			
	13			TD @ 12'									
	14												
	15						3-4' CORES						
	16						SCREEN 6 TO 11						
	17						SAND 5 TO 11						
	18						BENT 4 TO 5						
	19												
	20												

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm):

Remarks:

Converted to Well: Yes ✓ No ____ Well I.D. #: 7TW3

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NSB NEW LONDON
PROJECT NUMBER: 7856 CTO 0312
DRILLING COMPANY: TDS
DRILLING RIG: DPT
BORING NUMBER: 7TW4
DATE: 6-9-00
GEOLOGIST: STAN CONTI
DRILLER: VITONE

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth /Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
	1			0.5	LOOSE M	BRN	TOPSOIL/ROOTS/ SILT		MOIST → DAMP	0			
S-1 @ 1100	2		3/4		DENSE	BRN	SILT F/C SAND - SOME ROCK FRAGS - ROOTS			0			
	3			3			(FILL)			0			
	4			▽ WET @ 4 TO 5'						0			
	5								SMALL VOID	0			
S-2 @ 1105	6				LOOSE	BRN	SILTY SAND		≈ 1.5'	0			
	7		0.5/4							0			
	8			8						0			
	9									0			
S-3 @	10									0			
	11			REF @ 10'									
	12						2-4' CORES						
	13						SCREEN 3 TO 8						
	14						SAND 2 TO 8						
	15						BENT. 1 TO 2						
	16												
	17												
	18												
	19												
	20												

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks:

Drilling Area Background (ppm):

Converted to Well: Yes ✓ No _____ Well I.D. #: 7TW4

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NSB NEW LONDON
PROJECT NUMBER: 7856 CTO 0312
DRILLING COMPANY: TDS
DRILLING RIG: DPT

BORING NUMBER: 7 TW 5
DATE: 6-9-00
GEOLOGIST: STAN CONTI
DRILLER: VITONE

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth /Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
	1			1'	M DENSE	TAN BRN	SILTY SAND - SOME	SM	MOIST	0			
S-1 @	2		3/4				ROCK FRAG			0			
1030	3									0			
	4			4±			FILL		WET ≈4'	0			
S-2 @	5		4/4		M DENSE	BRN	SILTY F/C SAND TR		WET	0			
1035	6						GRAVEL		LOOKS NAT	0			
	7									0			
	8			8						0			
S-3 @	9									0			
1040	10									0			
	11			11						0			
	12			12						0			
	13						BOTM @ 12'						
	14						3-4' CORES						
	15						SCREEN 1 TO 11						
	16						SAND 0.5 TO 1						
	17						BENT 0.5 TO SUR.						
	18												
	19												
	20												

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area ____
Background (ppm): ____

Remarks: ____

Converted to Well: Yes ✓ No ____ Well I.D. #: 7 TW 5

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NSB NEW LONDON
PROJECT NUMBER: 7856 CTO 0312
DRILLING COMPANY: TDS
DRILLING RIG: DPT
BORING NUMBER: 7-TW 6
DATE: 6-9-00
GEOLOGIST: STAN CONTI
DRILLER: VITONE

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth /Ft.) or Screened Interval	Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm) Sample	Sampler BZ	Borehole**	Driller BZ**
	1			4"			ASPHALT			0			
S-1 @ 1125	2		4/4	2	M DENSE	BRN	SILTY SAND AND		DAMP → MOIST	0			
	3					TO	ROCK FRAGS	SM		0			
	4			4		GRAY		/SP		0			
	5						(FILL)			0			
S-2 @ 1130	6		4/4		M DENSE	ORANG GRAY	SILTY SAND/SANDY	SM	WET - LOOKS	0			
	7					BRN	SILT		NAT FAIRLY TIGHT	0			
	8			8					FORMATION	0			
	9				DENSE	BRN	SILTY F/M SAND	SM	WET	0			
S-3 @ 1135	10					MOTTLD ORANG		/SP		0			
	11					BRN				0			
	12			12		BRN			WET	0			
	13			TD @ 12									
	14												
	15						3-4' CORES						
	16												
	17						SCREEN 2-12						
	18						SAND 1-12						
	19						BENTONITE 0-1						
	20												
	21												
	22												
	23												
	24												
	25												

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm):

Remarks:

Converted to Well: Yes ✓ No

Well I.D. #: 7TW6

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NSB NEW LONDON
PROJECT NUMBER: 7856 CTO 0312
DRILLING COMPANY: TDS
DRILLING RIG: DPT

BORING NUMBER: 7 TW 7
DATE: 6-10-00
GEOLOGIST: STAN CONTI
DRILLER: ZORK

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth /Ft.) or Screened Interval	Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm) Sample	Sampler BZ	Borehole**	Driller BZ**
	1			4"			ASPHALT						
					M DENSE	BRN	SILTY SAND AND ROCK FRAG.		MOIST → DAMP	0			
S-1	2		3/4			GRAY		SW		0			
@ 1025	3			3						0			
	4			4'±						0			
	5				V DENSE	PINK GRAY	BEDROCK ? FRAGS	VBR	WET	0			
	6								POSSIBLE BEDROCK ?	0			
S-2 @	7		3/3.5	7					FELDSPARS ? BIOTITE (SCHIST)	0			
1045	8									0			
	9			TD @ 7.5			REF @ 7.5						
	10						3-4' CORES						
	11						SCREEN 2 TO 7						
	12						SAND 1 TO 7						
	13						PELLETS 0 TO 1						
	14												
	15												
	16												
	17												
	18												
	19												
	20												

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm):

Remarks:

Converted to Well: Yes ✓ No _____ Well I.D. #: 7 TW 7

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NSB NEW LONDON
PROJECT NUMBER: 7856 CTO 0312
DRILLING COMPANY: TDS
DRILLING RIG: DPT
BORING NUMBER: 7TW8
DATE: 6-13-00
GEOLOGIST: STAN CONTI
DRILLER: VITONE

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth /Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
	1			6"			TOPSOIL - ROOTS - SILT		MOIST	0			
S-1 e 1715	2		3/4	2	M DENSE	BRN GRAY	SILTY F SAND AND ROCK FRAGS	SM SW	MOIST	0			
	3									0			
	4			4			(FILL)?		TO 4'±	0			
	5				M DENSE					0			
	6								6' LOOKS NAT?	0			
S-2 e 1720	7		3/4			BRN GRAY	SILTY F SAND - TR WOOD FRAGS	SM	4(0607) WET ≈ 7'± 1720	0			
	8			8						0			
	9					MOTTLED ORANGE GRAY				0			
S-3 e 1725	10		3/4		LOOSE		SILTY VF SAND	SM	WET	0			
	11					BRN				0			
	12			12						0			
	13			12' TD									
	14						3- 4' CORES						
	15												
	16						SCREEN 2-12						
	17						SAND 1-12						
	18						BENT 1 - TO SURF						
	19												
	20												

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm):

Remarks:

Converted to Well: Yes ✓ No _____ Well I.D. #: 7TW8

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NSB NEW LONDON
PROJECT NUMBER: 7856 CTO 0312
DRILLING COMPANY: TDS
DRILLING RIG: DPT

BORING NUMBER: 7TW9
DATE: 6-13-00
GEOLOGIST: STAN CONTI
DRILLER: VITONE

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth /Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
	1			4"			ASPHALT			0			
S-1 @ 1615	2		2.5/4	1	M DENSE	BRN	SILTY F SAND - SOME	SM	MOIST	0			
	3						ROCK FRAGS			0			
	4			4			(FILL)			0			
	5									0			
S-2	6		0/4						NO RECOVERY	0			
1620	7								4-8 ? WATER ≈ 7'0'8	0			
	8			WATER @ 8						0			
	9					ORANG BRN	SANDY SILT	SM	(0809) MOIST →	0			
S-3 1630	10		4/4			GRAY			WET	0			
	11			11						0			
	12			12						0			
	13			TD @ 12									
	14												
	15						4-4' CORES		1ST ATT. REFC3				
	16								MOVED				
	17												
	18												
	19												
	20												

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm):

Remarks:

Converted to Well: Yes ✓ No _____ Well I.D. #: 7TW9

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NSB NEW LONDON
PROJECT NUMBER: 7856 CTO 0312
DRILLING COMPANY: TDS
DRILLING RIG: DPT
BORING NUMBER: 7TW10
DATE: 6-13-00
GEOLOGIST: STAN CONTI
DRILLER: VITONE

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth /Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
	1			6			TOPSOIL / SILT / ROOTS SILTY SAND / SOME			0			
S-1 @	2		2/4	1	M DENSE	BRN BLK	ROCK FRAGS	SW	MOIST	0			
1640	3									0			
	4			4			(FILL)			0			
	5									0			
S-2 @	6		4/4	HIT H_2O @ 7±					(0607) @ 1650	0			
1645	7			7	M DENSE	OLIVE GRAY	SANDY SILT	SM	MOIST - WET	0			
	8			8		BRN	(NAT)		@ 7'±	0			
	9									0			
S-3 @	10		2/4		M DENSE	GRAY	SILTY F SAND - TR CLAY & ROOTS	SM	WET	0			
1650	11			11						0			
	12			12						0			
	13			BOT @ 12									
	14						3 - 4' CORES						
	15						SCREEN 1 - 11						
	16						SAND 0.5 - 11						
	17						BENT 0.5 TO SURF						
	18												
	19												
	20												

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks:

Drilling Area Background (ppm):

Converted to Well: Yes ✓ No

Well I.D. #: 7TW10

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NSB NEW LONDON
PROJECT NUMBER: 7856 CTO 0312
DRILLING COMPANY: TDS
DRILLING RIG: DPT

BORING NUMBER: 7TB18
DATE: 6-13-00
GEOLOGIST: STAN CONTI
DRILLER: VITONE

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth /Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
S-1 @ 1600	1			4"		BRN	ASPHALT SILTY F/M SAND-TR			0			
	2		2.2/3				TO SOME ROCK FRAGS TR SANDY SILT	SW	MOIST 1st Attempt	0			
	3									0			
	4						(FILL)			0			
	5					YELLOW BRN	SILTY F/SAND			0			
S-2 @ 1605	6		3/4	@6'±		GRAY	TR ROOTS (LOOKS NAT)		MOIST (0506)	0			
	7								TO WET @1605	0			
	8									0			
	9			BOTM @ 8'									
	10												
	11												
	12						3-4' CORES						
	13						8' TD						
	14												
	15												
	16												
	17												
	18												
	19												
	20												

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): ____

Remarks: ____

Converted to Well: Yes ____ No ✓ Well I.D. #: —

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NSB NEW LONDON
PROJECT NUMBER: 7856 CTO 0312
DRILLING COMPANY:
DRILLING RIG:

BORING NUMBER: 16TB1
DATE: 6-13-00
GEOLOGIST: STAN CONTI
DRILLER: VITONE

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth /Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
S-1 @ 1050	1		2/3	6'	M DENSE	BRN	TOPSOIL SILTY SAND - TR ROCK FRAGS.		DAMP	0			
	2								1 Attempt	0			
	3								Ref @ 3' TOOK (0001) @ 1050	0			
	4			3' TD									
	5												
	6						1 - 4' CORE						
	7												
	8												
	9												
	10												
	11												
	12												
	13												
	14												
	15												
	16												
	17												
	18												
	19												
	20												

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks:

Drilling Area Background (ppm):

Converted to Well: Yes ____ No ✓ Well I.D. #:

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NSB NEW LONDON
PROJECT NUMBER: 7856 CTO 0312
DRILLING COMPANY: TDS
DRILLING RIG: DPT

BORING NUMBER: 16TB2
DATE: 6-13-00
GEOLOGIST: STAN CONTI
DRILLER: VITONE

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth /Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
S-1 e	1		.2/1	4"			ASPHALT ASPHALT & ROCK FRAGS		DAMP	0			
1020	2								2 Attempts	0			
	3												
	4						1st 2nd		Refusal @ 1' " @ 1'				
	5												
	6						NO SAMPLE HERE.						
	7						NOT ENOUGH RECOVERY MOSTLY ASPHALT						
	8						2- 4' CORES						
	9												
	10												
	11												
	12												
	13												
	14												
	15												
	16												
	17												
	18												
	19												
	20												

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm):

Remarks:

Converted to Well: Yes ____ No ✓ Well I.D. #: ____

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NSB NEW LONDON
PROJECT NUMBER: 7856 CTO 0312
DRILLING COMPANY: TDS
DRILLING RIG: DPT
BORING NUMBER: 16TB3
DATE: 6-13-00
GEOLOGIST: STAN CONTI
DRILLER: VITONE

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth /Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
S-1	1		2/3	•	M DENSE	BRN	6" TOPSOIL. SILTY SAND - SOME ROCK FRAGS		REF @ 3' - 1st	0			
10 40	2						GRAVEL FRAGS.		4(0001)	0			
	3									0			
	4								REF @ 2' 2nd				
	5								MOVED @ 10' NW. HIT				
	6								REF @ 2'±				
	7						2-4' CORES						
	8												
	9												
	10												
	11												
	12												
	13												
	14												
	15												
	16												
	17												
	18												
	19												
	20												

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm):

Remarks:

Converted to Well: Yes ____ No ✓ Well I.D. #: ____

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NSB NEW LONDON
PROJECT NUMBER: 7856 CTO 0312
DRILLING COMPANY: TDS
DRILLING RIG: DPT

BORING NUMBER: 16TB5
DATE: 6-13-00
GEOLOGIST: STAN CONTI
DRILLER: VITONE

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth /Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
	1			•	M. DENSE	TAN BRN	SILTY SAND (F/C)	SW	DAMP → MOIST	0			
S-1 @	2		3/4				TR GRAVEL AND ROCK FRAGS		400001)	0			
1100	3								@ 1100	0			
	4				M DENSE		SAME AS ABOVE	SW	MOIST	0			
S-2	5		2/3				TR ROCK FRAGS			0			
@ 1110	6						IN SHOE.			0			
	7									0			
	8			7' REF			REFUSAL @ 7'						
	9												
	10												
	11												
	12												
	13						2 - 4' CORES						
	14												
	15												
	16												
	17												
	18												
	19												
	20												

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm):

Remarks:

Converted to Well: Yes ____ No ✓ Well I.D. #: ____

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NSB NEW LONDON
PROJECT NUMBER: 7856 CTO 0312
DRILLING COMPANY: TDS
DRILLING RIG: DPT

BORING NUMBER: 16TB6
DATE: 6-13-00
GEOLOGIST: STAN CONTI
DRILLER: VITONE

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth /Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	PID/FID Reading (ppm): Remarks	Sample	Sampler BZ	Borehole**	Driller BZ**
	1				M DENSE	BRN	ASPHALT SILTY SAND - ROCK FRAGS		1st Refe 1.3	0			
S-1 0900	2		2/3				(FILL.) (0001)		2nd " " 1.0	0			
0940	3						@ 0940		3rd Attempt	0			
	4			3' MAX DEPTH					Refe 3'. ±				
	5						TOOK SAMPLE FROM						
	6						3rd ATTEMPT						
	7						(3) - 4' CORES.						
	8												
	9												
	10												
	11												
	12												
	13												
	14												
	15												
	16												
	17												
	18												
	19												
	20												

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks:

Drilling Area Background (ppm):

Converted to Well: Yes ____ No ✓ Well I.D. #: 16 TW3

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NSB NEW LONDON
PROJECT NUMBER: 7856 CTO 0312
DRILLING COMPANY: TDS
DRILLING RIG: DPT
BORING NUMBER: 16TB7
DATE: 6-13-00
GEOLOGIST: STAN CONTI
DRILLER: VITONE

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth /Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
	1		2.8/3.5	4"	M DENSE	BRN	ASPHALT / GRAVEL. SILTY SAND - ROCKFRAGS		DAMP → MOIST	0			
S-1 @	2						GRAVEL ROCK @ 3.5± IN SHOE			0			
0915	3								1rst Attempt	0			
	4			3-5					3.5 Refusal.	0			
	5								(0001) @ 0915				
	6								2nd Attemt.				
	7								@ 0955				
	8						2 - 4' CORES.		2nd Attemt				
	9								≈ 6' SW REFE 2.5'				
	10												
	11												
	12												
	13												
	14												
	15												
	16												
	17												
	18												
	19												
	20												

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm):

Remarks:

Converted to Well: Yes ____ No ✓ Well I.D. #: ____

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NSB NEW LONDON
PROJECT NUMBER: 7856 CTO 0312
DRILLING COMPANY: TDS
DRILLING RIG: DPT

BORING NUMBER: 16TB8 / 16TW4
DATE: 6-13-00
GEOLOGIST: STAN CONTI
DRILLER: VITONE

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth /Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
	1			4" 1.0	MDENSE	BRN	ASPHALT - ROCK FRAGS			0			
S-1 c	2		3.5/4		TO	TO ORANG	SILTY SAND/SANDY	SM	MOIST	0			
0835	3					BRN GRAY	SILT LOOKS NAT		✓(0001)	0			
	4				DENSE		BELOW 1'±	SM	MOIST	0			
	5						↓		✓(0405)	0			
S-2 c	6		2/2						@ 0845	0			
0840	7			6' TD					1rst (Refusal @ 6')				
	8								Trace Rock Frags				
	9								in Drive Shoe.				
S-3 c	10												
	11						(2) 4' CORES		NO WETNESS				
	12								@ 6'.				
	13												
	14												
	15												
	16												
	17												
	18												
	19												
	20												
	21												
	22												
	23												
	24												
	25												

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks:

Drilling Area Background (ppm):

Converted to Well: Yes ____ No ✓ Well I.D. #: ____

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NSB NEW LONDON
PROJECT NUMBER: 7856 CTO 0312
DRILLING COMPANY: TDS
DRILLING RIG: DPT

BORING NUMBER: 18TB1
DATE: 6-12-00
GEOLOGIST: STAN CONTI
DRILLER: VITONE

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth /Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
	1			1	M DENSE	YELLOW BRN	SILTY F/SAND - TR		MOIST	0			
S-1	2		4/4			TO	ROOTS		V(0001)	0			
1445	3									0			
	4					GRAY			LOOKS NAT	0			
	5						TR GRAVEL		MOIST TO	0			
S-2	6			6			DEL ROOT FRAGS CONTIN BLANDS		6' REFUSAL	0			
C 1455	7			REF @ 6	M DENSE				WET V(0506)	0			
	8												
	9						2 - 4' CORES						
	10												
	11						SCREEN 1 TO 6						
	12						SAND 0.5 TO 6						
	13						EFINT 0.5 TO SUR						
	14								BOULDERS, CONTINUE				
	15								ALL OVER HERE. WATER ENTERS				
	16								HOLE @ 6' DECIDE TO TRY TEMP				
	17								WELL HERE RATHER THAN				
	18								KEEP TRYING TO GO DEEPER				
	19												
	20												
	21												
	22												
	23												
	24												
	25												

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): .

Remarks:

Converted to Well: Yes ✓ No _____ Well I.D. #: 18TW1

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NSB NEW LONDON
PROJECT NUMBER: 7856 CTO 0312
DRILLING COMPANY: TDS
DRILLING RIG: DPT
BORING NUMBER: BTB 2
DATE: 6-12-00
GEOLOGIST: STAN CONTI
DRILLER:

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth /Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
	1			4'	M DENSE	TAN	ASPHALT SILTY F/M SAND			0			
S-1 E	2		3/4			BRN	TR. ROCK & GRAVEL FRAGS.	SM	MOIST 4(0001)	.5			
1310	3			3						0			
	4			WET					FD 061200 1 TRIP DUP	0			
	5			5'					4(0405)	0			
	6								WET ≈ 5'	0			
S-2 E	7		3/4		M DENSE		F/M SAND - TR GRAVEL	SM	MOIST TO WET	0			
1315	8			8						0			
	9			TD 8'						0			
	10												
	11												
	12												
	13						2-4' CORE						
	14						SCREEN 3 TO 8						
	15						SAND 2 TO 8						
	16						BENT 1 TO 2						
	17												
	18												
	19												
	20												
	21												
	22												
	23												
	24												
	25												

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

• SAMPLE.

Drilling Area Background (ppm):

Remarks:

Converted to Well: Yes ✓ No

Well I.D. #: 18TW2

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NSB NEW LONDON
PROJECT NUMBER: 7856 CTO 0312
DRILLING COMPANY: TDS
DRILLING RIG: DPS

BORING NUMBER: 18TB3
DATE: 6-12-00
GEOLOGIST: STAN CONTI
DRILLER: VITONE

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth /Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
	1			4"			ASPHALT ROCK FRAG. ASPHALT			0			
S-1 @	2		3.5/4	•	M DENSE	YELLOW BRN	SILTY SAND / SANDY SILT	SM	(0001)	0			
1235	3								MOIST 1235	0			
	4									0			
	5						? (FILL)			0			
S-2	6							SM	MOIST	0			
@ 1240	7		3.8/4		DENSE	GRAY BRN	SILTY SAND - TR GRAVEL		COARSE GR (0708)	0			
	8		•	5' ±	DENSE	TO GRAY	TR ROCK FRAGS LOOKS (NAT)		WET @ 8' ±	0			
	9									0			
S-3	10		/4							0			
@ 1250	11									0			
	12									0			
	13			TD @ 12									
	14												
	15						3-4' CORES						
	16						TD 12'						
	17						WELL NO TEMP HERE						
	18												
	19												
	20												
	21												
	22												
	23												
	24												
	25												

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

• Sample Taken.

Drilling Area Background (ppm):

Remarks:

Converted to Well: Yes ____ No ✓ Well I.D. #: NA

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NSB NEW LONDON
PROJECT NUMBER: 7856 CTO 0312
DRILLING COMPANY: TDS
DRILLING RIG: DPT

BORING NUMBER: 18TB/4
DATE: 6-12-00
GEOLOGIST: STAN CONTI
DRILLER: VITONE

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth /Ft.) or Screened Interval	Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm) Sample	Sampler BZ	Borehole**	Driller BZ**
	1			4"			ASPHALT						
					M	BRN	SILTY SAND SOME		TOOK	0			
S-1 @	2		2.5/4	• 2	DENSE		GRAVEL	SW	(0001)	0			
1040	3						TO		@ 1042	0			
						ORANGE			MOIST	0			
	4					BRN	SILTY F SAND	SM		0			
	5								MOIST	0			
S-2	6								TOOK	0			
@ 1045	7		4/4 •	7'	M DENSE		TR ROCK FRAGS - TR CLAY	SM	(0708) MOIST TO @	0			
	8			±'			SILTY SAND		WET AT 7 TO 8 1045	0			
	9						COULD NOT GET MATL		±	—			
S-3 @	10		—/4				OUT OF MACRO CORE			—			
1055	11						SAMPLER. LOOKS LIKE			—			
	12						LT GRAY ROCK FRAGS AT BOTTOM OF SAMPLE			—			
	13			12'									
	14			TD									
	15												
	16						SCREEN 2 TO 12		1¼" ϕ PVC				
	17						SAND 1 TO 12						
	18						PELLETTS 0 TO 1						
	19												
	20						(3) - 4' CORES						
	21						TD @ 12'						
	22												
	23												
	24												
	25												

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks:

Drilling Area Background (ppm):

Converted to Well: Yes ✓ No ___ Well I.D. #: 18TW4

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NSB NEW LONDON
PROJECT NUMBER: 7856 CTO 0312
DRILLING COMPANY: TDS
DRILLING RIG: DPT
BORING NUMBER: 18 TB5
DATE: 6-12-00
GEOLOGIST: STAN CONTI
DRILLER: VITONE

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth /Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS*	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
	1			4"			ASPHALT		DAMP TO	4			
S-1 e	2		3/4	•	M DENSE	TAN BRN	SILTY SAND - SOME	SW	MOIST V(0001)	0			
1410	3						GRAVEL TD		1410	0			
	4						SILTY F SAND/SANDY	SM		.3			
	5			• ≈ 5' ± ▽			SILT		WET ≈ 5'	0			
	6				M DENSE	TAN BRN	SILTY F SAND - TR	SM	V(0405)	0			
S-2 e	7		4/4				M SAND LENSES		WET 1420	0			
1435	8								MS/M SD	0			
	9			TD 6' 8'									
	10												
	11												
	12						2- 4' CORES						
	13						NO TEMP WELL HERE						
	14												
	15												
	16												
	17												
	18												
	19												
	20												
	21												
	22												
	23												
	24												
	25												

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

• SAMPLE

Drilling Area

Background (ppm):

Remarks:

Converted to Well: Yes ____ No ✓ Well I.D. #: NA

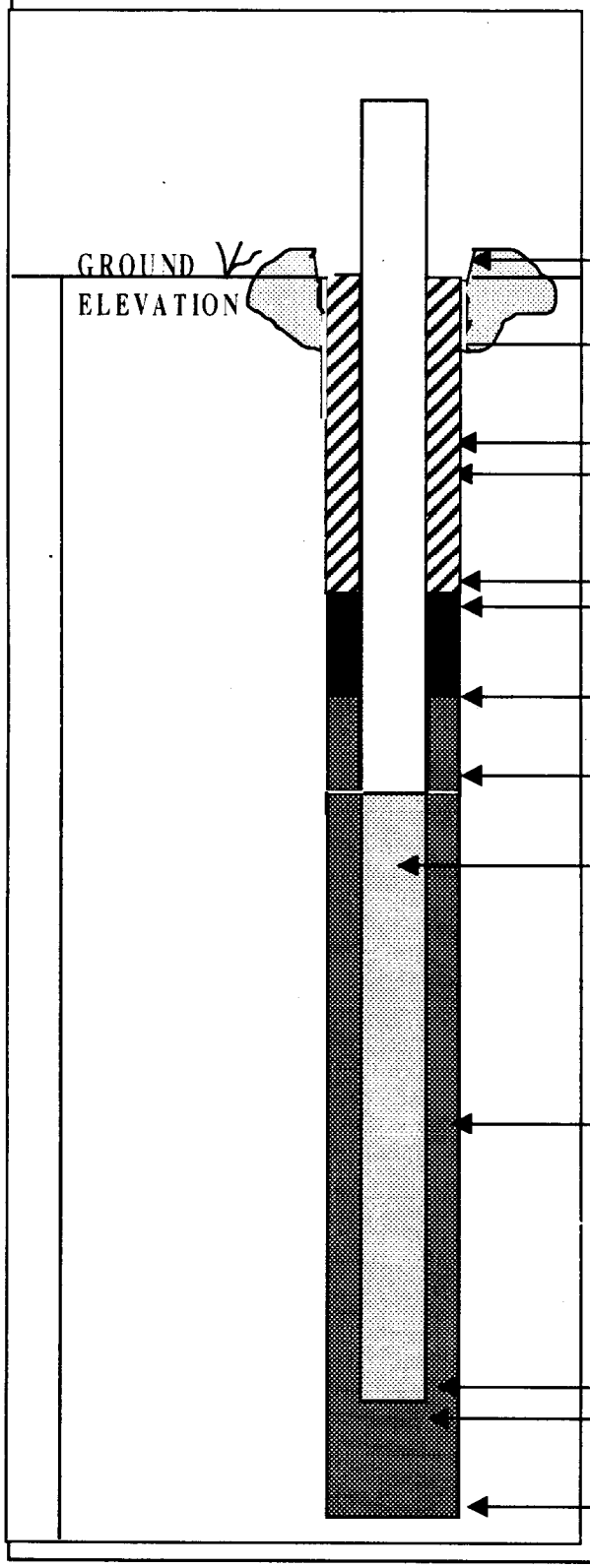
APPENDIX A.2

WELL COMPLETION LOGS

BORING NO.: 3TW1

Tetra Tech NUS, Inc. **TEMPORARY MONITORING WELL SHEET**

PROJECT:	NSB NEW LONDON	DRILLING Co.:	TDS	BORING No.:	3TW1
PROJECT No.:	7856 CTO 0312	DRILLER:	VITONE	DATE COMPLETED:	6-9-00
SITE:		DRILLING METHOD:	DPT	NORTHING:	
GEOLOGIST:	STAN CONTI	DEV. METHOD:	PERISTALTIC	EASTING:	



GROUND ELEVATION:

TYPE OF SURFACE SEAL: N.A.

RISER PIPE I.D.: 1/4

TYPE OF RISER PIPE: PVC

BOREHOLE DIAMETER: 3"

TYPE OF SEAL: N/A

ELEVATION / DEPTH OF SEAL: 15

TYPE OF SEAL: BENTONITE CHIPS

ELEVATION / DEPTH TOP OF FILTER PACK: 16

ELEVATION / DEPTH TOP OF SCREEN: 17

TYPE OF SCREEN: PVC

SLOT SIZE X LENGTH: 10

I.D. OF SCREEN: 1/4

TYPE OF FILTER PACK: SILICA SAND

ELEVATION / DEPTH BOTTOM OF SCREEN: 17

ELEVATION / DEPTH BOTTOM OF FILTER PACK: 17

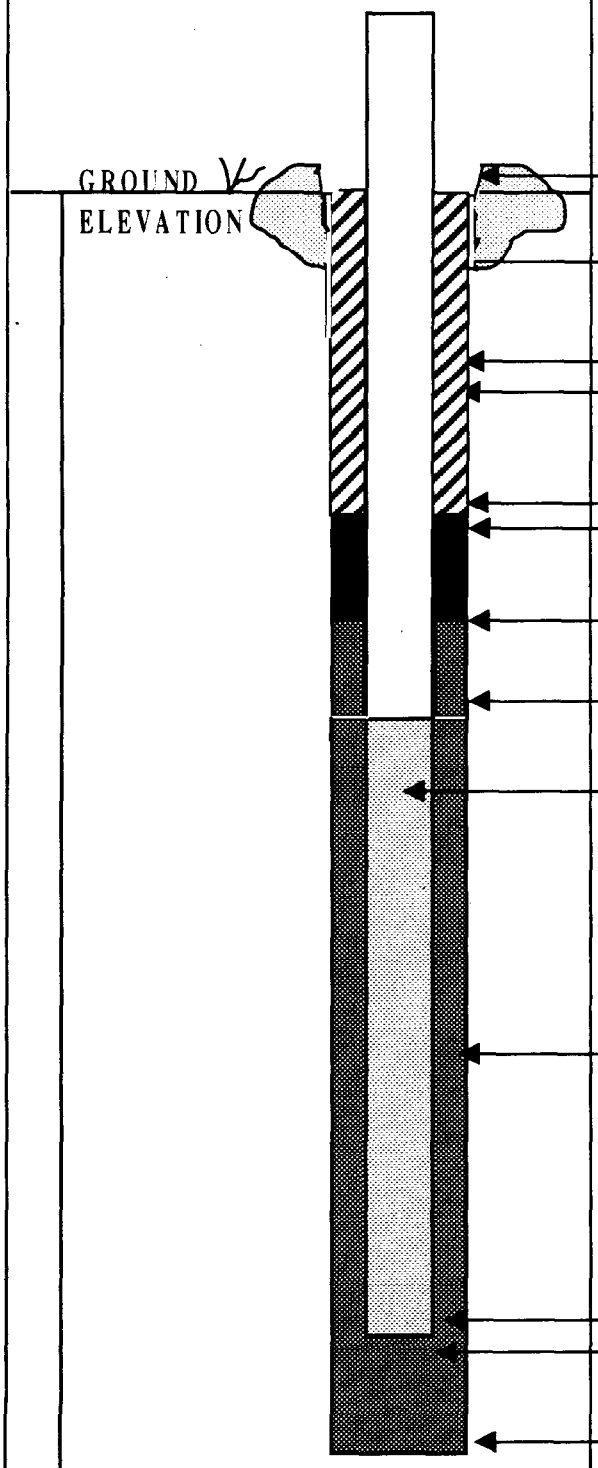
TYPE OF BACKFILL BELOW WELL: N/A

ELEVATION / DEPTH OF BOREHOLE: 17

BORING NO.: 3TW4

Tetra Tech NUS, Inc. **TEMPORARY MONITORING WELL SHEET**

PROJECT:	NSB NEW LONDON	DRILLING Co.:	TDS	BORING No.:	3TW4
PROJECT No.:	7856 CTO 0312	DRILLER:	VITONE	DATE COMPLETED:	6-3-05
SITE:		DRILLING METHOD:	DPT	NORTHING:	
GEOLOGIST:	STAN CONTI	DEV. METHOD:	PERISTALTIC	EASTING:	



GROUND ELEVATION:

TYPE OF SURFACE SEAL: NA

RISER PIPE I.D.: 1¼

TYPE OF RISER PIPE: PVC

BOREHOLE DIAMETER: 3"

TYPE OF SEAL: NA

ELEVATION / DEPTH OF SEAL: 13

TYPE OF SEAL: BENTONITE CHIPS

ELEVATION / DEPTH TOP OF FILTER PACK: 14

ELEVATION / DEPTH TOP OF SCREEN: 15

TYPE OF SCREEN: PVC

SLOT SIZE X LENGTH: 10

I.D. OF SCREEN: 1¼"

TYPE OF FILTER PACK: SILICA SAND

ELEVATION / DEPTH BOTTOM OF SCREEN: 15

ELEVATION / DEPTH BOTTOM OF FILTER PACK: 16

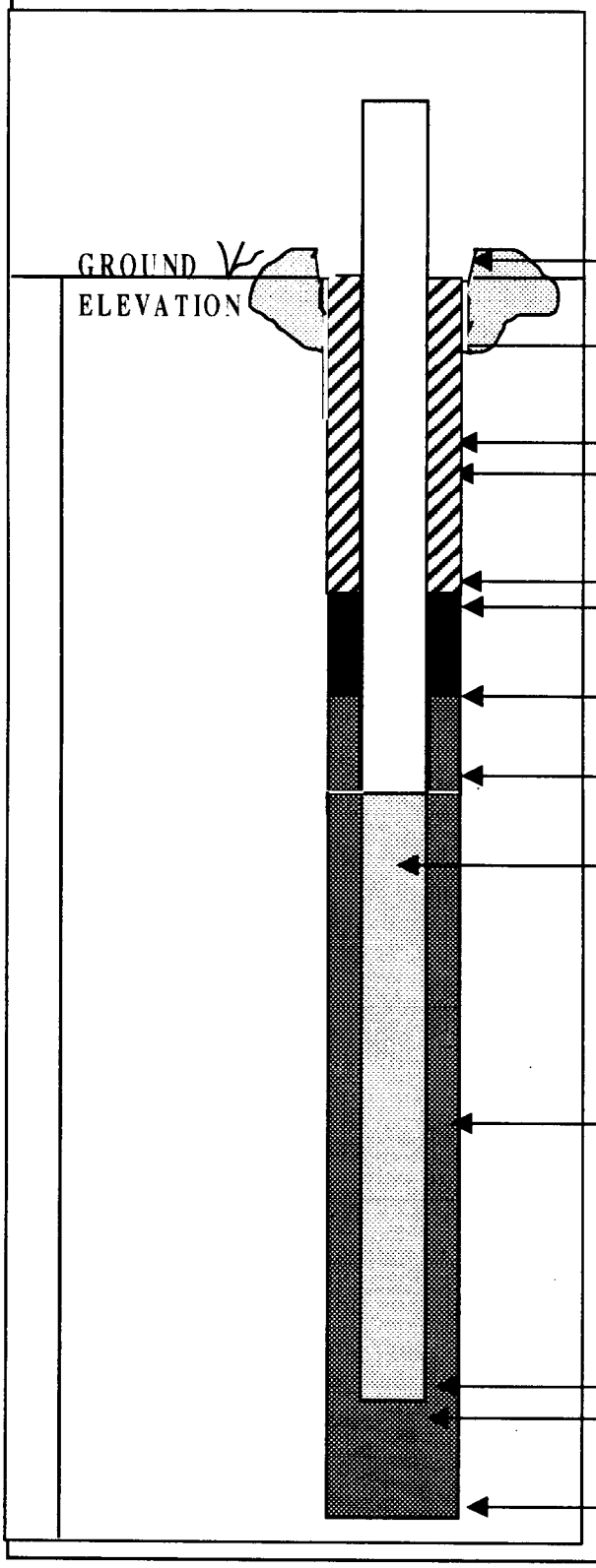
TYPE OF BACKFILL BELOW WELL: SAND

ELEVATION / DEPTH OF BOREHOLE: 16

BORING NO.: 3TMW2

Tetra Tech NUS, Inc. **TEMPORARY MONITORING WELL SHEET**

PROJECT:	NSB NEW LONDON	DRILLING Co.:	TDS	BORING No.:	3TMW2
PROJECT No.:	7856 CTO 0312	DRILLER:	VITONE	DATE COMPLETED:	6-8-00
SITE:		DRILLING METHOD:	DPT	NORTHING:	
GEOLOGIST:	STAN CONTI	DEV. METHOD:	PERISTALTIC	EASTING:	



GROUND ELEVATION:

TYPE OF SURFACE SEAL: NA

RISER PIPE I.D.: 1¼"

TYPE OF RISER PIPE: PVC

BOREHOLE DIAMETER: 3"

TYPE OF SEAL: NA

ELEVATION / DEPTH OF SEAL: /17

TYPE OF SEAL: BENTONITE CHIPS

ELEVATION / DEPTH TOP OF FILTER PACK: /18

ELEVATION / DEPTH TOP OF SCREEN: /19

TYPE OF SCREEN: PVC

SLOT SIZE X LENGTH: 10

I.D. OF SCREEN: 1¼"

TYPE OF FILTER PACK: SILICA SAND

ELEVATION / DEPTH BOTTOM OF SCREEN: /24

ELEVATION / DEPTH BOTTOM OF FILTER PACK: /24

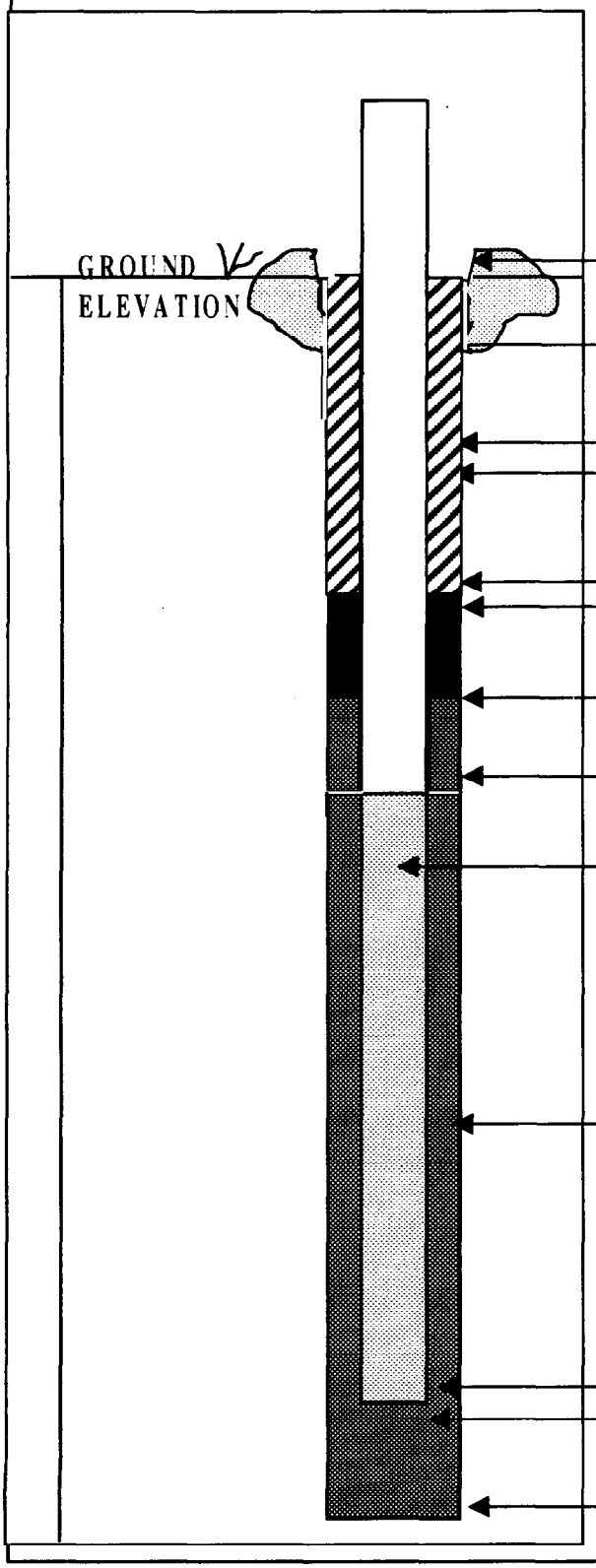
TYPE OF BACKFILL BELOW WELL: NA

ELEVATION / DEPTH OF BOREHOLE: /24

BORING NO.: 3TW15

Tetra Tech NUS, Inc. **TEMPORARY MONITORING WELL SHEET**

PROJECT:	NSB NEW LONDON	DRILLING Co.:	TDS	BORING No.:	3TW15
PROJECT No.:	7856 CTO 0312	DRILLER:	VITONE	DATE COMPLETED:	6-8-00
SITE:		DRILLING METHOD:	DPT	NORTHING:	
GEOLOGIST:	STAN CONTI	DEV. METHOD:	BAILER	EASTING:	



GROUND ELEVATION:

TYPE OF SURFACE SEAL: NA

RISER PIPE I.D.: 1 1/4"

TYPE OF RISER PIPE: PVC

BOREHOLE DIAMETER: 3

TYPE OF SEAL: NA

ELEVATION / DEPTH OF SEAL: /21

TYPE OF SEAL: BENTONITE CHIPS

ELEVATION / DEPTH TOP OF FILTER PACK: /22

ELEVATION / DEPTH TOP OF SCREEN: /23

TYPE OF SCREEN: PVC

SLOT SIZE X LENGTH: 10

I.D. OF SCREEN: 1 1/4"

TYPE OF FILTER PACK: SILICA SAND

ELEVATION / DEPTH BOTTOM OF SCREEN: /28

ELEVATION / DEPTH BOTTOM OF FILTER PACK: /28

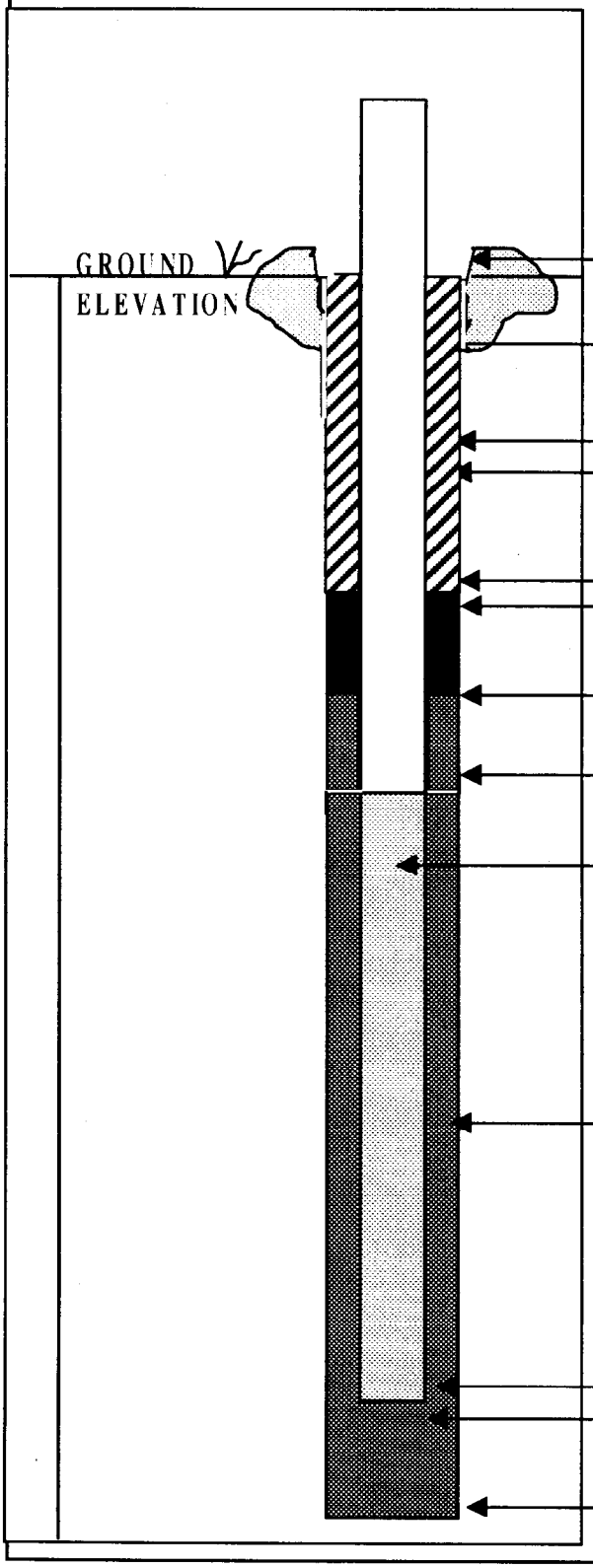
TYPE OF BACKFILL BELOW WELL: NA

ELEVATION / DEPTH OF BOREHOLE: /28

BORING NO.: 3TW17

Tetra Tech NUS, Inc. **TEMPORARY MONITORING WELL SHEET**

PROJECT:	NSB NEW LONDON	DRILLING Co.:	TDS	BORING No.:	3TW17
PROJECT No.:	7856 CTO 0312	DRILLER:	VITONE	DATE COMPLETED:	6-7-00
SITE:	3	DRILLING METHOD:	DPT	NORTHING:	
GEOLOGIST:	STAN CONTI	DEV. METHOD:	PERISTALTIC	EASTING:	



GROUND ELEVATION:

TYPE OF SURFACE SEAL: N/A

RISER PIPE I.D.: 1¼"

TYPE OF RISER PIPE: PVC

BOREHOLE DIAMETER: 3"

TYPE OF SEAL: BENTONITE CHIPS

ELEVATION / DEPTH OF SEAL: 15

TYPE OF SEAL:

ELEVATION / DEPTH TOP OF FILTER PACK: 16

ELEVATION / DEPTH TOP OF SCREEN: 17

TYPE OF SCREEN: PVC

SLOT SIZE X LENGTH: 10

I.D. OF SCREEN: 1¼

TYPE OF FILTER PACK: SILICA SAND

ELEVATION / DEPTH BOTTOM OF SCREEN: 12

ELEVATION / DEPTH BOTTOM OF FILTER PACK: 12

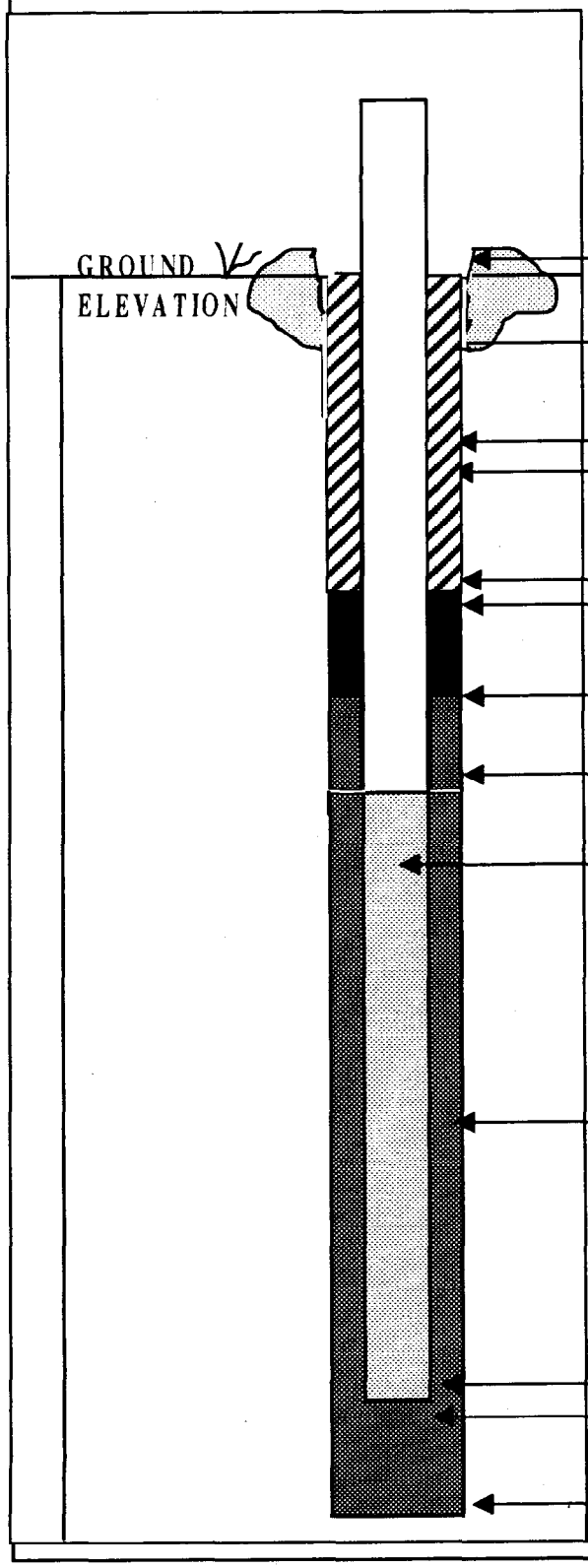
TYPE OF BACKFILL BELOW WELL: N/A

ELEVATION / DEPTH OF BOREHOLE: 12

BORING NO.: 3TW22

Tetra Tech NUS, Inc. **TEMPORARY MONITORING WELL SHEET**

PROJECT:	NSB NEW LONDON	DRILLING Co.:	TDS	BORING No.:	3TW22
PROJECT No.:	7856 CTO 0312	DRILLER:	VITONE	DATE COMPLETED:	6-7-00
SITE:	3	DRILLING METHOD:	DPT	NORTHING:	
GEOLOGIST:	STAN CONTI	DEV. METHOD:	PERISTALTIC	EASTING:	



GROUND ELEVATION:

TYPE OF SURFACE SEAL: NA

RISER PIPE I.D.: 1¼

TYPE OF RISER PIPE: PVC

BOREHOLE DIAMETER: 3"

TYPE OF SEAL: NA

ELEVATION / DEPTH OF SEAL: /

TYPE OF SEAL: NA

ELEVATION / DEPTH TOP OF FILTER PACK: /

ELEVATION / DEPTH TOP OF SCREEN: /2

TYPE OF SCREEN: PVC

SLOT SIZE X LENGTH: 10

I.D. OF SCREEN: 1¼" Φ

TYPE OF FILTER PACK: ~~SILICA SAND~~ NA

ELEVATION / DEPTH BOTTOM OF SCREEN: /12

ELEVATION / DEPTH BOTTOM OF FILTER PACK: / NA

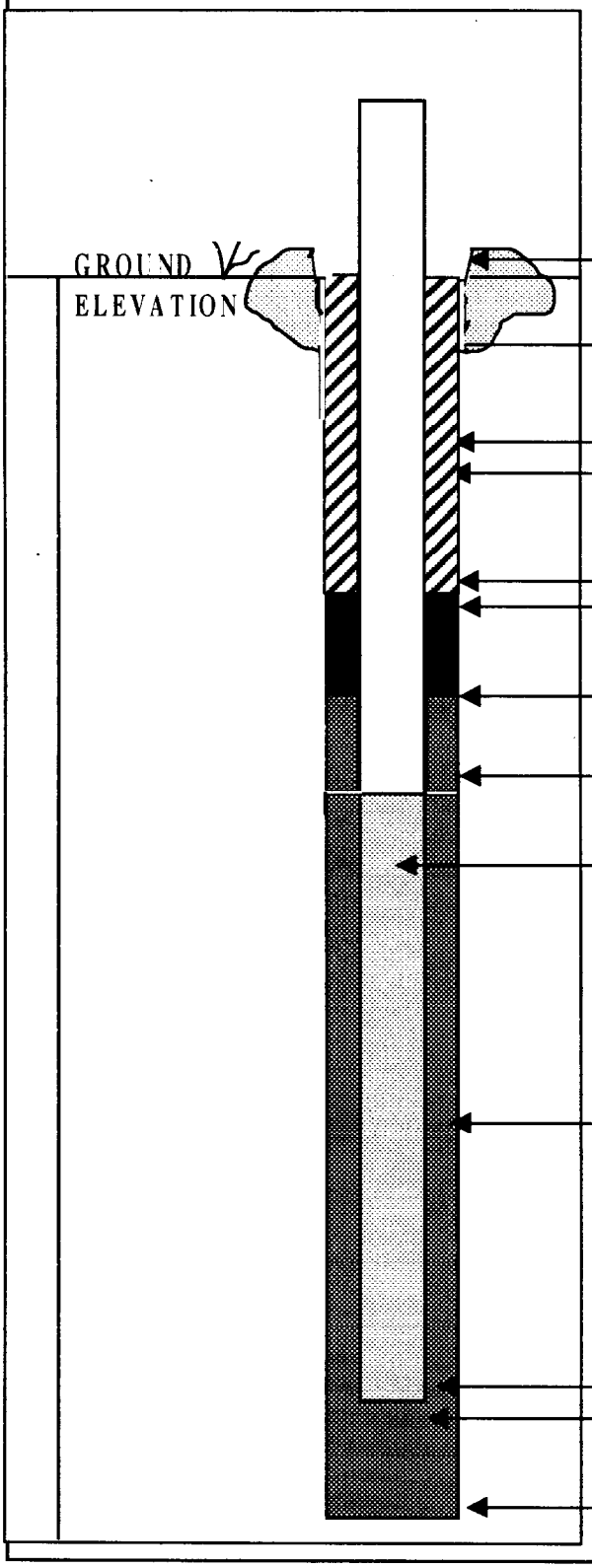
TYPE OF BACKFILL BELOW WELL: CAVED

ELEVATION / DEPTH OF BOREHOLE: /16

BORING NO: 3TW25

Tetra Tech NUS, Inc. **TEMPORARY MONITORING WELL SHEET**

PROJECT:	NSB NEW LONDON	DRILLING Co.:	TDS	BORING No.:	3TW25
PROJECT No.:	7856 CTO 0312	DRILLER:	VITONE	DATE COMPLETED:	6-9-00
SITE:		DRILLING METHOD:	DPT	NORTHING:	
GEOLOGIST:	STAN CONTI	DEV. METHOD:	PERISTALTIC	EASTING:	



GROUND ELEVATION:

TYPE OF SURFACE SEAL: NA

RISER PIPE I.D.: 1¼

TYPE OF RISER PIPE: PVC

BOREHOLE DIAMETER: 3

TYPE OF SEAL: NA

ELEVATION / DEPTH OF SEAL: /2

TYPE OF SEAL: BENTONITE CHIPS

ELEVATION / DEPTH TOP OF FILTER PACK: /3

ELEVATION / DEPTH TOP OF SCREEN: /4

TYPE OF SCREEN: PVC

SLOT SIZE X LENGTH: 10

I.D. OF SCREEN: 1¼

TYPE OF FILTER PACK: SILICA SAND

ELEVATION / DEPTH BOTTOM OF SCREEN: /9

ELEVATION / DEPTH BOTTOM OF FILTER PACK: /10

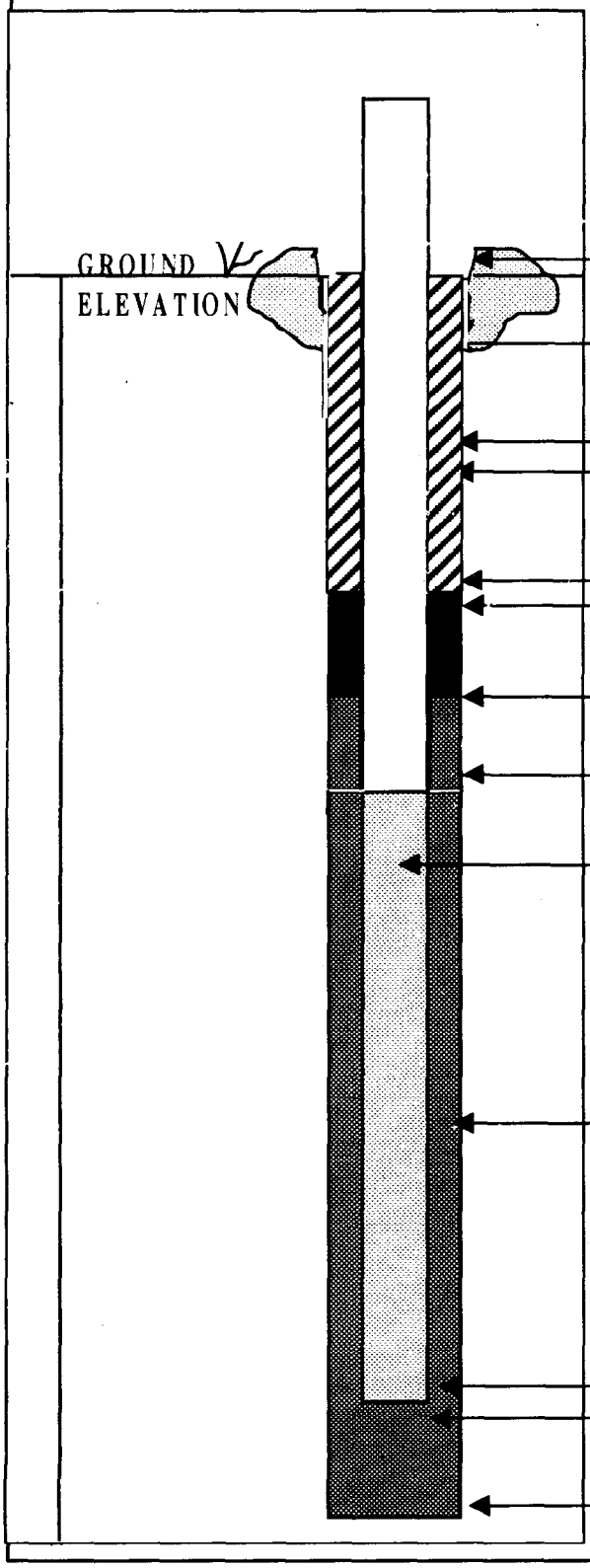
TYPE OF BACKFILL BELOW WELL: SAND

ELEVATION / DEPTH OF BOREHOLE: /10

BORING NO.: 7TW1

Tetra Tech NUS, Inc. **TEMPORARY MONITORING WELL SHEET**

PROJECT:	NSB NEW LONDON	DRILLING Co.:	TDS	BORING No.:	7TW1
PROJECT No.:	7856 CTO 0312	DRILLER:	ZORK	DATE COMPLETED:	6-10-00
SITE:		DRILLING METHOD:	DPT	NORTHING:	
GEOLOGIST:	STAN CONTI	DEV. METHOD:	PERISTALTIC	EASTING:	



GROUND ELEVATION:

TYPE OF SURFACE SEAL: NA

RISER PIPE I.D.: 1 1/4"

TYPE OF RISER PIPE: PVC

BOREHOLE DIAMETER: 3

TYPE OF SEAL: NA

ELEVATION / DEPTH OF SEAL: 16

TYPE OF SEAL: BENTONITE CHIPS

ELEVATION / DEPTH TOP OF FILTER PACK: 17

ELEVATION / DEPTH TOP OF SCREEN: 18

TYPE OF SCREEN: PVC

SLOT SIZE X LENGTH: 10 SL

I.D. OF SCREEN: 1 1/4

TYPE OF FILTER PACK: SILICA SAND

ELEVATION / DEPTH BOTTOM OF SCREEN: 13

ELEVATION / DEPTH BOTTOM OF FILTER PACK: 13

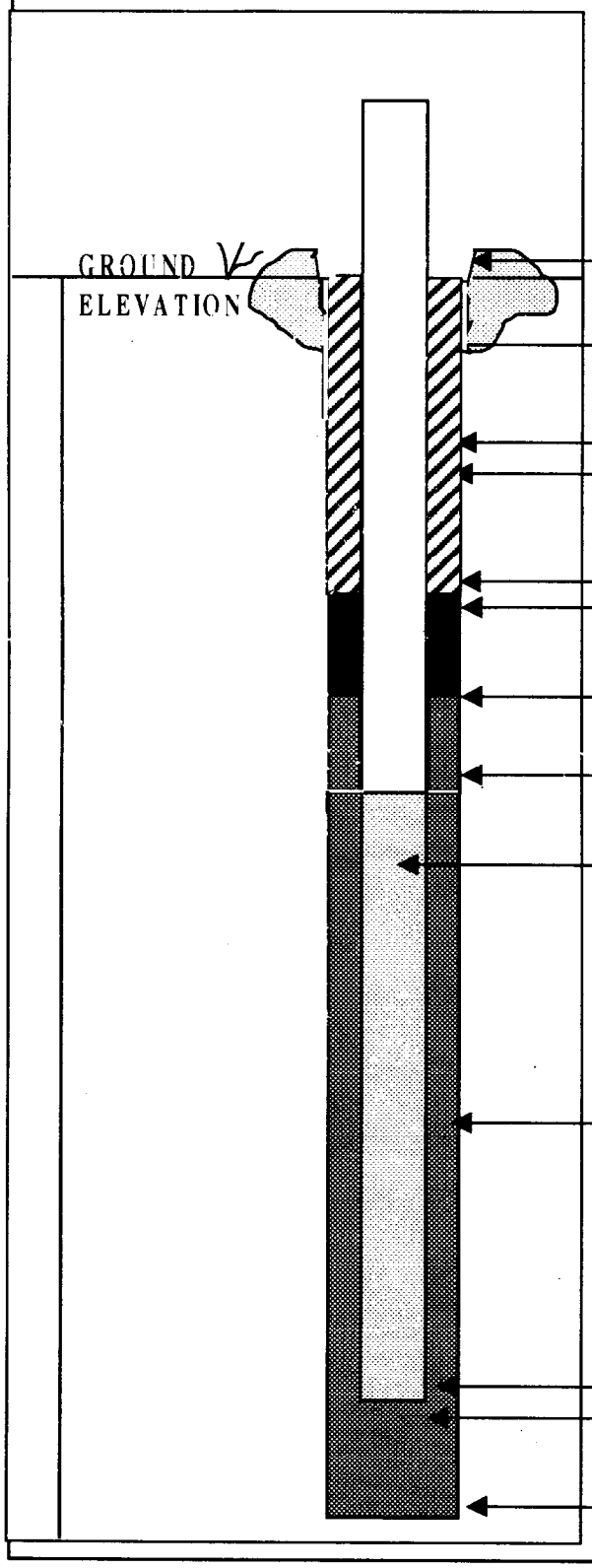
TYPE OF BACKFILL BELOW WELL: NA

ELEVATION / DEPTH OF BOREHOLE: 13

BORING NO.: 7TW2

Tetra Tech NUS, Inc. **TEMPORARY MONITORING WELL SHEET**

PROJECT:	NSB NEW LONDON	DRILLING Co.:	TDS	BORING No.:	7TW2
PROJECT No.:	7856 CTO 0312	DRILLER:	ZORK	DATE COMPLETED:	[illegible]
SITE:		DRILLING METHOD:	DPT	NORTHING:	
GEOLOGIST:	STAN CONTI	DEV. METHOD:	PERMANENT	EASTING:	



GROUND ELEVATION:

TYPE OF SURFACE SEAL: N/A

RISER PIPE I.D.: [illegible]

TYPE OF RISER PIPE: PVC

BOREHOLE DIAMETER: 3

TYPE OF SEAL: N/A

ELEVATION / DEPTH OF SEAL: 15

TYPE OF SEAL: BENTONITE [illegible]

ELEVATION / DEPTH TOP OF FILTER PACK: 16

ELEVATION / DEPTH TOP OF SCREEN: 17

TYPE OF SCREEN: PVC

SLOT SIZE X LENGTH: 10

I.D. OF SCREEN: 1 1/4

TYPE OF FILTER PACK: SILICA SAND

ELEVATION / DEPTH BOTTOM OF SCREEN: 12

ELEVATION / DEPTH BOTTOM OF FILTER PACK: 12

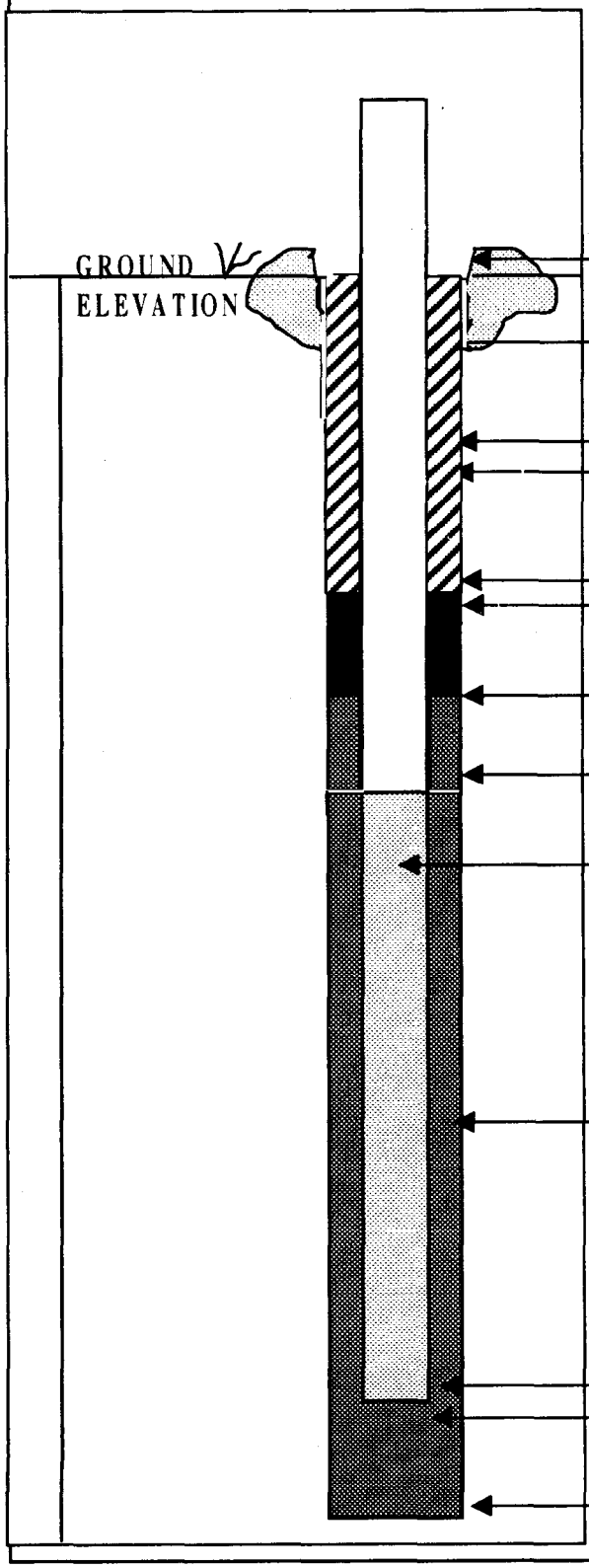
TYPE OF BACKFILL BELOW WELL: N/A

ELEVATION / DEPTH OF BOREHOLE: 12

BORING NO.: 7TW3

Tetra Tech NUS, Inc. **TEMPORARY MONITORING WELL SHEET**

PROJECT:	NSB NEW LONDON	DRILLING Co.:	TDS	BORING No.:	7TW3
PROJECT No.:	7856 CTO 0312	DRILLER:	ZORK	DATE COMPLETED:	6-[illegible]
SITE:		DRILLING METHOD:	DPT	NORTHING:	
GEOLOGIST:	STAN CONTI	DEV. METHOD:	PERISTALTIC	EASTING:	



GROUND ELEVATION:

TYPE OF SURFACE SEAL: NA

RISER PIPE I.D.: [illegible]

TYPE OF RISER PIPE: PVC

BOREHOLE DIAMETER: 5

TYPE OF SEAL: NA

ELEVATION / DEPTH OF SEAL: 14

TYPE OF SEAL: BENTONITE CHIPS

ELEVATION / DEPTH TOP OF FILTER PACK: 15

ELEVATION / DEPTH TOP OF SCREEN: 16

TYPE OF SCREEN: PVC

SLOT SIZE X LENGTH: 10

I.D. OF SCREEN: 1¼

TYPE OF FILTER PACK: SILICA SAND

ELEVATION / DEPTH BOTTOM OF SCREEN: 11

ELEVATION / DEPTH BOTTOM OF FILTER PACK: 12

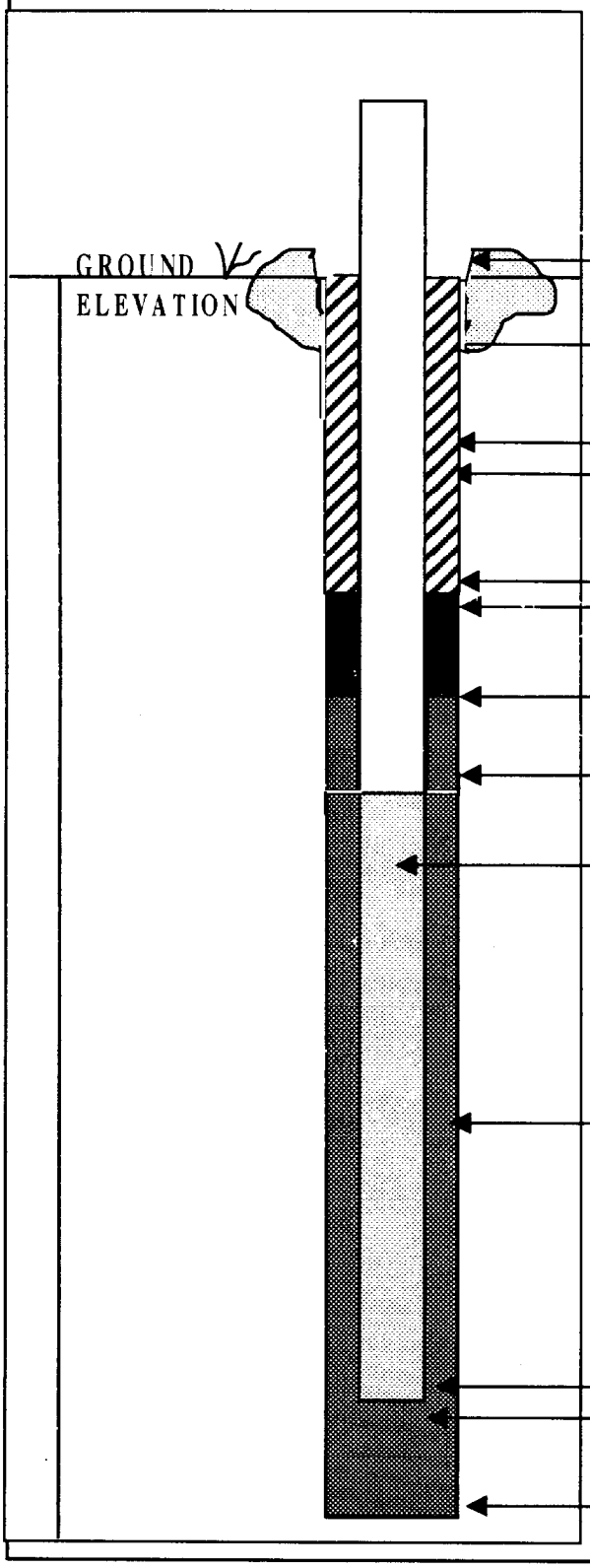
TYPE OF BACKFILL BELOW WELL: SAND/ CAVED

ELEVATION / DEPTH OF BOREHOLE: 12

BORING NO.: 7TW4

Tetra Tech NUS, Inc. **TEMPORARY MONITORING WELL SHEET**

PROJECT:	NSB NEW LONDON	DRILLING Co.:	TDS	BORING No.:	7TW4
PROJECT No.:	7856 CTO 0312	DRILLER:	VITONE	DATE COMPLETED:	6-7-00
SITE:		DRILLING METHOD:	DPT	NORTHING:	
GEOLOGIST:	STAN CONTI	DEV. METHOD:	PERISTALTIC	EASTING:	



GROUND ELEVATION:

TYPE OF SURFACE SEAL: N/A

RISER PIPE I.D.: N/A

TYPE OF RISER PIPE: PVC

BOREHOLE DIAMETER: 3"

TYPE OF SEAL: N/A

ELEVATION / DEPTH OF SEAL: 11

TYPE OF SEAL: BENTONITE CHIPS

ELEVATION / DEPTH TOP OF FILTER PACK: 12

ELEVATION / DEPTH TOP OF SCREEN: 13

TYPE OF SCREEN: PVC

SLOT SIZE X LENGTH: 10

I.D. OF SCREEN: 1/4

TYPE OF FILTER PACK: SILICA SAND

ELEVATION / DEPTH BOTTOM OF SCREEN: 18

ELEVATION / DEPTH BOTTOM OF FILTER PACK: 10

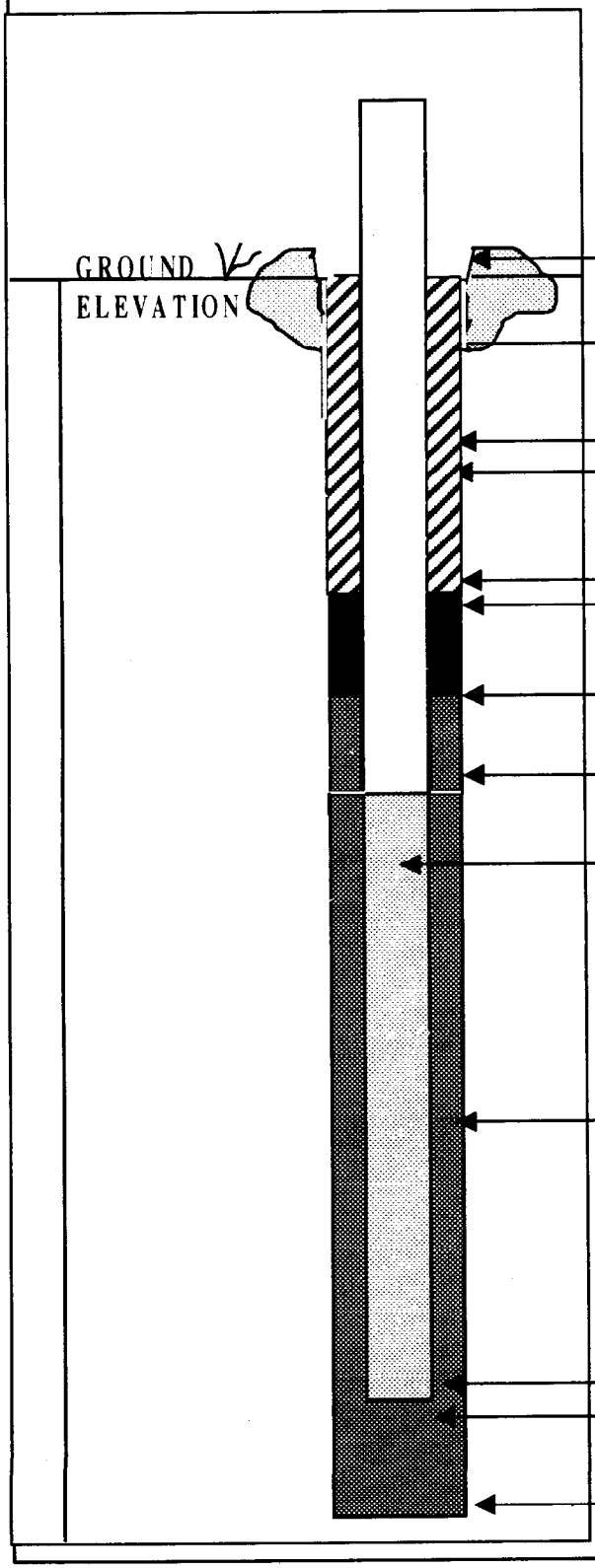
TYPE OF BACKFILL BELOW WELL: SAND/CAVED

ELEVATION / DEPTH OF BOREHOLE: 10

BORING NO.: 7TW5

Tetra Tech NUS, Inc. **TEMPORARY MONITORING WELL SHEET**

PROJECT:	NSB NEW LONDON	DRILLING Co.:	TDS	BORING No.:	7TW5
PROJECT No.:	7856 CTO 0312	DRILLER:	VITONE	DATE COMPLETED:	6-9-00
SITE:		DRILLING METHOD:	DPT	NORTHING:	
GEOLOGIST:	STAN CONTI	DEV. METHOD:	PERISTALTIC	EASTING:	



GROUND ELEVATION:

TYPE OF SURFACE SEAL: NA

RISER PIPE I.D.: 1¼

TYPE OF RISER PIPE: PVC

BOREHOLE DIAMETER: 3

TYPE OF SEAL: N/A

ELEVATION / DEPTH OF SEAL: 10

TYPE OF SEAL: BENTONITE CHIPS

ELEVATION / DEPTH TOP OF FILTER PACK: 1.5

ELEVATION / DEPTH TOP OF SCREEN: 11

TYPE OF SCREEN: PVC

SLOT SIZE X LENGTH: 10

I.D. OF SCREEN: 1¼

TYPE OF FILTER PACK: SILICA SAND

ELEVATION / DEPTH BOTTOM OF SCREEN: 111

ELEVATION / DEPTH BOTTOM OF FILTER PACK: 112

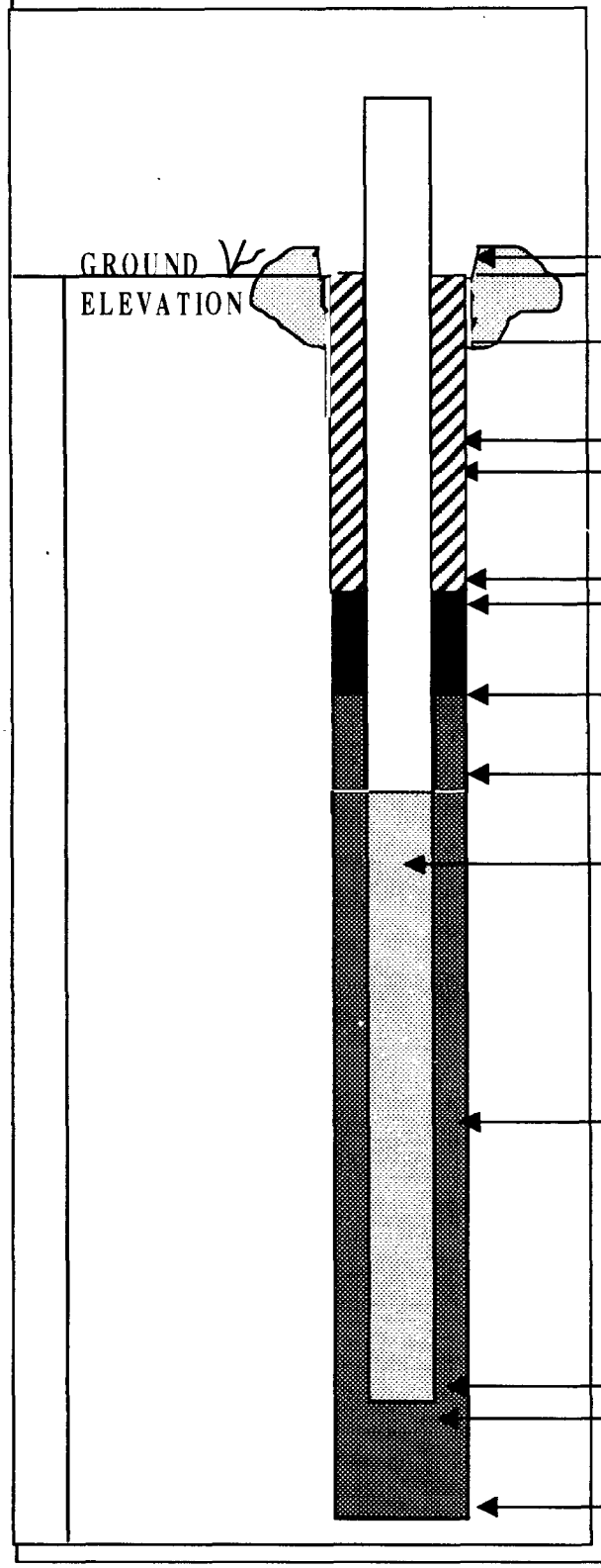
TYPE OF BACKFILL BELOW WELL: SAND

ELEVATION / DEPTH OF BOREHOLE: 112

BORING NO.: 7TW6

Tetra Tech NUS, Inc. **TEMPORARY MONITORING WELL SHEET**

PROJECT:	NSB NEW LONDON	DRILLING Co.:	TDS	BORING No.:	7TW6
PROJECT No.:	7856 CTO 0312	DRILLER:	VITONE	DATE COMPLETED:	1-9-00
SITE:		DRILLING METHOD:	DPT	NORTHING:	
GEOLOGIST:	STAN CONTI	DEV. METHOD:	PERISTALTIC	EASTING:	



GROUND ELEVATION:

TYPE OF SURFACE SEAL: N/A

RISER PIPE I.D.: 1 1/4

TYPE OF RISER PIPE: PVC

BOREHOLE DIAMETER: 3

TYPE OF SEAL: N/A

ELEVATION / DEPTH OF SEAL: 10

TYPE OF SEAL: BENTONITE SEAL

ELEVATION / DEPTH TOP OF FILTER PACK: 11

ELEVATION / DEPTH TOP OF SCREEN: 12

TYPE OF SCREEN: PVC

SLOT SIZE X LENGTH: 10

I.D. OF SCREEN: 1 1/4

TYPE OF FILTER PACK: SILICA SAND

ELEVATION / DEPTH BOTTOM OF SCREEN: 12

ELEVATION / DEPTH BOTTOM OF FILTER PACK: 12

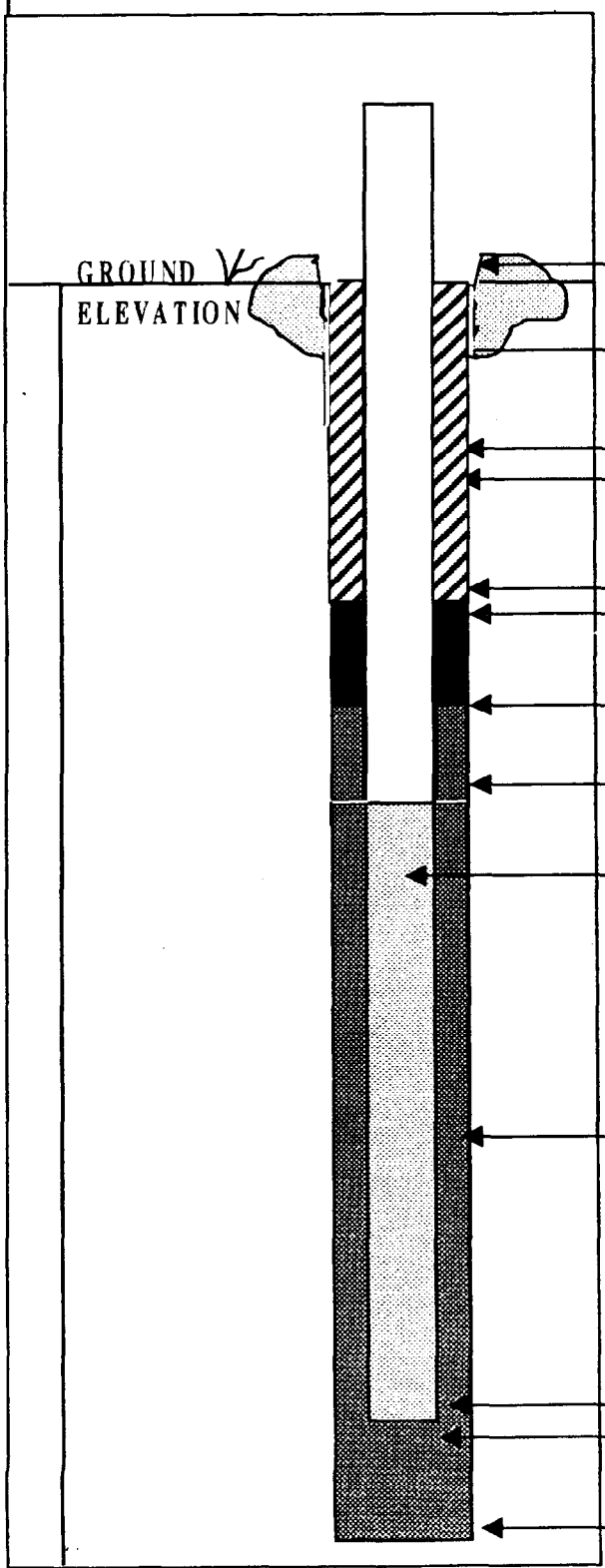
TYPE OF BACKFILL BELOW WELL: N/A

ELEVATION / DEPTH OF BOREHOLE: 12

BORING NO.: 7TW7

Tetra Tech NUS, Inc. **TEMPORARY MONITORING WELL SHEET**

PROJECT:	NSB NEW LONDON	DRILLING Co.:	TDS	BORING No.:	7TW7
PROJECT No.:	7856 CTO 0312	DRILLER:	ZORK	DATE COMPLETED:	6-10-00
SITE:		DRILLING METHOD:	DPT	NORTHING:	
GEOLOGIST:	STAN CONTI	DEV. METHOD:	PERISTALTIC	EASTING:.	



GROUND ELEVATION:

TYPE OF SURFACE SEAL: NA

RISER PIPE I.D.: 1 1/4"

TYPE OF RISER PIPE: PVC

BOREHOLE DIAMETER: 3"

TYPE OF SEAL: NA

ELEVATION / DEPTH OF SEAL: 10

TYPE OF SEAL: BENTONITE CHIPS

ELEVATION / DEPTH TOP OF FILTER PACK: 11

ELEVATION / DEPTH TOP OF SCREEN: 12

TYPE OF SCREEN: PVC

SLOT SIZE X LENGTH: 10

I.D. OF SCREEN: 1 1/4

TYPE OF FILTER PACK: SILICA SAND

ELEVATION / DEPTH BOTTOM OF SCREEN: 17

ELEVATION / DEPTH BOTTOM OF FILTER PACK: 13

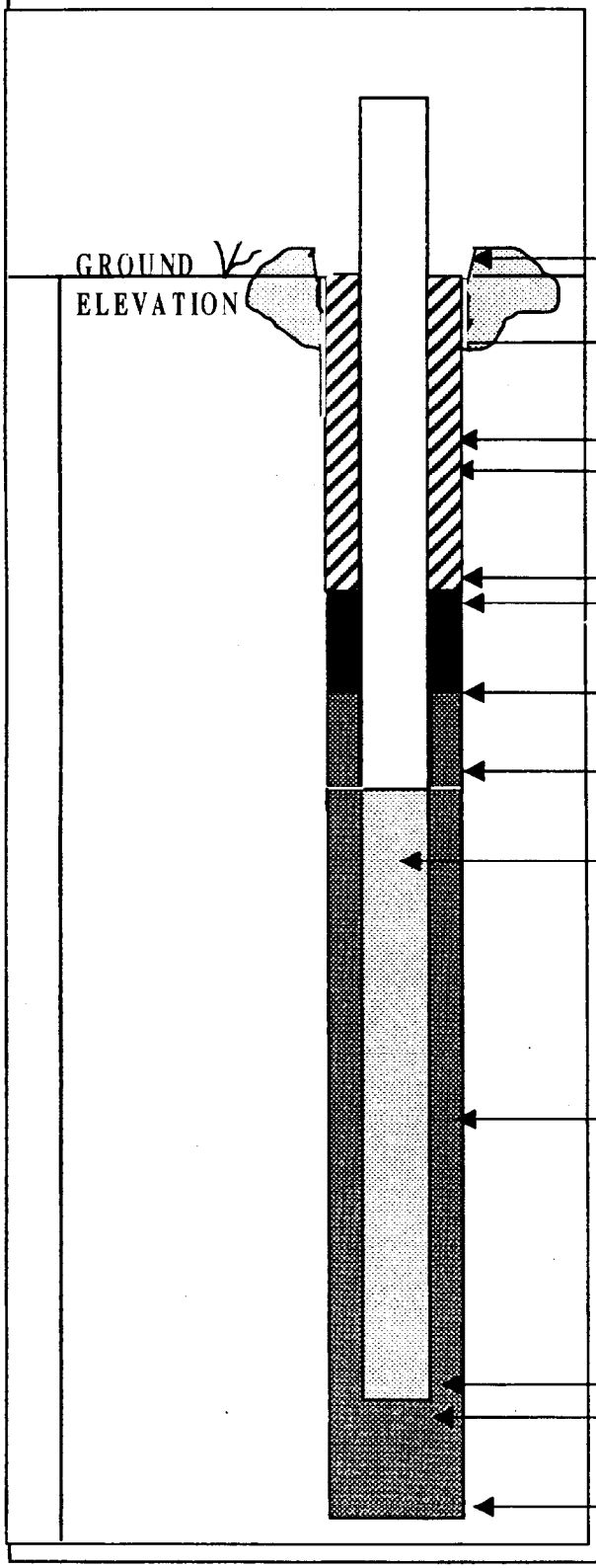
TYPE OF BACKFILL BELOW WELL: SAND

ELEVATION / DEPTH OF BOREHOLE: 17.5

BORING NO.: 7TW8

Tetra Tech NUS, Inc. **TEMPORARY MONITORING WELL SHEET**

PROJECT:	NSB NEW LONDON	DRILLING Co.:	TDS	BORING No.:	7TW8
PROJECT No.:	7856 CTO 0312	DRILLER:	VITONE	DATE COMPLETED:	6-13-00
SITE:		DRILLING METHOD:	DPT	NORTHING:	
GEOLOGIST:	STAN CONTI	DEV. METHOD:	PERISTALTIC	EASTING:	



GROUND ELEVATION:

TYPE OF SURFACE SEAL: NA

RISER PIPE I.D.: 1 1/4"

TYPE OF RISER PIPE: PVC

BOREHOLE DIAMETER: 3"

TYPE OF SEAL: NA

ELEVATION / DEPTH OF SEAL: 10

TYPE OF SEAL: BENTONITE CHIPS

ELEVATION / DEPTH TOP OF FILTER PACK: 11

ELEVATION / DEPTH TOP OF SCREEN: 12

TYPE OF SCREEN: PVC

SLOT SIZE X LENGTH: 10

I.D. OF SCREEN: 1 1/4

TYPE OF FILTER PACK: SILICA SAND

ELEVATION / DEPTH BOTTOM OF SCREEN: 12

ELEVATION / DEPTH BOTTOM OF FILTER PACK: 12

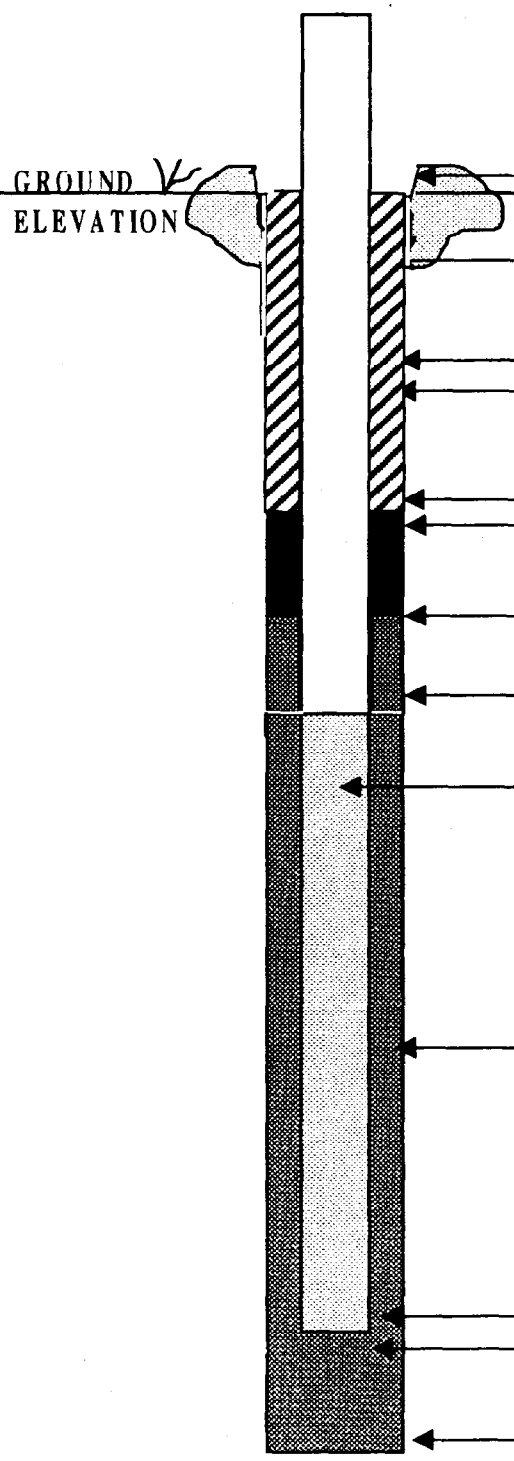
TYPE OF BACKFILL BELOW WELL: NA

ELEVATION / DEPTH OF BOREHOLE: 12

BORING NO.: 7TW9

Tetra Tech NUS, Inc. **TEMPORARY MONITORING WELL SHEET**

PROJECT:	NSB NEW LONDON	DRILLING Co.:	TDS	BORING No.:	7TW9
PROJECT No.:	7856 CTO 0312	DRILLER:	VITONE	DATE COMPLETED:	6-13-00
SITE:		DRILLING METHOD:	DPT	NORTHING:	
GEOLOGIST:	STAN CONTI	DEV. METHOD:	PERISTALTIC	EASTING:	



GROUND ELEVATION:

TYPE OF SURFACE SEAL: NA

RISER PIPE I.D.: 1 1/4"

TYPE OF RISER PIPE: PVC

BOREHOLE DIAMETER: 3"

TYPE OF SEAL: NA

ELEVATION / DEPTH OF SEAL: 10

TYPE OF SEAL: BENTONITE CHIPS

ELEVATION / DEPTH TOP OF FILTER PACK: 10.5

ELEVATION / DEPTH TOP OF SCREEN: 11

TYPE OF SCREEN: PVC

SLOT SIZE X LENGTH: 10

I.D. OF SCREEN: 1 1/4

TYPE OF FILTER PACK: SILICA SAND

ELEVATION / DEPTH BOTTOM OF SCREEN: 111

ELEVATION / DEPTH BOTTOM OF FILTER PACK: 11.

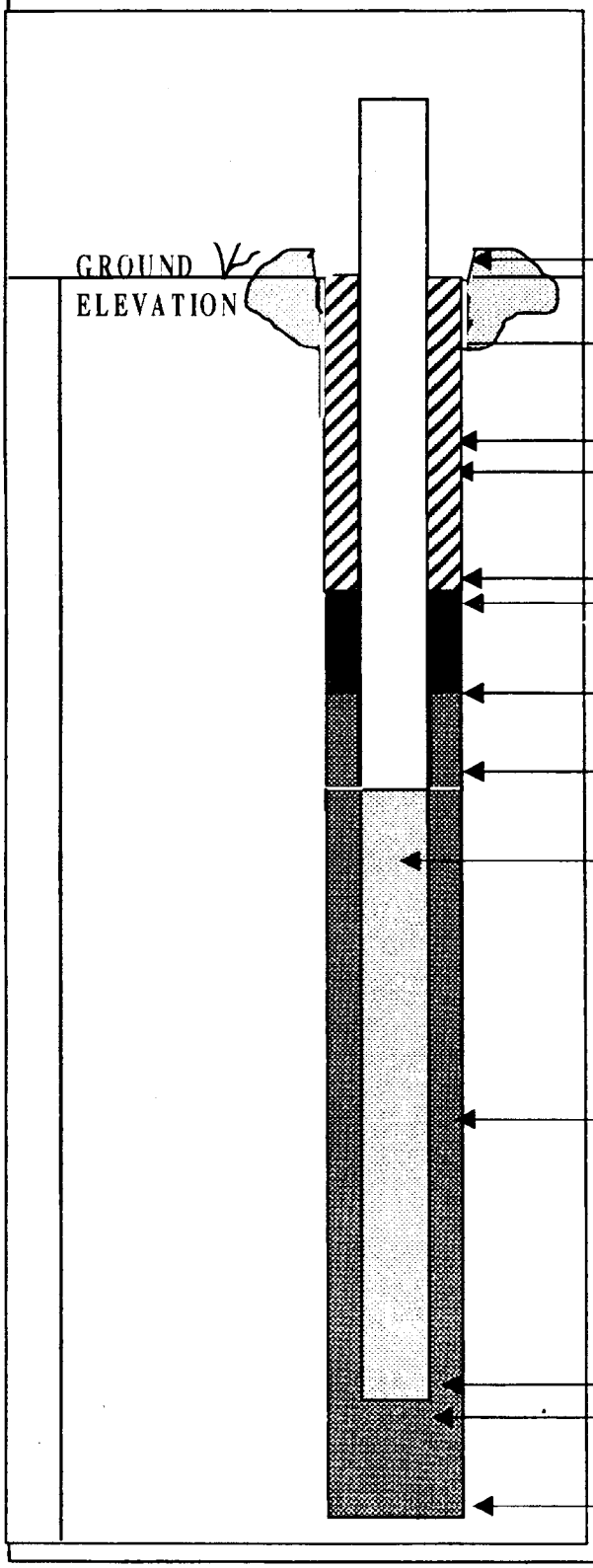
TYPE OF BACKFILL BELOW WELL: SAND

ELEVATION / DEPTH OF BOREHOLE: 112

BORING NO.: 7TW10

Tetra Tech NUS, Inc. **TEMPORARY MONITORING WELL SHEET**

PROJECT:	NSB NEW LONDON	DRILLING Co.:	TDS	BORING No.:	7TW10
PROJECT No.:	7856 CTO 0312	DRILLER:	VITONE	DATE COMPLETED:	6-13-00
SITE:		DRILLING METHOD:	DPT	NORTHING:	
GEOLOGIST:	STAN CONTI	DEV. METHOD:	PERISTALTIC	EASTING:	



GROUND ELEVATION:

TYPE OF SURFACE SEAL: NA

RISER PIPE I.D.: 1 1/4"

TYPE OF RISER PIPE: PVC

BOREHOLE DIAMETER: 3"

TYPE OF SEAL: NA

ELEVATION / DEPTH OF SEAL: 10

TYPE OF SEAL: BENTONITE CHIPS

ELEVATION / DEPTH TOP OF FILTER PACK: 10.5

ELEVATION / DEPTH TOP OF SCREEN: 11

TYPE OF SCREEN: PVC

SLOT SIZE X LENGTH: 10

I.D. OF SCREEN: 1 1/4

TYPE OF FILTER PACK: SILICA SAND

ELEVATION / DEPTH BOTTOM OF SCREEN: 11

ELEVATION / DEPTH BOTTOM OF FILTER PACK: 12

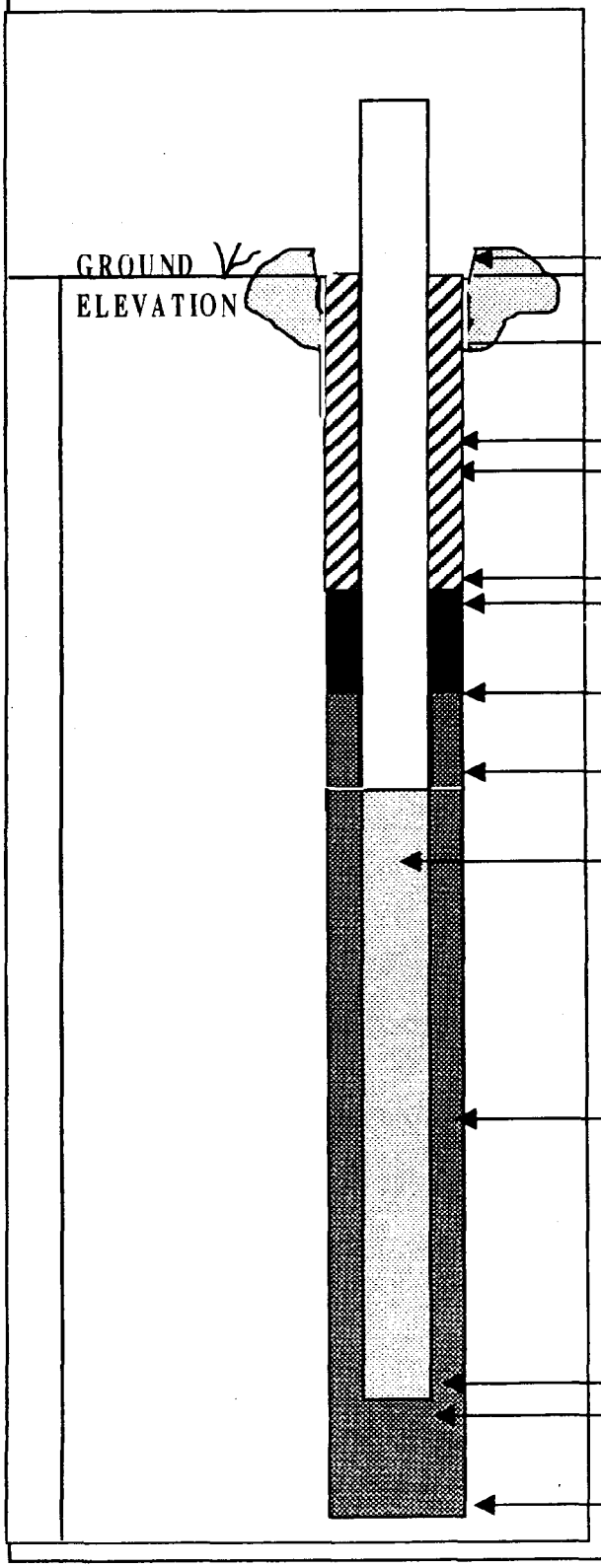
TYPE OF BACKFILL BELOW WELL: SAND

ELEVATION / DEPTH OF BOREHOLE: 12

BORING NO.: 18TW1

Tetra Tech NUS, Inc. **TEMPORARY MONITORING WELL SHEET**

PROJECT:	NSB NEW LONDON	DRILLING Co.:	TDS	BORING No.:	18TB1
PROJECT No.:	7856 CTO 0312	DRILLER:	VITONE	DATE COMPLETED:	6-12-00
SITE:		DRILLING METHOD:	DPT	NORTHING:	
GEOLOGIST:	STAN CONTI	DEV. METHOD:	PERISTALTIC	EASTING:	



GROUND ELEVATION:

TYPE OF SURFACE SEAL: NA

RISER PIPE I.D.: 1 1/4"

TYPE OF RISER PIPE: PVC

BOREHOLE DIAMETER: 3"

TYPE OF SEAL: NA

ELEVATION / DEPTH OF SEAL: 10

TYPE OF SEAL: BENTONITE CHIPS

ELEVATION / DEPTH TOP OF FILTER PACK: 10.5

ELEVATION / DEPTH TOP OF SCREEN: 11

TYPE OF SCREEN: PVC

SLOT SIZE X LENGTH: 10

I.D. OF SCREEN: 1 1/4

TYPE OF FILTER PACK: SILICA SAND

ELEVATION / DEPTH BOTTOM OF SCREEN: 16

ELEVATION / DEPTH BOTTOM OF FILTER PACK: 16

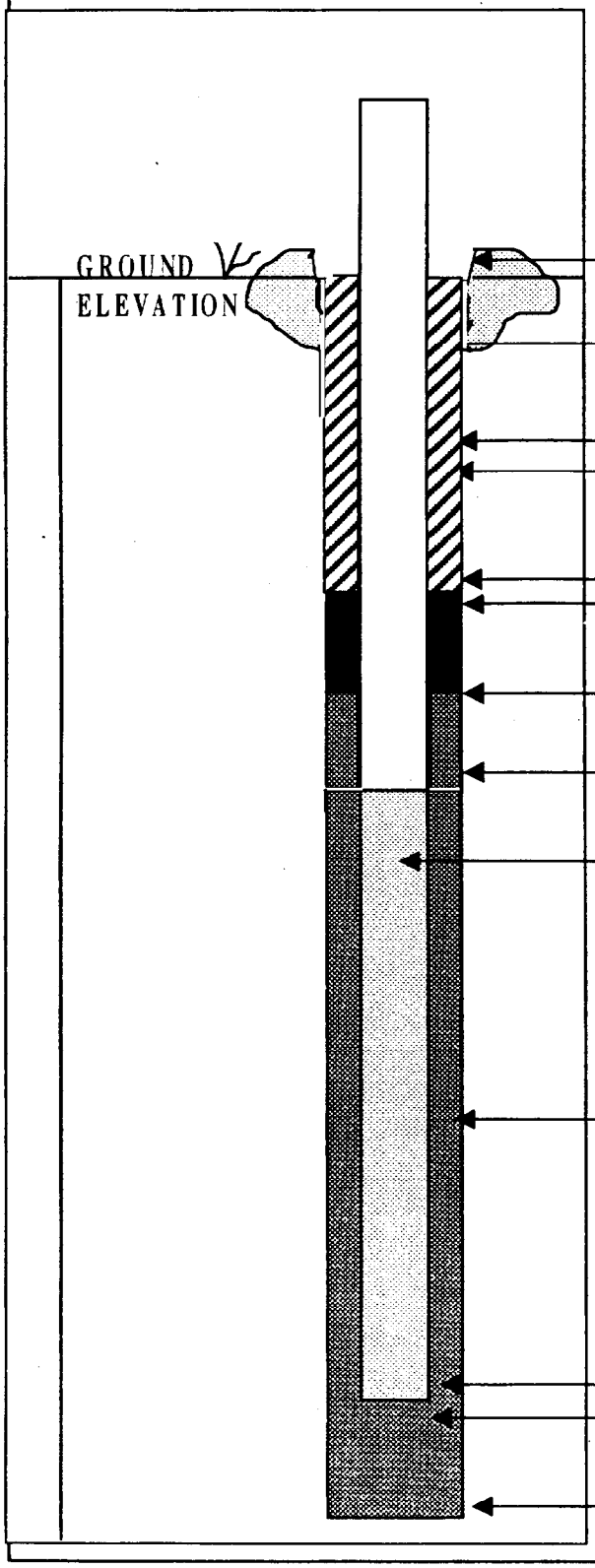
TYPE OF BACKFILL BELOW WELL:

ELEVATION / DEPTH OF BOREHOLE: 16

BORING NO.: 18TW2

Tetra Tech NUS, Inc. **TEMPORARY MONITORING WELL SHEET**

PROJECT:	NSB NEW LONDON	DRILLING Co.:	TDS	BORING No.:	18TB2
PROJECT No.:	7856 CTO 0312	DRILLER:		DATE COMPLETED:	
SITE:		DRILLING METHOD:	DPT	NORTHING:	
GEOLOGIST:	STAN CONTI	DEV. METHOD:	PERISTALTIC	EASTING:	



GROUND ELEVATION:

TYPE OF SURFACE SEAL: NA

RISER PIPE I.D.: 1 1/4"

TYPE OF RISER PIPE: PVC

BOREHOLE DIAMETER: 3"

TYPE OF SEAL: NA

ELEVATION / DEPTH OF SEAL: /1

TYPE OF SEAL: BENTONITE CHIPS

ELEVATION / DEPTH TOP OF FILTER PACK: /2

ELEVATION / DEPTH TOP OF SCREEN: /3

TYPE OF SCREEN: PVC

SLOT SIZE X LENGTH: 10

I.D. OF SCREEN: 1 1/4

TYPE OF FILTER PACK: SILICA SAND

ELEVATION / DEPTH BOTTOM OF SCREEN: /8

ELEVATION / DEPTH BOTTOM OF FILTER PACK: /8

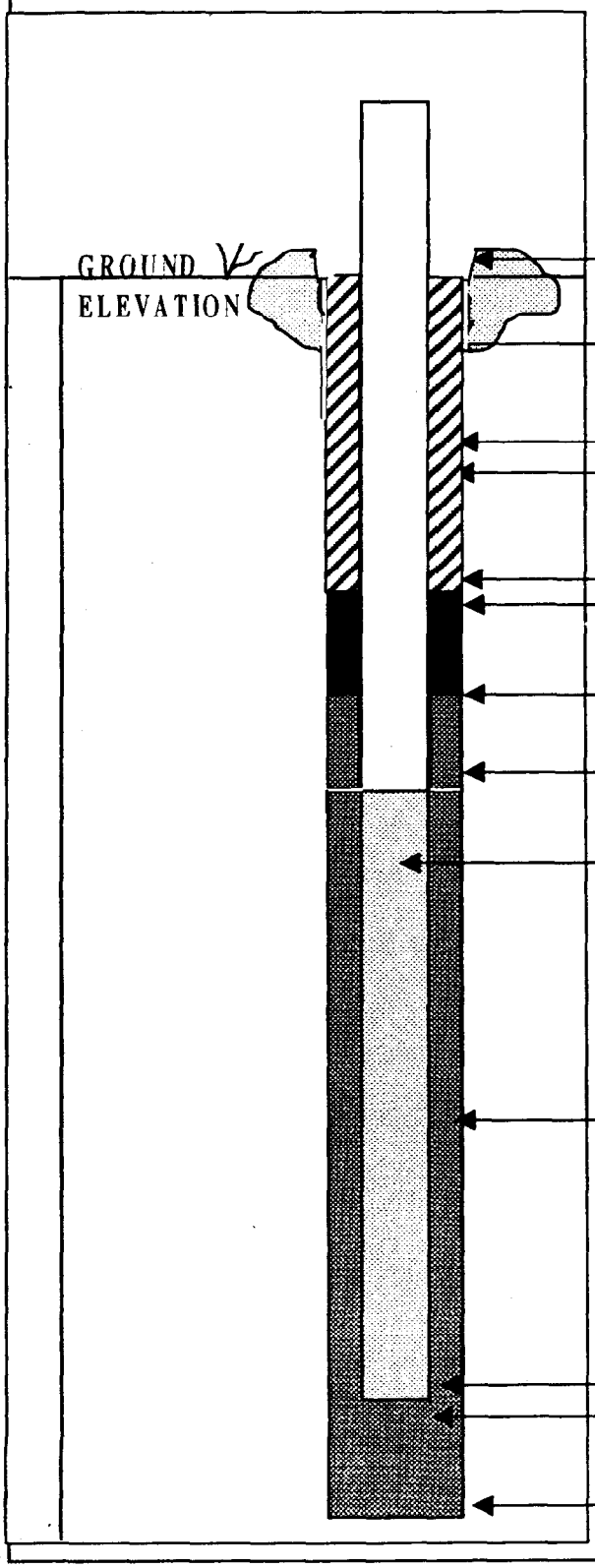
TYPE OF BACKFILL BELOW WELL: NA

ELEVATION / DEPTH OF BOREHOLE: /8

BORING NO.: 18TW4

Tetra Tech NUS, Inc. **TEMPORARY MONITORING WELL SHEET**

PROJECT:	NSB NEW LONDON	DRILLING Co.:	TDS	BORING No.:	18TB4
PROJECT No.:	7856 CTO 0312	DRILLER:	VITONE	DATE COMPLETED:	6-12-00
SITE:		DRILLING METHOD:	DPT	NORTHING:	
GEOLOGIST:	STAN CONTI	DEV. METHOD:	PERISTALTIC	EASTING:	



GROUND ELEVATION:

TYPE OF SURFACE SEAL: NA

RISER PIPE I.D.: 1 1/4"

TYPE OF RISER PIPE: PVC

BOREHOLE DIAMETER: 3"

TYPE OF SEAL: NA

ELEVATION / DEPTH OF SEAL: 10

TYPE OF SEAL: BENTONITE CHIPS

ELEVATION / DEPTH TOP OF FILTER PACK: 11

ELEVATION / DEPTH TOP OF SCREEN: 12

TYPE OF SCREEN: PVC

SLOT SIZE X LENGTH: 10

I.D. OF SCREEN: 1 1/4

TYPE OF FILTER PACK: SILICA SAND

ELEVATION / DEPTH BOTTOM OF SCREEN: 12

ELEVATION / DEPTH BOTTOM OF FILTER PACK: 11

TYPE OF BACKFILL BELOW WELL: NA

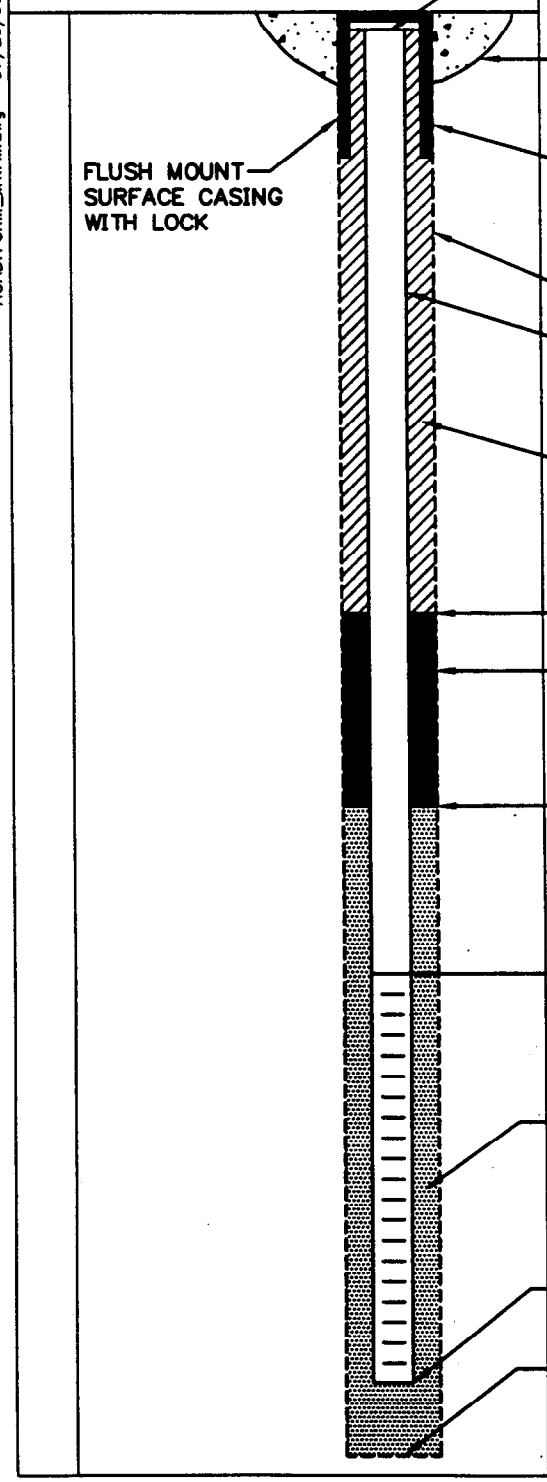
ELEVATION / DEPTH OF BOREHOLE: 12

WELL NO.: 2LMW35S

Tetra Tech NUS, Inc.

OVERBURDEN
MONITORING WELL SHEET
FLUSH - MOUNT

PROJECT NSB NLON	LOCATION SITE 2	DRILLER JIM
PROJECT NO. 7856 CTO 312	BORING 2LMW35S	DRILLING METHOD HSA
DATE BEGUN 6-21-00	DATE COMPLETED 6-21-00	
FIELD GEOLOGIST CONTI		DEVELOPMENT METHOD [illegible]
GROUND ELEVATION [illegible]	DATUM [illegible]	



ELEVATION TOP OF RISER: [illegible]

TYPE OF SURFACE SEAL: CONCRETE PAD

TYPE OF PROTECTIVE CASING: STEEL

I.D. OF PROTECTIVE CASING: 0.74 FT

DIAMETER OF HOLE: 9"

TYPE OF RISER PIPE: PVC

RISER PIPE I.D.: 2"

TYPE OF BACKFILL/SEAL: CEMENT GROUT

ELEVATION/DEPTH TOP OF SEAL: [illegible] / 1

TYPE OF SEAL: BENT[illegible]

ELEVATION/DEPTH TOP OF SAND: [illegible] / 2

ELEVATION/DEPTH TOP OF SCREEN: [illegible] / 4

TYPE OF SCREEN: PVC

SLOT SIZE x LENGTH: 10 SL x 5'

TYPE OF SAND PACK: US SILICA #0 QUARTZ SAND (MANCHESTER NJ)

DIAMETER OF HOLE IN BEDROCK: NA

ELEVATION / DEPTH BOTTOM OF SCREEN: [illegible] / 9

ELEVATION / DEPTH BOTTOM OF SAND: / 9.1

ELEVATION/DEPTH BOTTOM OF HOLE: / 9.1

BACKFILL MATERIAL BELOW SAND: NA

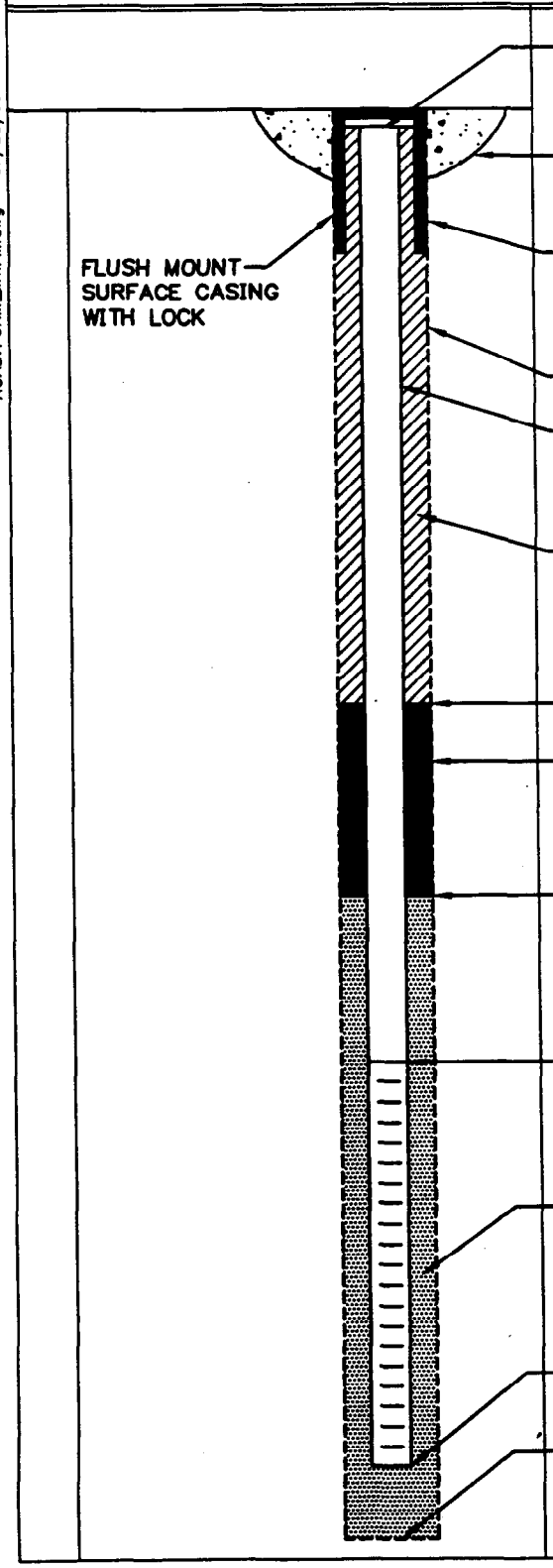
ACAD:FORM_MWFM.dwg 07/20/99 INL

WELL NO.: 2WMW 22S

Tetra Tech NUS, Inc.

OVERBURDEN MONITORING WELL SHEET FLUSH - MOUNT

PROJECT NSB NLON	LOCATION SITE 2	DRILLER JIM LANSING
PROJECT NO. 7856 CTO 312	BORING 2LMW22S	DRILLING METHOD HSA
DATE BEGUN	DATE COMPLETED 6-21-00	DEVELOPMENT METHOD PUMP / SURGE BLOCK
FIELD GEOLOGIST CONTI		
GROUND ELEVATION [illegible]	DATUM [illegible]	



ELEVATION TOP OF RISER: 115.82

TYPE OF SURFACE SEAL: CONCRETE PAD 2'Φ

TYPE OF PROTECTIVE CASING: STEEL

I.D. OF PROTECTIVE CASING: 0.[illegible] FT

DIAMETER OF HOLE: 9"

TYPE OF RISER PIPE: PVC

RISER PIPE I.D.: 2"

TYPE OF BACKFILL/SEAL: CEMENT BENTONITE

ELEVATION/DEPTH TOP OF SEAL: [illegible]/1

TYPE OF SEAL: BENT CHIPS

ELEVATION/DEPTH TOP OF SAND: [illegible]/2

ELEVATION/DEPTH TOP OF SCREEN: [illegible]/3

TYPE OF SCREEN: PVC

SLOT SIZE x LENGTH: 10 SL X

TYPE OF SAND PACK: US SILICA F 0 QUARTZ SAND

DIAMETER OF HOLE IN BEDROCK: NA

ELEVATION / DEPTH BOTTOM OF SCREEN: [illegible]/13

ELEVATION / DEPTH BOTTOM OF SAND: /13

ELEVATION/DEPTH BOTTOM OF HOLE: /13

BACKFILL MATERIAL BELOW SAND: NA

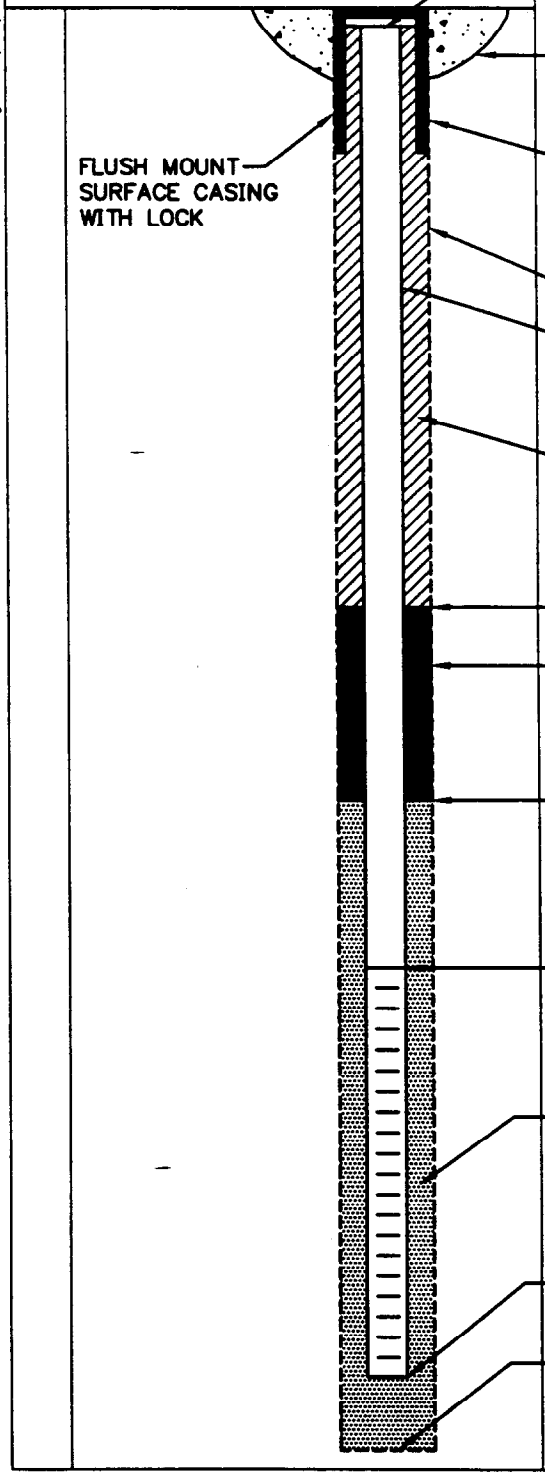
ACAD: FORM_MWFM.dwg 07/20/99 INL

WELL NO.: 3MW14S

Tetra Tech NUS, Inc.

OVERBURDEN MONITORING WELL SHEET FLUSH - MOUNT

PROJECT NSB NLON	LOCATION SITE 3	DRILLER JIM LANSING
PROJECT NO. 7856 CTO 312	BORING 3MW14S	DRILLING METHOD HSA
DATE BEGUN 6/22/00	DATE COMPLETED 6/23/00	
FIELD GEOLOGIST CONTI/CERCONE		DEVELOPMENT METHOD [illegible]
GROUND ELEVATION [illegible]	DATUM NAVD 1988	



ELEVATION TOP OF RISER: 34.42

TYPE OF SURFACE SEAL: CONCRETE PAD

TYPE OF PROTECTIVE CASING: STEEL

I.D. OF PROTECTIVE CASING: .74 FT

DIAMETER OF HOLE: 9"

TYPE OF RISER PIPE: PVC

RISER PIPE I.D.: 2"

TYPE OF BACKFILL/SEAL: [illegible]

ELEVATION/DEPTH TOP OF SEAL: 11.8 / 23

TYPE OF SEAL: [illegible]

ELEVATION/DEPTH TOP OF SAND: 8.8 / 26

ELEVATION/DEPTH TOP OF SCREEN: 6.8 / 28

TYPE OF SCREEN: PVC

SLOT SIZE x LENGTH: 6 x 10

TYPE OF SAND PACK: US SILICA #0

DIAMETER OF HOLE IN BEDROCK: NA

ELEVATION / DEPTH BOTTOM OF SCREEN: 3.2 / 38

ELEVATION / DEPTH BOTTOM OF SAND: / 38

ELEVATION/DEPTH BOTTOM OF HOLE: / 38

BACKFILL MATERIAL BELOW SAND: NA

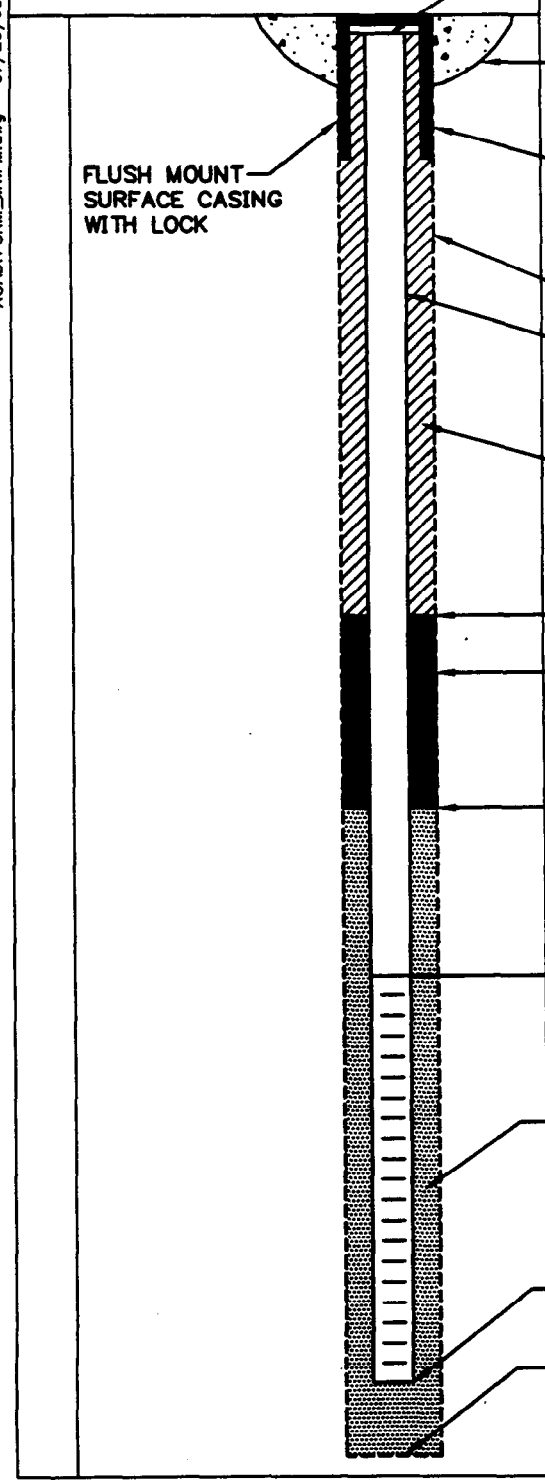
ACAD: FORM_MWFM.dwg 07/20/99 INL

WELL NO.: 23 MW 01

Tetra Tech NUS, Inc.

OVERBURDEN MONITORING WELL SHEET FLUSH - MOUNT

PROJECT NSB NLON	LOCATION SITE 23 (BG)	DRILLER JIM
PROJECT NO. 7856 CTO 312	BORING 23 MW 01S	DRILLING METHOD HSA
DATE BEGUN 6-21-00	DATE COMPLETED 6-21-00	
FIELD GEOLOGIST CONTI		DEVELOPMENT METHOD Pump & Surge Block
GROUND ELEVATION 25.25	DATUM NAVD 1988	



ELEVATION TOP OF RISER: 24.86

TYPE OF SURFACE SEAL: CONCRETE PAD

TYPE OF PROTECTIVE CASING: STEEL BOX

I.D. OF PROTECTIVE CASING: 0.74FT

DIAMETER OF HOLE: 9"

TYPE OF RISER PIPE: PVC

RISER PIPE I.D.: 2

TYPE OF BACKFILL/SEAL: CEMENT BENT GROUT

ELEVATION/DEPTH TOP OF SEAL: 23.25 / 2

TYPE OF SEAL: BENTONITE CHIPS

ELEVATION/DEPTH TOP OF SAND: 21.25 / 4

ELEVATION/DEPTH TOP OF SCREEN: 19.25 / 6

TYPE OF SCREEN: PVC

SLOT SIZE x LENGTH: 10SLX

TYPE OF SAND PACK: US SILICA # 0 QUARTZ SAND (MATCHED TO SCREEN)

DIAMETER OF HOLE IN BEDROCK: NA

ELEVATION / DEPTH BOTTOM OF SCREEN: 19.25 / 16

ELEVATION / DEPTH BOTTOM OF SAND: / 16

ELEVATION/DEPTH BOTTOM OF HOLE: / 16

BACKFILL MATERIAL BELOW SAND: NA

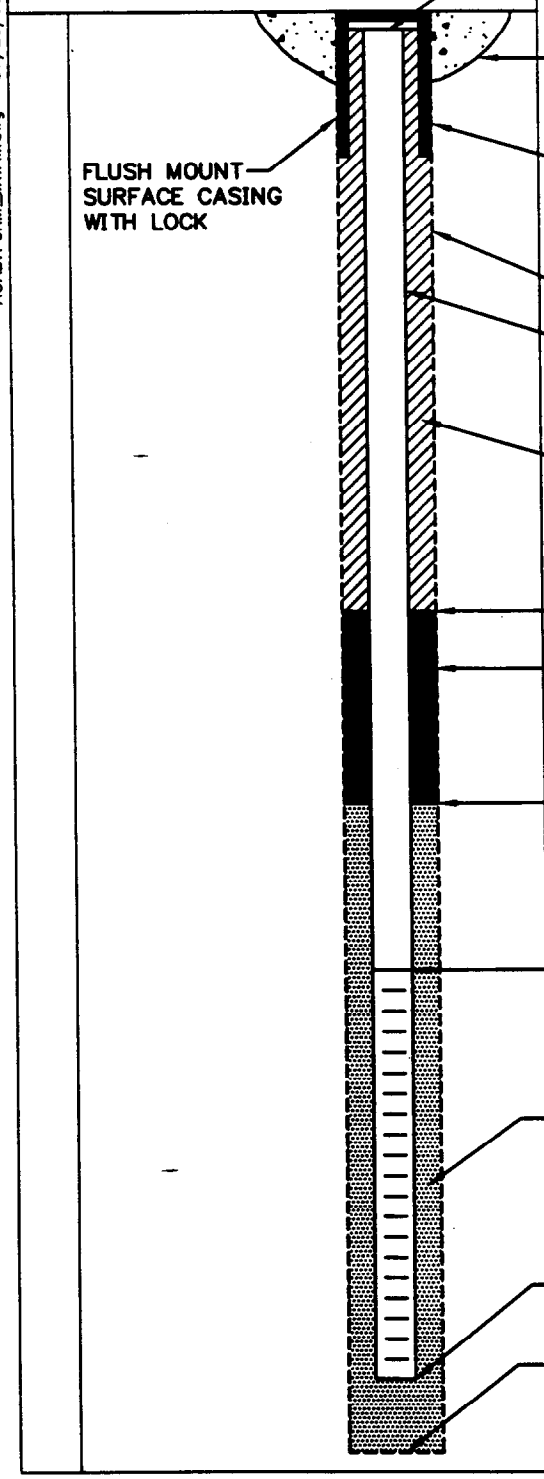
ACAD:FORM_MWFM.dwg 07/20/99 INL

WELL NO.: 23MW02S

Tetra Tech NUS, Inc.

OVERBURDEN MONITORING WELL SHEET FLUSH - MOUNT

PROJECT NSB NLON	LOCATION SITE 23	DRILLER JIM
PROJECT NO. 7856 CTO 312	BORING 23MW02S	DRILLING METHOD HSA
DATE BEGUN 6-20-00	DATE COMPLETED 6/20/00	DEVELOPMENT METHOD Pump & Surge Block
FIELD GEOLOGIST CONTI		
GROUND ELEVATION 21.21	DATUM NAVD 1988	



ELEVATION TOP OF RISER: 20.96

TYPE OF SURFACE SEAL: CONCRETE

TYPE OF PROTECTIVE CASING: STEEL BOX

I.D. OF PROTECTIVE CASING: 0.74FT.

DIAMETER OF HOLE: 9"

TYPE OF RISER PIPE: PVC

RISER PIPE I.D.: 2"

TYPE OF BACKFILL/SEAL: CEMENT/BENT

ELEVATION/DEPTH TOP OF SEAL: 20.21 / 1

TYPE OF SEAL: BENTONITE CHIPS

ELEVATION/DEPTH TOP OF SAND: 17.21 / 2

ELEVATION/DEPTH TOP OF SCREEN: 17.21 / 4

TYPE OF SCREEN: PVC

SLOT SIZE x LENGTH: 10 SL

TYPE OF SAND PACK: US SILICA #0 QUARTZ SAND (MAURICETOWN, NJ)

DIAMETER OF HOLE IN BEDROCK: N/A

ELEVATION / DEPTH BOTTOM OF SCREEN: 17.21 / 14

ELEVATION / DEPTH BOTTOM OF SAND: / 14

ELEVATION/DEPTH BOTTOM OF HOLE: / 14

BACKFILL MATERIAL BELOW SAND: N/A

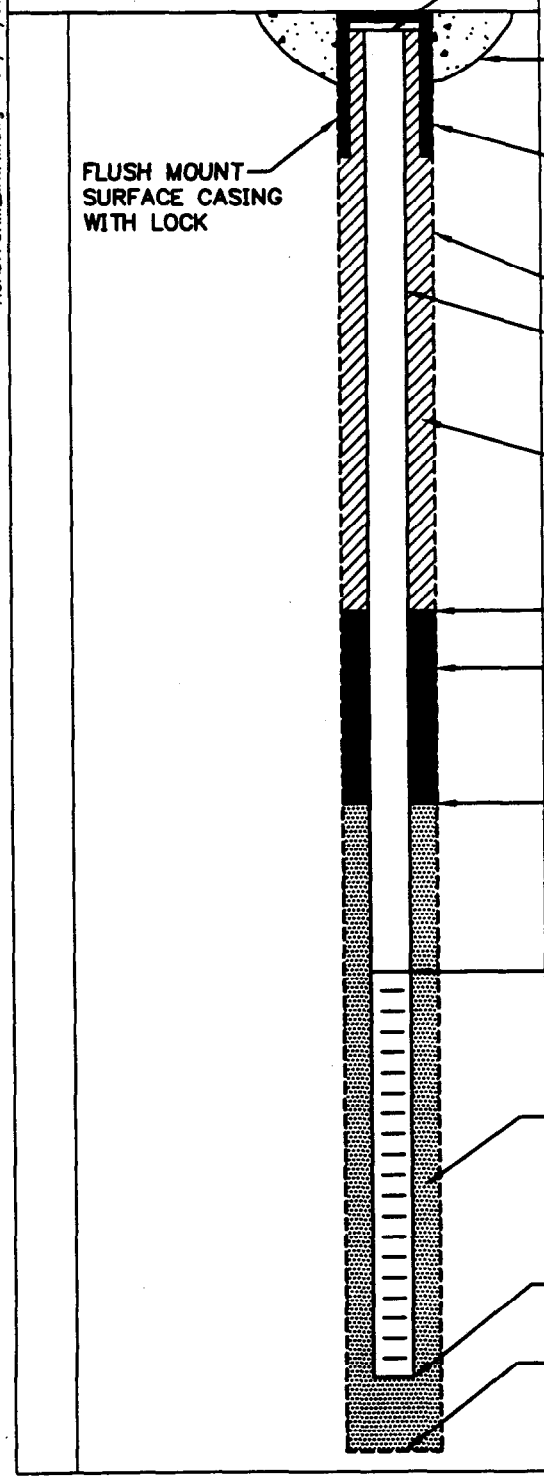
ACAD: FORM_MWFM.dwg 07/20/99 INL

WELL NO.: 23MW04S

Tetra Tech NUS, Inc.

OVERBURDEN MONITORING WELL SHEET FLUSH - MOUNT

PROJECT NSB NLON	LOCATION SITE 23	DRILLER JIM
PROJECT NO. 7856 CTO 312	BORING 23MW04S	DRILLING METHOD HSA
DATE BEGUN 6-20-00	DATE COMPLETED 6/20/00	DEVELOPMENT METHOD [illegible]
FIELD GEOLOGIST CONTI		
GROUND ELEVATION [illegible]	DATUM NAVD 1988	



ELEVATION TOP OF RISER: [illegible]

TYPE OF SURFACE SEAL: CONCRETE

TYPE OF PROTECTIVE CASING: STEEL BOX

I.D. OF PROTECTIVE CASING: 0.74FT.

DIAMETER OF HOLE: 9"

TYPE OF RISER PIPE: PVC

RISER PIPE I.D.: 2"

TYPE OF BACKFILL/SEAL: [illegible]/BENT GROUT

ELEVATION/DEPTH TOP OF SEAL: -21.54/41

TYPE OF SEAL: BENTONITE CHIPS SALT 0.0%

ELEVATION/DEPTH TOP OF SAND: [illegible]/43

ELEVATION/DEPTH TOP OF SCREEN: [illegible]/45

TYPE OF SCREEN: PVC

SLOT SIZE x LENGTH: 10 SL

TYPE OF SAND PACK: U.S. SILICA #0 QUARTZ SAND (MURCFRONN NJ)

DIAMETER OF HOLE IN BEDROCK: NA

ELEVATION / DEPTH BOTTOM OF SCREEN: [illegible]/55

ELEVATION / DEPTH BOTTOM OF SAND: /5[illegible]

ELEVATION/DEPTH BOTTOM OF HOLE: /55.2

BACKFILL MATERIAL BELOW SAND: NA

ACAD:FORM_MWFM.dwg 07/20/99 INL

APPENDIX A.3

WELL DEVELOPMENT LOGS

CTO 312

Tetra Tech NUS, Inc.

MONITORING WELL DEVELOPMENT RECORD

Well: 3TW01
Site: NSB-NLON
Date Installed: 6.8.00
Date Developed: 6.9.00
Dev. Method: PUMP/SURGE
Pump Type: PERISTALTIC

Depth to Bottom (ft.): 16.65'
Static Water Level Before (ft.): 10.38
Static Water Level After (ft.):
Screen Length (ft.): 10'
Specific Capacity:
Casing ID (in.): 1" PVC

Responsible Personnel: KEITH SIMPSON
Drilling Co.: TDS
Project Name: NSB NLON
Project Number: CTO 312 JOB# 7856

Time	Estimated Sediment Thickness (Ft.)	Cumulative Water Volume (Gal.)	Water Level Readings (Ft. below TOC)	Temperature (Degrees C)	pH	Specific Conductance (Units ____)	Turbidity (NTU)	Remarks (odor, color, etc.)
1100	1"	0	10.39	—	—	—	—	BRN, HIGH SOLIDS
1117	0"	3 GAL	10.42	—	—	—	—	NO ODOR
								NO FREE PRODUCT NOTED
								SURGED WITH TUBING
								CLEARING AFTER
								0.5 GAL.
								END PURGE @ 1118
								CLEAR, NO ODOR

Tetra Tech NUS, Inc.

MONITORING WELL DEVELOPMENT RECORD

Well: 3TW4
Site: NSB-NLON
Date Installed: 6-8
Date Developed: 6-9
Dev. Method: Pump
Pump Type: PERISTALTIC

Depth to Bottom (ft.): 15'
Static Water Level Before (ft.): 8.4
Static Water Level After (ft.): _____
Screen Length (ft.): 10
Specific Capacity: NM
Casing ID (in.): 1"

Responsible Personnel: Cercone
Drilling Co.: Technical Drilling Services
Project Name: NSB-NLON Groundwater OU
Project Number: CTO 312 JOB# 7856

Time	Estimated Sediment Thickness (Ft.)	Cumulative Water Volume (Gal.)	Water Level Readings (Ft. below TOC)	Temperature (Degrees C)	pH	Specific Conductance (Units ____)	Turbidity (NTU)	Remarks (odor, color, etc.)
0830	0	0		—	—		V Turbid	Brown TURBID
0855	-	4	8.12	—	—	—	Cloudy	No Product No Odor
								CLEAR ENOUGH FOR
								VOA SAMPLING. Purge
								should be able to
								GET NTUs < 5.

Tetra Tech NUS, Inc.

MONITORING WELL DEVELOPMENT RECORD

Well: 3TW10
Site: NSB-NLON
Date Installed: 6-8-00
Date Developed: 6-8-00
Dev. Method: PUMP
Pump Type: GEOTECH, PERSTALTIC

Depth to Bottom (ft.): 24.00
Static Water Level Before (ft.): 21.95'
Static Water Level After (ft.):
Screen Length (ft.): 5' 1 PVC
Specific Capacity: —
Casing ID (in.): 1/4" PVC

Responsible Personnel: R. SIMPSON
Drilling Co.: TDS (DPT R19)
Project Name: NSB-NLON
Project Number: CTO 312 JOB# 7856

Time	Estimated Sediment Thickness (Ft.)	Cumulative Water Volume (Gal.)	Water Level Readings (Ft. below TOC)	Temperature (Degrees C)	pH	Specific Conductance (Units ____)	Turbidity (NTU)	Remarks (odor, color, etc.)
1505	0	0	—	—	—	—	—	NO ODOR, CLEAR
1520	0	2.5	22.00	—	—	—	—	NO FREE PRODUCT
								2.5 GAL REMOVED

Tetra Tech NUS, Inc.

MONITORING WELL DEVELOPMENT RECORD

Well: ETW 15
Site: NSB-NLON
Date Installed: 6/7
Date Developed: 6/8
Dev. Method: Pump
Pump Type: Peristaltic/Bailer

Depth to Bottom (ft.): 28'
Static Water Level Before (ft.): 24
Static Water Level After (ft.): —
Screen Length (ft.): 5
Specific Capacity: NM.
Casing ID (in.): 1"

Responsible Personnel: Cercone
Drilling Co.: TTNUS Inc.
Project Name: NSB-NLON Groundwater OU RI
Project Number: CTO 312 JOB# 7856

Time	Estimated Sediment Thickness (Ft.)	Cumulative Water Volume (Gal.)	Water Level Readings (Ft. below TOC)	Temperature (Degrees C)	pH	Specific Conductance (Units ____)	Turbidity (NTU)	Remarks (odor, color, etc.)
0900	0	0	—	—	—	—	—	Slightly cloudy.
0945.		4	—	—	—	—	—	Clear.
								No product or odor.
								Peristaltic could
								not pull hydro-
								dynamic head
								of 28 ft-bgs.
								Parameters to be
								measured @ purge

Tetra Tech NUS, Inc.

MONITORING WELL DEVELOPMENT RECORD

Well: 3 TW17
Site: NSB-NLON
Date Installed: 6-7
Date Developed: 6-8
Dev. Method: Peristaltic
Pump Type: Pump.

Depth to Bottom (ft.): 12
Static Water Level Before (ft.): 11
Static Water Level After (ft.): ____
Screen Length (ft.): 7'
Specific Capacity: --
Casing ID (in.): 1"

Responsible Personnel: Cerone
Drilling Co.: TTNS Inc
Project Name: NSB-NLON Site 00 OU 01
Project Number: CTO 312 JOB# 7856

Time	Estimated Sediment Thickness (Ft.)	Cumulative Water Volume (Gal.)	Water Level Readings (Ft. below TOC)	Temperature (Degrees C)	pH	Specific Conductance (Units ____)	Turbidity (NTU)	Remarks (odor, color, etc.)
2100	0	0		—	-	--		Clear initially
2130	0	5		--	--	--	--	never clouded up.
								No product or
								odor noted

Tetra Tech NUS, Inc.

MONITORING WELL DEVELOPMENT RECORD

Well: 3TW22
Site: NSB-NLON
Date Installed: 6-7
Date Developed: 6-8
Dev. Method: Pump
Pump Type: Peristaltic

Depth to Bottom (ft.): 16'
Static Water Level Before (ft.): 8
Static Water Level After (ft.): –
Screen Length (ft.): 10
Specific Capacity: –
Casing ID (in.): 1"

Responsible Personnel: Cercone
Drilling Co.: Tech Drill Serv
Project Name: NSB-NLON OU RI Groundwater
Project Number: CTO 312 Job# 7856

Time	Estimated Sediment Thickness (Ft.)	Cumulative Water Volume (Gal.)	Water Level Readings (Ft. below TOC)	Temperature (Degrees C)	pH	Specific Conductance (Units ____)	Turbidity (NTU)	Remarks (odor, color, etc.)
2000	0	–						Initially clear
2030	0	5						
								No product or odor noted

NSB-N10N CTO 312

Tetra Tech NUS, Inc.

MONITORING WELL DEVELOPMENT RECORD

Well: 3TW25
Site: NSB-N10N
Date Installed: 6.9.00
Date Developed: 6.10.00
Dev. Method: PUMP
Pump Type: PERASTALTIC

Depth to Bottom (ft.): 7.80
Static Water Level Before (ft.): 3.34
Static Water Level After (ft.):
Screen Length (ft.): ~~10~~ 5
Specific Capacity:
Casing ID (in.): 1" PVC

Responsible Personnel: K. SIMPSON
Drilling Co.: TDS
Project Name: NSB N10N
Project Number: CTO 312 JOB# 7856

PUMP RATE 680 ML/MIN SURGED W/ TUBING

Time	Estimated Sediment Thickness (Ft.)	Cumulative Water Volume (Gal.)	Water Level Readings (Ft. below ~~TOC~~)	Temperature (Degrees C)	pH	Specific Conductance (Units ____)	Turbidity (NTU)	Remarks (odor, color, etc.)
0820	3"	0	3.34	—	—	—	—	NO ODOR, NO FREE
0850	0"	4	5.20					PRODUCT.
								DARK BRN AT START
								HIGH SOLIDS
								CLEARING AFTER
								≈1 GAL

ALL MEASURMENTS ARE BGS

195
STICK-UP

Tetra Tech NUS, Inc.

MONITORING WELL DEVELOPMENT RECORD

Well: 7TW01
Site: NSB-NION
Date Installed: 6-10-00
Date Developed: 6-11-00
Dev. Method: PUMP
Pump Type: PERISTALTIC

Depth to Bottom (ft.): 13.05
Static Water Level Before (ft.): 12.00
Static Water Level After (ft.):
Screen Length (ft.): 5'
Specific Capacity:
Casing ID (in.): 1" PVC

Responsible Personnel: R. SIMPSON
Drilling Co.: TDS
Project Name: NSB NION
Project Number: CTO 312 JOB# 7856

PUMP RATE = 510 ML/MIN SURGED W/TUBING

Time	Estimated Sediment Thickness (Ft.)	Cumulative Water Volume (Gal.)	Water Level Readings (Ft. below TOC)	Temperature (Degrees C)	pH	Specific Conductance (Units ____)	Turbidity (NTU)	Remarks (odor, color, etc.)
1450	0.1	0	12.00	—	—	—	—	BRN - 1ST 2 MIN
1455	0	↓	12.00	—	—	—	—	THEN CLEARING
1515	0	3.4	12.00	—	—	—	—	NO ODOR, NO FREE PRODUCT

Tetra Tech NUS, Inc.

MONITORING WELL DEVELOPMENT RECORD

Well: MTW 2
Site: NSB-NLON
Date Installed: 6.10.00
Date Developed: 6/11/00
Dev. Method: PERISTALTIC
Pump Type: PUMP

Depth to Bottom (ft.): 10.95
Static Water Level Before (ft.): 5.22
Static Water Level After (ft.): 5.75
Screen Length (ft.): '
Specific Capacity:
Casing ID (in.): 1" PVC

Responsible Personnel: SJC
Drilling Co.: TDS
Project Name: NSB-NLON
Project Number: CTO 312 JOB# 7856

Time	Estimated Sediment Thickness (Ft.)	Cumulative Water Volume (Gal.)	Water Level Readings (Ft. below ~~TOC~~ GS)	Temperature (Degrees C)	pH	Specific Conductance (Units ____)	Turbidity (NTU) LAMOTE	Remarks (odor, color, etc.)
1320	3"		5.22	—	—	—	—	BROWN - NO ODOR
1335	—		5.77	19.01	6.13	.581	350	
1350	—	3	5.75	18.46	5.94	.543	45	LT BRN - SLIGHT SULFUR
								NO ODOR
								NO FREE PRODUCT

Tetra Tech NUS, Inc.

MONITORING WELL DEVELOPMENT RECORD

Well: 7TW3
Site: NSB-NLON
Date Installed: 6-10-00
Date Developed: 6-11-00
Dev. Method: PERISTALTIC
Pump Type:

Depth to Bottom (ft.): 10.95
Static Water Level Before (ft.): 7.40
Static Water Level After (ft.):
Screen Length (ft.): 1
Specific Capacity:
Casing ID (in.): 1¼" PVC

Responsible Personnel: SJC
Drilling Co.: TDS
Project Name: NSB NLON
Project Number: CTO 312 JOB# 7856

Time	Estimated Sediment Thickness (Ft.)	Cumulative Water Volume (Gal.)	Water Level Readings (Ft. below ~~TOC~~ GS)	Temperature (Degrees C)	pH	Specific Conductance (Units ____)	Turbidity (NTU) LAMMOTTE	Remarks (odor, color, etc.)
1000	½"		7.40	~~15~~	~~5.95~~	~~.555~~ SJC	–	BRN - NO ODOR
1015	0		9.00	15.83	5.95	.555	33	
1030	0	2.5	10.55	16.82	5.99	.557	15	CLEAR.
								NO FREE PRODUCT

Tetra Tech NUS, Inc.

MONITORING WELL DEVELOPMENT RECORD

Well: 7TW04
Site: NSB-NLON
Date Installed: 6·9·00
Date Developed: 6·10·00
Dev. Method: PUMP
Pump Type: PERISTALTIC

Depth to Bottom (ft.): 7.70'
Static Water Level Before (ft.): 6.55
Static Water Level After (ft.): 7.70
Screen Length (ft.): 5'
Specific Capacity:
Casing ID (in.): 1" PVC

Responsible Personnel: K. SIMPSON
Drilling Co.: TDS
Project Name: NSB NLON
Project Number: CTO 312 JOB# 7856

Time	Estimated Sediment Thickness (Ft.)	Cumulative Water Volume (Gal.)	Water Level Readings (Ft. below ~~TOC~~)	Temperature (Degrees C)	pH	Specific Conductance (Units ____)	Turbidity (NTU)	Remarks (odor, color, etc.)
0930	1"	0	6.55	—	—	—	—	DR. BRN., NO FREE PRODUCT
								NO ODOR
0940	0.25"	0.1		RESTART				
			DRY AFTER 150		MLS			DRY AFTER 3 MIN
								≈ 8 oz REMOVED
								OR LESS
0950	0.25"	0.2	DRY AFTER 230		MLS			
0953	0.25"	0.2	DRY AFTER 250		MLS	- END PURGE		
								POOR PRODUCER, LOW
								VOL. DID NOT CLEAR
								UP, HIGH TSS

ALL MEASUREMENTS ARE BGS

Tetra Tech NUS, Inc.

MONITORING WELL DEVELOPMENT RECORD

Well: 7TW05
Site: NSB-NLON
Date Installed: 6.9.00
Date Developed: 6.10.00
Dev. Method: PUMP
Pump Type: PERISTALTIC

Depth to Bottom (ft.): 10.60
Static Water Level Before (ft.): 4.04
Static Water Level After (ft.):
Screen Length (ft.): 10'
Specific Capacity:
Casing ID (in.): 1" PVC

Responsible Personnel: K. SIMPSON
Drilling Co.: TDS
Project Name: NSB-NLON
Project Number: CTO 312 JOB# 7856

PUMP RATE = 500 ML/MIN SUPPED W/TUBING

Time	Estimated Sediment Thickness (Ft.)	Cumulative Water Volume (Gal.)	Water Level Readings (Ft. below ~~TOC~~)	Temperature (Degrees C)	pH	Specific Conductance (Units ____)	Turbidity (NTU)	Remarks (odor, color, etc.)
1008	1"	0	4.04	—	—	—	—	GRAY/BRN, NO ODOR
1035	0	4	4.04	—	—	—	—	NO FREE PRODUCT
								CLEARING AFTER
								4 MIN

ALL MEASURMENTS ARE TO GROUND SURFACE

Tetra Tech NUS, Inc.

MONITORING WELL DEVELOPMENT RECORD

Well: 7TW06
Site: NSB-NLON
Date Installed: 6·9·00
Date Developed: 6·10·00
Dev. Method: PUMP
Pump Type: PERISTALTIC
Depth to Bottom (ft.): 9.58
Static Water Level Before (ft.): 3.23
Static Water Level After (ft.):
Screen Length (ft.): 10 '
Specific Capacity:
Casing ID (in.): 1" PVC
Responsible Personnel: K. SIMPSON
Drilling Co.: TPS
Project Name: NSB NLON
Project Number: CTO 312 JOB# 7856

PUMP RATE = 460 ML/MIN

SURGED w/ TUBING

Time	Estimated Sediment Thickness (Ft.)	Cumulative Water Volume (Gal.)	Water Level Readings (Ft. below ~~TOC~~)	Temperature (Degrees C)	pH	Specific Conductance (Units ____)	Turbidity (NTU)	Remarks (odor, color, etc.)
1044	1'	0	3.23	—	—	—	—	BRN, HIGH TSS
1115	0	4	4.56	—	—	—	—	NO ODOR, NO FREE PRODUCT
								CLEARING AFTER
								5 MIN

ALL MEASURMENTS ARE BGS

Tetra Tech NUS, Inc.

MONITORING WELL DEVELOPMENT RECORD

Well: 7TW07
Site: NSB-NLON
Date Installed: 6-10-00
Date Developed: 6-11-00
Dev. Method: PUMP
Pump Type: PERISTALTIC

Depth to Bottom (ft.): 7.10
Static Water Level Before (ft.): 2.62
Static Water Level After (ft.): 2.62
Screen Length (ft.): 5'
Specific Capacity:
Casing ID (in.): 1" PVC

Responsible Personnel: K. SIMPSON
Drilling Co.: TDS
Project Name: NSB-NLON
Project Number: CTO 312 JOB# 7856

PUMP RATE = 500 ML/MIN SURGED W/ TUBING

Time	Estimated Sediment Thickness (Ft.)	Cumulative Water Volume (Gal.)	Water Level Readings (Ft. below ~~TOC~~ BGS)	Temperature (Degrees C)	pH	Specific Conductance (Units ____)	Turbidity (NTU)	Remarks (odor, color, etc.)
1325	0.1	0	KS ~~7.~~ 2.62	—	—	—	—	START
1330	0	0.6	2.60	—	—	—	—	NO ODOR, NO FREE PRODUCT
1335	0	↓	2.62	—	—	—	—	LT BRN @ START
1345	0		2.62	—	—	—	—	CLEARING QUICKLY
1355	0	4	2.62	—	—	—	—	END DEVELOPMENT

Tetra Tech NUS, Inc.

MONITORING WELL DEVELOPMENT RECORD

Well: 7 TW 8
Site: SITE 7
Date Installed: 6·13·00
Date Developed: 6·23·00
Dev. Method: PUMP
Pump Type: PERISTALTIC

Depth to Bottom (ft.): 10.30
Static Water Level Before (ft.): 5.24
Static Water Level After (ft.): 7.00
Screen Length (ft.): 5'
Specific Capacity:
Casing ID (in.): 1" PVC

Responsible Personnel: R. SIMPSON
Drilling Co.: TDS
Project Name: NSB NWN
Project Number: CTO 312 #7956

PUMP RATE = 500 ML/MIN SURGED W/ TUBING

Time	Estimated Sediment Thickness (Ft.)	Cumulative Water Volume (Gal.)	Water Level Readings (Ft. below ~~TOC~~ BGS)	Temperature (Degrees C)	pH	Specific Conductance (Units ____)	Turbidity (NTU)	Remarks (odor, color, etc.)
0923	0.2'	0	5.24	—	—	—	—	BRN, HIGH SOLIDS
0931	0	2	10.25	DRY				NO ODOR
0935	0	2	5.50	RESTART	PUMP @	250	ML/MIN	
0955	0	≈ 3	7.00	END	PURGE			CLEARING AFTER 5 MIN

ALL MEASURMENTS ARE BGS

Tetra Tech NUS, Inc.

MONITORING WELL DEVELOPMENT RECORD

Well: 7TW9
Site: NSB-NION
Date Installed: 6·13·00
Date Developed: 6·23·00
Dev. Method: PUMP
Pump Type: PERISTALTIC

Depth to Bottom (ft.): 9.55
Static Water Level Before (ft.): 5.02
Static Water Level After (ft.): 9.50
Screen Length (ft.): 5'
Specific Capacity:
Casing ID (in.): 1" PVC

Responsible Personnel: K. SIMPSON
Drilling Co.: TDS
Project Name: NSB NION
Project Number: CTO 312 JOB# 7856

PUMP RATE @ START 500 ML/MIN SURGED WITH TUBING

Time	Estimated Sediment Thickness ~~(Ft.)~~	Cumulative Water Volume (Gal.)	Water Level Readings (Ft. below ~~TOC~~) BGS	Temperature (Degrees C)	pH	Specific Conductance (Units ____)	Turbidity (NTU)	Remarks (odor, color, etc.)
0838	2"	0	5.02	—	—	—	—	BROWN, HIGH SOLIDS
0842	0.5"	0.5	9.50	DRY				NO ODOR
0850	0.5	0.5	5.80	RESTART		PUMP		
0852	0	0.7	9.50	DRY				
0859	0	0.7	5.80	RESTART		PUMP		LOW PUMP RATE TO 250 ML/MIN
0904	0	0.9	9.50	DRY				END PURGE

ALL MEASURMENTS ARE BGS

Tetra Tech NUS, Inc.

MONITORING WELL DEVELOPMENT RECORD

10.90' AFTER SED. REMOVED

Well: 7TW10
Site: SITE 7
Date Installed: 6-13-00
Date Developed: 6-23-00
Dev. Method: PUMP
Pump Type: PERISTALTIC

Depth to Bottom (ft.): ~~8.85~~ KS
Static Water Level Before (ft.): 4.53
Static Water Level After (ft.): 8.80
Screen Length (ft.): 5
Specific Capacity:
Casing ID (in.): 1" PVC

Responsible Personnel: K. SIMPSON
Drilling Co.: TDS
Project Name: NSB-NWX
Project Number: CTO 312 # 7856

PUMP RATE = 250 ML/MIN SURGED W/ TUBING

Time (≈1' SED @ START)	Estimated Sediment Thickness (Ft.)	Cumulative Water Volume (Gal.)	Water Level Readings (Ft. below ~~TOC~~ BGS)	Temperature (Degrees C)	pH	Specific Conductance (Units ____)	Turbidity (NTU)	Remarks (odor, color, etc.)
1012	~~0.2'~~	0	4.53	—	—	—	—	BRN, HIGH SOLIDS
1016	~~0.2~~	0.3	7.55	STOP	PUMP	TO ALLOW	RECHARGE	
1033	0.2	0.3	6.00	RECHARGED	TO 6.00',	START	PUMP	
1036	0.1	0.4	8.80	DRY				
1047	0.1	0.4	7.00	RECHARGED	TO 7.00	START	PUMP	
1049	0	≈0.5	8.80	DRY		END	PURGE	
								GW CLEARING @
								END OF DEVEL.

ALL MEASUREMENTS ARE BGS

Tetra Tech NUS, Inc.

MONITORING WELL DEVELOPMENT RECORD

Well: 18TW02
Site: NSB-NLON
Date Installed: 6-12-00
Date Developed: 6-14-00
Dev. Method: PUMP
Pump Type: PERISTALTIC

Depth to Bottom (ft.): 7.27
Static Water Level Before (ft.): 4.47
Static Water Level After (ft.):
Screen Length (ft.): 5'
Specific Capacity:
Casing ID (in.): 1" PVC

Responsible Personnel: K. SIMPSON
Drilling Co.: TDS
Project Name: NSB-NLON
Project Number: CTO 312 JOB# 7856

PUMP RATE = 580 ~~gp~~ ML/MIN SURGED W/TUBING

	Time	Estimated Sediment Thickness (Ft.)	Cumulative Water Volume (Gal.)	Water Level Readings (Ft. below TOC)	Temperature (Degrees C)	pH	Specific Conductance (Units ____)	Turbidity (NTU)	Remarks (odor, color, etc.)
START	0855	0.1	0	4.47	—	—	—	—	BRN, NO FREE PRODUC
END	0825	0	5.5	4.68	—	—	—	—	NO ODOR
									CLEARING AFTER 5 MIN

Tetra Tech NUS, Inc.

MONITORING WELL DEVELOPMENT RECORD

Well: 18TW4
Site: NSB-NLON
Date Installed:
Date Developed: 6-14-00
Dev. Method: PUMP
Pump Type: PERISTALTIC

Depth to Bottom (ft.): 10.85 BGS
Static Water Level Before (ft.): 4.10
Static Water Level After (ft.): 6.27
Screen Length (ft.): 10' (2-12) BGS
Specific Capacity: —
Casing ID (in.): 1¼"

Responsible Personnel: SJC
Drilling Co.: TDS
Project Name: NSBNLON
Project Number: CTO 312 JOB# 7856

Time	Estimated Sediment Thickness (Ft.)	Cumulative Water Volume (Gal.)	Water Level Readings (Ft. below TOC) BGS	Temperature (Degrees C)	pH	Specific Conductance (Units ____)	Turbidity (NTU)	Remarks (odor, color, etc.)
0900	≈ 5"		4.10	—	—	—	—	BROWN, TURBID
0910	—		6.58	—	—	—	—	CLEAR, NON TURBID
0920	—		6.40	—	—	—	—	" "
0930	0	3 GAL	6.27	—	—	—	—	" "

Tetra Tech NUS, Inc.

MONITORING WELL DEVELOPMENT RECORD

Well: 2WMW22S
Site: 2
Date Installed: 6/21/00
Date Developed: 6/22/00
Dev. Method: PUMP/SURGE
Pump Type: WATERRA

Depth to Bottom (ft.): 12.50
Static Water Level Before (ft.): 2.90
Static Water Level After (ft.):
Screen Length (ft.): 1
Specific Capacity: NA
Casing ID (in.): 2" Φ

Responsible Personnel: SJC
Drilling Co.: [illegible]
Project Name: NSB NLON
Project Number: 7356

Time	Estimated Sediment Thickness (Ft.)	Cumulative Water Volume (Gal.)	Water Level Readings (Ft. below TOC)	Temperature (Degrees C)	pH	Specific Conductance (Units ____)	Turbidity (NTU)	Remarks (odor, color, etc.)
1730			2.90					[illegible] GPM
HAND	TROUBLE	W/ TOO	VALVE					BROWN & TURBID
1800	WELL DRY	[illegible] GPM	7.00 ±					
1810	PUMP OFF							
1820	PUMP ON							
1830			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
[illegible]	WELL	DRY NOW	[illegible] GPM	15.01	[illegible]	[illegible]	[illegible]	
[illegible]								
[illegible]								

Tetra Tech NUS, Inc.

MONITORING WELL DEVELOPMENT RECORD

Well: 23MW01S
Site: SITE 23
Date Installed: 6-21-00
Date Developed: 6-22-00
Dev. Method: PUMP/SURGE
Pump Type: WATERRA

Depth to Bottom (ft.): 15.60
Static Water Level Before (ft.): 6.36
Static Water Level After (ft.): [illegible]
Screen Length (ft.): 10
Specific Capacity: [illegible]
Casing ID (in.): 2"ϕ

Responsible Personnel: [illegible]
Drilling Co.: [illegible]
Project Name: NSB NLON
Project Number: [illegible]

Time	Estimated Sediment Thickness (Ft.)	Cumulative Water Volume (Gal.)	Water Level Readings (Ft. below TOC)	Temperature (Degrees C)	pH	Specific Conductance (Units ____)	Turbidity (NTU)	Remarks (odor, color, etc.)
1510	0	–	6.36		–		–	1/2 to 3/4
1520	–	7.5	14.50	14.18	6.59	.221	991	[illegible] BRN/TURBID.
1530	–	15.0	14.50	14.[illegible]	5.76	.228	431	
1540	–	22.5	14.50	14.59	5.[illegible]	.[illegible]33	441	
1550	–	30.0	14.50	14.50	5.80	.235	319	[illegible] PUMP DOWN TO 1/2 GPM
1600	–	35.0	11.40	14.36	5.90	.241	991	[illegible] PUMP TURBID.
1610	–	40.0	14.50	14.05	6.00	.239	999	INCR PUMP TO 3/4 AGAIN
1620	–	45.0	14.50	14.67	6.05	.239	286	LESS TURBID.

Tetra Tech NUS, Inc.

MONITORING WELL DEVELOPMENT RECORD

Well: 23MW02S
Site: 23
Date Installed: 6-20-00
Date Developed: 6-22-00
Dev. Method: PUMP/SURGE
Pump Type: WATERRA

Depth to Bottom (ft.): 13.50
Static Water Level Before (ft.): 4.60
Static Water Level After (ft.): 11.60
Screen Length (ft.): 10'
Specific Capacity: ____
Casing ID (in.): 2"Φ

Responsible Personnel: SJC
Drilling Co.: [illegible]
Project Name: [illegible]
Project Number: 1356

Time	Estimated Sediment Thickness (Ft.)	Cumulative Water Volume (Gal.)	Water Level Readings (Ft. below TOC)	Temperature (Degrees C)	pH	Specific Conductance (Units ____) mS/cm	Turbidity (NTU)	Remarks (odor, color, etc.)
1220			4.60					< 1 GPM → 1/4 GPM
1230		2.5	10.30	18.14	6.36	.830	999	BRN = TURBID
1240		—	—	—	—	—	—	
1250		7.5	11.60	22.39	6.27	.860	999	< 1/4 GPM
1310			11.60	23.28	6.49	[illegible]	999	
1330		17.5	12.20	23.22	6.49	.906	"	< 1/4 GPM 1/4 GPM
1350	STOP PUMP WILL LET IT RECOVER. ONLY REC 10					11.5' WILL	PUMP DRY	
1415	AND MOVE TO NEXT HOLE.							

Tetra Tech NUS, Inc.

MONITORING WELL DEVELOPMENT RECORD

Well: 23MW045
Site: NSB-NLON
Date Installed: 6-20-00
Date Developed: 6-22-00
Dev. Method: PUMP
Pump Type: [illegible]

Depth to Bottom (ft.): 55.1
Static Water Level Before (ft.): 7.14
Static Water Level After (ft.): 9.70
Screen Length (ft.): [illegible]
Specific Capacity: ____
Casing ID (in.): 2" PVC

Responsible Personnel: [illegible]
Drilling Co.: [illegible]
Project Name: [illegible]
Project Number: CTO 312 JOB# 7856

Time	Estimated Sediment Thickness (Ft.)	Cumulative Water Volume (Gal.)	Water Level Readings (Ft. below TOC)	Temperature (Degrees C)	pH	Specific Conductance (Units ____)	Turbidity (NTU)	Remarks (odor, color, etc.)
[illegible]55	—		7.14	—	—	-	—	[illegible] TO 1.25 GPM
0905	—	12.5	14.80	16.20	6.58	[illegible]	[illegible]	[illegible]
0915	—	25	14.50	15.94	6.50	[illegible]	499	" " "
0925	-	37.5	—	15.76	6.50	.240	[illegible]	" " "
0935	-	49	—	—		-	—	[illegible]
0950	REGULATE							1 GPM
1000		59	9.60	17.15	6.27	.214	[illegible]	1 GPM
1010		69	9.50	16.99	[illegible]	[illegible]	[illegible]	1 GPM
1020		—	—		—	—	—	"
1030		89	9.70	[illegible]	6.43	[illegible]	[illegible]	"
1040		99	9.70	16.49	6.36	.199	999	"
1050		109	9.70	16.55	6.42	.197	[illegible]	" SAL. 0.0%

Tetra Tech NUS, Inc.

MONITORING WELL DEVELOPMENT RECORD

Well: 3MW145
Site: Area A Downstream
Date Installed: 6-23-00
Date Developed: 7-12-00
Dev. Method: Pumping
Pump Type: Grundfos w/ surge ring.

Depth to Bottom (ft.): 38
Static Water Level Before (ft.): 32
Static Water Level After (ft.):
Screen Length (ft.): 10
Specific Capacity: V. High.
Casing ID (in.): 2"

Responsible Personnel: Cercone
Drilling Co.: Parratt - Wolff
Project Name: NSB-NLON CTO 312
Project Number: 7856

Time	Estimated Sediment Thickness (Ft.)	Cumulative Water Volume (Gal.)	Water Level Readings (Ft. below TOC)	Temperature (Degrees C)	pH	Specific Conductance (Units ____)	Turbidity (NTU)	Remarks (odor, color, etc.)
0730	0	<1	32	–	–	–	< 50	Slightly Cloudy
0800	↓	35	32	–	–	–		Clear
0815	↓	55 gal	32	–	–	–	<1	Clear
								PH, EC & Temp
								Parameters to be
								measured during
								purge / sampling

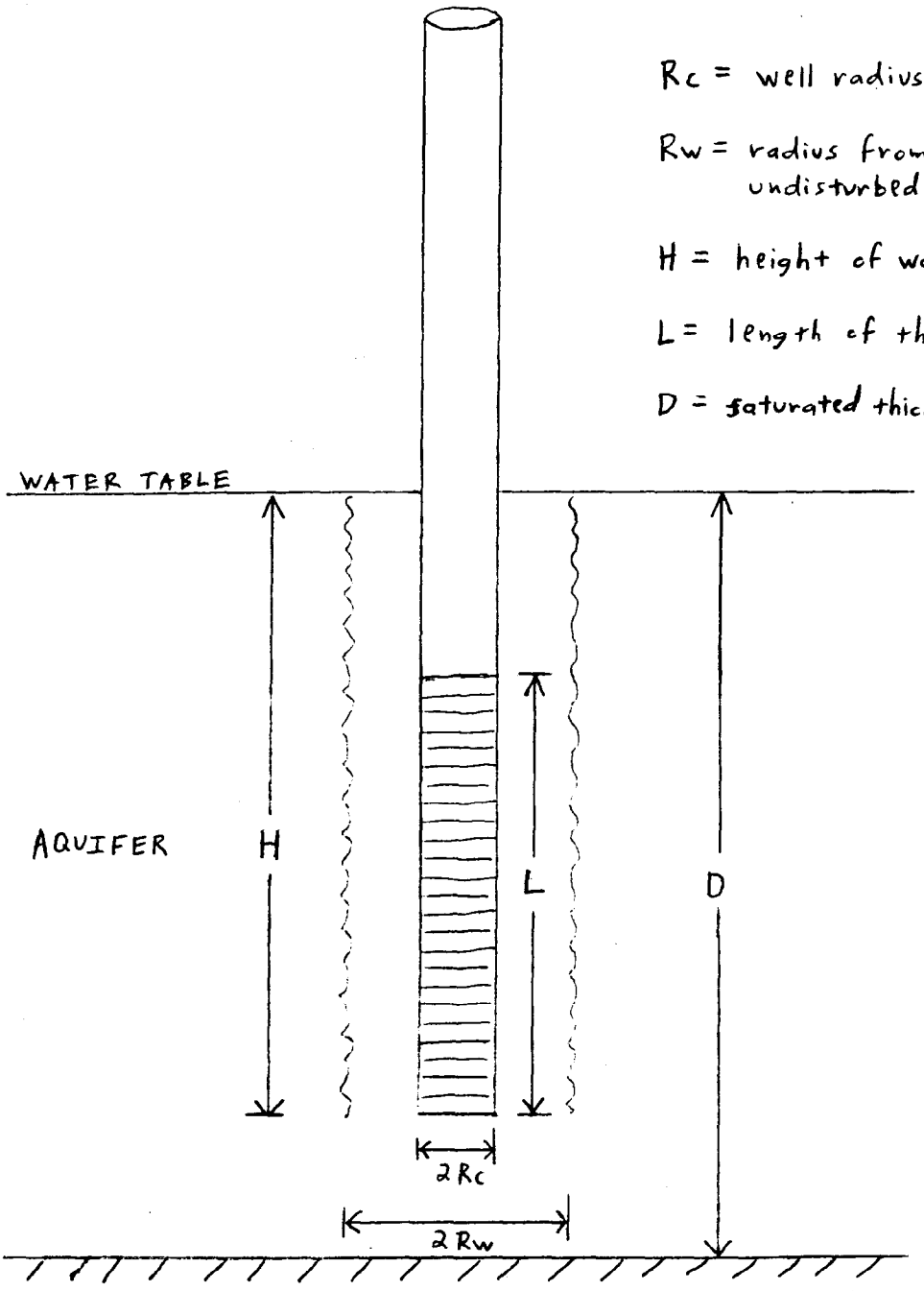
APPENDIX A.4

SLUG TEST RESULTS

Well Number	Hydraulic Conductivity (ft/sec)	Hydraulic Conductivity (cm/sec)
23MW02S	1.04E-05	3.16E-04
23MW02D	7.55E-03	2.30E-01
23MW04S	3.67E-05*	1.12E-03*
23MW04D	8.49E-06*	2.58E-04*
7MW04S	1.75E-02	5.34E-01
7MW09S	8.33E-04	2.54E-02
2DMW29S	7.82E-05	2.38E-03
3MW14S	5.80E-02	1.77E+00

* Value represents the average of falling head and rising head tests.

PARAMETERS USED IN CALCULATIONS OF K.



Rc = well radius

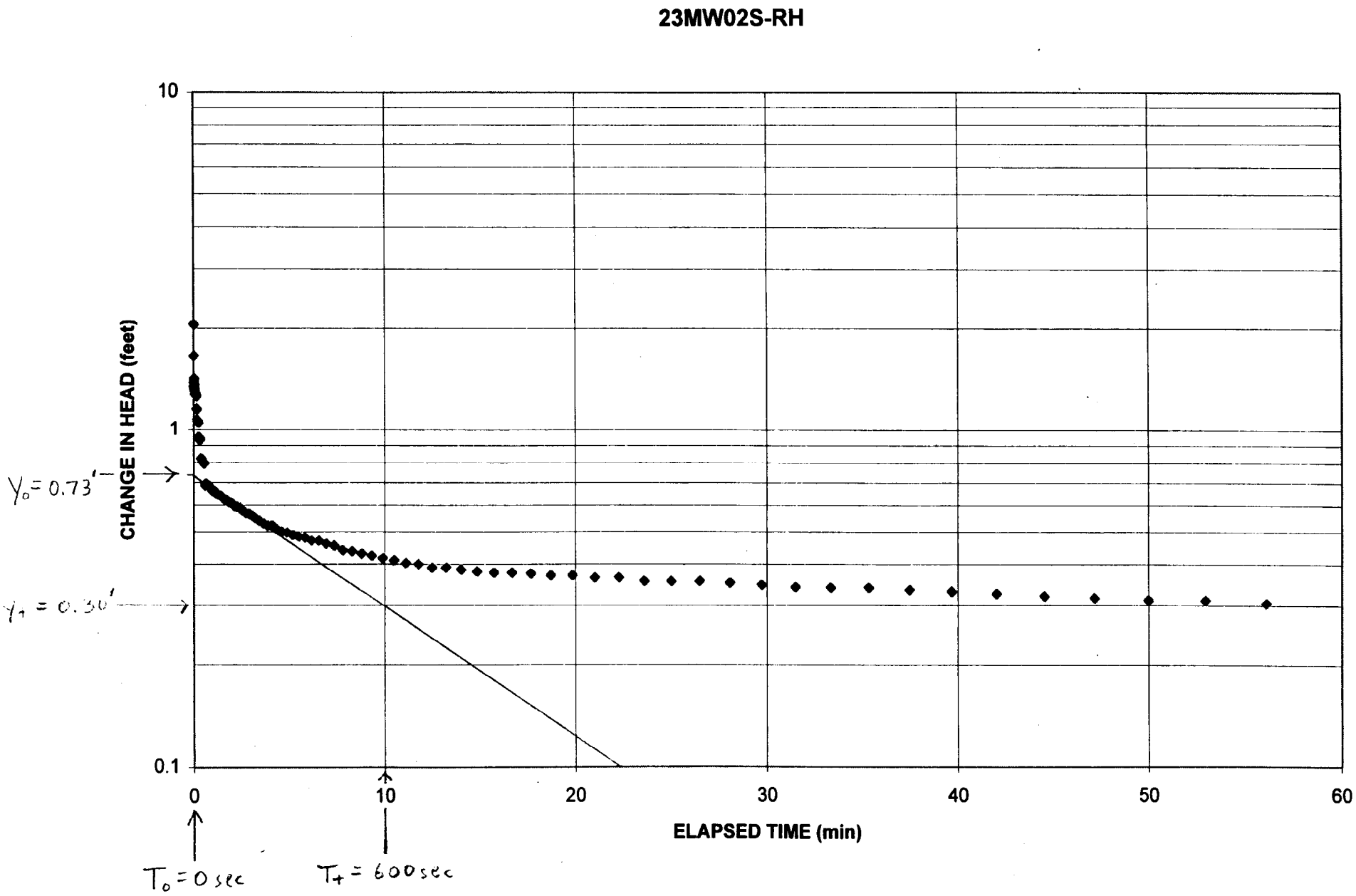
Rw = radius from well center to undisturbed aquifer

H = height of water column in well

L = length of the screen

D = saturated thickness of aquifer

HYDRAULIC CONDUCTIVITY CALCULATIONS FROM SLUG TESTS					
K calculated after Bouwer and Rice, 1976					
SLUG TEST	23MW02S - Rising Head				
Scn Int L=	7.41	Tyo=	0	sec	
WT to Well Bt H=	7.41	Yo=	0.73	feet	
Aq Depth D=	7.41				
Rad Borehole Rw=	0.375	Tyt=	600	sec	
Case Rcase=	0.0833	Yt=	0.3	feet	
Cal Eff Rc' Rc=	0.217				
One used in K calc Rc=	0.217				
L\Rw=	19.76				
A=	2.4				
B=	0.3				
C=	1.7				
IF D>H			IF D=H		
LN(Re/Rw)=	#NUM!		LN(Re/Rw)=	2.1992177	
Re=	#NUM!		Re=	3.3817335	
K=	#NUM!	ft/sec	K=	1.04E-05	ft/sec
	#NUM!	cm/sec		3.16E-04	cm/sec


23MW02S-RH
10
1
0.1
CHANGE IN HEAD (feet)
Y_o = 0.73'
Y_t = 0.30'
0
10
20
30
40
50
60
ELAPSED TIME (min)
T_o = 0 sec
T_t = 600 sec

In-Situ Inc. Troll

Report generated: 09/06/00 10:05:26
Report from file: C:\WINSITU\NSB-SLUG\23MW02SR.BIN
DataMgr Version 2.31.0.0

Serial number: 00000890
Firmware Version 7.10
Unit name: Troll 4000

Test name: 23MW02S-R

Test defined on: 08/20/00 17:51:18
Test started on: 08/21/00 08:27:27
Test stopped on: 08/21/00 12:47:28
Test extracted on: 08/22/00 13:45:12

Data gathered using Logarithmic testing
Maximum time between data points: 10.0000 Minutes.
Number of data samples: 159

TOTAL DATA SAMPLES 159

Channel number [2]
Measurement type: Pressure/Level
Channel name: pressure
Sensor Range: 15 PSI.
Specific gravity: 1.000
Mode: Surface
User-defined reference: 0.000 Feet H2O
Referenced on: channel definition.
Pressure head at reference: 6.902 Feet H2O

Date	Time	ET (min)	Chan[2] Feet H2O
08/21/00	08:27:27	0.0000	0.004
08/21/00	08:27:27	0.0050	0.004
08/21/00	08:27:27	0.0100	-0.001
08/21/00	08:27:27	0.0150	-0.001
08/21/00	08:27:28	0.0200	0.004
08/21/00	08:27:28	0.0250	-0.001
08/21/00	08:27:28	0.0300	0.004
08/21/00	08:27:29	0.0350	0.004
08/21/00	08:27:29	0.0400	0.004
08/21/00	08:27:29	0.0450	-0.001
08/21/00	08:27:30	0.0500	0.004
08/21/00	08:27:30	0.0550	-0.001
08/21/00	08:27:30	0.0600	-0.543
08/21/00	08:27:30	0.0650	-0.005
08/21/00	08:27:31	0.0700	-2.051
08/21/00	08:27:31	0.0750	-1.659
08/21/00	08:27:31	0.0800	-1.389
08/21/00	08:27:32	0.0850	-1.346

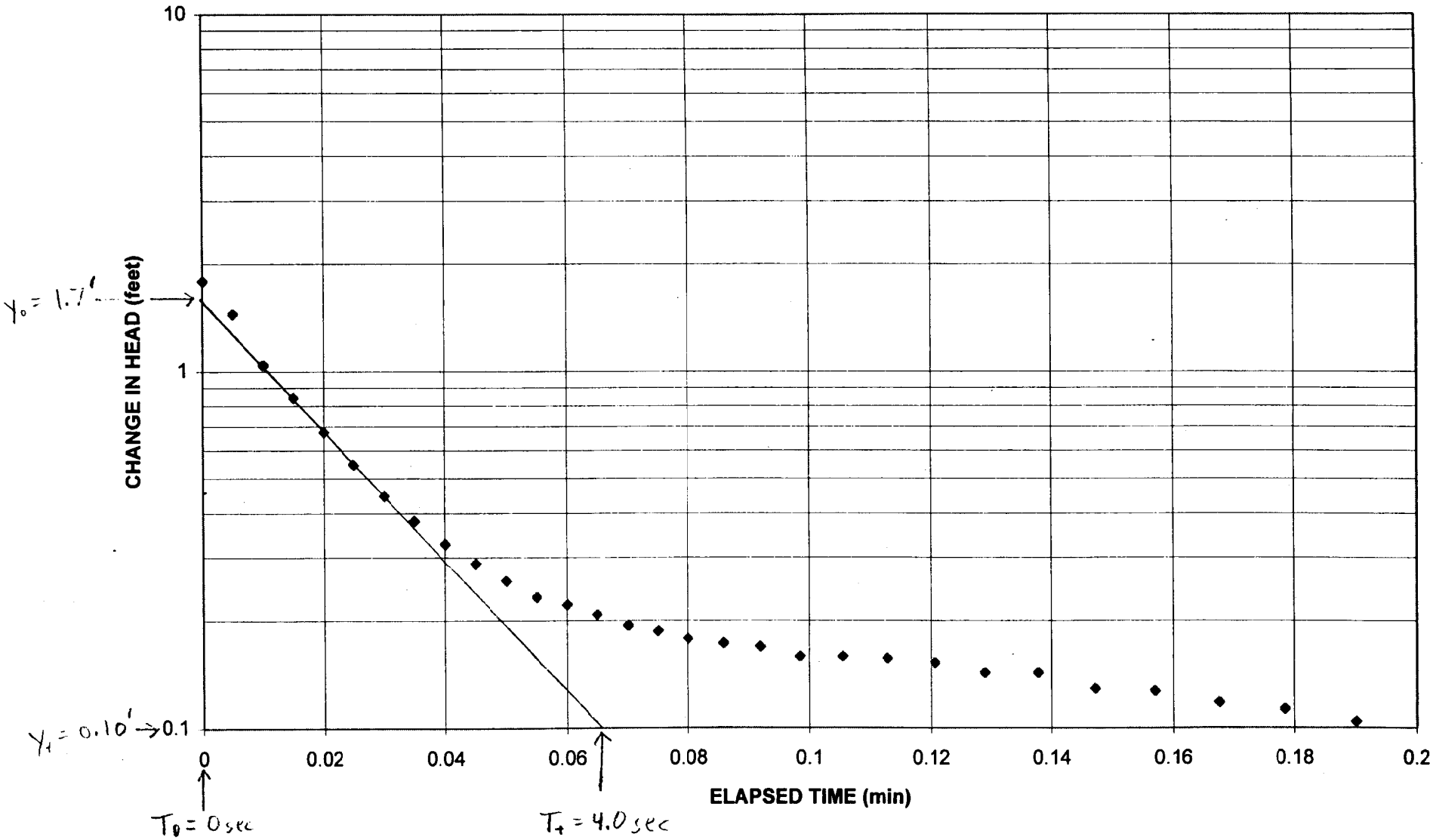
08/21/00	08:27:32	0.0900	-1.419
08/21/00	08:27:32	0.0950	-1.339
08/21/00	08:27:33	0.1000	-1.371
08/21/00	08:27:33	0.1058	-1.329
08/21/00	08:27:33	0.1120	-1.334
08/21/00	08:27:34	0.1185	-1.320
08/21/00	08:27:34	0.1255	-1.311
08/21/00	08:27:34	0.1328	-1.306
08/21/00	08:27:35	0.1407	-1.299
08/21/00	08:27:35	0.1490	-1.290
08/21/00	08:27:36	0.1578	-1.286
08/21/00	08:27:37	0.1672	-1.276
08/21/00	08:27:37	0.1770	-1.274
08/21/00	08:27:38	0.1875	-1.265
08/21/00	08:27:38	0.1985	-1.260
08/21/00	08:27:39	0.2102	-1.152
08/21/00	08:27:40	0.2227	-1.156
08/21/00	08:27:41	0.2358	-1.152
08/21/00	08:27:41	0.2498	-1.071
08/21/00	08:27:42	0.2647	-1.066
08/21/00	08:27:43	0.2803	-1.062
08/21/00	08:27:44	0.2970	-1.053
08/21/00	08:27:45	0.3147	-0.949
08/21/00	08:27:47	0.3333	-0.949
08/21/00	08:27:48	0.3532	-0.944
08/21/00	08:27:49	0.3742	-0.942
08/21/00	08:27:50	0.3963	-0.933
08/21/00	08:27:52	0.4198	-0.824
08/21/00	08:27:53	0.4447	-0.824
08/21/00	08:27:55	0.4697	-0.820
08/21/00	08:27:56	0.4963	-0.815
08/21/00	08:27:58	0.5247	-0.808
08/21/00	08:28:00	0.5547	-0.808
08/21/00	08:28:02	0.5863	-0.799
08/21/00	08:28:04	0.6213	-0.799
08/21/00	08:28:06	0.6580	-0.688
08/21/00	08:28:08	0.6963	-0.695
08/21/00	08:28:11	0.7380	-0.690
08/21/00	08:28:13	0.7813	-0.690
08/21/00	08:28:16	0.8280	-0.688
08/21/00	08:28:19	0.8763	-0.684
08/21/00	08:28:22	0.9280	-0.679
08/21/00	08:28:25	0.9830	-0.674
08/21/00	08:28:29	1.0413	-0.665
08/21/00	08:28:33	1.1030	-0.660
08/21/00	08:28:37	1.1680	-0.658
08/21/00	08:28:41	1.2380	-0.654
08/21/00	08:28:45	1.3113	-0.649
08/21/00	08:28:50	1.3897	-0.644
08/21/00	08:28:55	1.4730	-0.640
08/21/00	08:29:00	1.5613	-0.635
08/21/00	08:29:06	1.6547	-0.626
08/21/00	08:29:12	1.7530	-0.624
08/21/00	08:29:18	1.8580	-0.614
08/21/00	08:29:25	1.9680	-0.614
08/21/00	08:29:32	2.0847	-0.605

08/21/00	08:29:39	2.2097	-0.596
08/21/00	08:29:47	2.3413	-0.594
08/21/00	08:29:55	2.4813	-0.589
08/21/00	08:30:04	2.6297	-0.580
08/21/00	08:30:14	2.7863	-0.570
08/21/00	08:30:24	2.9530	-0.566
08/21/00	08:30:34	3.1297	-0.559
08/21/00	08:30:45	3.3163	-0.550
08/21/00	08:30:57	3.5147	-0.541
08/21/00	08:31:10	3.7247	-0.531
08/21/00	08:31:23	3.9463	-0.524
08/21/00	08:31:37	4.1813	-0.524
08/21/00	08:31:52	4.4297	-0.511
08/21/00	08:32:08	4.6930	-0.501
08/21/00	08:32:25	4.9730	-0.499
08/21/00	08:32:43	5.2697	-0.490
08/21/00	08:33:01	5.5830	-0.485
08/21/00	08:33:21	5.9147	-0.481
08/21/00	08:33:42	6.2663	-0.471
08/21/00	08:34:05	6.6397	-0.471
08/21/00	08:34:29	7.0347	-0.460
08/21/00	08:34:54	7.4530	-0.455
08/21/00	08:35:20	7.8963	-0.441
08/21/00	08:35:48	8.3663	-0.437
08/21/00	08:36:18	8.8647	-0.430
08/21/00	08:36:50	9.3913	-0.425
08/21/00	08:37:23	9.9497	-0.416
08/21/00	08:37:59	10.5413	-0.411
08/21/00	08:38:37	11.1680	-0.404
08/21/00	08:39:16	11.8313	-0.400
08/21/00	08:39:59	12.5347	-0.391
08/21/00	08:40:43	13.2797	-0.391
08/21/00	08:41:31	14.0697	-0.386
08/21/00	08:42:21	14.9063	-0.381
08/21/00	08:43:14	15.7913	-0.377
08/21/00	08:44:10	16.7297	-0.377
08/21/00	08:45:10	17.7230	-0.374
08/21/00	08:46:13	18.7763	-0.370
08/21/00	08:47:20	19.8913	-0.370
08/21/00	08:48:31	21.0730	-0.365
08/21/00	08:49:46	22.3247	-0.365
08/21/00	08:51:05	23.6497	-0.356
08/21/00	08:52:30	25.0547	-0.356
08/21/00	08:53:59	26.5430	-0.356
08/21/00	08:55:34	28.1180	-0.351
08/21/00	08:57:14	29.7863	-0.347
08/21/00	08:59:00	31.5547	-0.342
08/21/00	09:00:52	33.4280	-0.340
08/21/00	09:02:51	35.4113	-0.340
08/21/00	09:04:57	37.5130	-0.335
08/21/00	09:07:11	39.7397	-0.331
08/21/00	09:09:32	42.0980	-0.326
08/21/00	09:12:02	44.5963	-0.321
08/21/00	09:14:41	47.2430	-0.317
08/21/00	09:17:29	50.0463	-0.312
08/21/00	09:20:27	53.0147	-0.312

08/21/00	09:23:36	56.1597	-0.305
08/21/00	09:26:56	59.4913	-0.305
08/21/00	09:30:28	63.0197	-0.301
08/21/00	09:34:12	66.7580	-0.296
08/21/00	09:38:10	70.7180	-0.291
08/21/00	09:42:21	74.9113	-0.287
08/21/00	09:46:48	79.3547	-0.287
08/21/00	09:51:30	84.0613	-0.278
08/21/00	09:56:29	89.0463	-0.275
08/21/00	10:01:46	94.3263	-0.271
08/21/00	10:07:22	99.9197	-0.266
08/21/00	10:13:17	105.8447	-0.261
08/21/00	10:19:34	112.1197	-0.257
08/21/00	10:26:13	118.7680	-0.252
08/21/00	10:33:15	125.8097	-0.245
08/21/00	10:40:43	133.2680	-0.236
08/21/00	10:48:37	141.1680	-0.231
08/21/00	10:56:59	149.5363	-0.231
08/21/00	11:05:51	158.4013	-0.222
08/21/00	11:15:14	167.7913	-0.218
08/21/00	11:25:11	177.7380	-0.215
08/21/00	11:35:11	187.7380	-0.206
08/21/00	11:45:11	197.7380	-0.206
08/21/00	11:55:11	207.7380	-0.201
08/21/00	12:05:11	217.7380	-0.192
08/21/00	12:15:11	227.7380	-0.188
08/21/00	12:25:11	237.7380	-0.183
08/21/00	12:35:11	247.7380	-0.181
08/21/00	12:45:11	257.7380	-0.176

HYDRAULIC CONDUCTIVITY CALCULATIONS FROM SLUG TESTS					
K calculated after Bouwer and Rice, 1976					
SLUG TEST	23MW02D - Rising Head				
Scn Int L=	10	Tyo=	0	sec	
WT to Well Bt H=	21.6	Yo=	1.7	feet	
Aq Depth D=	21.6	*			
Rad Borehole Rw=	0.25	Tyt=	3.95	sec	
Case Rcase=	0.25	Yt=	0.1	feet	
Cal Eff Rc' Rc=	0.250				
One used in K calc Rc=	0.25				
L\Rw=	40.00				
A=	2.4				
B=	0.4				
C=	2				
IF D>H			IF D=H		
LN(Re/Rw)=	#NUM!		LN(Re/Rw)=	3.37049	
Re=	#NUM!		Re=	7.2731948	
K=	#NUM!	ft/sec	K=	7.55E-03	ft/sec
	#NUM!	cm/sec		2.30E-01	cm/sec
* Assumed					

23MW02D-RH


10
1
0.1
CHANGE IN HEAD (feet)
Y_0 = 1.7'
Y_t = 0.10'
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
ELAPSED TIME (min)
T_0 = 0 sec
T_t = 4.0 sec

In-Situ Inc. Troll

Report generated: 09/06/00 09:31:24
Report from file: C:\WINSITU\NSB-SLUG\23-02D-R.BIN
DataMgr Version 2.31.0.0

Serial number: 00000890
Firmware Version 7.10
Unit name: Troll 4000

Test name: 23MW02D-R

Test defined on: 08/22/00 14:32:12
Test started on: 08/22/00 15:31:10
Test stopped on: 08/22/00 16:12:56
Test extracted on: 08/22/00 17:21:50

Data gathered using Logarithmic testing
Maximum time between data points: 10.0000 Minutes.
Number of data samples: 125

TOTAL DATA SAMPLES 125

Channel number [2]
Measurement type: Pressure/Level
Channel name: pressure
Sensor Range: 15 PSI.
Specific gravity: 1.000
Mode: Surface
User-defined reference: 0.000 Feet H2O
Referenced on: channel definition.
Pressure head at reference: 16.682 Feet H2O

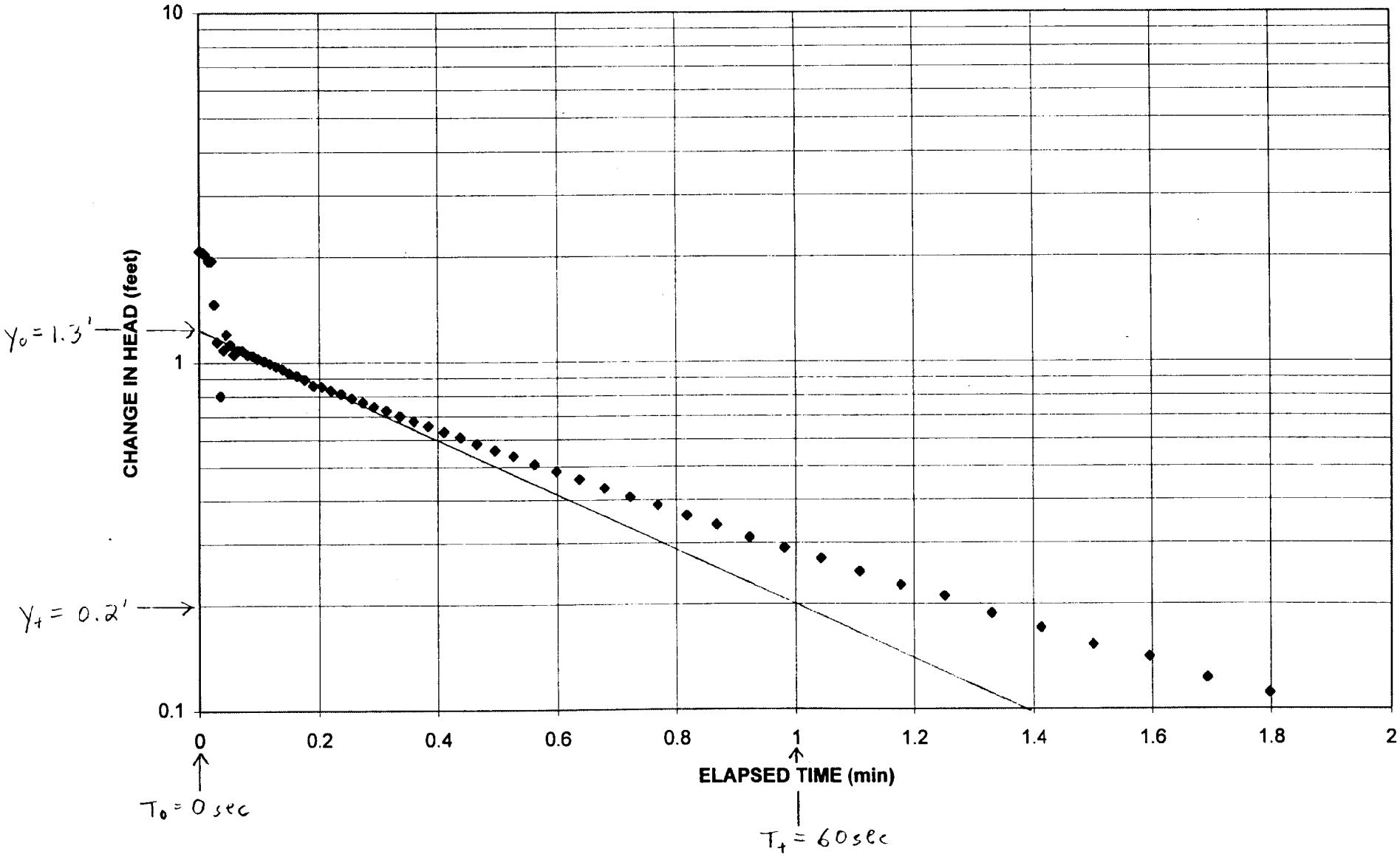
Date	Time	ET (min)	Chan[2] Feet H2O
08/22/00	15:31:10	0.0000	0.011
08/22/00	15:31:10	0.0050	0.011
08/22/00	15:31:10	0.0100	0.011
08/22/00	15:31:10	0.0150	-1.073
08/22/00	15:31:11	0.0200	-1.786
08/22/00	15:31:11	0.0250	-1.447
08/22/00	15:31:11	0.0300	-1.043
08/22/00	15:31:12	0.0350	-0.844
08/22/00	15:31:12	0.0400	-0.676
08/22/00	15:31:12	0.0450	-0.547
08/22/00	15:31:13	0.0500	-0.448
08/22/00	15:31:13	0.0550	-0.381
08/22/00	15:31:13	0.0600	-0.328
08/22/00	15:31:13	0.0650	-0.289
08/22/00	15:31:14	0.0700	-0.259
08/22/00	15:31:14	0.0750	-0.233
08/22/00	15:31:14	0.0800	-0.222
08/22/00	15:31:15	0.0850	-0.208

08/22/00	15:31:15	0.0900	-0.194
08/22/00	15:31:15	0.0950	-0.187
08/22/00	15:31:16	0.1000	-0.178
08/22/00	15:31:16	0.1058	-0.173
08/22/00	15:31:16	0.1120	-0.169
08/22/00	15:31:17	0.1185	-0.159
08/22/00	15:31:17	0.1255	-0.159
08/22/00	15:31:17	0.1328	-0.157
08/22/00	15:31:18	0.1407	-0.152
08/22/00	15:31:18	0.1490	-0.143
08/22/00	15:31:19	0.1578	-0.143
08/22/00	15:31:20	0.1672	-0.129
08/22/00	15:31:20	0.1770	-0.127
08/22/00	15:31:21	0.1875	-0.118
08/22/00	15:31:21	0.1985	-0.113
08/22/00	15:31:22	0.2102	-0.104
08/22/00	15:31:23	0.2227	-0.099
08/22/00	15:31:24	0.2358	-0.093
08/22/00	15:31:24	0.2498	-0.093
08/22/00	15:31:25	0.2647	-0.088
08/22/00	15:31:26	0.2803	-0.072
08/22/00	15:31:27	0.2970	-0.069
08/22/00	15:31:28	0.3147	-0.065
08/22/00	15:31:30	0.3333	-0.065
08/22/00	15:31:31	0.3532	-0.056
08/22/00	15:31:32	0.3742	-0.051
08/22/00	15:31:33	0.3963	-0.046
08/22/00	15:31:35	0.4198	-0.042
08/22/00	15:31:36	0.4447	-0.037
08/22/00	15:31:38	0.4697	-0.035
08/22/00	15:31:39	0.4963	-0.035
08/22/00	15:31:41	0.5247	-0.030
08/22/00	15:31:43	0.5547	-0.030
08/22/00	15:31:45	0.5863	-0.026
08/22/00	15:31:47	0.6213	-0.016
08/22/00	15:31:49	0.6580	-0.016
08/22/00	15:31:51	0.6963	-0.016
08/22/00	15:31:54	0.7380	-0.016
08/22/00	15:31:56	0.7813	-0.016
08/22/00	15:31:59	0.8280	-0.012
08/22/00	15:32:02	0.8763	-0.012
08/22/00	15:32:05	0.9280	-0.012
08/22/00	15:32:08	0.9830	-0.012
08/22/00	15:32:12	1.0413	-0.007
08/22/00	15:32:16	1.1030	-0.005
08/22/00	15:32:20	1.1680	-0.005
08/22/00	15:32:24	1.2380	-0.005
08/22/00	15:32:28	1.3113	0.000
08/22/00	15:32:33	1.3897	0.000
08/22/00	15:32:38	1.4730	0.000
08/22/00	15:32:43	1.5613	0.000
08/22/00	15:32:49	1.6547	0.000
08/22/00	15:32:55	1.7530	0.004
08/22/00	15:33:01	1.8580	0.004
08/22/00	15:33:08	1.9680	0.004
08/22/00	15:33:15	2.0847	0.000

08/22/00	15:33:22	2.2097	0.000
08/22/00	15:33:30	2.3413	0.004
08/22/00	15:33:38	2.4813	0.004
08/22/00	15:33:47	2.6297	0.009
08/22/00	15:33:57	2.7863	0.009
22/00	15:34:07	2.9530	0.009
08/22/00	15:34:17	3.1297	0.014
08/22/00	15:34:28	3.3163	0.009
08/22/00	15:34:40	3.5147	0.009
08/22/00	15:34:53	3.7247	0.009
08/22/00	15:35:06	3.9463	0.009
08/22/00	15:35:20	4.1813	0.009
08/22/00	15:35:35	4.4297	0.009
08/22/00	15:35:51	4.6930	0.009
08/22/00	15:36:08	4.9730	0.009
08/22/00	15:36:26	5.2697	0.009
08/22/00	15:36:44	5.5830	0.009
08/22/00	15:37:04	5.9147	0.009
08/22/00	15:37:25	6.2663	0.014
08/22/00	15:37:48	6.6397	0.014
08/22/00	15:38:12	7.0347	0.014
08/22/00	15:38:37	7.4530	0.009
08/22/00	15:39:03	7.8963	0.009
08/22/00	15:39:31	8.3663	0.018
08/22/00	15:40:01	8.8647	0.014
08/22/00	15:40:33	9.3913	0.018
08/22/00	15:41:06	9.9497	0.018
08/22/00	15:41:42	10.5413	0.018
22/00	15:42:20	11.1680	0.018
08/22/00	15:42:59	11.8313	0.018
08/22/00	15:43:42	12.5347	0.014
08/22/00	15:44:26	13.2797	0.018
08/22/00	15:45:14	14.0697	0.018
08/22/00	15:46:04	14.9063	0.018
08/22/00	15:46:57	15.7913	0.018
08/22/00	15:47:53	16.7297	0.018
08/22/00	15:48:53	17.7230	0.018
08/22/00	15:49:56	18.7763	0.018
08/22/00	15:51:03	19.8913	0.018
08/22/00	15:52:14	21.0730	0.018
08/22/00	15:53:29	22.3247	0.018
08/22/00	15:54:48	23.6497	0.018
08/22/00	15:56:13	25.0547	0.018
08/22/00	15:57:42	26.5430	0.018
08/22/00	15:59:17	28.1180	0.018
08/22/00	16:00:57	29.7863	0.009
08/22/00	16:02:43	31.5547	0.009
08/22/00	16:04:35	33.4280	0.014
08/22/00	16:06:34	35.4113	0.014
08/22/00	16:08:40	37.5130	0.014
08/22/00	16:10:54	39.7397	0.014

HYDRAULIC CONDUCTIVITY CALCULATIONS FROM SLUG TESTS					
K calculated after Bouwer and Rice, 1976					
SLUG TEST	23MW04S - Falling Head				
Scn Int L=	10	Tyo=	0	sec	
WT to Well Bt H=	46.5	Yo=	1.3	feet	
Aq Depth D=	46.5				
Rad Borehole Rw=	0.375	Tyt=	60	sec	
Case Rcase=	0.0833	Yt=	0.2	feet	
Cal Eff Rc' Rc=	0.217				
One used in K calc Rc=	0.0833				
L\Rw=	26.67				
A=	2.4				
B=	0.4				
C=	1.9				
IF D>H			IF D=H		
LN(Re/Rw)=	#NUM!		LN(Re/Rw)=	3.3394285	
Re=	#NUM!		Re=	10.576126	
K=	#NUM!	ft/sec	K=	3.61E-05	ft/sec
	#NUM!	cm/sec		1.10E-03	cm/sec

23MW04S-FH


10
1
0.1
CHANGE IN HEAD (feet)
$Y_0 = 1.3'$
$Y_t = 0.2'$
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
ELAPSED TIME (min)
$T_0 = 0$ sec
$T_t = 60$ sec

In-Situ Inc. Troll

Report generated: 09/06/00 10:03:04
Report from file: C:\WINSITU\NSB-SLUG\23-04S-F.BIN
DataMgr Version 2.31.0.0

Serial number: 00000890
Firmware Version 7.10
Unit name: Troll 4000

Test name: 23MW04S-F

Test defined on: 08/20/00 10:04:18
Test started on: 08/20/00 10:15:28
Test stopped on: 08/20/00 10:30:27
Test extracted on: 08/20/00 17:41:03

Data gathered using Logarithmic testing
Maximum time between data points: 10.0000 Minutes.
Number of data samples: 108

TOTAL DATA SAMPLES 108

Channel number [2]
Measurement type: Pressure/Level
Channel name: pressure
Sensor Range: 15 PSI.
Specific gravity: 1.000
Mode: Surface
User-defined reference: 0.000 Feet H2O
Referenced on: channel definition.
Pressure head at reference: 17.140 Feet H2O

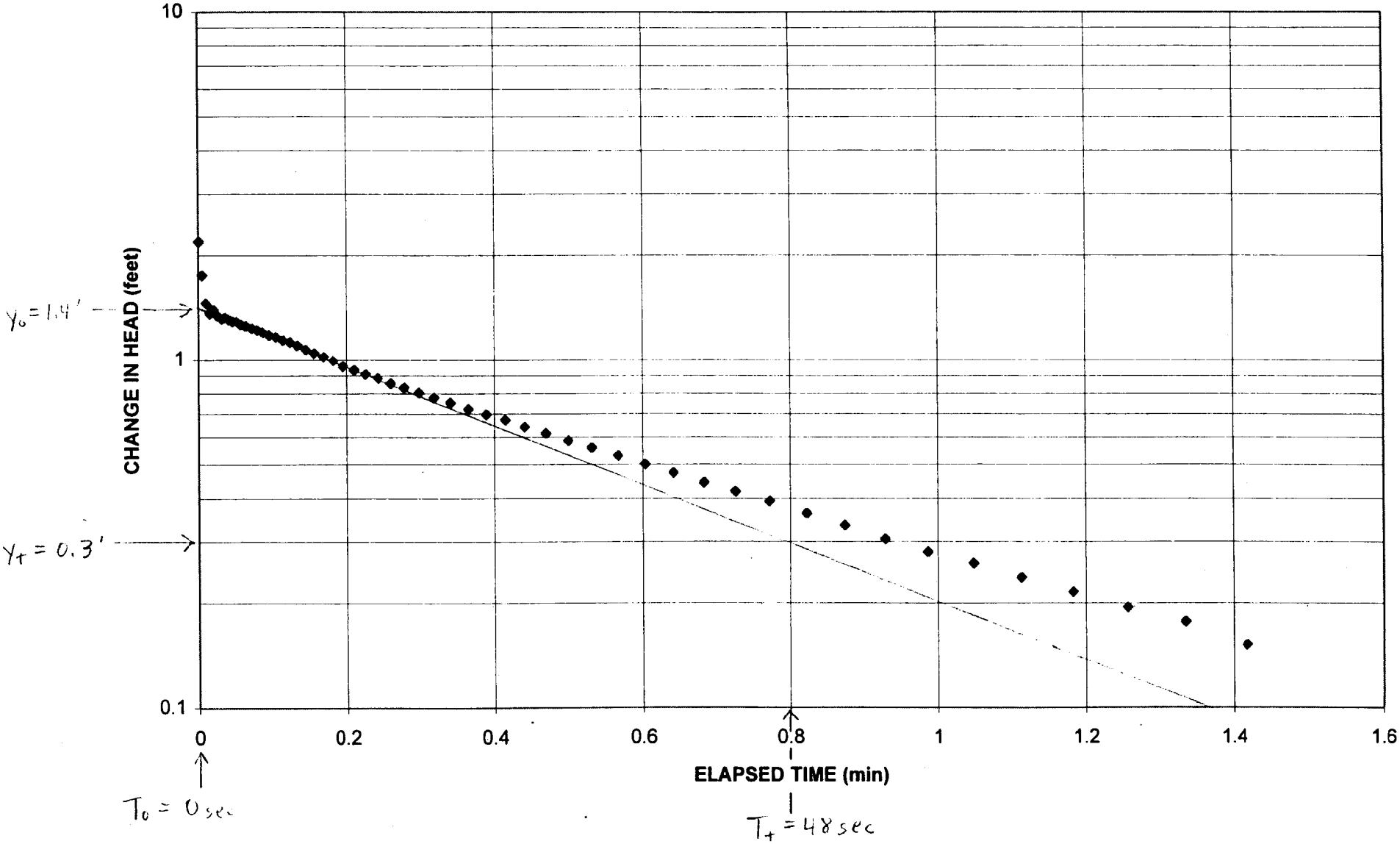
Date	Time	ET (min)	Chan[2] Feet H2O
08/20/00	10:15:28	0.0000	0.003
08/20/00	10:15:28	0.0050	0.003
08/20/00	10:15:28	0.0100	0.003
08/20/00	10:15:28	0.0150	0.003
08/20/00	10:15:29	0.0200	-0.002
08/20/00	10:15:29	0.0250	-0.002
08/20/00	10:15:29	0.0300	0.176
08/20/00	10:15:30	0.0350	0.536
08/20/00	10:15:30	0.0400	1.299
08/20/00	10:15:30	0.0450	1.915
08/20/00	10:15:31	0.0500	2.061
08/20/00	10:15:31	0.0550	2.220
08/20/00	10:15:31	0.0600	2.086
08/20/00	10:15:31	0.0650	2.065
08/20/00	10:15:32	0.0700	2.026
08/20/00	10:15:32	0.0750	1.950
08/20/00	10:15:32	0.0800	1.950
08/20/00	10:15:33	0.0850	1.470

08/20/00	10:15:33	0.0900	1.145
08/20/00	10:15:33	0.0950	0.803
08/20/00	10:15:34	0.1000	1.087
08/20/00	10:15:34	0.1058	1.205
08/20/00	10:15:34	0.1120	1.126
/20/00	10:15:35	0.1185	1.057
08/20/00	10:15:35	0.1255	1.083
08/20/00	10:15:35	0.1328	1.083
08/20/00	10:15:36	0.1407	1.053
08/20/00	10:15:36	0.1490	1.046
08/20/00	10:15:37	0.1578	1.027
08/20/00	10:15:38	0.1672	1.011
08/20/00	10:15:38	0.1770	0.993
08/20/00	10:15:39	0.1875	0.976
08/20/00	10:15:39	0.1985	0.958
08/20/00	10:15:40	0.2102	0.933
08/20/00	10:15:41	0.2227	0.916
08/20/00	10:15:42	0.2358	0.893
08/20/00	10:15:42	0.2498	0.859
08/20/00	10:15:43	0.2647	0.852
08/20/00	10:15:44	0.2803	0.833
08/20/00	10:15:45	0.2970	0.813
08/20/00	10:15:46	0.3147	0.792
08/20/00	10:15:48	0.3333	0.769
08/20/00	10:15:49	0.3532	0.748
08/20/00	10:15:50	0.3742	0.727
08/20/00	10:15:51	0.3963	0.702
08/20/00	10:15:53	0.4198	0.679
/20/00	10:15:54	0.4447	0.658
08/20/00	10:15:56	0.4697	0.633
08/20/00	10:15:57	0.4963	0.610
08/20/00	10:15:59	0.5247	0.584
08/20/00	10:16:01	0.5547	0.559
08/20/00	10:16:03	0.5863	0.538
08/20/00	10:16:05	0.6213	0.510
08/20/00	10:16:07	0.6580	0.485
08/20/00	10:16:09	0.6963	0.460
08/20/00	10:16:12	0.7380	0.434
08/20/00	10:16:14	0.7813	0.409
08/20/00	10:16:17	0.8280	0.386
08/20/00	10:16:20	0.8763	0.361
08/20/00	10:16:23	0.9280	0.340
08/20/00	10:16:26	0.9830	0.312
08/20/00	10:16:30	1.0413	0.291
08/20/00	10:16:34	1.1030	0.271
08/20/00	10:16:38	1.1680	0.248
08/20/00	10:16:42	1.2380	0.227
08/20/00	10:16:46	1.3113	0.211
08/20/00	10:16:51	1.3897	0.188
08/20/00	10:16:56	1.4730	0.171
08/20/00	10:17:01	1.5613	0.153
/20/00	10:17:07	1.6547	0.141
08/20/00	10:17:13	1.7530	0.123
08/20/00	10:17:19	1.8580	0.111
08/20/00	10:17:26	1.9680	0.098
08/20/00	10:17:33	2.0847	0.088

08/20/00	10:17:40	2.2097	0.077
08/20/00	10:17:48	2.3413	0.068
08/20/00	10:17:56	2.4813	0.058
08/20/00	10:18:05	2.6297	0.054
08/20/00	10:18:15	2.7863	0.047
08/20/00	10:18:25	2.9530	0.042
08/20/00	10:18:35	3.1297	0.038
08/20/00	10:18:46	3.3163	0.028
08/20/00	10:18:58	3.5147	0.028
08/20/00	10:19:11	3.7247	0.024
08/20/00	10:19:24	3.9463	0.024
08/20/00	10:19:38	4.1813	0.021
08/20/00	10:19:53	4.4297	0.021
08/20/00	10:20:09	4.6930	0.017
08/20/00	10:20:26	4.9730	0.021
08/20/00	10:20:44	5.2697	0.017
08/20/00	10:21:02	5.5830	0.017
08/20/00	10:21:22	5.9147	0.017
08/20/00	10:21:43	6.2663	0.017
08/20/00	10:22:06	6.6397	0.012
08/20/00	10:22:30	7.0347	0.012
08/20/00	10:22:55	7.4530	0.012
08/20/00	10:23:21	7.8963	0.012
08/20/00	10:23:49	8.3663	0.017
08/20/00	10:24:19	8.8647	0.012
08/20/00	10:24:51	9.3913	0.012
08/20/00	10:25:24	9.9497	0.012
08/20/00	10:26:00	10.5413	0.012
08/20/00	10:26:38	11.1680	0.008
08/20/00	10:27:17	11.8313	0.008
08/20/00	10:28:00	12.5347	0.012
08/20/00	10:28:44	13.2797	0.012
08/20/00	10:29:32	14.0697	0.012
08/20/00	10:30:22	14.9063	0.012

HYDRAULIC CONDUCTIVITY CALCULATIONS FROM SLUG TESTS					
K calculated after Bouwer and Rice, 1976					
SLUG TEST	23MW04S - Rising Head				
Scn Int L=	10	Tyo=	0	sec	
WT to Well Bt H=	46.5	Yo=	1.4	feet	
Aq Depth D=	46.5				
Rad Borehole Rw=	0.375	Tyt=	48	sec	
Case Rcase=	0.0833	Yt=	0.3	feet	
Cal Eff Rc' Rc=	0.217				
One used in K calc Rc=	0.0833				
L\Rw=	26.67				
A=	2.4				
B=	0.4				
C=	1.9				
IF D>H			IF D=H		
LN(Re/Rw)=	#NUM!		LN(Re/Rw)=	3.3394285	
Re=	#NUM!		Re=	10.576126	
K=	#NUM!	ft/sec	K=	3.72E-05	ft/sec
	#NUM!	cm/sec		1.13E-03	cm/sec

23MW04S-RH


10
1
0.1
CHANGE IN HEAD (feet)
$y_0 = 1.4'$
$y_t = 0.3'$
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
ELAPSED TIME (min)
$T_0 = 0$ sec
$T_t = 48$ sec

In-Situ Inc. Troll

Report generated: 09/06/00 10:01:53
Report from file: C:\WINSITU\NSB-SLUG\23-04S-R.BIN
DataMgr Version 2.31.0.0

Serial number: 00000890
Firmware Version 7.10
Unit name: Troll 4000

Test name: 23MW04S-R

Test defined on: 08/20/00 10:05:07
Test started on: 08/20/00 10:31:16
Test stopped on: 08/20/00 10:44:55
Test extracted on: 08/20/00 17:42:27

Data gathered using Logarithmic testing
Maximum time between data points: 10.0000 Minutes.
Number of data samples: 106

TOTAL DATA SAMPLES 106

Channel number [2]
Measurement type: Pressure/Level
Channel name: pressure
Sensor Range: 15 PSI.
Specific gravity: 1.000
Mode: Surface
User-defined reference: 0.000 Feet H2O
Referenced on: channel definition.
Pressure head at reference: 17.140 Feet H2O

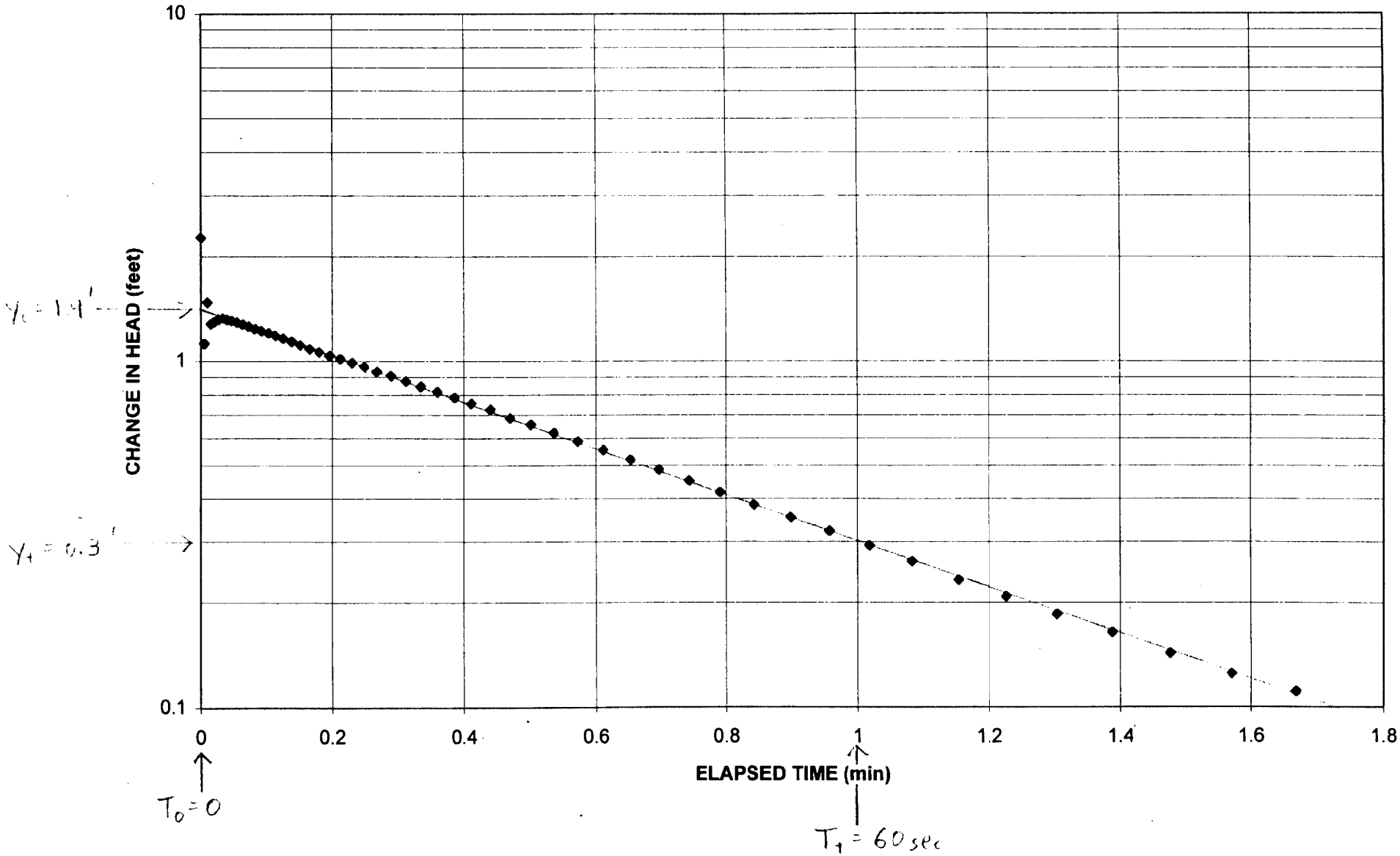
Date	Time	ET (min)	Chan[2] Feet H2O
08/20/00	10:31:16	0.0000	0.003
08/20/00	10:31:16	0.0050	-0.002
08/20/00	10:31:16	0.0100	-0.002
08/20/00	10:31:16	0.0150	-0.002
08/20/00	10:31:17	0.0200	0.003
08/20/00	10:31:17	0.0250	0.003
08/20/00	10:31:17	0.0300	-0.276
08/20/00	10:31:18	0.0350	-0.620
08/20/00	10:31:18	0.0400	-0.906
08/20/00	10:31:18	0.0450	-1.706
08/20/00	10:31:19	0.0500	-1.688
08/20/00	10:31:19	0.0550	-2.191
08/20/00	10:31:19	0.0600	-1.752
08/20/00	10:31:19	0.0650	-1.452
08/20/00	10:31:20	0.0700	-1.360
08/20/00	10:31:20	0.0750	-1.395
08/20/00	10:31:20	0.0800	-1.339
08/20/00	10:31:21	0.0850	-1.314

08/20/00	10:31:21	0.0900	-1.326
08/20/00	10:31:21	0.0950	-1.309
08/20/00	10:31:22	0.1000	-1.293
08/20/00	10:31:22	0.1058	-1.293
08/20/00	10:31:22	0.1120	-1.266
08/20/00	10:31:23	0.1185	-1.254
08/20/00	10:31:23	0.1255	-1.236
08/20/00	10:31:23	0.1328	-1.220
08/20/00	10:31:24	0.1407	-1.201
08/20/00	10:31:24	0.1490	-1.180
08/20/00	10:31:25	0.1578	-1.164
08/20/00	10:31:26	0.1672	-1.141
08/20/00	10:31:26	0.1770	-1.125
08/20/00	10:31:27	0.1875	-1.100
08/20/00	10:31:27	0.1985	-1.072
08/20/00	10:31:28	0.2102	-1.047
08/20/00	10:31:29	0.2227	-1.021
08/20/00	10:31:30	0.2358	-0.996
08/20/00	10:31:30	0.2498	-0.957
08/20/00	10:31:31	0.2647	-0.936
08/20/00	10:31:32	0.2803	-0.910
08/20/00	10:31:33	0.2970	-0.887
08/20/00	10:31:34	0.3147	-0.857
08/20/00	10:31:36	0.3333	-0.832
08/20/00	10:31:37	0.3532	-0.807
08/20/00	10:31:38	0.3742	-0.781
08/20/00	10:31:39	0.3963	-0.754
08/20/00	10:31:41	0.4198	-0.724
08/20/00	10:31:42	0.4447	-0.698
08/20/00	10:31:44	0.4697	-0.673
08/20/00	10:31:45	0.4963	-0.643
08/20/00	10:31:47	0.5247	-0.617
08/20/00	10:31:49	0.5547	-0.587
08/20/00	10:31:51	0.5863	-0.560
08/20/00	10:31:53	0.6213	-0.530
08/20/00	10:31:55	0.6580	-0.500
08/20/00	10:31:57	0.6963	-0.474
08/20/00	10:32:00	0.7380	-0.444
08/20/00	10:32:02	0.7813	-0.419
08/20/00	10:32:05	0.8280	-0.394
08/20/00	10:32:08	0.8763	-0.364
08/20/00	10:32:11	0.9280	-0.336
08/20/00	10:32:14	0.9830	-0.306
08/20/00	10:32:18	1.0413	-0.281
08/20/00	10:32:22	1.1030	-0.260
08/20/00	10:32:26	1.1680	-0.237
08/20/00	10:32:30	1.2380	-0.216
08/20/00	10:32:34	1.3113	-0.195
08/20/00	10:32:39	1.3897	-0.177
08/20/00	10:32:44	1.4730	-0.152
08/20/00	10:32:49	1.5613	-0.135
08/20/00	10:32:55	1.6547	-0.122
08/20/00	10:33:01	1.7530	-0.105
08/20/00	10:33:07	1.8580	-0.092
08/20/00	10:33:14	1.9680	-0.078
08/20/00	10:33:21	2.0847	-0.071

08/20/00	10:33:28	2.2097	-0.057
08/20/00	10:33:36	2.3413	-0.048
08/20/00	10:33:44	2.4813	-0.043
08/20/00	10:33:53	2.6297	-0.036
08/20/00	10:34:03	2.7863	-0.032
08/20/00	10:34:13	2.9530	-0.022
08/20/00	10:34:23	3.1297	-0.013
08/20/00	10:34:34	3.3163	-0.013
08/20/00	10:34:46	3.5147	-0.011
08/20/00	10:34:59	3.7247	-0.006
08/20/00	10:35:12	3.9463	-0.006
08/20/00	10:35:26	4.1813	-0.006
08/20/00	10:35:41	4.4297	-0.002
08/20/00	10:35:57	4.6930	-0.002
08/20/00	10:36:14	4.9730	0.003
08/20/00	10:36:32	5.2697	0.003
08/20/00	10:36:50	5.5830	0.003
08/20/00	10:37:10	5.9147	0.003
08/20/00	10:37:31	6.2663	0.008
08/20/00	10:37:54	6.6397	0.008
08/20/00	10:38:18	7.0347	0.003
08/20/00	10:38:43	7.4530	0.008
08/20/00	10:39:09	7.8963	0.003
08/20/00	10:39:37	8.3663	0.008
08/20/00	10:40:07	8.8647	0.008
08/20/00	10:40:39	9.3913	0.008
08/20/00	10:41:12	9.9497	0.008
08/20/00	10:41:48	10.5413	0.003
08/20/00	10:42:26	11.1680	0.003
08/20/00	10:43:05	11.8313	0.008
08/20/00	10:43:48	12.5347	0.003
08/20/00	10:44:32	13.2797	0.008

HYDRAULIC CONDUCTIVITY CALCULATIONS FROM SLUG TESTS					
K calculated after Bouwer and Rice, 1976					
SLUG TEST	23MW04D - Falling Head				
Scn Int L=	30	Tyo=	0	sec	
WT to Well Bt H=	86.2	Yo=	1.4	feet	
Aq Depth D=	86.2	*			
Rad Borehole Rw=	0.25	Tyt=	60	sec	
Case Rcase=	0.0833	Yt=	0.3	feet	
Cal Eff Rc' Rc=	0.154				
One used in K calc Rc=	0.0833				
L\Rw=	120.00				
A=	4.7				
B=	0.8				
C=	4.7				
IF D>H			IF D=H		
LN(Re/Rw)=	#NUM!		LN(Re/Rw)=	4.3970102	
Re=	#NUM!		Re=	20.301927	
K=	#NUM!	ft/sec	K=	1.31E-05	ft/sec
	#NUM!	cm/sec		3.98E-04	cm/sec
* Assumed					

23MW04D-FH


10
1
0.1
CHANGE IN HEAD (feet)
$Y_0 = 1.4'$
$Y_1 = 0.3'$
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
ELAPSED TIME (min)
$T_0 = 0$
$T_1 = 60$ sec

In-Situ Inc. Troll

Report generated: 09/06/00 09:58:23
Report from file: C:\WINSITU\NSB-SLUG\23-04DF2.BIN
DataMgr Version 2.31.0.0

Serial number: 00000890
Firmware Version 7.10
Unit name: Troll 4000

Test name: 23MW04D-F2

Test defined on: 08/18/00 18:00:26
Test started on: 08/18/00 18:01:58
Test stopped on: 08/18/00 18:14:18
Test extracted on: 08/20/00 17:38:02

Data gathered using Logarithmic testing
Maximum time between data points: 10.0000 Minutes.
Number of data samples: 104

TOTAL DATA SAMPLES 104

Channel number [2]
Measurement type: Pressure/Level
Channel name: pressure
Sensor Range: 15 PSI.
Specific gravity: 1.000
Mode: Surface
User-defined reference: 0.000 Feet H2O
Referenced on: test start
Pressure head at reference: 11.019 Feet H2O

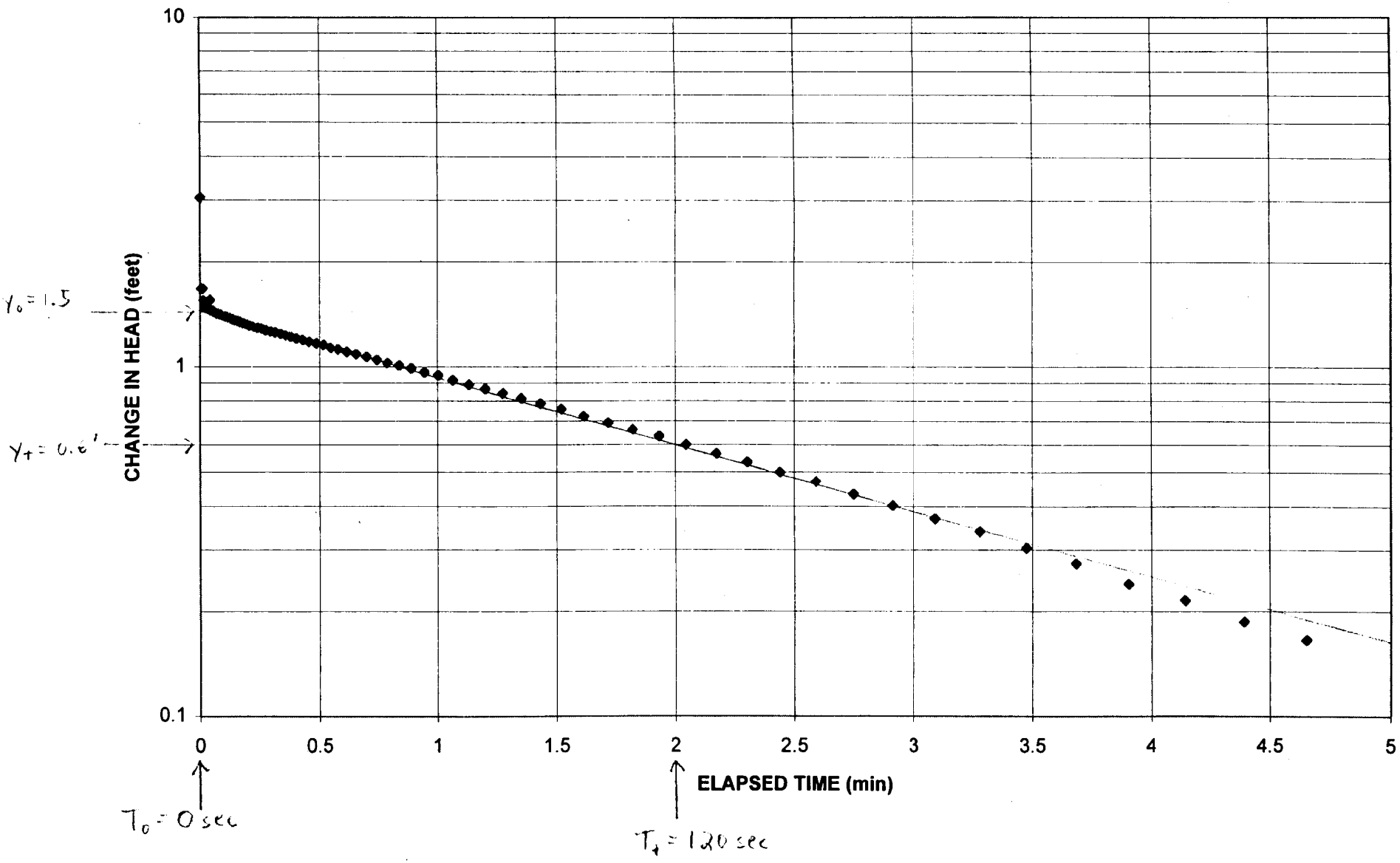
Date	Time	ET (min)	Chan[2] Feet H2O
08/18/00	18:01:58	0.0000	0.000
08/18/00	18:01:58	0.0050	0.000
08/18/00	18:01:58	0.0100	0.000
08/18/00	18:01:58	0.0150	-0.005
08/18/00	18:01:59	0.0200	-0.005
08/18/00	18:01:59	0.0250	-0.005
08/18/00	18:01:59	0.0300	-0.005
08/18/00	18:02:00	0.0350	-0.005
08/18/00	18:02:00	0.0400	-0.005
08/18/00	18:02:00	0.0450	-0.005
08/18/00	18:02:01	0.0500	0.000
08/18/00	18:02:01	0.0550	3.333
08/18/00	18:02:01	0.0600	1.169
08/18/00	18:02:01	0.0650	2.055
08/18/00	18:02:02	0.0700	2.244
08/18/00	18:02:02	0.0750	2.270
08/18/00	18:02:02	0.0800	2.265
08/18/00	18:02:03	0.0850	2.265

08/18/00	18:02:03	0.0900	1.121
08/18/00	18:02:03	0.0950	1.479
08/18/00	18:02:04	0.1000	1.280
08/18/00	18:02:04	0.1058	1.301
08/18/00	18:02:04	0.1120	1.319
18/00	18:02:05	0.1185	1.333
08/18/00	18:02:05	0.1255	1.319
08/18/00	18:02:05	0.1328	1.310
08/18/00	18:02:06	0.1407	1.299
08/18/00	18:02:06	0.1490	1.280
08/18/00	18:02:07	0.1578	1.264
08/18/00	18:02:08	0.1672	1.241
08/18/00	18:02:08	0.1770	1.225
08/18/00	18:02:09	0.1875	1.206
08/18/00	18:02:09	0.1985	1.186
08/18/00	18:02:10	0.2102	1.165
08/18/00	18:02:11	0.2227	1.139
08/18/00	18:02:12	0.2358	1.112
08/18/00	18:02:12	0.2498	1.084
08/18/00	18:02:13	0.2647	1.063
08/18/00	18:02:14	0.2803	1.036
08/18/00	18:02:15	0.2970	1.015
08/18/00	18:02:16	0.3147	0.990
08/18/00	18:02:18	0.3333	0.964
08/18/00	18:02:19	0.3532	0.934
08/18/00	18:02:20	0.3742	0.909
08/18/00	18:02:21	0.3963	0.877
08/18/00	18:02:23	0.4198	0.847
18/00	18:02:24	0.4447	0.817
08/18/00	18:02:26	0.4697	0.787
08/18/00	18:02:27	0.4963	0.757
08/18/00	18:02:29	0.5247	0.727
08/18/00	18:02:31	0.5547	0.687
08/18/00	18:02:33	0.5863	0.657
08/18/00	18:02:35	0.6213	0.623
08/18/00	18:02:37	0.6580	0.588
08/18/00	18:02:39	0.6963	0.556
08/18/00	18:02:42	0.7380	0.521
08/18/00	18:02:44	0.7813	0.487
08/18/00	18:02:47	0.8280	0.452
08/18/00	18:02:50	0.8763	0.418
08/18/00	18:02:53	0.9280	0.383
08/18/00	18:02:56	0.9830	0.353
08/18/00	18:03:00	1.0413	0.323
08/18/00	18:03:04	1.1030	0.293
08/18/00	18:03:08	1.1680	0.263
08/18/00	18:03:12	1.2380	0.233
08/18/00	18:03:16	1.3113	0.208
08/18/00	18:03:21	1.3897	0.185
08/18/00	18:03:26	1.4730	0.164
08/18/00	18:03:31	1.5613	0.143
18/00	18:03:37	1.6547	0.125
08/18/00	18:03:43	1.7530	0.111
08/18/00	18:03:49	1.8580	0.095
08/18/00	18:03:56	1.9680	0.081
08/18/00	18:04:03	2.0847	0.074

08/18/00	18:04:10	2.2097	0.065
08/18/00	18:04:18	2.3413	0.055
08/18/00	18:04:26	2.4813	0.048
08/18/00	18:04:35	2.6297	0.039
08/18/00	18:04:45	2.7863	0.039
08/18/00	18:04:55	2.9530	0.035
08/18/00	18:05:05	3.1297	0.035
08/18/00	18:05:16	3.3163	0.030
08/18/00	18:05:28	3.5147	0.021
08/18/00	18:05:41	3.7247	0.021
08/18/00	18:05:54	3.9463	0.021
08/18/00	18:06:08	4.1813	0.016
08/18/00	18:06:23	4.4297	0.021
08/18/00	18:06:39	4.6930	0.016
08/18/00	18:06:56	4.9730	0.016
08/18/00	18:07:14	5.2697	0.016
08/18/00	18:07:32	5.5830	0.014
08/18/00	18:07:52	5.9147	0.014
08/18/00	18:08:13	6.2663	0.014
08/18/00	18:08:36	6.6397	0.016
08/18/00	18:09:00	7.0347	0.014
08/18/00	18:09:25	7.4530	0.016
08/18/00	18:09:51	7.8963	0.014
08/18/00	18:10:19	8.3663	0.014
08/18/00	18:10:49	8.8647	0.014
08/18/00	18:11:21	9.3913	0.014
08/18/00	18:11:54	9.9497	0.009
08/18/00	18:12:30	10.5413	0.009
08/18/00	18:13:08	11.1680	0.014
08/18/00	18:13:47	11.8313	0.014

HYDRAULIC CONDUCTIVITY CALCULATIONS FROM SLUG TESTS					
K calculated after Bouwer and Rice, 1976					
SLUG TEST	23MW04D - Rising Head				
Scn Int L=	30	Tyo=	0	sec	
WT to Well Bt H=	86.2	Yo=	1.5	feet	
Aq Depth D=	86.2	*			
Rad Borehole Rw=	0.25	Tyt=	120	sec	
Case Rcase=	0.0833	Yt=	0.6	feet	
Cal Eff Rc' Rc=	0.154				
One used in K calc Rc=	0.0833				
L\Rw=	120.00				
A=	4.7				
B=	0.8				
C=	4.7				
IF D>H			IF D=H		
LN(Re/Rw)=	#NUM!		LN(Re/Rw)=	4.3970102	
Re=	#NUM!		Re=	20.301927	
K=	#NUM!	ft/sec	K=	3.88E-06	ft/sec
	#NUM!	cm/sec		1.18E-04	cm/sec
* Assumed					

23MW04D-RH


10
1
0.1
CHANGE IN HEAD (feet)
$Y_0 = 1.5$
$Y_t = 0.6'$
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5
ELAPSED TIME (min)
$T_0 = 0$ sec
$T_t = 120$ sec

In-Situ Inc. Troll

Report generated: 09/06/00 10:00:49
Report from file: C:\WINSITU\NSB-SLUG\23-04DR2.BIN
DataMgr Version 2.31.0.0

Serial number: 00000890
Firmware Version 7.10
Unit name: Troll 4000

Test name: 23MW04D-R2

Test defined on: 08/18/00 18:19:16
Test started on: 08/18/00 18:20:09
Test stopped on: 08/18/00 18:35:53
Test extracted on: 08/20/00 17:39:24

Data gathered using Logarithmic testing
Maximum time between data points: 10.0000 Minutes.
Number of data samples: 108

TOTAL DATA SAMPLES 108

Channel number [2]
Measurement type: Pressure/Level
Channel name: pressure
Sensor Range: 15 PSI.
Specific gravity: 1.000
Mode: Surface
User-defined reference: 0.000 Feet H2O
Referenced on: test start
Pressure head at reference: 11.026 Feet H2O

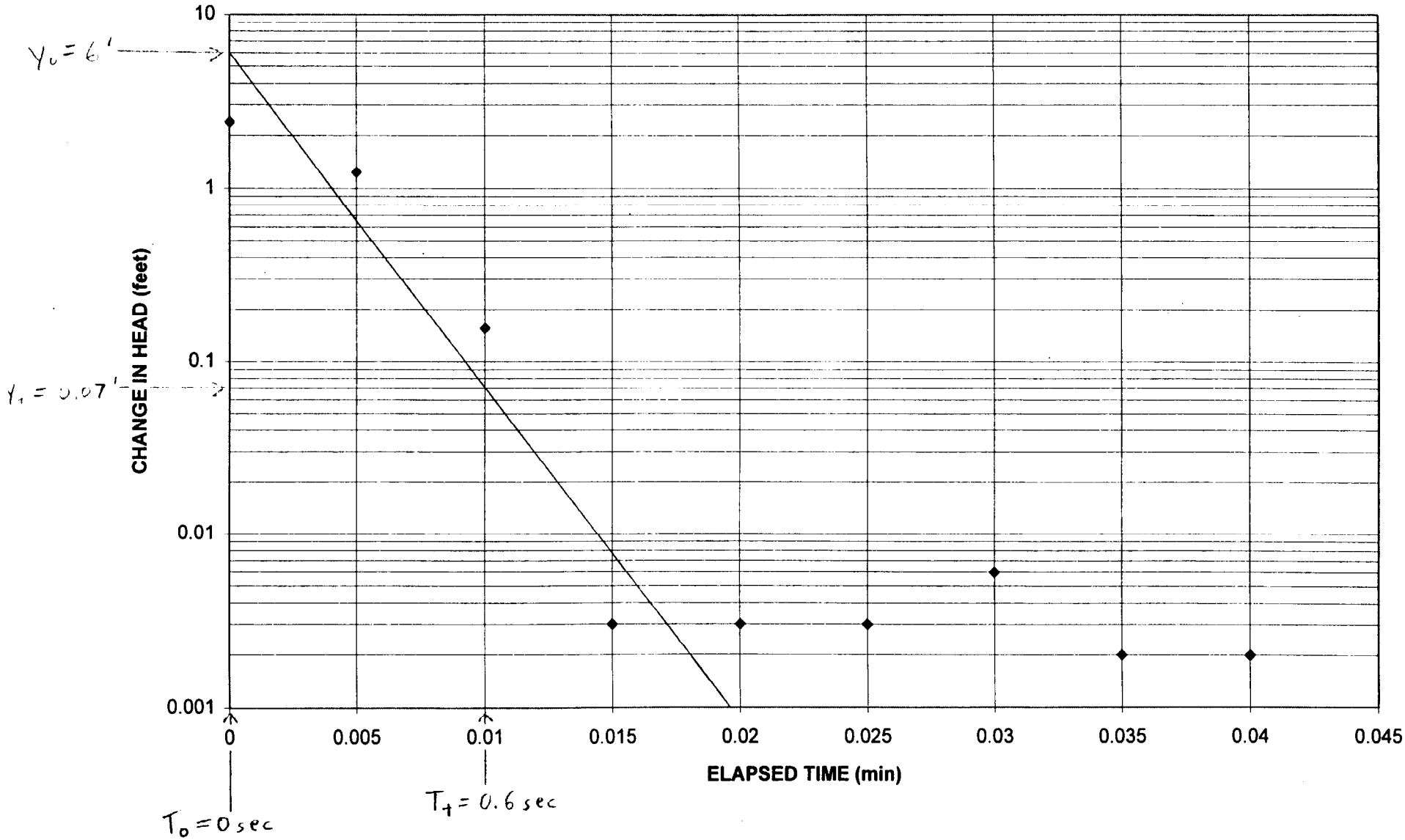
Date	Time	ET (min)	Chan[2] Feet H2O
08/18/00	18:20:09	0.0000	0.000
08/18/00	18:20:09	0.0050	-0.005
08/18/00	18:20:09	0.0100	0.000
08/18/00	18:20:09	0.0150	-0.005
08/18/00	18:20:10	0.0200	-0.005
08/18/00	18:20:10	0.0250	-0.005
08/18/00	18:20:10	0.0300	-0.005
08/18/00	18:20:11	0.0350	-1.882
08/18/00	18:20:11	0.0400	-3.052
08/18/00	18:20:11	0.0450	-1.675
08/18/00	18:20:12	0.0500	-1.672
08/18/00	18:20:12	0.0550	-1.548
08/18/00	18:20:12	0.0600	-1.499
08/18/00	18:20:12	0.0650	-1.483
08/18/00	18:20:13	0.0700	-1.479
08/18/00	18:20:13	0.0750	-1.465
08/18/00	18:20:13	0.0800	-1.559
08/18/00	18:20:14	0.0850	-1.453

08/18/00	18:20:14	0.0900	-1.449
08/18/00	18:20:14	0.0950	-1.444
08/18/00	18:20:15	0.1000	-1.439
08/18/00	18:20:15	0.1058	-1.430
08/18/00	18:20:15	0.1120	-1.423
08/18/00	18:20:16	0.1185	-1.423
08/18/00	18:20:16	0.1255	-1.414
08/18/00	18:20:16	0.1328	-1.409
08/18/00	18:20:17	0.1407	-1.400
08/18/00	18:20:17	0.1490	-1.396
08/18/00	18:20:18	0.1578	-1.389
08/18/00	18:20:19	0.1672	-1.379
08/18/00	18:20:19	0.1770	-1.370
08/18/00	18:20:20	0.1875	-1.361
08/18/00	18:20:20	0.1985	-1.354
08/18/00	18:20:21	0.2102	-1.349
08/18/00	18:20:22	0.2227	-1.336
08/18/00	18:20:23	0.2358	-1.329
08/18/00	18:20:23	0.2498	-1.315
08/18/00	18:20:24	0.2647	-1.306
08/18/00	18:20:25	0.2803	-1.296
08/18/00	18:20:26	0.2970	-1.289
08/18/00	18:20:27	0.3147	-1.276
08/18/00	18:20:29	0.3333	-1.264
08/18/00	18:20:30	0.3532	-1.255
08/18/00	18:20:31	0.3742	-1.246
08/18/00	18:20:32	0.3963	-1.232
08/18/00	18:20:34	0.4198	-1.220
08/18/00	18:20:35	0.4447	-1.206
08/18/00	18:20:37	0.4697	-1.195
08/18/00	18:20:38	0.4963	-1.181
08/18/00	18:20:40	0.5247	-1.169
08/18/00	18:20:42	0.5547	-1.156
08/18/00	18:20:44	0.5863	-1.135
08/18/00	18:20:46	0.6213	-1.121
08/18/00	18:20:48	0.6580	-1.105
08/18/00	18:20:50	0.6963	-1.086
08/18/00	18:20:53	0.7380	-1.070
08/18/00	18:20:55	0.7813	-1.047
08/18/00	18:20:58	0.8280	-1.026
08/18/00	18:21:01	0.8763	-1.010
08/18/00	18:21:04	0.9280	-0.992
08/18/00	18:21:07	0.9830	-0.966
08/18/00	18:21:11	1.0413	-0.946
08/18/00	18:21:15	1.1030	-0.918
08/18/00	18:21:19	1.1680	-0.893
08/18/00	18:21:23	1.2380	-0.867
08/18/00	18:21:27	1.3113	-0.842
08/18/00	18:21:32	1.3897	-0.817
08/18/00	18:21:37	1.4730	-0.787
08/18/00	18:21:42	1.5613	-0.759
08/18/00	18:21:48	1.6547	-0.724
08/18/00	18:21:54	1.7530	-0.694
08/18/00	18:22:00	1.8580	-0.664
08/18/00	18:22:07	1.9680	-0.634
08/18/00	18:22:14	2.0847	-0.600

08/18/00	18:22:21	2.2097	-0.565
08/18/00	18:22:29	2.3413	-0.535
08/18/00	18:22:37	2.4813	-0.501
08/18/00	18:22:46	2.6297	-0.471
08/18/00	18:22:56	2.7863	-0.434
08/18/00	18:23:06	2.9530	-0.404
08/18/00	18:23:16	3.1297	-0.369
08/18/00	18:23:27	3.3163	-0.339
08/18/00	18:23:39	3.5147	-0.304
08/18/00	18:23:52	3.7247	-0.274
08/18/00	18:24:05	3.9463	-0.240
08/18/00	18:24:19	4.1813	-0.215
08/18/00	18:24:34	4.4297	-0.187
08/18/00	18:24:50	4.6930	-0.166
08/18/00	18:25:07	4.9730	-0.141
08/18/00	18:25:25	5.2697	-0.118
08/18/00	18:25:43	5.5830	-0.101
08/18/00	18:26:03	5.9147	-0.085
08/18/00	18:26:24	6.2663	-0.067
08/18/00	18:26:47	6.6397	-0.055
08/18/00	18:27:11	7.0347	-0.046
08/18/00	18:27:36	7.4530	-0.032
08/18/00	18:28:02	7.8963	-0.028
08/18/00	18:28:30	8.3663	-0.023
08/18/00	18:29:00	8.8647	-0.021
08/18/00	18:29:32	9.3913	-0.012
08/18/00	18:30:05	9.9497	-0.012
08/18/00	18:30:41	10.5413	-0.007
08/18/00	18:31:19	11.1680	-0.007
08/18/00	18:31:58	11.8313	-0.002
08/18/00	18:32:41	12.5347	-0.002
08/18/00	18:33:25	13.2797	-0.002
08/18/00	18:34:13	14.0697	-0.002
08/18/00	18:35:03	14.9063	-0.002

HYDRAULIC CONDUCTIVITY CALCULATIONS FROM SLUG TESTS					
K calculated after Bouwer and Rice, 1976					
SLUG TEST	7MW4S - Rising Head				
Scn Int L=	10	Tyo=	0	sec	
WT to Well Bt H=	10.6	Yo=	6	feet	
Aq Depth D=	10.6	*			
Rad Borehole Rw=	0.188	Tyt=	0.6	sec	
Case Rcase=	0.0833	Yt=	0.07	feet	
Cal Eff Rc' Rc=	0.124				
One used in K calc Rc=	0.124				
L\Rw=	53.19				
A=	3.2				
B=	0.5				
C=	2.8				
IF D>H			IF D=H		
LN(Re/Rw)=	#NUM!		LN(Re/Rw)=	3.0727051	
Re=	#NUM!		Re=	4.0608477	
K=	#NUM!	ft/sec	K=	1.75E-02	ft/sec
	#NUM!	cm/sec		5.34E-01	cm/sec
* Assumed					

7MW4S-RH2


10
1
0.1
0.01
0.001
CHANGE IN HEAD (feet)
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
ELAPSED TIME (min)
$Y_0 = 6'$
$Y_t = 0.07'$
$T_0 = 0$ sec
$T_t = 0.6$ sec

In-Situ Inc. Troll

Report generated: 09/06/00 10:09:30
Report from file: C:\WINSITU\NSB-SLUG\7MW4SR2.BIN
DataMgr Version 2.31.0.0

Serial number: 00000890
Firmware Version 7.10
Unit name: Troll 4000

Test name: 7MW4S-R2

Test defined on: 08/21/00 15:09:45
Test started on: 08/21/00 15:33:44
Test stopped on: 08/21/00 15:44:27
Test extracted on: 08/22/00 13:27:08

Data gathered using Logarithmic testing
Maximum time between data points: 10.0000 Minutes.
Number of data samples: 102

TOTAL DATA SAMPLES 102

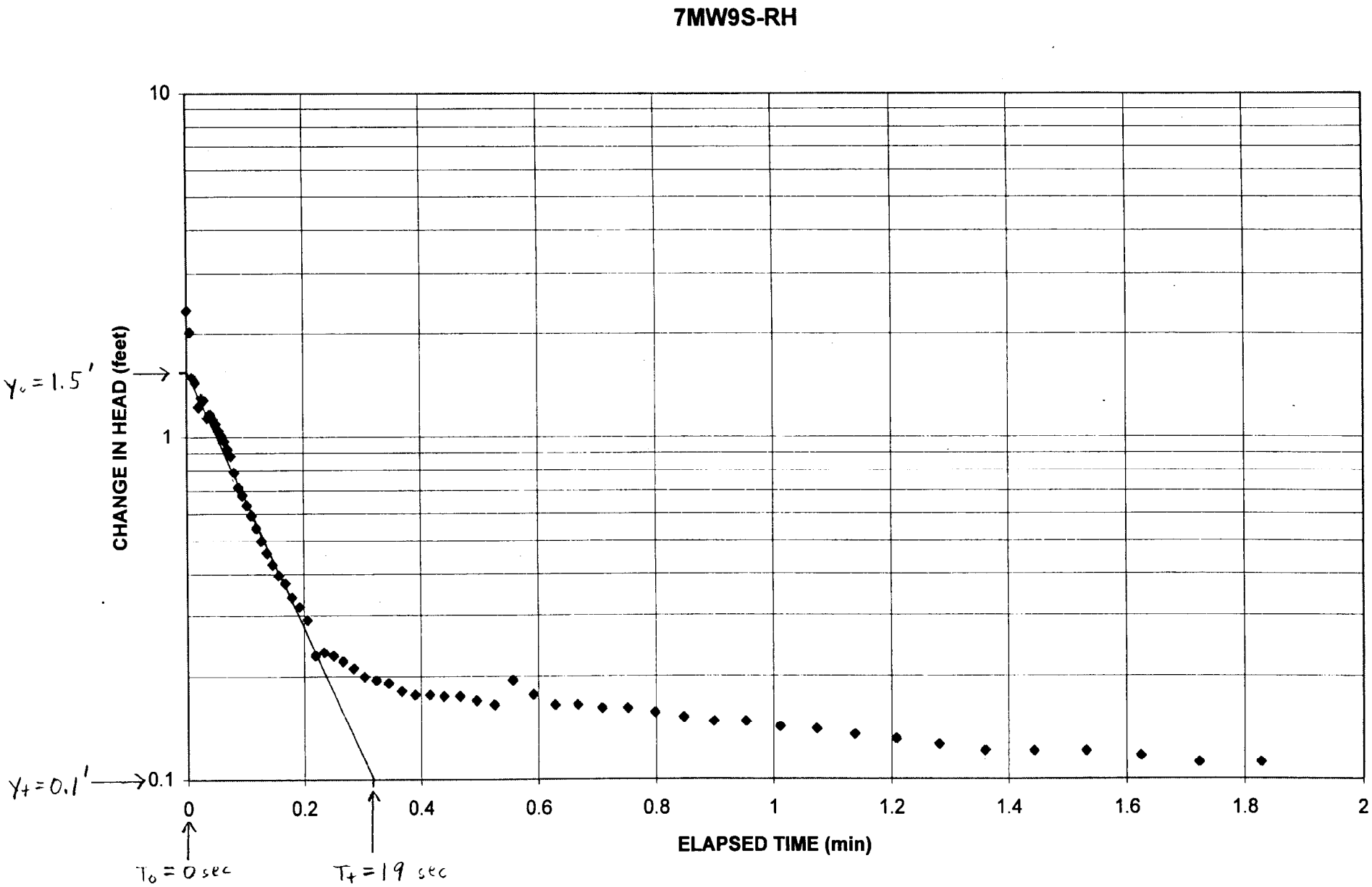
Channel number [2]
Measurement type: Pressure/Level
Channel name: pressure
Sensor Range: 15 PSI.
Specific gravity: 1.000
Mode: Surface
User-defined reference: 0.000 Feet H2O
Referenced on: channel definition.
Pressure head at reference: 9.224 Feet H2O

Date	Time	ET (min)	Chan[2] Feet H2O
08/21/00	15:33:44	0.0000	0.037
08/21/00	15:33:44	0.0050	0.033
08/21/00	15:33:44	0.0100	0.033
08/21/00	15:33:44	0.0150	0.037
08/21/00	15:33:45	0.0200	0.017
08/21/00	15:33:45	0.0250	0.037
08/21/00	15:33:45	0.0300	-0.043
08/21/00	15:33:46	0.0350	-0.894
08/21/00	15:33:46	0.0400	-2.408
08/21/00	15:33:46	0.0450	-1.238
08/21/00	15:33:47	0.0500	-0.156
08/21/00	15:33:47	0.0550	0.217
08/21/00	15:33:47	0.0600	0.157
08/21/00	15:33:47	0.0650	0.081
08/21/00	15:33:48	0.0700	-0.006
08/21/00	15:33:48	0.0750	-0.002
08/21/00	15:33:48	0.0800	0.028
08/21/00	15:33:49	0.0850	0.056

08/21/00	15:33:49	0.0900	0.051
08/21/00	15:33:49	0.0950	0.037
08/21/00	15:33:50	0.1000	0.028
08/21/00	15:33:50	0.1058	0.024
08/21/00	15:33:50	0.1120	0.028
/21/00	15:33:51	0.1185	0.033
08/21/00	15:33:51	0.1255	0.037
08/21/00	15:33:51	0.1328	0.033
08/21/00	15:33:52	0.1407	0.033
08/21/00	15:33:52	0.1490	0.033
08/21/00	15:33:53	0.1578	0.033
08/21/00	15:33:54	0.1672	0.033
08/21/00	15:33:54	0.1770	0.033
08/21/00	15:33:55	0.1875	0.033
08/21/00	15:33:55	0.1985	0.033
08/21/00	15:33:56	0.2102	0.033
08/21/00	15:33:57	0.2227	0.033
08/21/00	15:33:58	0.2358	0.028
08/21/00	15:33:58	0.2498	0.040
08/21/00	15:33:59	0.2647	0.035
08/21/00	15:34:00	0.2803	0.035
08/21/00	15:34:01	0.2970	0.040
08/21/00	15:34:02	0.3147	0.040
08/21/00	15:34:04	0.3333	0.040
08/21/00	15:34:05	0.3532	0.035
08/21/00	15:34:06	0.3742	0.040
08/21/00	15:34:07	0.3963	0.040
08/21/00	15:34:09	0.4198	0.040
/21/00	15:34:10	0.4447	0.040
08/21/00	15:34:12	0.4697	0.040
08/21/00	15:34:13	0.4963	0.040
08/21/00	15:34:15	0.5247	0.040
08/21/00	15:34:17	0.5547	0.040
08/21/00	15:34:19	0.5863	0.040
08/21/00	15:34:21	0.6213	0.040
08/21/00	15:34:23	0.6580	0.040
08/21/00	15:34:25	0.6963	0.040
08/21/00	15:34:28	0.7380	0.040
08/21/00	15:34:30	0.7813	0.040
08/21/00	15:34:33	0.8280	0.040
08/21/00	15:34:36	0.8763	0.040
08/21/00	15:34:39	0.9280	0.040
08/21/00	15:34:42	0.9830	0.040
08/21/00	15:34:46	1.0413	0.035
08/21/00	15:34:50	1.1030	0.035
08/21/00	15:34:54	1.1680	0.040
08/21/00	15:34:58	1.2380	0.035
08/21/00	15:35:02	1.3113	0.040
08/21/00	15:35:07	1.3897	0.040
08/21/00	15:35:12	1.4730	0.035
08/21/00	15:35:17	1.5613	0.040
/21/00	15:35:23	1.6547	0.040
08/21/00	15:35:29	1.7530	0.040
08/21/00	15:35:35	1.8580	0.040
08/21/00	15:35:42	1.9680	0.040
08/21/00	15:35:49	2.0847	0.040

08/21/00	15:35:56	2.2097	0.040
08/21/00	15:36:04	2.3413	0.040
08/21/00	15:36:12	2.4813	0.040
08/21/00	15:36:21	2.6297	0.044
08/21/00	15:36:31	2.7863	0.040
08/21/00	15:36:41	2.9530	0.044
08/21/00	15:36:51	3.1297	0.040
08/21/00	15:37:02	3.3163	0.040
08/21/00	15:37:14	3.5147	0.044
08/21/00	15:37:27	3.7247	0.044
08/21/00	15:37:40	3.9463	0.044
08/21/00	15:37:54	4.1813	0.044
08/21/00	15:38:09	4.4297	0.044
08/21/00	15:38:25	4.6930	0.040
08/21/00	15:38:42	4.9730	0.044
08/21/00	15:39:00	5.2697	0.044
08/21/00	15:39:18	5.5830	0.044
08/21/00	15:39:38	5.9147	0.049
08/21/00	15:39:59	6.2663	0.049
08/21/00	15:40:22	6.6397	0.049
08/21/00	15:40:46	7.0347	0.049
08/21/00	15:41:11	7.4530	0.044
08/21/00	15:41:37	7.8963	0.049
08/21/00	15:42:05	8.3663	0.044
08/21/00	15:42:35	8.8647	0.049
08/21/00	15:43:07	9.3913	0.044
08/21/00	15:43:40	9.9497	0.044
08/21/00	15:44:16	10.5413	0.049

HYDRAULIC CONDUCTIVITY CALCULATIONS FROM SLUG TESTS					
K calculated after Bouwer and Rice, 1976					
SLUG TEST	7MW9S - Rising Head				
Scn Int L=	8.5	Tyo=	0	sec	
WT to Well Bt H=	8.5	Yo=	1.5	feet	
Aq Depth D=	8.5				
Rad Borehole Rw=	0.35	Tyt=	19	sec	
Case Rcase=	0.0833	Yt=	0.1	feet	
Cal Eff Rc' Rc=	0.204				
One used in K calc Rc=	0.204				
L\Rw=	24.29				
A=	2.3				
B=	0.3				
C=	1.8				
IF D>H			IF D=H		
LN(Re/Rw)=	#NUM!		LN(Re/Rw)=	2.386878	
Re=	#NUM!		Re=	3.8078164	
K=	#NUM!	ft/sec	K=	8.33E-04	ft/sec
	#NUM!	cm/sec		2.54E-02	cm/sec


7MW9S-RH
10
1
0.1
CHANGE IN HEAD (feet)
$Y_o = 1.5'$
$Y_f = 0.1'$
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
ELAPSED TIME (min)
$T_o = 0$ sec
$T_f = 19$ sec

In-Situ Inc. Troll

Report generated: 09/06/00 10:09:57
Report from file: C:\WINSITU\NSB-SLUG\7MW09S-R.BIN
DataMgr Version 2.31.0.0

Serial number: 00000890
Firmware Version 7.10
Unit name: Troll 4000

Test name: 7MW09S-R

Test defined on: 08/20/00 11:36:02
Test started on: 08/20/00 12:33:22
Test stopped on: 08/20/00 12:56:41
Test extracted on: 08/21/00 15:05:01

Data gathered using Logarithmic testing
Maximum time between data points: 10.0000 Minutes.
Number of data samples: 115

TOTAL DATA SAMPLES 115

Channel number [2]
Measurement type: Pressure/Level
Channel name: pressure
Sensor Range: 15 PSI.
Specific gravity: 1.000
Mode: Surface
User-defined reference: 0.000 Feet H2O
Referenced on: channel definition.
Pressure head at reference: 7.399 Feet H2O

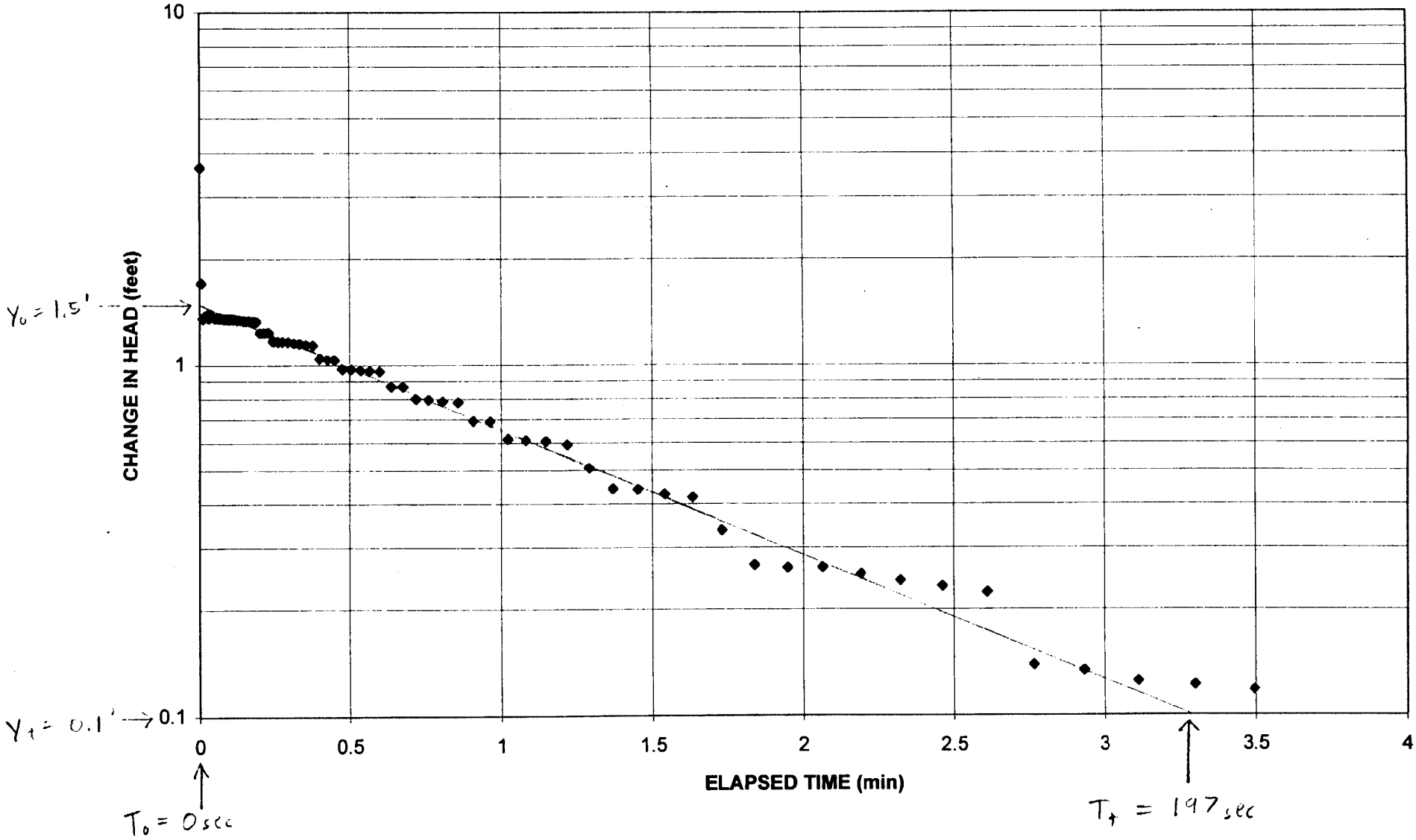
Date	Time	ET (min)	Chan[2] Feet H2O
08/20/00	12:33:22	0.0000	-0.038
08/20/00	12:33:22	0.0050	-0.038
08/20/00	12:33:22	0.0100	-0.038
08/20/00	12:33:22	0.0150	-0.038
08/20/00	12:33:23	0.0200	-0.530
08/20/00	12:33:23	0.0250	-1.033
08/20/00	12:33:23	0.0300	-2.343
08/20/00	12:33:24	0.0350	-2.020
08/20/00	12:33:24	0.0400	-1.492
08/20/00	12:33:24	0.0450	-1.446
08/20/00	12:33:25	0.0500	-1.226
08/20/00	12:33:25	0.0550	-1.307
08/20/00	12:33:25	0.0600	-1.282
/20/00	12:33:25	0.0650	-1.139
08/20/00	12:33:26	0.0700	-1.173
08/20/00	12:33:26	0.0750	-1.127
08/20/00	12:33:26	0.0800	-1.093
08/20/00	12:33:27	0.0850	-1.044

08/20/00	12:33:27	0.0900	-1.007
08/20/00	12:33:27	0.0950	-0.973
08/20/00	12:33:28	0.1000	-0.924
08/20/00	12:33:28	0.1058	-0.885
08/20/00	12:33:28	0.1120	-0.790
08/20/00	12:33:29	0.1185	-0.714
08/20/00	12:33:29	0.1255	-0.680
08/20/00	12:33:29	0.1328	-0.636
08/20/00	12:33:30	0.1407	-0.594
08/20/00	12:33:30	0.1490	-0.546
08/20/00	12:33:31	0.1578	-0.500
08/20/00	12:33:32	0.1672	-0.461
08/20/00	12:33:32	0.1770	-0.426
08/20/00	12:33:33	0.1875	-0.396
08/20/00	12:33:33	0.1985	-0.375
08/20/00	12:33:34	0.2102	-0.341
08/20/00	12:33:35	0.2227	-0.320
08/20/00	12:33:36	0.2358	-0.292
08/20/00	12:33:36	0.2498	-0.230
08/20/00	12:33:37	0.2647	-0.235
08/20/00	12:33:38	0.2803	-0.230
08/20/00	12:33:39	0.2970	-0.221
08/20/00	12:33:40	0.3147	-0.211
08/20/00	12:33:42	0.3333	-0.200
08/20/00	12:33:43	0.3532	-0.195
08/20/00	12:33:44	0.3742	-0.191
08/20/00	12:33:45	0.3963	-0.181
08/20/00	12:33:47	0.4198	-0.177
08/20/00	12:33:48	0.4447	-0.177
08/20/00	12:33:50	0.4697	-0.175
08/20/00	12:33:51	0.4963	-0.175
08/20/00	12:33:53	0.5247	-0.170
08/20/00	12:33:55	0.5547	-0.165
08/20/00	12:33:57	0.5863	-0.195
08/20/00	12:33:59	0.6213	-0.177
08/20/00	12:34:01	0.6580	-0.165
08/20/00	12:34:03	0.6963	-0.165
08/20/00	12:34:06	0.7380	-0.161
08/20/00	12:34:08	0.7813	-0.161
08/20/00	12:34:11	0.8280	-0.156
08/20/00	12:34:14	0.8763	-0.151
08/20/00	12:34:17	0.9280	-0.147
08/20/00	12:34:20	0.9830	-0.147
08/20/00	12:34:24	1.0413	-0.142
08/20/00	12:34:28	1.1030	-0.140
08/20/00	12:34:32	1.1680	-0.135
08/20/00	12:34:36	1.2380	-0.131
08/20/00	12:34:40	1.3113	-0.126
08/20/00	12:34:45	1.3897	-0.121
08/20/00	12:34:50	1.4730	-0.121
08/20/00	12:34:55	1.5613	-0.121
08/20/00	12:35:01	1.6547	-0.117
08/20/00	12:35:07	1.7530	-0.112
08/20/00	12:35:13	1.8580	-0.112
08/20/00	12:35:20	1.9680	-0.110
08/20/00	12:35:27	2.0847	-0.110

08/20/00	12:35:34	2.2097	-0.110
08/20/00	12:35:42	2.3413	-0.105
08/20/00	12:35:50	2.4813	-0.101
08/20/00	12:35:59	2.6297	-0.101
08/20/00	12:36:09	2.7863	-0.101
08/20/00	12:36:19	2.9530	-0.101
08/20/00	12:36:29	3.1297	-0.096
08/20/00	12:36:40	3.3163	-0.096
08/20/00	12:36:52	3.5147	-0.096
08/20/00	12:37:05	3.7247	-0.091
08/20/00	12:37:18	3.9463	-0.091
08/20/00	12:37:32	4.1813	-0.087
08/20/00	12:37:47	4.4297	-0.087
08/20/00	12:38:03	4.6930	-0.087
08/20/00	12:38:20	4.9730	-0.082
08/20/00	12:38:38	5.2697	-0.082
08/20/00	12:38:56	5.5830	-0.082
08/20/00	12:39:16	5.9147	-0.082
08/20/00	12:39:37	6.2663	-0.082
08/20/00	12:40:00	6.6397	-0.080
08/20/00	12:40:24	7.0347	-0.080
08/20/00	12:40:49	7.4530	-0.080
08/20/00	12:41:15	7.8963	-0.075
08/20/00	12:41:43	8.3663	-0.075
08/20/00	12:42:13	8.8647	-0.075
08/20/00	12:42:45	9.3913	-0.075
08/20/00	12:43:18	9.9497	-0.071
08/20/00	12:43:54	10.5413	-0.071
08/20/00	12:44:32	11.1680	-0.071
08/20/00	12:45:11	11.8313	-0.071
08/20/00	12:45:54	12.5347	-0.071
08/20/00	12:46:38	13.2797	-0.071
08/20/00	12:47:26	14.0697	-0.066
08/20/00	12:48:16	14.9063	-0.066
08/20/00	12:49:09	15.7913	-0.062
08/20/00	12:50:05	16.7297	-0.062
08/20/00	12:51:05	17.7230	-0.062
08/20/00	12:52:08	18.7763	-0.062
08/20/00	12:53:15	19.8913	-0.062
08/20/00	12:54:26	21.0730	-0.057
08/20/00	12:55:41	22.3247	-0.057

HYDRAULIC CONDUCTIVITY CALCULATIONS FROM SLUG TESTS					
K calculated after Bouwer and Rice, 1976					
SLUG TEST	2DMW29S - Rising Head				
Scn Int L=	7.8	Tyo=	0	sec	
WT to Well Bt H=	7.8	Yo=	1.5	feet	
Aq Depth D=	7.8				
Rad Borehole Rw=	0.33	Tyt=	197	sec	
Case Rcase=	0.0833	Yt=	0.1	feet	
Cal Eff Rc' Rc=	0.194				
One used in K calc Rc=	0.194				
L\Rw=	23.64				
A=	2.3				
B=	0.3				
C=	1.8				
IF D>H			IF D=H		
LN(Re/Rw)=	#NUM!		LN(Re/Rw)=	2.3587774	
Re=	#NUM!		Re=	3.4907436	
K=	#NUM!	ft/sec	K=	7.82E-05	ft/sec
	#NUM!	cm/sec		2.38E-03	cm/sec

2DMW29S-RH


10
1
0.1
CHANGE IN HEAD (feet)
0
0.5
1
1.5
2
2.5
3
3.5
4
ELAPSED TIME (min)
$Y_0 = 1.5'$
$Y_t = 0.1'$
$T_0 = 0$ sec
$T_t = 197$ sec

In-Situ Inc. Troll

Report generated: 09/06/00 10:06:05
Report from file: C:\WINSITU\NSB-SLUG\2D-29SR2.BIN
DataMgr Version 2.31.0.0

Serial number: 00000890
Firmware Version 7.10
Unit name: Troll 4000

Test name: 2DMW29SR2

Test defined on: 08/21/00 16:07:53
Test started on: 08/21/00 16:50:21
Test stopped on: 08/21/00 17:08:04
Test extracted on: 08/22/00 12:08:08

Data gathered using Logarithmic testing
Maximum time between data points: 10.0000 Minutes.
Number of data samples: 110

TOTAL DATA SAMPLES 110

Channel number [2]
Measurement type: Pressure/Level
Channel name: pressure
Sensor Range: 15 PSI.
Specific gravity: 1.000
Mode: Surface
User-defined reference: 0.000 Feet H2O
Referenced on: channel definition.
Pressure head at reference: 6.520 Feet H2O

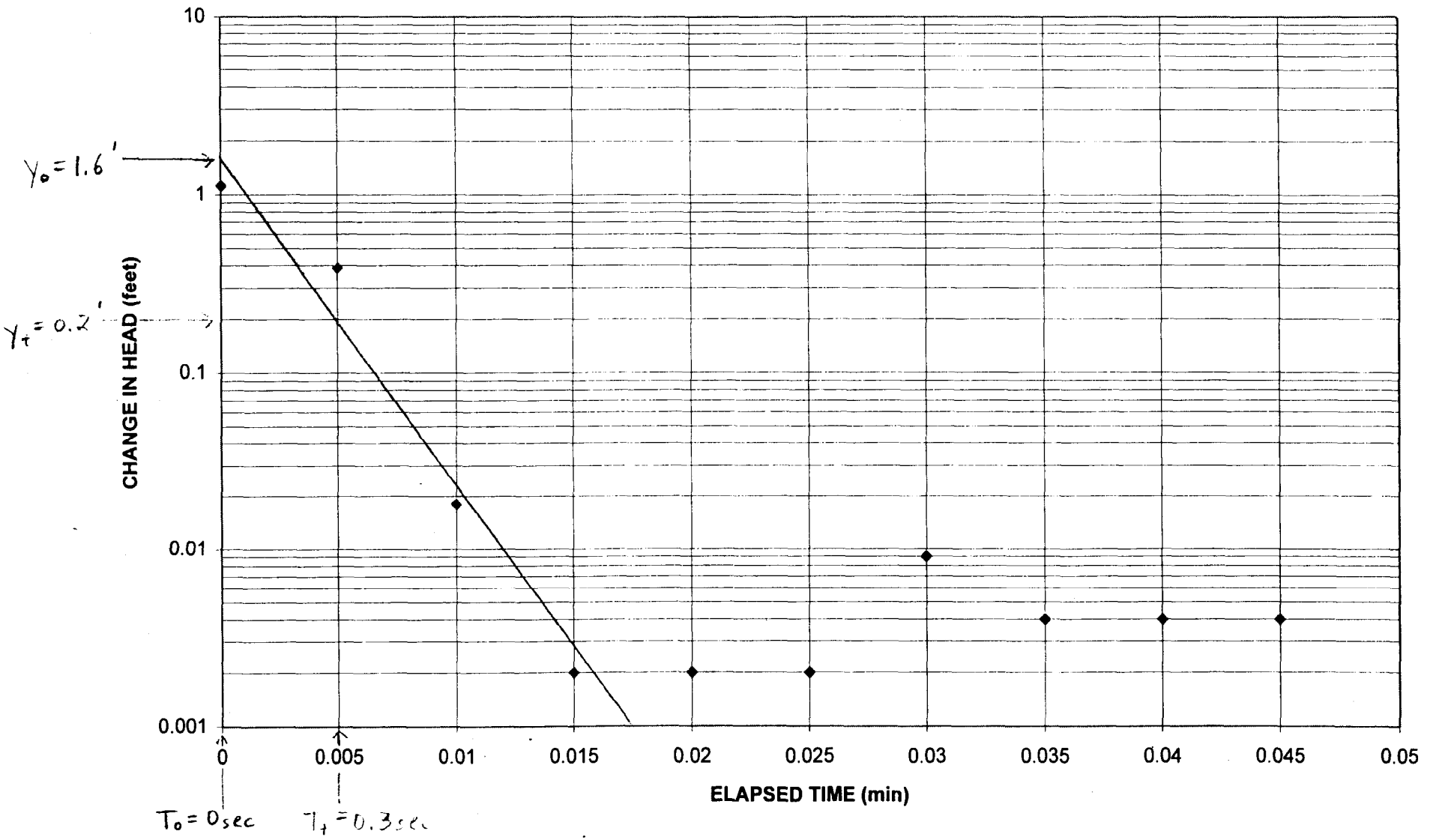
Date	Time	ET (min)	Chan[2] Feet H2O
08/21/00	16:50:21	0.0000	0.206
08/21/00	16:50:21	0.0050	0.206
08/21/00	16:50:21	0.0100	0.201
08/21/00	16:50:21	0.0150	0.206
08/21/00	16:50:22	0.0200	-3.565
08/21/00	16:50:22	0.0250	-1.642
08/21/00	16:50:22	0.0300	-1.286
08/21/00	16:50:23	0.0350	-1.312
08/21/00	16:50:23	0.0400	-1.316
08/21/00	16:50:23	0.0450	-1.323
08/21/00	16:50:24	0.0500	-1.293
08/21/00	16:50:24	0.0550	-1.328
08/21/00	16:50:24	0.0600	-1.312
08/21/00	16:50:24	0.0650	-1.307
08/21/00	16:50:25	0.0700	-1.293
08/21/00	16:50:25	0.0750	-1.291
08/21/00	16:50:25	0.0800	-1.291
08/21/00	16:50:26	0.0850	-1.293

08/21/00	16:50:26	0.0900	-1.291
08/21/00	16:50:26	0.0950	-1.291
08/21/00	16:50:27	0.1000	-1.286
08/21/00	16:50:27	0.1058	-1.286
08/21/00	16:50:27	0.1120	-1.286
08/21/00	16:50:28	0.1185	-1.282
08/21/00	16:50:28	0.1255	-1.286
08/21/00	16:50:28	0.1328	-1.282
08/21/00	16:50:29	0.1407	-1.282
08/21/00	16:50:29	0.1490	-1.277
08/21/00	16:50:30	0.1578	-1.277
08/21/00	16:50:31	0.1672	-1.273
08/21/00	16:50:31	0.1770	-1.268
08/21/00	16:50:32	0.1875	-1.268
08/21/00	16:50:32	0.1985	-1.263
08/21/00	16:50:33	0.2102	-1.261
08/21/00	16:50:34	0.2227	-1.166
08/21/00	16:50:35	0.2358	-1.169
08/21/00	16:50:35	0.2498	-1.169
08/21/00	16:50:36	0.2647	-1.100
08/21/00	16:50:37	0.2803	-1.097
08/21/00	16:50:38	0.2970	-1.097
08/21/00	16:50:39	0.3147	-1.093
08/21/00	16:50:41	0.3333	-1.088
08/21/00	16:50:42	0.3532	-1.083
08/21/00	16:50:43	0.3742	-1.074
08/21/00	16:50:44	0.3963	-1.074
08/21/00	16:50:46	0.4198	-0.975
08/21/00	16:50:47	0.4447	-0.970
08/21/00	16:50:49	0.4697	-0.968
08/21/00	16:50:50	0.4963	-0.904
08/21/00	16:50:52	0.5247	-0.904
08/21/00	16:50:54	0.5547	-0.899
08/21/00	16:50:56	0.5863	-0.894
08/21/00	16:50:58	0.6213	-0.890
08/21/00	16:51:00	0.6580	-0.800
08/21/00	16:51:02	0.6963	-0.800
08/21/00	16:51:05	0.7380	-0.731
08/21/00	16:51:07	0.7813	-0.726
08/21/00	16:51:10	0.8280	-0.719
08/21/00	16:51:13	0.8763	-0.714
08/21/00	16:51:16	0.9280	-0.624
08/21/00	16:51:19	0.9830	-0.620
08/21/00	16:51:23	1.0413	-0.546
08/21/00	16:51:27	1.1030	-0.541
08/21/00	16:51:31	1.1680	-0.537
08/21/00	16:51:35	1.2380	-0.525
08/21/00	16:51:39	1.3113	-0.438
08/21/00	16:51:44	1.3897	-0.373
08/21/00	16:51:49	1.4730	-0.371
08/21/00	16:51:54	1.5613	-0.357
08/21/00	16:52:00	1.6547	-0.348
08/21/00	16:52:06	1.7530	-0.267
08/21/00	16:52:12	1.8580	-0.198
08/21/00	16:52:19	1.9680	-0.193
08/21/00	16:52:26	2.0847	-0.193

08/21/00	16:52:33	2.2097	-0.182
08/21/00	16:52:41	2.3413	-0.172
08/21/00	16:52:49	2.4813	-0.163
08/21/00	16:52:58	2.6297	-0.154
08/21/00	16:53:08	2.7863	-0.069
08/21/00	16:53:18	2.9530	-0.064
08/21/00	16:53:28	3.1297	-0.055
08/21/00	16:53:39	3.3163	-0.052
08/21/00	16:53:51	3.5147	-0.048
08/21/00	16:54:04	3.7247	0.017
08/21/00	16:54:17	3.9463	0.021
08/21/00	16:54:31	4.1813	0.026
08/21/00	16:54:46	4.4297	0.031
08/21/00	16:55:02	4.6930	0.035
08/21/00	16:55:19	4.9730	0.035
08/21/00	16:55:37	5.2697	0.042
08/21/00	16:55:55	5.5830	0.051
08/21/00	16:56:15	5.9147	0.051
08/21/00	16:56:36	6.2663	0.061
08/21/00	16:56:59	6.6397	0.061
08/21/00	16:57:23	7.0347	0.065
08/21/00	16:57:48	7.4530	0.065
08/21/00	16:58:14	7.8963	0.065
08/21/00	16:58:42	8.3663	0.065
08/21/00	16:59:12	8.8647	0.065
08/21/00	16:59:44	9.3913	0.065
08/21/00	17:00:17	9.9497	0.070
08/21/00	17:00:53	10.5413	0.070
08/21/00	17:01:31	11.1680	0.065
08/21/00	17:02:10	11.8313	0.065
08/21/00	17:02:53	12.5347	0.065
08/21/00	17:03:37	13.2797	0.065
08/21/00	17:04:25	14.0697	0.061
08/21/00	17:05:15	14.9063	0.061
08/21/00	17:06:08	15.7913	0.061
08/21/00	17:07:04	16.7297	0.051

HYDRAULIC CONDUCTIVITY CALCULATIONS FROM SLUG TESTS					
K calculated after Bouwer and Rice, 1976					
SLUG TEST	3MW14S - Rising Head				
Scn Int L=	5.5	Tyo=	0	sec	
WT to Well Bt H=	5.5	Yo=	1.6	feet	
Aq Depth D=	5.5				
Rad Borehole Rw=	0.375	Tyt=	0.3	sec	
Case Rcase=	0.0833	Yt=	0.2	feet	
Cal Eff Rc' Rc=	0.217				
One used in K calc Rc=	0.217				
L\Rw=	14.67				
A=	2				
B=	0.3				
C=	1.5				
IF D>H			IF D=H		
LN(Re/Rw)=	#NUM!		LN(Re/Rw)=	1.9536284	
Re=	#NUM!		Re=	2.6453387	
K=	#NUM!	ft/sec	K=	5.80E-02	ft/sec
	#NUM!	cm/sec		1.77E+00	cm/sec

3MW14S-RH


10
1
0.1
0.01
0.001
CHANGE IN HEAD (feet)
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05
ELAPSED TIME (min)
$Y_o = 1.6'$
$Y_t = 0.2'$
$T_o = 0$ sec
$T_t = 0.3$ sec

In-Situ Inc. Troll

Report generated: 09/06/00 10:07:36
Report from file: C:\WINSITU\NSB-SLUG\3MW14SR2.BIN
DataMgr Version 2.31.0.0

Serial number: 00000890
Firmware Version 7.10
Unit name: Troll 4000

Test name: 3MW14S-R2

Test defined on: 08/22/00 10:55:24
Test started on: 08/22/00 11:13:59
Test stopped on: 08/22/00 11:27:13
Test extracted on: 08/22/00 13:40:00

Data gathered using Logarithmic testing
Maximum time between data points: 10.0000 Minutes.
Number of data samples: 105

TOTAL DATA SAMPLES 105

Channel number [2]
Measurement type: Pressure/Level
Channel name: pressure
Sensor Range: 15 PSI.
Specific gravity: 1.000
Mode: Surface
User-defined reference: 0.000 Feet H2O
Referenced on: channel definition.
Pressure head at reference: 4.973 Feet H2O

Date	Time	ET (min)	Chan[2] Feet H2O
08/22/00	11:13:59	0.0000	-0.002
08/22/00	11:13:59	0.0050	-0.002
08/22/00	11:13:59	0.0100	-0.002
08/22/00	11:13:59	0.0150	-0.002
08/22/00	11:14:00	0.0200	-0.253
08/22/00	11:14:00	0.0250	-1.121
08/22/00	11:14:00	0.0300	-0.387
08/22/00	11:14:01	0.0350	-0.018
08/22/00	11:14:01	0.0400	0.056
08/22/00	11:14:01	0.0450	0.028
08/22/00	11:14:02	0.0500	-0.002
08/22/00	11:14:02	0.0550	-0.009
08/22/00	11:14:02	0.0600	-0.004
/22/00	11:14:02	0.0650	-0.004
08/22/00	11:14:03	0.0700	-0.004
08/22/00	11:14:03	0.0750	-0.004
08/22/00	11:14:03	0.0800	-0.004
08/22/00	11:14:04	0.0850	-0.004

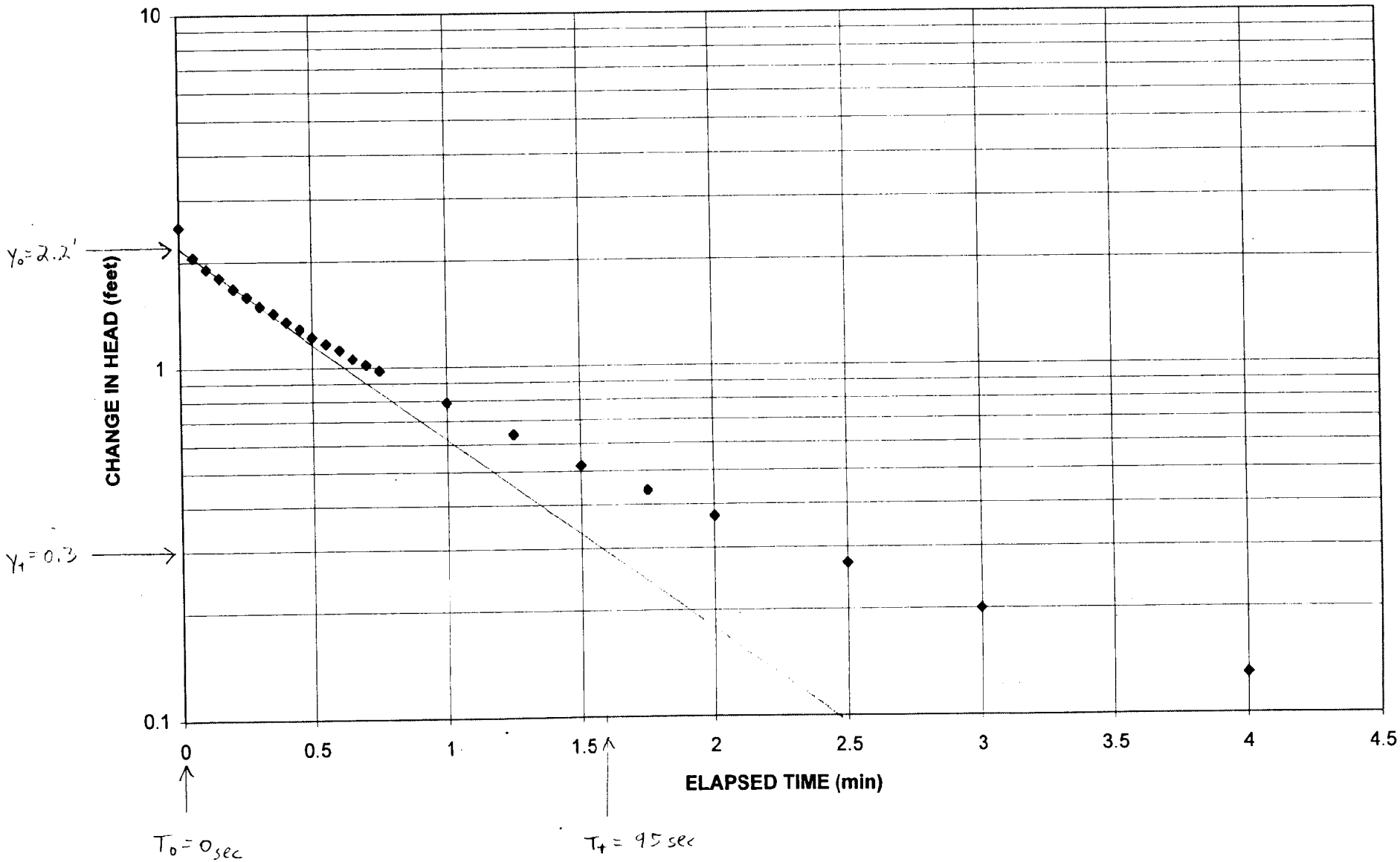
08/22/00	11:14:04	0.0900	-0.004
08/22/00	11:14:04	0.0950	-0.002
08/22/00	11:14:05	0.1000	-0.004
08/22/00	11:14:05	0.1058	-0.004
08/22/00	11:14:05	0.1120	-0.007
08/22/00	11:14:06	0.1185	-0.002
08/22/00	11:14:06	0.1255	-0.002
08/22/00	11:14:06	0.1328	-0.002
08/22/00	11:14:07	0.1407	-0.002
08/22/00	11:14:07	0.1490	-0.002
08/22/00	11:14:08	0.1578	-0.002
08/22/00	11:14:09	0.1672	-0.002
08/22/00	11:14:09	0.1770	-0.002
08/22/00	11:14:10	0.1875	-0.002
08/22/00	11:14:10	0.1985	-0.002
08/22/00	11:14:11	0.2102	-0.002
08/22/00	11:14:12	0.2227	-0.002
08/22/00	11:14:13	0.2358	-0.002
08/22/00	11:14:13	0.2498	-0.007
08/22/00	11:14:14	0.2647	-0.002
08/22/00	11:14:15	0.2803	-0.009
08/22/00	11:14:16	0.2970	-0.014
08/22/00	11:14:17	0.3147	-0.014
08/22/00	11:14:19	0.3333	-0.014
08/22/00	11:14:20	0.3532	-0.009
08/22/00	11:14:21	0.3742	-0.009
08/22/00	11:14:22	0.3963	-0.009
08/22/00	11:14:24	0.4198	-0.009
08/22/00	11:14:25	0.4447	-0.009
08/22/00	11:14:27	0.4697	-0.009
08/22/00	11:14:28	0.4963	-0.009
08/22/00	11:14:30	0.5247	-0.009
08/22/00	11:14:32	0.5547	-0.009
08/22/00	11:14:34	0.5863	-0.014
08/22/00	11:14:36	0.6213	-0.009
08/22/00	11:14:38	0.6580	-0.014
08/22/00	11:14:40	0.6963	-0.014
08/22/00	11:14:43	0.7380	-0.014
08/22/00	11:14:45	0.7813	-0.014
08/22/00	11:14:48	0.8280	-0.014
08/22/00	11:14:51	0.8763	-0.014
08/22/00	11:14:54	0.9280	-0.014
08/22/00	11:14:57	0.9830	-0.014
08/22/00	11:15:01	1.0413	-0.014
08/22/00	11:15:05	1.1030	-0.009
08/22/00	11:15:09	1.1680	-0.014
08/22/00	11:15:13	1.2380	-0.009
08/22/00	11:15:17	1.3113	-0.009
08/22/00	11:15:22	1.3897	-0.009
08/22/00	11:15:27	1.4730	-0.014
08/22/00	11:15:32	1.5613	-0.014
08/22/00	11:15:38	1.6547	-0.014
08/22/00	11:15:44	1.7530	-0.009
08/22/00	11:15:50	1.8580	-0.009
08/22/00	11:15:57	1.9680	-0.009
08/22/00	11:16:04	2.0847	-0.009

08/22/00	11:16:11	2.2097	-0.014
08/22/00	11:16:19	2.3413	-0.009
08/22/00	11:16:27	2.4813	-0.014
08/22/00	11:16:36	2.6297	-0.014
08/22/00	11:16:46	2.7863	-0.009
22/00	11:16:56	2.9530	-0.009
08/22/00	11:17:06	3.1297	-0.009
08/22/00	11:17:17	3.3163	-0.009
08/22/00	11:17:29	3.5147	-0.009
08/22/00	11:17:42	3.7247	-0.009
08/22/00	11:17:55	3.9463	-0.009
08/22/00	11:18:09	4.1813	-0.009
08/22/00	11:18:24	4.4297	-0.009
08/22/00	11:18:40	4.6930	-0.009
08/22/00	11:18:57	4.9730	-0.009
08/22/00	11:19:15	5.2697	-0.009
08/22/00	11:19:33	5.5830	-0.009
08/22/00	11:19:53	5.9147	-0.009
08/22/00	11:20:14	6.2663	-0.009
08/22/00	11:20:37	6.6397	-0.009
08/22/00	11:21:01	7.0347	-0.009
08/22/00	11:21:26	7.4530	-0.009
08/22/00	11:21:52	7.8963	-0.009
08/22/00	11:22:20	8.3663	-0.009
08/22/00	11:22:50	8.8647	-0.009
08/22/00	11:23:22	9.3913	-0.009
08/22/00	11:23:55	9.9497	-0.009
08/22/00	11:24:31	10.5413	-0.009
22/00	11:25:09	11.1680	-0.009
08/22/00	11:25:48	11.8313	-0.014
08/22/00	11:26:31	12.5347	-0.009

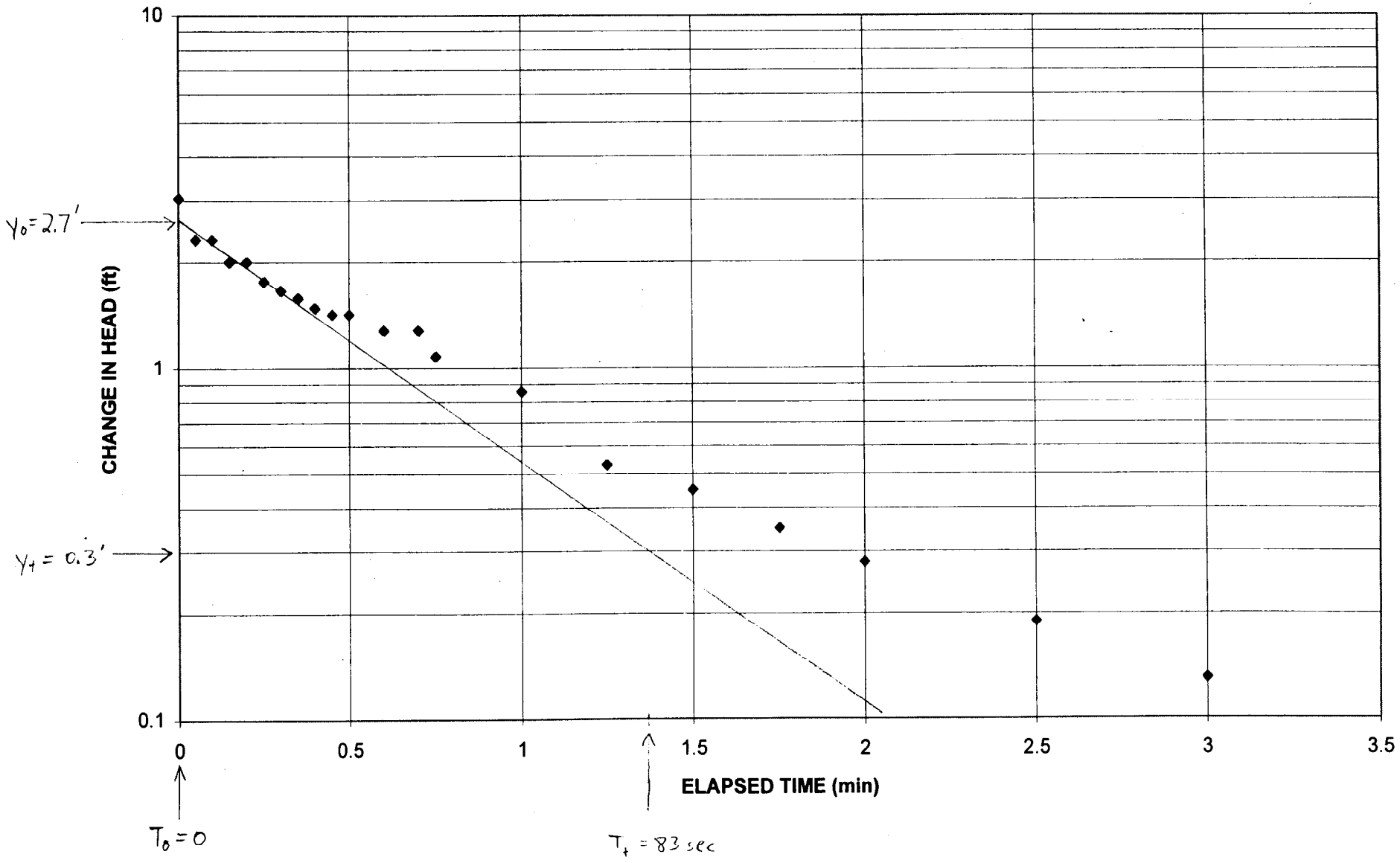
HYDRAULIC CONDUCTIVITY CALCULATIONS FROM SLUG TESTS					
K calculated after Bouwer and Rice, 1976					
SLUG TEST	7MW3D - Rising Head				
Scn Int L=	10	Tyo=	0	sec	
WT to Well Bt H=	34.72	Yo=	2.2	feet	
Aq Depth D=	34.72				
Rad Borehole Rw=	0.35	Tyt=	95	sec	
Case Rcase=	0.0833	Yt=	0.3	feet	
Cal Eff Rc' Rc=	0.204				
One used in K calc Rc=	0.0833				
L\Rw=	28.57				
A=	2.5				
B=	0.4				
C=	2				
IF D>H			IF D=H		
LN(Re/Rw)=	#NUM!		LN(Re/Rw)=	3.2333233	
Re=	#NUM!		Re=	8.8773333	
K=	#NUM!	ft/sec	K=	2.35E-05	ft/sec
	#NUM!	cm/sec		7.17E-04	cm/sec

HYDRAULIC CONDUCTIVITY CALCULATIONS FROM SLUG TESTS					
K calculated after Bouwer and Rice, 1976					
SLUG TEST	7MW3D - Falling Head				
Scn Int L=	10	Tyo=	0	sec	
WT to Well Bt H=	34.72	Yo=	2.7	feet	
Aq Depth D=	34.72				
Rad Borehole Rw=	0.35	Tyt=	83	sec	
Case Rcase=	0.0833	Yt=	0.3	feet	
Cal Eff Rc' Rc=	0.204				
One used in K calc Rc=	0.0833				
L\Rw=	28.57				
A=	2.5				
B=	0.4				
C=	2				
IF D>H			IF D=H		
LN(Re/Rw)=	#NUM!		LN(Re/Rw)=	3.2333233	
Re=	#NUM!		Re=	8.8773333	
K=	#NUM!	ft/sec	K=	2.97E-05	ft/sec
	#NUM!	cm/sec		9.05E-04	cm/sec

7MW3D-RH


10
1
0.1
CHANGE IN HEAD (feet)
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
ELAPSED TIME (min)
$Y_0 = 2.2'$
$Y_1 = 0.3$
$T_0 = 0$ sec
$T_1 = 95$ sec

7MW3D-FH


10
1
0.1
CHANGE IN HEAD (ft)
0
0.5
1
1.5
2
2.5
3
3.5
ELAPSED TIME (min)
$Y_0 = 2.7'$
$Y_f = 0.3'$
$T_0 = 0$
$T_f = 83$ sec

HYDRAULIC CONDUCTIVITY TESTING DATA SHEET

PROJECT NAME: NSR-NLON **WELL/BORING NO.:** 7MW3D

PROJECT NO.: 7856.0704 **GEOLOGIST:** M. G. COCHRAN

WELL DIAMETER: 2" **SCREEN LENGTH/DEPTH:** 10' **TEST NO.:** 2

STATIC WATER LEVEL (Depth/Elevation): 9.08 TOC **DATE:** 10-[illegible]-00

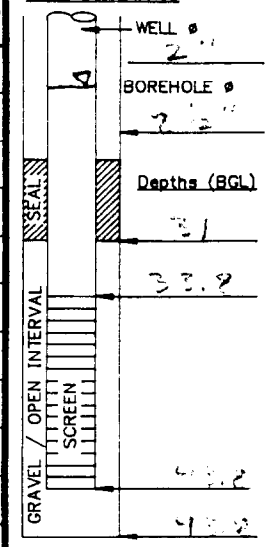
TEST TYPE (Rising/Falling/Constant Head): RISING HEAD **CHECKED:**

METHOD OF INDUCING WATER LEVEL CHANGE: SOLID SLUG **PAGE** 2 **OF** 2

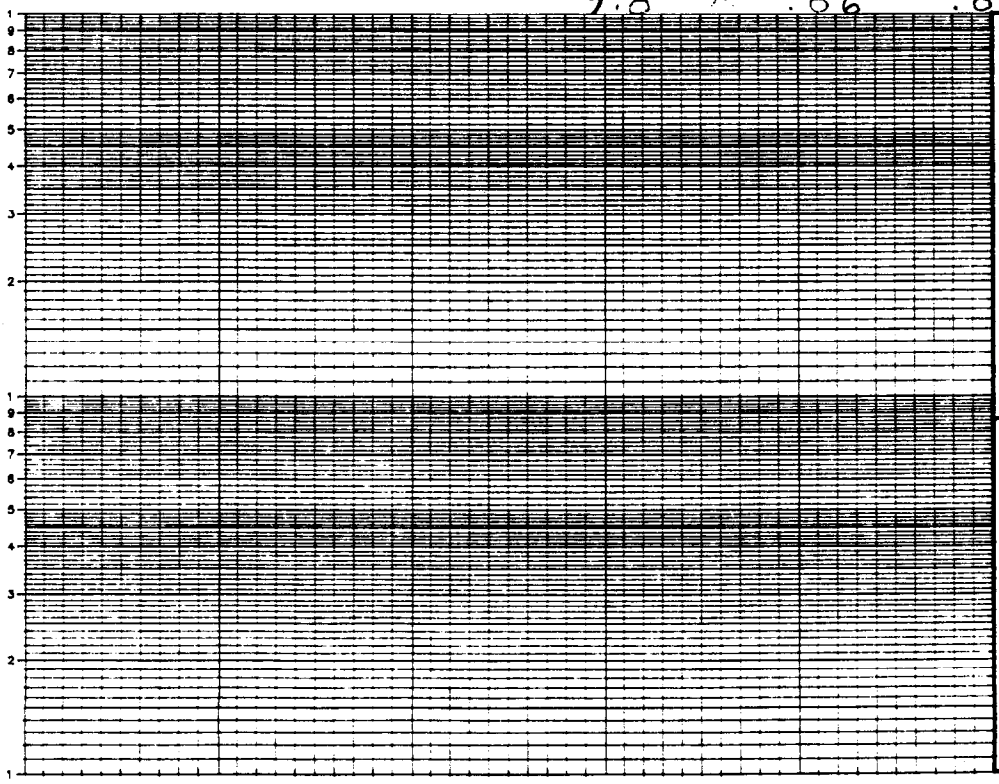
REFERENCE PT. FOR WL MEAS. (Top of Casing, Transducer, etc.): TRANSDUCER

ELAPSED TIME (min. or sec.)	MEASURED WATER LEVEL (feet)	DRAWDOWN OR HEAD (ΔH) (feet)	ELAPSED TIME (min. or sec.)	MEASURED WATER LEVEL (feet)	DRAWDOWN OR HEAD (ΔH) (feet)
0	2.50	1.0	36	1.12	.44
3	2.06	.82	39	1.06	.42
6	1.91	.76	42	1.02	.40
9	1.80	.72	45	.97	.39
12	1.68	.67	60	.79	.31
15	1.59	.63	1.25	.64	.25
18	1.50	.60	1.5	.52	.21
21	1.43	.40	1.75	.44	.17
24	1.35	.54	2.0	.37	.15
27	1.29	.51	2.5	.27	.11
30	1.22	.48	3.0	.20	.08
33	1.17	.46	4.0	.13	.05
			5.0	.09	.03
			6.0	.07	.03
			7.0	.06	.02

WELL SCHEMATIC



▽ Indicate SWL Depth on Drawing



REMARKS:

CALCS, SKETCH MAPS, ETC.:

HYDRAULIC CONDUCTIVITY TESTING DATA SHEET

PROJECT NAME: NSR- NLON **WELL/BORING NO.:** MW 3D

PROJECT NO.: 7856.0304 **GEOLOGIST:** M.G. COCHRAN

WELL DIAMETER: 2" **SCREEN LENGTH/DEPTH:** 10' **TEST NO.:** 1

STATIC WATER LEVEL (Depth/Elevation): 9.08 TOC **DATE:** 10-3-00

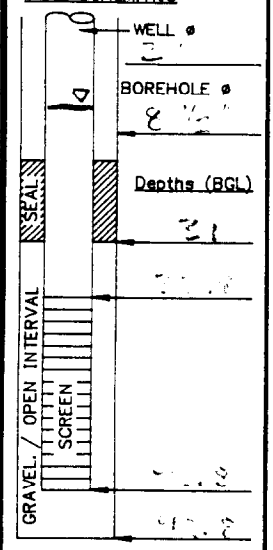
TEST TYPE (Rising/Falling/Constant Head): FALLING HEAD **CHECKED:**

METHOD OF INDUCING WATER LEVEL CHANGE: SOLID SLUG **PAGE** 1 **OF** 2

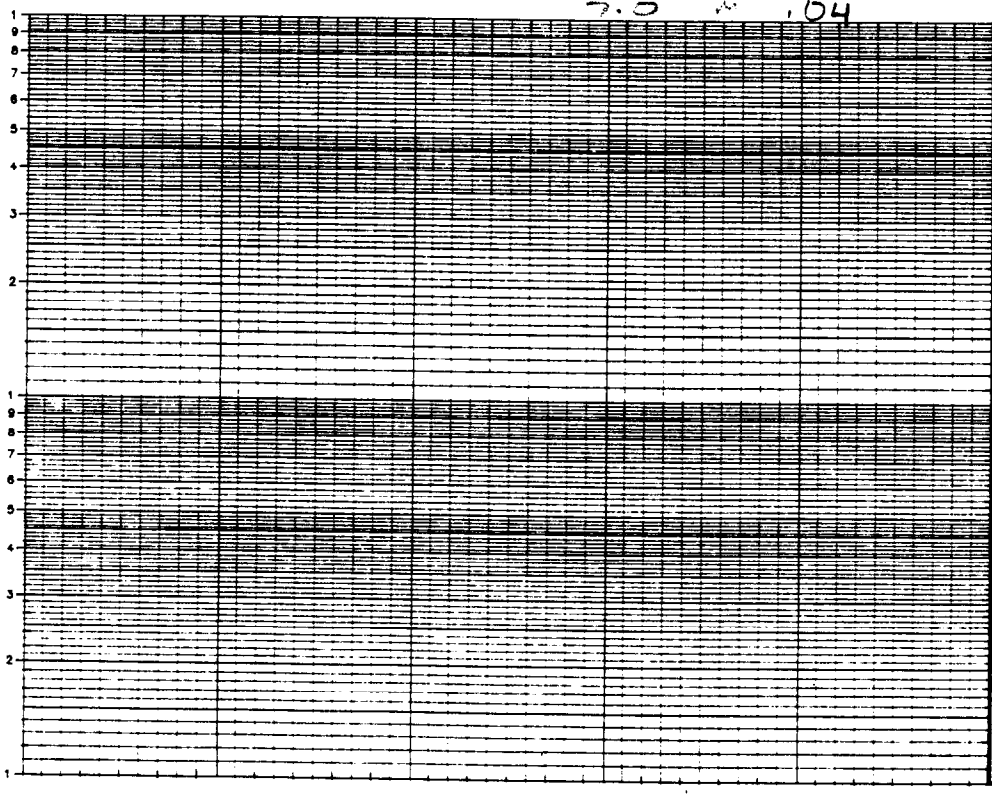
REFERENCE PT. FOR WL MEAS. (Top of Casing, Transducer, etc.): TRANSDUCER

ELAPSED TIME (min. or sec.)	MEASURED WATER LEVEL (feet)	DRAWDOWN OR HEAD (ΔH) (feet)	ELAPSED TIME (min. or sec.)	MEASURED WATER LEVEL (feet)	DRAWDOWN OR HEAD (ΔH) (feet)
0	3.14		36	1.28	
3	2.32		39	—	
6	2.32		42	1.28	
9	2.0		45	1.08	
12	2.0		60	.86	
15	1.76		1.25 m	.53	
18	1.66		1.50 m	.45	
21	1.58		1.75 m	.35	
24	1.48		2.0 m	.28	
27	1.42		2.5 m	.19	
30	1.42		3.0 m	.13	
33	—		4.0 m	.02	
			5.0 m	.06	
			6.0 m	.05	
			7.0 m	.04	

WELL SCHEMATIC



▽ Indicate SWL Depth on Drawing



REMARKS:

CALCS, SKETCH MAPS, ETC.:

APPENDIX A.5

SOIL SAMPLE LOGS

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NSB - NLON
Project No.: CTO 312 7856

Sample ID No.: S3SB14S3234
Sample Location: 3SB14S
Sampled By: DAVE CERCONE
C.O.C. No.: 062300 2

- [ ] Surface Soil
- [ ] Subsurface Soil
- [ ] Sediment
- [ ] Other:
- [ ] QA Sample Type:

Type of Sample:
- [x] Low Concentration
- [ ] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 6·22·00	32 TO 34' BGS	BUFF	SAND & GRAVEL WET
Time: 1730			
Method: SPLIT SPOON			
Monitor Reading (ppm):			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TOC	8 oz GLASS	—	

OBSERVATIONS / NOTES:

MAP:

SEE WORK PLAN

Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NSB-NCON
Project No.: CTO 312 JOB # 7856

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: S3S024D1012
Sample Location: 3MW29D
Sampled By: D.R. Carcone
C.O.C. No.:

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 6-23-00 Time: 1245 Method: Monitor Reading (ppm):	10-12	Brown - Buff	SAND & SILT, wet.

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TOC	4 oz G	✓	
Bulk Density	Shelby Tube	✓	
Porosity		✓	
pH	✓	✓	

OBSERVATIONS / NOTES:

3MW29D was never completed as a well due to shallow bedrock. This sample takes the place of the Shelby Tube at 3MW14S.

MAP:

Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s): D.R. Carcone.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NSB - NLON
Project No.: CTO 312 7556

Sample ID No.: SSB08 0607
Sample Location: TW 8
Sampled By: RES/SJC
C.O.C. No.: 0614001

- [ ] Surface Soil
- [x] Subsurface Soil
- [ ] Sediment
- [ ] Other:
- [ ] QA Sample Type:

Type of Sample:
- [x] Low Concentration
- [ ] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 6.13.00 Time: 1720 Method: DPT, MC Monitor Reading (ppm): 0	6 TO 7' BGS	BRN GRAY	SILTY F SAND TR WOOD FRAGS. MOIST

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other

OBSERVATIONS / NOTES:

WET @ 7' BGS

MAP:

SEE WORK PLAN

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): [illegible] S. Simp

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NSB - NLON
Project No.: CTO 312 7856

Sample ID No.: S7SB090809
Sample Location: 7TW9
Sampled By: RES / SJC
C.O.C. No.: 0614-001

- [ ] Surface Soil
- [x] Subsurface Soil
- [ ] Sediment
- [ ] Other:
- [ ] QA Sample Type:

Type of Sample:
- [x] Low Concentration
- [ ] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 6.13.00 Time: 1630 Method: DPT, MC Monitor Reading (ppm): 0	9 to 9' BGS	ORANGE/ BRN/ GRAY	SANDY SILT MOIST

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other

OBSERVATIONS / NOTES:

WET AT APPROX 9' BGS

MAP:

SEE WORK PLAN

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NSB - NLON
Project No.: CTO 312 7856

Sample ID No.: S7SB10 0607
Sample Location: 7TW 10
Sampled By: RES/SJC
C.O.C. No.: 061400

- [ ] Surface Soil
- [x] Subsurface Soil
- [ ] Sediment
- [ ] Other:
- [ ] QA Sample Type:

Type of Sample:
- [x] Low Concentration
- [ ] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 6-13-00 Time: 1650 Method: DPT, MC Monitor Reading (ppm):	6 to 7' BGS	BRN TO OLIVE GRAY	SILTY SAND SOME ROCK FRAGS. MOIST

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOC	ENCORE	—	
SVOC METALS	8 oz GLASS	—	

OBSERVATIONS / NOTES:

MAP:

SEE WORK PLAN

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

Kirk E. Simpson

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NSB - NION
Project No.: CTO 312 7056

Sample ID No.: S7SB180506
Sample Location: 7TB18
Sampled By: KES / SJC
C.O.C. No.: 0E14001

- [ ] Surface Soil
- [x] Subsurface Soil
- [ ] Sediment
- [ ] Other:
- [ ] QA Sample Type:

Type of Sample:
- [x] Low Concentration
- [ ] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 6-13-06 Time: 1605 Method: DPT MC Monitor Reading (ppm): 0	5 to 6' BGS	BRN	SILTY F-M SAND TR SANDY SILT SOME ROCK FRAGS MOIST

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOC	ENCORE	✓	
SVOC, METALS	8 oz GLASS	✓	

OBSERVATIONS / NOTES:

MAP:

SEE WORK PLAN

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

KES

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: CTO 312 JOB # 7856

Sample ID No.: S16SS01
Sample Location: 16SS1
Sampled By: K. SIMPSON
C.O.C. No.: 062500-1

[X] Surface Soil
[ ] Subsurface Soil
[ ] Sediment
[ ] Other:
[ ] QA Sample Type:

Type of Sample:
[X] Low Concentration
[ ] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 6 26 00 Time: 1350 Method: DISPOSABLE TROWEL Monitor Reading (ppm):	0 - 1'	BRN	FINE TO MED. SAND w/ GRAVEL SOME ROOTS MOIST TO DRY

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOC	3 ENCORE	✓	
TCL SVOC			
METALS	8 oz w/m GLASS	✓	
PEST/PCB			
DIOXINS/FURANS	8 oz w/m GLASS	✓	
SPLP PCB + METALS	8 oz w/m GLASS	✓	

OBSERVATIONS / NOTES:

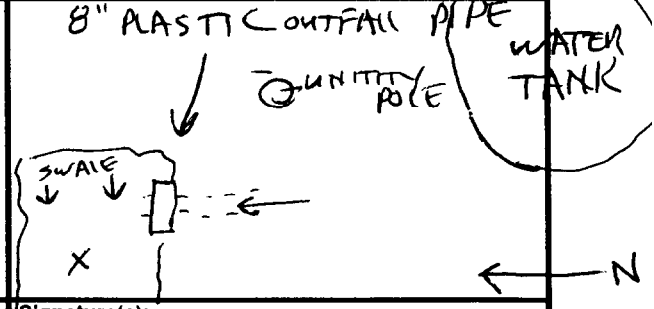
SAMPLED WITH DISPOSABLE TROWEL
REMOVED LEAF LITTER BEFORE SAMPLING.

MIXED IN-SITU
SEE WORK PLAN FIG.

NO FLOW IN PIPE OR SWALE

X = SAMPLE LOCATION

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NSB - NLON
Project No.: CTO 312 7856

Sample ID No.: S16SB01 0001
Sample Location: 16TB1
Sampled By: SJC/KES
C.O.C. No.: 061300 1

- [x] Surface Soil
- [ ] Subsurface Soil (SB)
- [ ] Sediment
- [ ] Other:
- [ ] QA Sample Type:

Type of Sample:
- [x] Low Concentration
- [ ] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 6.13.00 Time: 1050 Method: DPT MC Monitor Reading (ppm): 0	0 TO 1' BGS	BRN	SILTY SAND TR ROCK FRAGS DAMP

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOC	ENCORE	✓	
SVOC METALS PEST/PCB	8 oz GLASS	✓	
SPLP METALS + PCB	8 oz GLASS	✓	
DIOXINS/FURANS	8 oz GLASS	✓	

OBSERVATIONS / NOTES:

MAP:

SEE WORK PLAN

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NSB - NLON
Project No.: CTO 312 7956

Sample ID No.: S16SB03 0001
Sample Location: 16TB3
Sampled By: RES/SJC
C.O.C. No.: 061300 1

[X] Surface Soil
[ ] Subsurface Soil (SB)
[ ] Sediment
[ ] Other:
[ ] QA Sample Type:

Type of Sample:
[X] Low Concentration
[ ] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 6.13.00 Time: 1040 Method: DPT, MC Monitor Reading (ppm): 0	0 to 1' BGS	BRN	SILTY SAND - SOME ROCK FRAGS. AND GRAVEL FRAGS MOIST

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOC	ENCORE	✓	
SVOC, METALS, PEST/PCB	8 oz GLASS	✓	
SPLP METALS + PCB	8 oz GLASS	✓	
DIOXINS/FURANS	8 oz GLASS	✓	

OBSERVATIONS / NOTES:

MAP:

SEE WORK PLAN

Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NSB - NLON
Project No.: CTO 312 7556

Sample ID No.: S16SB05 0001
Sample Location: 16TB5
Sampled By: KES/SJC
C.O.C. No.: 061300 1

- [x] Surface Soil
- [ ] Subsurface Soil (SB)
- [ ] Sediment
- [ ] Other:
- [ ] QA Sample Type:

Type of Sample:
- [x] Low Concentration
- [ ] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 6.13.00 Time: 1100 Method: DPT MC Monitor Reading (ppm): 0	0 to 1' BGS	TAN BRN	SILTY F-C SAND TR GRAVEL & ROCK FRAGS. DAMP → MOIST

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOC	ENCORE	—	
SVOC METALS PEST/PCB	8oz GLASS	—	
SPLP METALS + PCB	8oz GLASS	—	
DIOXINS/FURANS	8oz GLASS	—	

OBSERVATIONS / NOTES:

MAP:

SEE WORK PLAN

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NSB - NLON
Project No.: CTO 312 7556

Sample ID No.: 516SB06 0001
Sample Location: 16TB 6 KES
Sampled By: SJC/KES
C.O.C. No.: 061300 1

- [x] Surface Soil
- [ ] Subsurface Soil (SB)
- [ ] Sediment
- [ ] Other:
- [ ] QA Sample Type:

Type of Sample:
- [x] Low Concentration
- [ ] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 6.13.00 Time: 0940 Method: DPT MC Monitor Reading (ppm): 0	0 TO 1' BGS	BRN	SILTY SAND - ROCK FRAGS. MOIST

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOC	ENCORE	—	
SVOC, METALS, PEST/PCB	8 oz GLASS	—	
SPLP METALS + PCB	8 oz GLASS	—	
DIOXINS/FURANS	8 oz GLASS	—	

OBSERVATIONS / NOTES:

MAP:

SEE WORK PLAN

Circle if Applicable:

MS/MSD

Duplicate ID No.: —

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NSB - NLON
Project No.: CTO 312 7856

Sample ID No.: S16SB070001
Sample Location: 16TB7
Sampled By: SJC/KES
C.O.C. No.: 061300 1

- [x] Surface Soil
- [ ] Subsurface Soil (SB)
- [ ] Sediment
- [ ] Other:
- [ ] QA Sample Type:

Type of Sample:
- [x] Low Concentration
- [ ] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 6·13·00			
Time: 0915	0 TO 1' BGS	BRN	SILTY SAND ROCK FRAGS. & GRAVEL
Method: DPT, MC			DAMP / MOIST
Monitor Reading (ppm): 0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOC	ENCORE	✓	
SVOC, METALS PEST/PCB	8 oz GLASS	✓	
SPLP METALS + PCB	8 oz GLASS	✓	
DIOXINS/ FURANS	8 oz GLASS	✓	

OBSERVATIONS / NOTES:

MAP:

SEE WORK PLAN

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

KES / S Simon

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NSB - NLON
Project No.: CTO 312 7856

Sample ID No.: S16SB 08 0001
Sample Location: 16TB 8
Sampled By: SJC/KES
C.O.C. No.: 061300 1

[X] Surface Soil
[ ] Subsurface Soil SB
[ ] Sediment
[ ] Other:
[ ] QA Sample Type:

Type of Sample:
[X] Low Concentration
[ ] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 6.13.00 Time: 0835 Method: DPT, MC Monitor Reading (ppm): 0	0 to 1' BGS	BRN GRAY	SILTY SAND / SANDY SILT MOIST

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOC	ENCORE	✓	
SVOC METALS/PEST/PCB	8 oz GLASS	✓	
SPLP METALS + PCB	8 oz GLASS	✓	
DIOXINS / FURANS	8 oz GLASS	✓	

OBSERVATIONS / NOTES:

MAP:

SEE WORK PLAN

Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NSB - NLON
Project No.: CTO 312 7856

Sample ID No.: S165B08 0405
Sample Location: 16TB8
Sampled By: 061300 1
C.O.C. No.: RES/SJC

- [ ] Surface Soil
- [x] Subsurface Soil
- [ ] Sediment
- [ ] Other:
- [ ] QA Sample Type:

Type of Sample:
- [x] Low Concentration
- [ ] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 6·13·00 Time: 0845 Method: DPT, MC Monitor Reading (ppm): 0	4 TO 5' BGS	BRN GRAY	SILTY SAND / SANDY SILT MOIST

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOC	ENCORE	—	
SVOC, METALS, PEST/PCB	8 oz GLASS	—	
SPLP METALS + PCB	8 oz GLASS	—	
DIOXINS / FURANS	8 oz GLASS	—	

OBSERVATIONS / NOTES:

MAP:

SEE WORK PLAN

Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NSB - NLON
Project No.: CTO 312 7856

Sample ID No.: S1ESB010001
Sample Location: 1ETB1
Sampled By: RES/SJC
C.O.C. No.: 061200 1

[X] Surface Soil
[ ] Subsurface Soil (SB)
[ ] Sediment
[ ] Other:
[ ] QA Sample Type:

Type of Sample:
[X] Low Concentration
[ ] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 6·12·00 Time: 1445 Method: DPT, MC Monitor Reading (ppm): 0	0 TO 1' BGS	YELLOW BRN	SILTY F/SAND - TR ROOTS MOIST

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOC	ENCORE	—	
SVOC, METALS, PEST/PCB	8 oz GLASS	—	
SPLP METALS + PCB	8 oz GLASS	—	

OBSERVATIONS / NOTES:

MAP:

SEE WORK PLAN.

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NSB - NLON
Project No.: CTO 312 7556

[ ] Surface Soil
[X] Subsurface Soil
[ ] Sediment
[ ] Other:
[ ] QA Sample Type:

Sample ID No.: S18SB010506
Sample Location: 18TB1
Sampled By: SJC/RES
C.O.C. No.: 061200 1

Type of Sample:
[X] Low Concentration
[ ] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 6.12.00 Time: 1450 Method: DPT, MC Monitor Reading (ppm): 0	5 to 6' BGS	GRAY	SILTY F/SAND TR GRAVEL & ROCK FRAGS. WET

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOC	ENCORE	—	
SVOC, METALS, PEST/PCB	8 oz GLASS	—	
SPLP METALS + PCB	8 oz GLASS	—	

OBSERVATIONS / NOTES:

MAP:

SEE WORK PLAN

Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NSB - NLON
Project No.: CTO 312 7856

Sample ID No.: S18SB02 0001
Sample Location: 18TB2
Sampled By: SJC/KES
C.O.C. No.: 061200 1

- [x] Surface Soil (SB)
- [ ] Subsurface Soil
- [ ] Sediment
- [ ] Other:
- [ ] QA Sample Type:

Type of Sample:
- [x] Low Concentration
- [ ] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 6.12.00 Time: 1310 Method: DPT, MC Monitor Reading (ppm): 0.5	0-1' BGS	BRN	SILTY F/M SAND TR ROCK & GRAVEL FRAGS MOIST

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOC	ENCORE	✓	
SVOC METALS PEST/PCB	8 oz GLASS	✓	
SPLP METALS + PCB	8 oz GLASS	✓	

OBSERVATIONS / NOTES:

MAP:

SEE WORK PLAN

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): K.E. S. Simon

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NSB - NION
Project No.: CTO 312 7856

Sample ID No.: S18SB02CA05
Sample Location: 18TB2
Sampled By: RES / SJC
C.O.C. No.: 061200 1

- [ ] Surface Soil
- [x] Subsurface Soil
- [ ] Sediment
- [ ] Other:
- [ ] QA Sample Type:

Type of Sample:
- [x] Low Concentration
- [ ] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 6·12·00 Time: 1315 Method: DPT, MC Monitor Reading (ppm): 0	4 TO 5' BGS	BRN	SILTY F/M SAND TR ROCK & GRAVEL FRAGS MOIST TO WET

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOC	✓ ENCORE	✓	
SVOC METALS PEST/PCB	✓ 8 oz GLASS	✓	
SPLP METALS + PCB	✓ 8 oz GLASS	✓	
	2X VOC COLLECTED FOR DUP		

OBSERVATIONS / NOTES:

MAP: SEE WORK PLAN

Circle if Applicable:

MS/MSD	Duplicate ID No.: YES
—	FD 061200 1

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NSB - NLON
Project No.: CTO 312 7856

Sample ID No.: S18SB030708
Sample Location: 18TB
Sampled By: SJC / RES
C.O.C. No.: 061200 1

- [ ] Surface Soil
- [x] Subsurface Soil
- [ ] Sediment
- [ ] Other:
- [ ] QA Sample Type:

Type of Sample:
- [x] Low Concentration
- [ ] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 6.12.00 Time: 1250 Method: DPT, MC Monitor Reading (ppm): 0	7 TO 8' BGS	GRAY BRN	SILTY SAND, TR GRAVEL, TR ROCK FRAGS

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOC	ENCORE	—	
SVOC, METALS, PEST/PCB	8 oz GLASS	—	
SPLP METALS + PCB	8 oz GLASS	—	

OBSERVATIONS / NOTES:

MAP:

SEE WORK PLAN

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NSB - NLON
Project No.: CTO 312 7856

Sample ID No.: S18SB03 0001
Sample Location: 18TB3
Sampled By: SJC/KES
C.O.C. No.: 061200 1

- [x] Surface Soil (SB)
- [ ] Subsurface Soil
- [ ] Sediment
- [ ] Other:
- [ ] QA Sample Type:

Type of Sample:
- [x] Low Concentration
- [ ] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 6.12.00 Time: 1235 Method: DPT MC Monitor Reading (ppm): 0	0 to 1' BGS	YELLOW BRN	SILTY SAND / SANDY SILT MOIST FILL?

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOC	ENCORE	✓	
SVOC, METALS, PEST/PCB	8 oz GLASS	✓	
SP LP METALS + PCB	8 oz GLASS	✓	

OBSERVATIONS / NOTES:

MAP:

SEE WORK PLAN

Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NSB - NLON
Project No.: CTO 312 7856

Sample ID No.: S18SB04 0001
Sample Location: 18TB4
Sampled By: SJC/KES
C.O.C. No.: 0612001

- [x] Surface Soil
- [ ] Subsurface Soil (SB)
- [ ] Sediment
- [ ] Other:
- [ ] QA Sample Type:

Type of Sample:
- [x] Low Concentration
- [ ] High Concentration

GRAB SAMPLE DATA:

	Depth BGS	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 6.12.00 Time: 1042 Method: DPT, MC Monitor Reading (ppm): 0	0 TO 1'	BRN	SILTY SAND SOME GRAVEL MOIST

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOC	ENCORE	✓	
SVOC, METALS, PEST/PCB	8 oz GLASS	✓	
SPLP METALS + PCB	8 oz GLASS	✓	

OBSERVATIONS / NOTES:

MAP:

SEE WORK PLAN

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

K. S. Simon

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NSB - NLON
Project No.: CTO 312 7856

Sample ID No.: S19SB040708
Sample Location: 19TB4
Sampled By: SJC / KES
C.O.C. No.: 061200 1

- [ ] Surface Soil
- [x] Subsurface Soil
- [ ] Sediment
- [ ] Other:
- [ ] QA Sample Type:

Type of Sample:
- [x] Low Concentration
- [ ] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 6·12·00 Time: 1045 Method: DPT MC Monitor Reading (ppm): 0	7 TO 8' BGS	BRN	SILTY SAND TR ROCK FRAGS TR CLAY MOIST TO WET

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOC	EN CORE	✓	
SVOC METALS + PEST/PCB	8 oz GLASS	✓	
SPLP METALS + PCB	8 oz GLASS	✓	

OBSERVATIONS / NOTES:

MAP:

SEE WORK PLAN

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

KES Sanp

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NSB - NION
Project No.: CTO 312 7856

Sample ID No.: S18SB050001
Sample Location: 18TB5
Sampled By: KES/SJC
C.O.C. No.: 061200 1

[X] Surface Soil (SB)
[ ] Subsurface Soil
[ ] Sediment
[ ] Other:
[ ] QA Sample Type:

Type of Sample:
[X] Low Concentration
[ ] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 6.12.00 Time: 1410 Method: DPT, MC Monitor Reading (ppm): 0	0-1' BGS	TAN BRN	SILTY SAND - SOME GRAVEL MOIST

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOC	ENCORE	—	
SVOC, METALS PEST/PCB	8 oz GLASS	—	
SPLP METALS + PCB	8 oz GLASS	—	

OBSERVATIONS / NOTES:

MAP:

SEE WORK PLAN

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NSB - NLON
Project No.: CTO 312 7956

Sample ID No.: S18SB05 0405
Sample Location: 18TB5
Sampled By: RES/SJC
C.O.C. No.: C61200 1

- [ ] Surface Soil
- [x] Subsurface Soil
- [ ] Sediment
- [ ] Other:
- [ ] QA Sample Type:

Type of Sample:
- [x] Low Concentration
- [ ] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 6.12.00 Time: 1420 Method: DPT MC Monitor Reading (ppm): 0	4 TO 5' BGS	TAN BRN	SILTY F SAND - TR M SAND LENSES MOIST

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOC	ENCORE	✓	
SVOC METALS PEST/PCB	8 oz GLASS	✓	
SPLP METALS + PCB	8 oz GLASS	✓	
	2X VOC FOR MS/MSD		

OBSERVATIONS / NOTES:

WET @ 5'

MAP:

SEE WORK PLAN

Circle if Applicable:

MS/MSD	Duplicate ID No.:
YES	—

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: CTO 312 JOB # 7856

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: S23SB04S1012
Sample Location: 23 MW04S.
Sampled By: Conti / Cercone
C.O.C. No.:

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 6-20 & 6-23	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1050	10-12'	Buff to Brown	SAND- + SILT. wet.
Method:			
Monitor Reading (ppm):			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TOC	4 oz	✓	
Bulk Density	Shelby Tube	✓	
Porosity	"	✓	
pH	"	✓	

OBSERVATIONS / NOTES:

TOC was not refrigerated on first attempt (6-20-00) therefore the sample was recollected.

MAP:

–

Circle if Applicable:

MS/MSD	Duplicate ID No.:
–	–

Signature(s): D F Cercone.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: CTO 312 JOB # 7856

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: S23MW023 0810
Sample Location: 23MW023
Sampled By: DC / STC
C.O.C. No.:

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 6-20 + 6-23	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time:	8-10'	Gray	Clayey SAND.
Method:			
Monitor Reading (ppm):			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TOC	4oz	✓	
Bulk Density	Shelby Tube	✓	
Porosity	"	✓	
pH	"	✓	

OBSERVATIONS / NOTES:

TOC was not refrigerated on 6-20-00 attempt. Recollected on 6-23-00.

MAP:

—

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s): DP Cercone

APPENDIX A.6

GROUNDWATER PURGE SHEETS AND SAMPLE LOGS

SUMMARY OF FIELD PARAMETERS- GROUNDWATER SAMPLING INFORMATION

SAMPLE	LOCATION	SAMPLE DATE	PARAMETER	RESULT	QUAL	UNITS
3GW37S04	3MW37S	7/20/00	PH	6.12		
3GW37S04	3MW37S	7/20/00	SPECIFIC CONDUCTIVITY	0.664		MS/CM
3GW37S04	3MW37S	7/20/00	TEMPERATURE	16.5		C
3GW37S04	3MW37S	7/20/00	TURBIDITY	1.9		NTU
3GW37S04	3MW37S	7/20/00	DISSOLVED OXYGEN	1.19		
3GW37S04	3MW37S	7/20/00	REDOX POTENTIAL	50		MV
3GW37S04	3MW37S	7/20/00	SALINTY	0		%
2WGW38DS-04	2WMW38DS	7/20-23/00	PH	6.8		
2WGW38DS-04	2WMW38DS	7/20-23/00	SPECIFIC CONDUCTIVITY	1.29		MS/CM
2WGW38DS-04	2WMW38DS	7/20-23/00	TEMPERATURE	14.7		C
2WGW38DS-04	2WMW38DS	7/20-23/00	TURBIDITY	1.27		NTU
2WGW38DS-04	2WMW38DS	7/20-23/00	DISSOLVED OXYGEN	2.14		
2WGW38DS-04	2WMW38DS	7/20-23/00	REDOX POTENTIAL	-126		MV
2WGW38DS-04	2WMW38DS	7/20-23/00	SALINTY	0.1		%
2W-GW39DS-04	2WMW39DS	7/19/00	PH	6.85		
2W-GW39DS-04	2WMW39DS	7/19/00	SPECIFIC CONDUCTIVITY	4.69		MS/CM
2W-GW39DS-04	2WMW39DS	7/19/00	TEMPERATURE	13.1		C
2W-GW39DS-04	2WMW39DS	7/19/00	TURBIDITY	11.5		NTU
2W-GW39DS-04	2WMW39DS	7/19/00	DISSOLVED OXYGEN	0.7		
2W-GW39DS-04	2WMW39DS	7/19/00	REDOX POTENTIAL	-133		MV
2W-GW39DS-04	2WMW39DS	7/19/00	SALINTY	0.2		%
2W-GW40DS-04	2WMW40DS	7/20/00	PH	7.13		
2W-GW40DS-04	2WMW40DS	7/20/00	SPECIFIC CONDUCTIVITY	35.5		MS/CM
2W-GW40DS-04	2WMW40DS	7/20/00	TEMPERATURE	13.86		C
2W-GW40DS-04	2WMW40DS	7/20/00	TURBIDITY	10.66		NTU
2W-GW40DS-04	2WMW40DS	7/20/00	DISSOLVED OXYGEN	0.64		
2W-GW40DS-04	2WMW40DS	7/20/00	REDOX POTENTIAL	-324		MV
2W-GW40DS-04	2WMW40DS	7/20/00	SALINTY	2.3		%
2W-GW41DS-04	2WMW41DS	7/20/00	PH	6.93		
2W-GW41DS-04	2WMW41DS	7/20/00	SPECIFIC CONDUCTIVITY	27.4		MS/CM
2W-GW41DS-04	2WMW41DS	7/20/00	TEMPERATURE	13.4		C
2W-GW41DS-04	2WMW41DS	7/20/00	TURBIDITY	6.4		NTU
2W-GW41DS-04	2WMW41DS	7/20/00	DISSOLVED OXYGEN	0.24		
2W-GW41DS-04	2WMW41DS	7/20/00	REDOX POTENTIAL	-349		MV
2W-GW41DS-04	2WMW41DS	7/20/00	SALINTY	1.7		%
2W-GW42DS-04	2WMW42DS	7/20/00	PH	7.09		
2W-GW42DS-04	2WMW42DS	7/20/00	SPECIFIC CONDUCTIVITY	31.3		MS/CM
2W-GW42DS-04	2WMW42DS	7/20/00	TEMPERATURE	12.2		C
2W-GW42DS-04	2WMW42DS	7/20/00	TURBIDITY	20		NTU
2W-GW42DS-04	2WMW42DS	7/20/00	DISSOLVED OXYGEN	0.31		
2W-GW42DS-04	2WMW42DS	7/20/00	REDOX POTENTIAL	-351		MV
2W-GW42DS-04	2WMW42DS	7/20/00	SALINTY	1.9		%
2W-GW43DS-04	2WMW43DS	7/21/00	PH	6.85		
2W-GW43DS-04	2WMW43DS	7/21/00	SPECIFIC CONDUCTIVITY	40.6		MS/CM
2W-GW43DS-04	2WMW43DS	7/21/00	TEMPERATURE	11.7		C
2W-GW43DS-04	2WMW43DS	7/21/00	TURBIDITY	50.2		NTU
2W-GW43DS-04	2WMW43DS	7/21/00	DISSOLVED OXYGEN	0.28		
2W-GW43DS-04	2WMW43DS	7/21/00	REDOX POTENTIAL	-371		MV
2W-GW43DS-04	2WMW43DS	7/21/00	SALINTY	2.6		%
2W-GW44DS-04	2WMW44DS	7/20/00	PH	7.15		
2W-GW44DS-04	2WMW44DS	7/20/00	SPECIFIC CONDUCTIVITY	22.2		MS/CM
2W-GW44DS-04	2WMW44DS	7/20/00	TEMPERATURE	12.2		C

SAMPLE	LOCATION	SAMPLE DATE	PARAMETER	RESULT	QUAL	UNITS
2W-GW44DS-04	2WMW44DS	7/20/00	TURBIDITY	49		NTU
2W-GW44DS-04	2WMW44DS	7/20/00	DISSOLVED OXYGEN	0.8		
2W-GW44DS-04	2WMW44DS	7/20/00	REDOX POTENTIAL	-325		MV
2W-GW44DS-04	2WMW44DS	7/20/00	SALINTY	1.3		%
2W-GW45DS-04	2WMW44DS	7/20/00	PH	7.03		
2W-GW45DS-04	2WMW44DS	7/20/00	SPECIFIC CONDUCTIVITY	37.5		MS/CM
2W-GW45DS-04	2WMW44DS	7/20/00	TEMPERATURE	11.3		C
2W-GW45DS-04	2WMW44DS	7/20/00	TURBIDITY	25.7		NTU
2W-GW45DS-04	2WMW44DS	7/20/00	DISSOLVED OXYGEN	0.26		
2W-GW45DS-04	2WMW44DS	7/20/00	REDOX POTENTIAL	-382		MV
2W-GW45DS-04	2WMW44DS	7/20/00	SALINTY	2.3		%
2W-GW46DS-04	2WMW46DS	7/20/00	PH	7.28		
2W-GW46DS-04	2WMW46DS	7/20/00	SPECIFIC CONDUCTIVITY	44.5		MS/CM
2W-GW46DS-04	2WMW46DS	7/20/00	TEMPERATURE	15.1		C
2W-GW46DS-04	2WMW46DS	7/20/00	TURBIDITY	42.4		NTU
2W-GW46DS-04	2WMW46DS	7/20/00	DISSOLVED OXYGEN	0.2		
2W-GW46DS-04	2WMW46DS	7/20/00	REDOX POTENTIAL	-363		MV
2W-GW46DS-04	2WMW46DS	7/20/00	SALINTY	2.8		%
2W-GW47DS-04	2WMW47DS	7/18/00	PH	6.6		
2W-GW47DS-04	2WMW47DS	7/18/00	SPECIFIC CONDUCTIVITY	11.6		MS/CM
2W-GW47DS-04	2WMW47DS	7/18/00	TEMPERATURE	17.7		C
2W-GW47DS-04	2WMW47DS	7/18/00	TURBIDITY	101		NTU
2W-GW47DS-04	2WMW47DS	7/18/00	DISSOLVED OXYGEN	0.24		
2W-GW47DS-04	2WMW47DS	7/18/00	REDOX POTENTIAL	-451		MV
2W-GW47DS-04	2WMW47DS	7/18/00	SALINTY	0.7		%
S3TW0101	3TW01	6/10/00	PH	5.7		
S3TW0101	3TW01	6/10/00	SPECIFIC CONDUCTIVITY	0.367		MS/CM
S3TW0101	3TW01	6/10/00	TEMPERATURE	12.1		C
S3TW0101	3TW01	6/10/00	TURBIDITY	0.1		NTU
S3TW0101	3TW01	6/10/00	DISSOLVED OXYGEN	1.84		
S3TW0101	3TW01	6/10/00	REDOX POTENTIAL	7		MV
S3TW0101	3TW01	6/10/00	SALINTY	0		%
S3TW0401	3TW4	6/10/00	PH	6		
S3TW0401	3TW4	6/10/00	SPECIFIC CONDUCTIVITY	0.432		MS/CM
S3TW0401	3TW4	6/10/00	TEMPERATURE	13.2		C
S3TW0401	3TW4	6/10/00	TURBIDITY	0.1		NTU
S3TW0401	3TW4	6/10/00	DISSOLVED OXYGEN	6.09		
S3TW0401	3TW4	6/10/00	REDOX POTENTIAL	104		MV
S3TW0401	3TW4	6/10/00	SALINTY	0		%
S3TW1001	3TW10	6/10/00	PH	5.94		
S3TW1001	3TW10	6/10/00	SPECIFIC CONDUCTIVITY	0.332		MS/CM
S3TW1001	3TW10	6/10/00	TEMPERATURE	12.3		C
S3TW1001	3TW10	6/10/00	TURBIDITY	0		NTU
S3TW1001	3TW10	6/10/00	DISSOLVED OXYGEN	7.69		
S3TW1001	3TW10	6/10/00	REDOX POTENTIAL	348		MV
S3TW1001	3TW10	6/10/00	SALINTY	0		%
S3TW1501	3TW15	6/9/00	PH	6.3		
S3TW1501	3TW15	6/9/00	SPECIFIC CONDUCTIVITY	0.371		MS/CM
S3TW1501	3TW15	6/9/00	TEMPERATURE	13.3		C
S3TW1501	3TW15	6/9/00	TURBIDITY	45		NTU
S3TW1501	3TW15	6/9/00	DISSOLVED OXYGEN	9.7		
S3TW1501	3TW15	6/9/00	REDOX POTENTIAL	143		MV

SAMPLE	LOCATION	SAMPLE DATE	PARAMETER	RESULT	QUAL	UNITS
S3TW1501	3TW15	6/9/00	SALINTY	0		%
S3TW1701	3TW17	6/9/00	PH	6.26		
S3TW1701	3TW17	6/9/00	SPECIFIC CONDUCTIVITY	0.429		MS/CM
S3TW1701	3TW17	6/9/00	TEMPERATURE	13.6		C
S3TW1701	3TW17	6/9/00	TURBIDITY	0.2		NTU
S3TW1701	3TW17	6/9/00	DISSOLVED OXYGEN	6.87		
S3TW1701	3TW17	6/9/00	REDOX POTENTIAL	249		MV
S3TW1701	3TW17	6/9/00	SALINTY	0		%
S3TW2201	3TW22	6/9/00	PH	6		
S3TW2201	3TW22	6/9/00	SPECIFIC CONDUCTIVITY	0.243		MS/CM
S3TW2201	3TW22	6/9/00	TEMPERATURE	10.9		C
S3TW2201	3TW22	6/9/00	TURBIDITY	4.6		NTU
S3TW2201	3TW22	6/9/00	DISSOLVED OXYGEN	2.63		
S3TW2201	3TW22	6/9/00	REDOX POTENTIAL	-274		MV
S3TW2201	3TW22	6/9/00	SALINTY	0		%
S3TW2501	3TW25	6/11/00	PH	5.41		
S3TW2501	3TW25	6/11/00	SPECIFIC CONDUCTIVITY	0.224		MS/CM
S3TW2501	3TW25	6/11/00	TEMPERATURE	13.5		C
S3TW2501	3TW25	6/11/00	TURBIDITY	4.9		NTU
S3TW2501	3TW25	6/11/00	DISSOLVED OXYGEN	1.05		
S3TW2501	3TW25	6/11/00	REDOX POTENTIAL	-376		MV
S3TW2501	3TW25	6/11/00	SALINTY	0		%
S7TW0101	7TW1	6/11/00	PH	6.33		
S7TW0101	7TW1	6/11/00	SPECIFIC CONDUCTIVITY	0.544		MS/CM
S7TW0101	7TW1	6/11/00	TEMPERATURE	14.5		C
S7TW0101	7TW1	6/11/00	TURBIDITY	0		NTU
S7TW0101	7TW1	6/11/00	DISSOLVED OXYGEN	7.29		
S7TW0101	7TW1	6/11/00	REDOX POTENTIAL	313		MV
S7TW0101	7TW1	6/11/00	SALINTY	0		%
S7TW0201	7TW2	6/11/00	PH	6.13		
S7TW0201	7TW2	6/11/00	SPECIFIC CONDUCTIVITY	0.52		MS/CM
S7TW0201	7TW2	6/11/00	TEMPERATURE	18.9		C
S7TW0201	7TW2	6/11/00	TURBIDITY	7.4		NTU
S7TW0201	7TW2	6/11/00	DISSOLVED OXYGEN	0.52		
S7TW0201	7TW2	6/11/00	REDOX POTENTIAL	-21		MV
S7TW0201	7TW2	6/11/00	SALINTY	0		%
S7TW0301	7TW3	6/11/00	PH	6.28		
S7TW0301	7TW3	6/11/00	SPECIFIC CONDUCTIVITY	0.552		MS/CM
S7TW0301	7TW3	6/11/00	TEMPERATURE	16.07		C
S7TW0301	7TW3	6/11/00	TURBIDITY	0		NTU
S7TW0301	7TW3	6/11/00	DISSOLVED OXYGEN	1.99		
S7TW0301	7TW3	6/11/00	REDOX POTENTIAL	20		MV
S7TW0301	7TW3	6/11/00	SALINTY	0		%
S7TW0401	7TW4	6/11/00	PH	6.27		
S7TW0401	7TW4	6/11/00	SPECIFIC CONDUCTIVITY	0.464		MS/CM
S7TW0401	7TW4	6/11/00	TEMPERATURE	18.3		C
S7TW0401	7TW4	6/11/00	TURBIDITY	295		NTU
S7TW0401	7TW4	6/11/00	DISSOLVED OXYGEN	5.22		
S7TW0401	7TW4	6/11/00	REDOX POTENTIAL	-4		MV
S7TW0401	7TW4	6/11/00	SALINTY	0		%
S7TW0501	7TW05	6/11/00	PH	6.12		
S7TW0501	7TW05	6/11/00	SPECIFIC CONDUCTIVITY	1.98		MS/CM

SAMPLE	LOCATION	SAMPLE DATE	PARAMETER	RESULT	QUAL	UNITS
S7TW0501	7TW05	6/11/00	TEMPERATURE	14.56		C
S7TW0501	7TW05	6/11/00	TURBIDITY	0.3		NTU
S7TW0501	7TW05	6/11/00	DISSOLVED OXYGEN	1.87		
S7TW0501	7TW05	6/11/00	REDOX POTENTIAL	-128		MV
S7TW0501	7TW05	6/11/00	SALINTY	0		%
S7TW0601	7TW06	6/11/00	PH	6		
S7TW0601	7TW06	6/11/00	SPECIFIC CONDUCTIVITY	0.259		MS/CM
S7TW0601	7TW06	6/11/00	TEMPERATURE	17.3		C
S7TW0601	7TW06	6/11/00	TURBIDITY	35		NTU
S7TW0601	7TW06	6/11/00	DISSOLVED OXYGEN	1.06		
S7TW0601	7TW06	6/11/00	REDOX POTENTIAL	-276		MV
S7TW0601	7TW06	6/11/00	SALINTY	0		%
S7TW0701	7TW07	6/11/00	PH	6.29		
S7TW0701	7TW07	6/11/00	SPECIFIC CONDUCTIVITY	0.507		MS/CM
S7TW0701	7TW07	6/11/00	TEMPERATURE	20.8		C
S7TW0701	7TW07	6/11/00	TURBIDITY	0		NTU
S7TW0701	7TW07	6/11/00	DISSOLVED OXYGEN	3.77		
S7TW0701	7TW07	6/11/00	REDOX POTENTIAL	38		MV
S7TW0701	7TW07	6/11/00	SALINTY	0		%
S14MW1S01	14MW1S	8/5/00	PH	5.45		
S14MW1S01	14MW1S	8/5/00	SPECIFIC CONDUCTIVITY	0.254		MS/CM
S14MW1S01	14MW1S	8/5/00	TEMPERATURE	15.74		C
S14MW1S01	14MW1S	8/5/00	TURBIDITY	1.7		NTU
S14MW1S01	14MW1S	8/5/00	DISSOLVED OXYGEN	0.92		
S14MW1S01	14MW1S	8/5/00	REDOX POTENTIAL	124		MV
S14MW1S01	14MW1S	8/5/00	SALINTY	0		%
S202WCMW1S01	2WCMW1S	7/25/00	PH	6.22		
S202WCMW1S01	2WCMW1S	7/25/00	SPECIFIC CONDUCTIVITY	3.01		MS/CM
S202WCMW1S01	2WCMW1S	7/25/00	TEMPERATURE	20.1		C
S202WCMW1S01	2WCMW1S	7/25/00	TURBIDITY	7		NTU
S202WCMW1S01	2WCMW1S	7/25/00	DISSOLVED OXYGEN	1.48		
S202WCMW1S01	2WCMW1S	7/25/00	REDOX POTENTIAL	-118		MV
S202WCMW1S01	2WCMW1S	7/25/00	SALINTY	0.2		%
S202WCMW2S01	2WCMW2S	7/25/00	PH	6.3		
S202WCMW2S01	2WCMW2S	7/25/00	SPECIFIC CONDUCTIVITY	0.444		MS/CM
S202WCMW2S01	2WCMW2S	7/25/00	TEMPERATURE	18.6		C
S202WCMW2S01	2WCMW2S	7/25/00	TURBIDITY	2.9		NTU
S202WCMW2S01	2WCMW2S	7/25/00	DISSOLVED OXYGEN	0.61		
S202WCMW2S01	2WCMW2S	7/25/00	REDOX POTENTIAL	-100		MV
S202WCMW2S01	2WCMW2S	7/25/00	SALINTY	0		%
S202WCMW3S01	2WCMW3S	7/26/00	PH	6.32		
S202WCMW3S01	2WCMW3S	7/26/00	SPECIFIC CONDUCTIVITY	7.59		MS/CM
S202WCMW3S01	2WCMW3S	7/26/00	TEMPERATURE	18.1		C
S202WCMW3S01	2WCMW3S	7/26/00	TURBIDITY	25		NTU
S202WCMW3S01	2WCMW3S	7/26/00	DISSOLVED OXYGEN	0.85		
S202WCMW3S01	2WCMW3S	7/26/00	REDOX POTENTIAL	-396		MV
S202WCMW3S01	2WCMW3S	7/26/00	SALINTY	0.4		%
S202WMW4D01	2WMW4D	7/24/00	PH	7.65		
S202WMW4D01	2WMW4D	7/24/00	SPECIFIC CONDUCTIVITY	0.271		MS/CM
S202WMW4D01	2WMW4D	7/24/00	TEMPERATURE	14.5		C
S202WMW4D01	2WMW4D	7/24/00	TURBIDITY	1.5		NTU
S202WMW4D01	2WMW4D	7/24/00	DISSOLVED OXYGEN	0.96		

SAMPLE	LOCATION	SAMPLE DATE	PARAMETER	RESULT	QUAL	UNITS
S202WMW4D01	2WMW4D	7/24/00	REDOX POTENTIAL	-41		MV
S202WMW4D01	2WMW4D	7/24/00	SALINTY	0		%
S8MW0101	8MW1	8/8/00	PH	7.56		
S8MW0101	8MW1	8/8/00	SPECIFIC CONDUCTIVITY	22		MS/CM
S8MW0101	8MW1	8/8/00	TEMPERATURE	22.3		C
S8MW0101	8MW1	8/8/00	TURBIDITY	1.1		NTU
S8MW0101	8MW1	8/8/00	DISSOLVED OXYGEN	0.24		
S8MW0101	8MW1	8/8/00	REDOX POTENTIAL	-238		MV
S8MW0101	8MW1	8/8/00	SALINTY	1.3		%
S8MW02S01	8MW2S	8/7/00	PH	7.47		
S8MW02S01	8MW2S	8/7/00	SPECIFIC CONDUCTIVITY	1.96		MS/CM
S8MW02S01	8MW2S	8/7/00	TEMPERATURE	24.6		C
S8MW02S01	8MW2S	8/7/00	TURBIDITY	2		NTU
S8MW02S01	8MW2S	8/7/00	DISSOLVED OXYGEN	0.25		
S8MW02S01	8MW2S	8/7/00	REDOX POTENTIAL	-248		MV
S8MW02S01	8MW2S	8/7/00	SALINTY	0.1		%
S8MW02D01	8MW2D	8/7/00	PH	8.2		
S8MW02D01	8MW2D	8/7/00	SPECIFIC CONDUCTIVITY	19.2		MS/CM
S8MW02D01	8MW2D	8/7/00	TEMPERATURE	20.07		C
S8MW02D01	8MW2D	8/7/00	TURBIDITY	28		NTU
S8MW02D01	8MW2D	8/7/00	DISSOLVED OXYGEN	0.21		
S8MW02D01	8MW2D	8/7/00	REDOX POTENTIAL	-430		MV
S8MW02D01	8MW2D	8/7/00	SALINTY	1.2		%
S8MW0301	8MW3	8/8/00	PH	8.72		
S8MW0301	8MW3	8/8/00	SPECIFIC CONDUCTIVITY	2.73		MS/CM
S8MW0301	8MW3	8/8/00	TEMPERATURE	25.1		C
S8MW0301	8MW3	8/8/00	TURBIDITY	1.6		NTU
S8MW0301	8MW3	8/8/00	DISSOLVED OXYGEN	0.24		
S8MW0301	8MW3	8/8/00	REDOX POTENTIAL	-301		MV
S8MW0301	8MW3	8/8/00	SALINTY	0.1		%
S8MW0401	8MW4	8/8/00	PH	7.64		
S8MW0401	8MW4	8/8/00	SPECIFIC CONDUCTIVITY	1.7		MS/CM
S8MW0401	8MW4	8/8/00	TEMPERATURE	22.84		C
S8MW0401	8MW4	8/8/00	TURBIDITY	4.4		NTU
S8MW0401	8MW4	8/8/00	DISSOLVED OXYGEN	0.26		
S8MW0401	8MW4	8/8/00	REDOX POTENTIAL	-283		MV
S8MW0401	8MW4	8/8/00	SALINTY	0.1		%
S8MW5S01	8MW5S	8/7/00	PH	7.62		
S8MW5S01	8MW5S	8/7/00	SPECIFIC CONDUCTIVITY	22.5		MS/CM
S8MW5S01	8MW5S	8/7/00	TEMPERATURE	26.69		C
S8MW5S01	8MW5S	8/7/00	TURBIDITY	8.6		NTU
S8MW5S01	8MW5S	8/7/00	DISSOLVED OXYGEN	0.27		
S8MW5S01	8MW5S	8/7/00	REDOX POTENTIAL	-392		MV
S8MW5S01	8MW5S	8/7/00	SALINTY	1.4		%
S8MW06S01	8MW6S	8/8/00	PH	7.75		
S8MW06S01	8MW6S	8/8/00	SPECIFIC CONDUCTIVITY	2.88		MS/CM
S8MW06S01	8MW6S	8/8/00	TEMPERATURE	21.3		C
S8MW06S01	8MW6S	8/8/00	TURBIDITY	0.8		NTU
S8MW06S01	8MW6S	8/8/00	DISSOLVED OXYGEN	0.31		
S8MW06S01	8MW6S	8/8/00	REDOX POTENTIAL	-280		MV
S8MW06S01	8MW6S	8/8/00	SALINTY	0.1		%
S8MW06D01	8MW6D	8/8/00	PH	7.08		

SAMPLE	LOCATION	SAMPLE DATE	PARAMETER	RESULT	QUAL	UNITS
S8MW06D01	8MW6D	8/8/00	SPECIFIC CONDUCTIVITY	41.4		MS/CM
S8MW06D01	8MW6D	8/8/00	TEMPERATURE	22.4		C
S8MW06D01	8MW6D	8/8/00	TURBIDITY	17		NTU
S8MW06D01	8MW6D	8/8/00	DISSOLVED OXYGEN	0.37		
S8MW06D01	8MW6D	8/8/00	REDOX POTENTIAL	-152		MV
S8MW06D01	8MW6D	8/8/00	SALINTY	2.6		%
S8MW9S0101	8MW9S	8/19/00	PH	6.04		
S8MW9S0101	8MW9S	8/19/00	SPECIFIC CONDUCTIVITY	0.124		MS/CM
S8MW9S0101	8MW9S	8/19/00	TEMPERATURE	18.37		C
S8MW9S0101	8MW9S	8/19/00	TURBIDITY	0.05		NTU
S8MW9S0101	8MW9S	8/19/00	DISSOLVED OXYGEN	3.51		
S8MW9S0101	8MW9S	8/19/00	REDOX POTENTIAL	29		MV
S8MW9S0101	8MW9S	8/19/00	SALINTY	0		%
S15MW1S01	15MW1S	6/21/00	PH	5.75		
S15MW1S01	15MW1S	6/21/00	SPECIFIC CONDUCTIVITY	0.387		MS/CM
S15MW1S01	15MW1S	6/21/00	TEMPERATURE	24.76		C
S15MW1S01	15MW1S	6/21/00	TURBIDITY	3		NTU
S15MW1S01	15MW1S	6/21/00	DISSOLVED OXYGEN	6.11		
S15MW1S01	15MW1S	6/21/00	REDOX POTENTIAL	147		MV
S15MW1S01	15MW1S	6/21/00	SALINTY	0		%
S15MW1D01	15MW1D	7/21/00	PH	6.9		
S15MW1D01	15MW1D	7/21/00	SPECIFIC CONDUCTIVITY	0.445		MS/CM
S15MW1D01	15MW1D	7/21/00	TEMPERATURE	19.1		C
S15MW1D01	15MW1D	7/21/00	TURBIDITY	24		NTU
S15MW1D01	15MW1D	7/21/00	DISSOLVED OXYGEN	0.93		
S15MW1D01	15MW1D	7/21/00	REDOX POTENTIAL	8		MV
S15MW1D01	15MW1D	7/21/00	SALINTY	0		%
S15MW2S01	15MW2S	7/21/00	PH	4.44		
S15MW2S01	15MW2S	7/21/00	SPECIFIC CONDUCTIVITY	0.272		MS/CM
S15MW2S01	15MW2S	7/21/00	TEMPERATURE	19.1		C
S15MW2S01	15MW2S	7/21/00	TURBIDITY	3.6		NTU
S15MW2S01	15MW2S	7/21/00	DISSOLVED OXYGEN	9.44		
S15MW2S01	15MW2S	7/21/00	REDOX POTENTIAL	331		MV
S15MW2S01	15MW2S	7/21/00	SALINTY	0		%
S15MW3S01	S15MW3S	7/23/00	PH	5.91		
S15MW3S01	S15MW3S	7/23/00	SPECIFIC CONDUCTIVITY	0.408		MS/CM
S15MW3S01	S15MW3S	7/23/00	TEMPERATURE	21		C
S15MW3S01	S15MW3S	7/23/00	TURBIDITY	7		NTU
S15MW3S01	S15MW3S	7/23/00	DISSOLVED OXYGEN	1.09		
S15MW3S01	S15MW3S	7/23/00	REDOX POTENTIAL	-25		MV
S15MW3S01	S15MW3S	7/23/00	SALINTY	0		%
S18TW0201	18TW2	6/14/00	PH	6.23		
S18TW0201	18TW2	6/14/00	SPECIFIC CONDUCTIVITY	0.232		MS/CM
S18TW0201	18TW2	6/14/00	TEMPERATURE	16.2		C
S18TW0201	18TW2	6/14/00	TURBIDITY	0.3		NTU
S18TW0201	18TW2	6/14/00	DISSOLVED OXYGEN	9.04		
S18TW0201	18TW2	6/14/00	REDOX POTENTIAL	41		MV
S18TW0201	18TW2	6/14/00	SALINTY	0		%
S18TW0401	18TW4	6/14/00	PH	5.75		
S18TW0401	18TW4	6/14/00	SPECIFIC CONDUCTIVITY	0.191		MS/CM
S18TW0401	18TW4	6/14/00	TEMPERATURE	15.04		C
S18TW0401	18TW4	6/14/00	TURBIDITY	4.75		NTU

SAMPLE	LOCATION	SAMPLE DATE	PARAMETER	RESULT	QUAL	UNITS
S18TW0401	18TW4	6/14/00	DISSOLVED OXYGEN	7.62		
S18TW0401	18TW4	6/14/00	REDOX POTENTIAL	104		MV
S18TW0401	18TW4	6/14/00	SALINTY	0		%
2LGW20S04	2LMW20S	7/6/00	PH	6.16		
2LGW20S04	2LMW20S	7/6/00	SPECIFIC CONDUCTIVITY	0.503		MS/CM
2LGW20S04	2LMW20S	7/6/00	TEMPERATURE	16		C
2LGW20S04	2LMW20S	7/6/00	TURBIDITY	2.2		NTU
2LGW20S04	2LMW20S	7/6/00	DISSOLVED OXYGEN	0.99		
2LGW20S04	2LMW20S	7/6/00	REDOX POTENTIAL	-18		MV
2LGW20S04	2LMW20S	7/6/00	SALINTY	0		%
2LMW20S	2LMW20S	8/17/00	PH	6.11		
2LMW20S	2LMW20S	8/17/00	SPECIFIC CONDUCTIVITY	0.48		MS/CM
2LMW20S	2LMW20S	8/17/00	TEMPERATURE	16.35		C
2LMW20S	2LMW20S	8/17/00	TURBIDITY	0.83		NTU
2LMW20S	2LMW20S	8/17/00	DISSOLVED OXYGEN	0.43		
2LMW20S	2LMW20S	8/17/00	REDOX POTENTIAL	-40		MV
2LMW20S	2LMW20S	8/17/00	SALINTY	0		%
2WGW21S04	2WMW21S	7/5/00	PH	6.91		
2WGW21S04	2WMW21S	7/5/00	SPECIFIC CONDUCTIVITY	32.3		MS/CM
2WGW21S04	2WMW21S	7/5/00	TEMPERATURE	15.4		C
2WGW21S04	2WMW21S	7/5/00	TURBIDITY	40		NTU
2WGW21S04	2WMW21S	7/5/00	DISSOLVED OXYGEN	0.26		
2WGW21S04	2WMW21S	7/5/00	REDOX POTENTIAL	-404		MV
2WGW21S04	2WMW21S	7/5/00	SALINTY	2		%
2WGW21S02	2WMW21S	8/16/00	PH	6.91		
2WGW21S02	2WMW21S	8/16/00	SPECIFIC CONDUCTIVITY	25.4		MS/CM
2WGW21S02	2WMW21S	8/16/00	TEMPERATURE	15.54		C
2WGW21S02	2WMW21S	8/16/00	TURBIDITY	75		NTU
2WGW21S02	2WMW21S	8/16/00	DISSOLVED OXYGEN	0.17		
2WGW21S02	2WMW21S	8/16/00	REDOX POTENTIAL	-430		MV
2WGW21S02	2WMW21S	8/16/00	SALINTY	1.5		%
S22WMW21D01	2WMW21D	7/5/00	PH	7.08		
S22WMW21D01	2WMW21D	7/5/00	SPECIFIC CONDUCTIVITY	0.771		MS/CM
S22WMW21D01	2WMW21D	7/5/00	TEMPERATURE	14.8		C
S22WMW21D01	2WMW21D	7/5/00	TURBIDITY	14		NTU
S22WMW21D01	2WMW21D	7/5/00	DISSOLVED OXYGEN	0.38		
S22WMW21D01	2WMW21D	7/5/00	REDOX POTENTIAL	-182		MV
S22WMW21D01	2WMW21D	7/5/00	SALINTY	0		%
S2WMW21D02	2WMW21D	8/16/00	PH	6.98		
S2WMW21D02	2WMW21D	8/16/00	SPECIFIC CONDUCTIVITY	0.738		MS/CM
S2WMW21D02	2WMW21D	8/16/00	TEMPERATURE	16		C
S2WMW21D02	2WMW21D	8/16/00	TURBIDITY	3.64		NTU
S2WMW21D02	2WMW21D	8/16/00	DISSOLVED OXYGEN	0.25		
S2WMW21D02	2WMW21D	8/16/00	REDOX POTENTIAL	-177		MV
S2WMW21D02	2WMW21D	8/16/00	SALINTY	0		%
S2WMW22S01	2WMW22S	6/27/00	PH	5.51		
S2WMW22S01	2WMW22S	6/27/00	SPECIFIC CONDUCTIVITY	0.617		MS/CM
S2WMW22S01	2WMW22S	6/27/00	TEMPERATURE	16.38		C
S2WMW22S01	2WMW22S	6/27/00	TURBIDITY	210		NTU
S2WMW22S01	2WMW22S	6/27/00	DISSOLVED OXYGEN	2.31		
S2WMW22S01	2WMW22S	6/27/00	REDOX POTENTIAL	97		MV
S2WMW22S01	2WMW22S	6/27/00	SALINTY	0		%

SAMPLE	LOCATION	SAMPLE DATE	PARAMETER	RESULT	QUAL	UNITS
S2WMW22S02	2WMW22S	8/19/00	PH	5.64		
S2WMW22S02	2WMW22S	8/19/00	SPECIFIC CONDUCTIVITY	0.775		MS/CM
S2WMW22S02	2WMW22S	8/19/00	TEMPERATURE	14		C
S2WMW22S02	2WMW22S	8/19/00	TURBIDITY	14		NTU
S2WMW22S02	2WMW22S	8/19/00	DISSOLVED OXYGEN	1.59		
S2WMW22S02	2WMW22S	8/19/00	REDOX POTENTIAL	82		MV
S2WMW22S02	2WMW22S	8/19/00	SALINTY	0		%
S2WMW22D01	2WMW22D	6/27/00	PH	7.74		
S2WMW22D01	2WMW22D	6/27/00	SPECIFIC CONDUCTIVITY	0.322		MS/CM
S2WMW22D01	2WMW22D	6/27/00	TEMPERATURE	13.3		C
S2WMW22D01	2WMW22D	6/27/00	TURBIDITY	29		NTU
S2WMW22D01	2WMW22D	6/27/00	DISSOLVED OXYGEN	0.24		
S2WMW22D01	2WMW22D	6/27/00	REDOX POTENTIAL	-170		MV
S2WMW22D01	2WMW22D	6/27/00	SALINTY	0		%
S2WMW22D02	2WMW22D	8/19/00	PH	7.48		
S2WMW22D02	2WMW22D	8/19/00	SPECIFIC CONDUCTIVITY	0.3		MS/CM
S2WMW22D02	2WMW22D	8/19/00	TEMPERATURE	13.1		C
S2WMW22D02	2WMW22D	8/19/00	TURBIDITY	14.8		NTU
S2WMW22D02	2WMW22D	8/19/00	DISSOLVED OXYGEN	0.48		
S2WMW22D02	2WMW22D	8/19/00	REDOX POTENTIAL	-188		MV
S2WMW22D02	2WMW22D	8/19/00	SALINTY	0		%
4GW01S04	4MW1S	7/6/00	PH	5.53		
4GW01S04	4MW1S	7/6/00	SPECIFIC CONDUCTIVITY	0.35		MS/CM
4GW01S04	4MW1S	7/6/00	TEMPERATURE	14		C
4GW01S04	4MW1S	7/6/00	TURBIDITY	0		NTU
4GW01S04	4MW1S	7/6/00	DISSOLVED OXYGEN	6.17		
4GW01S04	4MW1S	7/6/00	REDOX POTENTIAL	214		MV
4GW01S04	4MW1S	7/6/00	SALINTY	0		%
S4MW01S02	4MW1S	8/18/00	PH	5.58		
S4MW01S02	4MW1S	8/18/00	SPECIFIC CONDUCTIVITY	0.33		MS/CM
S4MW01S02	4MW1S	8/18/00	TEMPERATURE	14.9		C
S4MW01S02	4MW1S	8/18/00	TURBIDITY	0		NTU
S4MW01S02	4MW1S	8/18/00	DISSOLVED OXYGEN	5.75		
S4MW01S02	4MW1S	8/18/00	REDOX POTENTIAL	231		MV
S4MW01S02	4MW1S	8/18/00	SALINTY	0		%
S2LMW35B01	2LMW35B	6/25/00	PH	6.52		
S2LMW35B01	2LMW35B	6/25/00	SPECIFIC CONDUCTIVITY	0.83		MS/CM
S2LMW35B01	2LMW35B	6/25/00	TEMPERATURE	17.8		C
S2LMW35B01	2LMW35B	6/25/00	TURBIDITY	4		NTU
S2LMW35B01	2LMW35B	6/25/00	DISSOLVED OXYGEN	3.29		
S2LMW35B01	2LMW35B	6/25/00	REDOX POTENTIAL	111		MV
S2LMW35B01	2LMW35B	6/25/00	SALINTY	0		%
S22LMW35B02	2LMW35B	8/17/00	PH	6.12		
S22LMW35B02	2LMW35B	8/17/00	SPECIFIC CONDUCTIVITY	0.671		MS/CM
S22LMW35B02	2LMW35B	8/17/00	TEMPERATURE	17.5		C
S22LMW35B02	2LMW35B	8/17/00	TURBIDITY	3.2		NTU
S22LMW35B02	2LMW35B	8/17/00	DISSOLVED OXYGEN	6.07		
S22LMW35B02	2LMW35B	8/17/00	REDOX POTENTIAL	115		MV
S22LMW35B02	2LMW35B	8/17/00	SALINTY	0		%
S23MW01S01	23MW01S	6/26/00	PH	6		
S23MW01S01	23MW01S	6/26/00	SPECIFIC CONDUCTIVITY	0.26		MS/CM
S23MW01S01	23MW01S	6/26/00	TEMPERATURE	23.52		C

SAMPLE	LOCATION	SAMPLE DATE	PARAMETER	RESULT	QUAL	UNITS
S23MW01S01	23MW01S	6/26/00	TURBIDITY	5.6		NTU
S23MW01S01	23MW01S	6/26/00	DISSOLVED OXYGEN	3.48		
S23MW01S01	23MW01S	6/26/00	REDOX POTENTIAL	134		MV
S23MW01S01	23MW01S	6/26/00	SALINTY	0		%
S23MW01S02	23MW01S	8/17/00	PH	5.88		
S23MW01S02	23MW01S	8/17/00	SPECIFIC CONDUCTIVITY	0.227		MS/CM
S23MW01S02	23MW01S	8/17/00	TEMPERATURE	22.4		C
S23MW01S02	23MW01S	8/17/00	TURBIDITY	2.4		NTU
S23MW01S02	23MW01S	8/17/00	DISSOLVED OXYGEN	2.56		
S23MW01S02	23MW01S	8/17/00	REDOX POTENTIAL	132		MV
S23MW01S02	23MW01S	8/17/00	SALINTY	0		%
S23MW01D01	23MW01D	6/26/00	PH	6.27		
S23MW01D01	23MW01D	6/26/00	SPECIFIC CONDUCTIVITY	0.253		MS/CM
S23MW01D01	23MW01D	6/26/00	TEMPERATURE	18.22		C
S23MW01D01	23MW01D	6/26/00	TURBIDITY	2.3		NTU
S23MW01D01	23MW01D	6/26/00	DISSOLVED OXYGEN	5.09		
S23MW01D01	23MW01D	6/26/00	REDOX POTENTIAL	117		MV
S23MW01D01	23MW01D	6/26/00	SALINTY	0		%
S23MW01D02	23MW01D	8/17/00	PH	5.98		
S23MW01D02	23MW01D	8/17/00	SPECIFIC CONDUCTIVITY	0.219		MS/CM
S23MW01D02	23MW01D	8/17/00	TEMPERATURE	16.39		C
S23MW01D02	23MW01D	8/17/00	TURBIDITY	0.83		NTU
S23MW01D02	23MW01D	8/17/00	DISSOLVED OXYGEN	4.06		
S23MW01D02	23MW01D	8/17/00	REDOX POTENTIAL	145		MV
S23MW01D02	23MW01D	8/17/00	SALINTY	0		%
S23HNUS2301	HNUS-23	6/26/00	PH	6.3		
S23HNUS2301	HNUS-23	6/26/00	SPECIFIC CONDUCTIVITY	0.435		MS/CM
S23HNUS2301	HNUS-23	6/26/00	TEMPERATURE	22.43		C
S23HNUS2301	HNUS-23	6/26/00	TURBIDITY	34		NTU
S23HNUS2301	HNUS-23	6/26/00	DISSOLVED OXYGEN	0.5		
S23HNUS2301	HNUS-23	6/26/00	REDOX POTENTIAL	88		MV
S23HNUS2301	HNUS-23	6/26/00	SALINTY	0		%
S23HNUS2302	HNUS-23	8/18/00	PH	6		
S23HNUS2302	HNUS-23	8/18/00	SPECIFIC CONDUCTIVITY	0.348		MS/CM
S23HNUS2302	HNUS-23	8/18/00	TEMPERATURE	17.05		C
S23HNUS2302	HNUS-23	8/18/00	TURBIDITY	14		NTU
S23HNUS2302	HNUS-23	8/18/00	DISSOLVED OXYGEN	0.28		
S23HNUS2302	HNUS-23	8/18/00	REDOX POTENTIAL	75		MV
S23HNUS2302	HNUS-23	8/18/00	SALINTY	0		%
S8MW8D01	8MW8D	7/6/00	PH	6.6		
S8MW8D01	8MW8D	7/6/00	SPECIFIC CONDUCTIVITY	1.07		MS/CM
S8MW8D01	8MW8D	7/6/00	TEMPERATURE	18.47		C
S8MW8D01	8MW8D	7/6/00	TURBIDITY	8		NTU
S8MW8D01	8MW8D	7/6/00	DISSOLVED OXYGEN	4.2		
S8MW8D01	8MW8D	7/6/00	REDOX POTENTIAL	50		MV
S8MW8D01	8MW8D	7/6/00	SALINTY	0		%
S8MW8D02	8MW8D	8/22/00	PH	6.63		
S8MW8D02	8MW8D	8/22/00	SPECIFIC CONDUCTIVITY	0.789		MS/CM
S8MW8D02	8MW8D	8/22/00	TEMPERATURE	15.5		C
S8MW8D02	8MW8D	8/22/00	TURBIDITY	27		NTU
S8MW8D02	8MW8D	8/22/00	DISSOLVED OXYGEN	5.19		
S8MW8D02	8MW8D	8/22/00	REDOX POTENTIAL	14		MV

SAMPLE	LOCATION	SAMPLE DATE	PARAMETER	RESULT	QUAL	UNITS
S8MW8D02	8MW8D	8/22/00	SALINTY	0		%
S8MW10S01	8MW10S	7/6/00	PH	5.37		
S8MW10S01	8MW10S	7/6/00	SPECIFIC CONDUCTIVITY	0.131		MS/CM
S8MW10S01	8MW10S	7/6/00	TEMPERATURE	19.4		C
S8MW10S01	8MW10S	7/6/00	TURBIDITY	2		NTU
S8MW10S01	8MW10S	7/6/00	DISSOLVED OXYGEN	5.92		
S8MW10S01	8MW10S	7/6/00	REDOX POTENTIAL	209		MV
S8MW10S01	8MW10S	7/6/00	SALINTY	0		%
S8MW10S02	8MW10S	8/8/00	PH	5.63		
S8MW10S02	8MW10S	8/8/00	SPECIFIC CONDUCTIVITY	0.219		MS/CM
S8MW10S02	8MW10S	8/8/00	TEMPERATURE	21.97		C
S8MW10S02	8MW10S	8/8/00	TURBIDITY	2.2		NTU
S8MW10S02	8MW10S	8/8/00	DISSOLVED OXYGEN	6.22		
S8MW10S02	8MW10S	8/8/00	REDOX POTENTIAL	140		MV
S8MW10S02	8MW10S	8/8/00	SALINTY	0		%
3GW12D01	3MW12D	7/20/00	PH	6.57		
3GW12D01	3MW12D	7/20/00	SPECIFIC CONDUCTIVITY	3.38		MS/CM
3GW12D01	3MW12D	7/20/00	TEMPERATURE	14.2		C
3GW12D01	3MW12D	7/20/00	TURBIDITY	0		NTU
3GW12D01	3MW12D	7/20/00	DISSOLVED OXYGEN	0.68		
3GW12D01	3MW12D	7/20/00	REDOX POTENTIAL	-160		MV
3GW12D01	3MW12D	7/20/00	SALINTY	0.2		%
2WGW45DS-04	2WMW45DS	7/20/00	PH	7.03		
2WGW45DS-04	2WMW45DS	7/20/00	SPECIFIC CONDUCTIVITY	37.5		MS/CM
2WGW45DS-04	2WMW45DS	7/20/00	TEMPERATURE	11.3		C
2WGW45DS-04	2WMW45DS	7/20/00	TURBIDITY	25.7		NTU
2WGW45DS-04	2WMW45DS	7/20/00	DISSOLVED OXYGEN	0.26		
2WGW45DS-04	2WMW45DS	7/20/00	REDOX POTENTIAL	-382		MV
2WGW45DS-04	2WMW45DS	7/20/00	SALINTY	2.3		%

SAMPLE	LOCATION	SAMPLE DATE	PARAMETER	RESULT	QUAL	UNITS
S7MW03D01	7MW3D	6/24/00	PH	6.29		
S7MW03D01	7MW3D	6/24/00	REDOX POTENTIAL	112		MV
S7MW03D01	7MW3D	6/24/00	SPECIFIC CONDUCTIVITY	0.68		MS/CM
S7MW03D01	7MW3D	6/24/00	TEMPERATURE	18.2		C
S7MW03D01	7MW3D	6/24/00	TURBIDITY	14		NTU
S7MW03D01	7MW3D	6/24/00	SALINTY	0		%
S7MW03D01	7MW3D	6/24/00	DISSOLVED OXYGEN	0.3		PPM
S7MW03D01	7MW3D	6/24/00	DIVALENT IRON	0		MG/L
S7MW03D01	7MW3D	6/24/00	CARBON DIOXIDE	40		PPM
S7MW03D01	7MW3D	6/24/00	HYDROGEN SULFIDE	0.1		MG/L
S7MW03D01	7MW3D	6/24/00	SULFATE	92		MG/L
S7MW03D01	7MW3D	6/24/00	MANGANESE	0.3		MG/L
S7MW03D01	7MW3D	6/24/00	NITRITE	0		MG/L
S7MW03D01	7MW3D	6/24/00	NITRATE	0.2		MG/L
S7TW0901	7TW9	6/24/00	PH	6.09		
S7TW0901	7TW9	6/24/00	REDOX POTENTIAL	13		MV
S7TW0901	7TW9	6/24/00	SPECIFIC CONDUCTIVITY	0.516		MS/CM
S7TW0901	7TW9	6/24/00	TEMPERATURE	19.8		C
S7TW0901	7TW9	6/24/00	TURBIDITY	47		NTU
S7TW0901	7TW9	6/24/00	SALINTY	0		%
S7TW0901	7TW9	6/24/00	DISSOLVED OXYGEN	2		PPM
S7TW0901	7TW9	6/24/00	DIVALENT IRON	1.4		MG/L
S7TW0901	7TW9	6/24/00	CARBON DIOXIDE	35		PPM
S7TW0901	7TW9	6/24/00	HYDROGEN SULFIDE	0		MG/L
S7TW0901	7TW9	6/24/00	SULFATE	36		MG/L
S7TW0901	7TW9	6/24/00	MANGANESE	0.3		MG/L
S7TW0901	7TW9	6/24/00	NITRITE	0.004		MG/L
S7TW0901	7TW9	6/24/00	NITRATE	0.02		MG/L
S7TW0801	7TW8	6/24/00	PH	6.13		
S7TW0801	7TW8	6/24/00	REDOX POTENTIAL	-151		MV
S7TW0801	7TW8	6/24/00	SPECIFIC CONDUCTIVITY	0.557		MS/CM
S7TW0801	7TW8	6/24/00	TEMPERATURE	17.7		C
S7TW0801	7TW8	6/24/00	TURBIDITY	14		NTU
S7TW0801	7TW8	6/24/00	SALINTY	0		%
S7TW0801	7TW8	6/24/00	DISSOLVED OXYGEN	0.25		PPM
S7TW0801	7TW8	6/24/00	DIVALENT IRON	3		MG/L
S7TW0801	7TW8	6/24/00	CARBON DIOXIDE	40		PPM
S7TW0801	7TW8	6/24/00	HYDROGEN SULFIDE	0		MG/L
S7TW0801	7TW8	6/24/00	SULFATE	29		MG/L
S7TW0801	7TW8	6/24/00	MANGANESE	0.8		MG/L
S7TW0801	7TW8	6/24/00	NITRITE	0		MG/L
S7TW0801	7TW8	6/24/00	NITRATE	0.01		MG/L
S7TW1001	7TW10	6/25/00	PH	6.46		
S7TW1001	7TW10	6/25/00	REDOX POTENTIAL	9		MV
S7TW1001	7TW10	6/25/00	SPECIFIC CONDUCTIVITY	0.331		MS/CM
S7TW1001	7TW10	6/25/00	TEMPERATURE	19.8		C
S7TW1001	7TW10	6/25/00	TURBIDITY	4.5		NTU
S7TW1001	7TW10	6/25/00	SALINTY	0		%
S7TW1001	7TW10	6/25/00	DISSOLVED OXYGEN	6		PPM
S7TW1001	7TW10	6/25/00	DIVALENT IRON	0.6		MG/L
S7TW1001	7TW10	6/25/00	CARBON DIOXIDE	18		PPM
S7TW1001	7TW10	6/25/00	HYDROGEN SULFIDE	0.2		MG/L
S7TW1001	7TW10	6/25/00	SULFATE	11		MG/L
S7TW1001	7TW10	6/25/00	MANGANESE	0.5		MG/L
S7TW1001	7TW10	6/25/00	NITRITE	0		MG/L
S7TW1001	7TW10	6/25/00	NITRATE	0.03		MG/L
FD070700-01	7MW10S	7/7/00	PH	NA		
FD070700-01	7MW10S	7/7/00	REDOX POTENTIAL	NA		MV
FD070700-01	7MW10S	7/7/00	SPECIFIC CONDUCTIVITY	NA		MS/CM
FD070700-01	7MW10S	7/7/00	TEMPERATURE	NA		C
FD070700-01	7MW10S	7/7/00	TURBIDITY	NA		NTU
FD070700-01	7MW10S	7/7/00	SALINTY	NA		%
FD070700-01	7MW10S	7/7/00	DISSOLVED OXYGEN	2		PPM
FD070700-01	7MW10S	7/7/00	DIVALENT IRON	0		MG/L
FD070700-01	7MW10S	7/7/00	CARBON DIOXIDE	25		PPM
FD070700-01	7MW10S	7/7/00	HYDROGEN SULFIDE	0		MG/L
FD070700-01	7MW10S	7/7/00	SULFATE	37		MG/L
FD070700-01	7MW10S	7/7/00	MANGANESE	0.1		MG/L
FD070700-01	7MW10S	7/7/00	NITRITE	0.008		MG/L
FD070700-01	7MW10S	7/7/00	NITRATE	0.21		MG/L

Note: Field Dups were not taken for field Water Qualty Parameters

SAMPLE	LOCATION	SAMPLE DATE	PARAMETER	RESULT	QUAL	UNITS
S7MW01D01	7MW1D	7/7/00	PH	6.26		
S7MW01D01	7MW1D	7/7/00	REDOX POTENTIAL	119		MV
S7MW01D01	7MW1D	7/7/00	SPECIFIC CONDUCTIVITY	0.145		MS/CM
S7MW01D01	7MW1D	7/7/00	TEMPERATURE	14		C
S7MW01D01	7MW1D	7/7/00	TURBIDITY	5		NTU
S7MW01D01	7MW1D	7/7/00	SALINTY	0		%
S7MW01D01	7MW1D	7/7/00	DISSOLVED OXYGEN	3		PPM
S7MW01D01	7MW1D	7/7/00	DIVALENT IRON	0		MG/L
S7MW01D01	7MW1D	7/7/00	CARBON DIOXIDE	17		PPM
S7MW01D01	7MW1D	7/7/00	HYDROGEN SULFIDE	0		MG/L
S7MW01D01	7MW1D	7/7/00	SULFATE	9		MG/L
S7MW01D01	7MW1D	7/7/00	MANGANESE	0		MG/L
S7MW01D01	7MW1D	7/7/00	NITRITE	0		MG/L
S7MW01D01	7MW1D	7/7/00	NITRATE	0.08		MG/L
S7MW10S01	7MW10S	7/7/00	PH	6.1		
S7MW10S01	7MW10S	7/7/00	REDOX POTENTIAL	162		MV
S7MW10S01	7MW10S	7/7/00	SPECIFIC CONDUCTIVITY	0.459		MS/CM
S7MW10S01	7MW10S	7/7/00	TEMPERATURE	17		C
S7MW10S01	7MW10S	7/7/00	TURBIDITY	0		NTU
S7MW10S01	7MW10S	7/7/00	SALINTY	0		%
S7MW10S01	7MW10S	7/7/00	DISSOLVED OXYGEN	2		PPM
S7MW10S01	7MW10S	7/7/00	DIVALENT IRON	0		MG/L
S7MW10S01	7MW10S	7/7/00	CARBON DIOXIDE	28		PPM
S7MW10S01	7MW10S	7/7/00	HYDROGEN SULFIDE	0		MG/L
S7MW10S01	7MW10S	7/7/00	SULFATE	37		MG/L
S7MW10S01	7MW10S	7/7/00	MANGANESE	0.2		MG/L
S7MW10S01	7MW10S	7/7/00	NITRITE	0.001		MG/L
S7MW10S01	7MW10S	7/7/00	NITRATE	0.43		MG/L
S7MW08S01	7MW8S	7/8/00	PH	6.42		
S7MW08S01	7MW8S	7/8/00	REDOX POTENTIAL	-36		MV
S7MW08S01	7MW8S	7/8/00	SPECIFIC CONDUCTIVITY	0.189		MS/CM
S7MW08S01	7MW8S	7/8/00	TEMPERATURE	22		C
S7MW08S01	7MW8S	7/8/00	TURBIDITY	3.7		NTU
S7MW08S01	7MW8S	7/8/00	SALINTY	0		%
S7MW08S01	7MW8S	7/8/00	DISSOLVED OXYGEN	0.2		PPM
S7MW08S01	7MW8S	7/8/00	DIVALENT IRON	2		MG/L
S7MW08S01	7MW8S	7/8/00	CARBON DIOXIDE	27		PPM
S7MW08S01	7MW8S	7/8/00	HYDROGEN SULFIDE	0		MG/L
S7MW08S01	7MW8S	7/8/00	SULFATE	0		MG/L
S7MW08S01	7MW8S	7/8/00	MANGANESE	0		MG/L
S7MW08S01	7MW8S	7/8/00	NITRITE	0.001		MG/L
S7MW08S01	7MW8S	7/8/00	NITRATE	0.01		MG/L
S7MW2D01	7MW2D	7/8/00	PH	6		
S7MW2D01	7MW2D	7/8/00	REDOX POTENTIAL	132		MV
S7MW2D01	7MW2D	7/8/00	SPECIFIC CONDUCTIVITY	0.113		MS/CM
S7MW2D01	7MW2D	7/8/00	TEMPERATURE	18.2		C
S7MW2D01	7MW2D	7/8/00	TURBIDITY	0.2		NTU
S7MW2D01	7MW2D	7/8/00	SALINTY	0		%
S7MW2D01	7MW2D	7/8/00	DISSOLVED OXYGEN	1.5		PPM
S7MW2D01	7MW2D	7/8/00	DIVALENT IRON	0		MG/L
S7MW2D01	7MW2D	7/8/00	CARBON DIOXIDE	18		PPM
S7MW2D01	7MW2D	7/8/00	HYDROGEN SULFIDE	0		MG/L
S7MW2D01	7MW2D	7/8/00	SULFATE	7		MG/L
S7MW2D01	7MW2D	7/8/00	MANGANESE	0.1		MG/L
S7MW2D01	7MW2D	7/8/00	NITRITE	0.003		MG/L
S7MW2D01	7MW2D	7/8/00	NITRATE	0.29		MG/L
S7MW2S01	7MW2S	7/8/00	PH	5.79		
S7MW2S01	7MW2S	7/8/00	REDOX POTENTIAL	-46		MV
S7MW2S01	7MW2S	7/8/00	SPECIFIC CONDUCTIVITY	0.132		MS/CM
S7MW2S01	7MW2S	7/8/00	TEMPERATURE	12.4		C
S7MW2S01	7MW2S	7/8/00	TURBIDITY	2		NTU
S7MW2S01	7MW2S	7/8/00	SALINTY	0		%
S7MW2S01	7MW2S	7/8/00	DISSOLVED OXYGEN	0.6		PPM
S7MW2S01	7MW2S	7/8/00	DIVALENT IRON	3.5		MG/L
S7MW2S01	7MW2S	7/8/00	CARBON DIOXIDE	35		PPM
S7MW2S01	7MW2S	7/8/00	HYDROGEN SULFIDE	0		MG/L
S7MW2S01	7MW2S	7/8/00	SULFATE	11		MG/L
S7MW2S01	7MW2S	7/8/00	MANGANESE	0.3		MG/L
S7MW2S01	7MW2S	7/8/00	NITRITE	0.001		MG/L
S7MW2S01	7MW2S	7/8/00	NITRATE	0.14		MG/L

Note: Field Dups were not taken for field Water Qualty Parameters

SAMPLE	LOCATION	SAMPLE DATE	PARAMETER	RESULT	QUAL	UNITS
S7B325MW0101	B325-MW1	7/9/00	PH	6.26		
S7B325MW0101	B325-MW1	7/9/00	REDOX POTENTIAL	141		MV
S7B325MW0101	B325-MW1	7/9/00	SPECIFIC CONDUCTIVITY	0.618		MS/CM
S7B325MW0101	B325-MW1	7/9/00	TEMPERATURE	20.5		C
S7B325MW0101	B325-MW1	7/9/00	TURBIDITY	0.7		NTU
S7B325MW0101	B325-MW1	7/9/00	SALINTY	0		%
S7B325MW0101	B325-MW1	7/9/00	DISSOLVED OXYGEN	0.6		PPM
S7B325MW0101	B325-MW1	7/9/00	DIVALENT IRON	0		MG/L
S7B325MW0101	B325-MW1	7/9/00	CARBON DIOXIDE	33		PPM
S7B325MW0101	B325-MW1	7/9/00	HYDROGEN SULFIDE	0		MG/L
S7B325MW0101	B325-MW1	7/9/00	SULFATE	55		MG/L
S7B325MW0101	B325-MW1	7/9/00	MANGANESE	0		MG/L
S7B325MW0101	B325-MW1	7/9/00	NITRITE	0.005		MG/L
S7B325MW0101	B325-MW1	7/9/00	NITRATE	0.13		MG/L
S7B325MW0301	B325-MW3	7/9/00	PH	6.29		
S7B325MW0301	B325-MW3	7/9/00	REDOX POTENTIAL	94		MV
S7B325MW0301	B325-MW3	7/9/00	SPECIFIC CONDUCTIVITY	0.538		MS/CM
S7B325MW0301	B325-MW3	7/9/00	TEMPERATURE	21.8		C
S7B325MW0301	B325-MW3	7/9/00	TURBIDITY	5		NTU
S7B325MW0301	B325-MW3	7/9/00	SALINTY	0		%
S7B325MW0301	B325-MW3	7/9/00	DISSOLVED OXYGEN	0.35		PPM
S7B325MW0301	B325-MW3	7/9/00	DIVALENT IRON	0		MG/L
S7B325MW0301	B325-MW3	7/9/00	CARBON DIOXIDE	40		PPM
S7B325MW0301	B325-MW3	7/9/00	HYDROGEN SULFIDE	0		MG/L
S7B325MW0301	B325-MW3	7/9/00	SULFATE	41		MG/L
S7B325MW0301	B325-MW3	7/9/00	MANGANESE	0		MG/L
S7B325MW0301	B325-MW3	7/9/00	NITRITE	0.005		MG/L
S7B325MW0301	B325-MW3	7/9/00	NITRATE	0.38		MG/L
S7MW04S01	7MW4S	7/9/00	PH	6.58		
S7MW04S01	7MW4S	7/9/00	REDOX POTENTIAL	89		MV
S7MW04S01	7MW4S	7/9/00	SPECIFIC CONDUCTIVITY	0.735		MS/CM
S7MW04S01	7MW4S	7/9/00	TEMPERATURE	21.4		C
S7MW04S01	7MW4S	7/9/00	TURBIDITY	1.5		NTU
S7MW04S01	7MW4S	7/9/00	SALINTY	0		%
S7MW04S01	7MW4S	7/9/00	DISSOLVED OXYGEN	3		PPM
S7MW04S01	7MW4S	7/9/00	DIVALENT IRON	0		MG/L
S7MW04S01	7MW4S	7/9/00	CARBON DIOXIDE	33		PPM
S7MW04S01	7MW4S	7/9/00	HYDROGEN SULFIDE	0		MG/L
S7MW04S01	7MW4S	7/9/00	SULFATE	56		MG/L
S7MW04S01	7MW4S	7/9/00	MANGANESE	0.2		MG/L
S7MW04S01	7MW4S	7/9/00	NITRITE	0.007		MG/L
S7MW04S01	7MW4S	7/9/00	NITRATE	0.13		MG/L
FD0710001	7MW5S	7/10/00	PH	NA		
FD0710001	7MW5S	7/10/00	REDOX POTENTIAL	NA		MV
FD0710001	7MW5S	7/10/00	SPECIFIC CONDUCTIVITY	NA		MS/CM
FD0710001	7MW5S	7/10/00	TEMPERATURE	NA		C
FD0710001	7MW5S	7/10/00	TURBIDITY	NA		NTU
FD0710001	7MW5S	7/10/00	SALINTY	NA		%
FD0710001	7MW5S	7/10/00	DISSOLVED OXYGEN	7		PPM
FD0710001	7MW5S	7/10/00	DIVALENT IRON	0		MG/L
FD0710001	7MW5S	7/10/00	CARBON DIOXIDE	10.5		PPM
FD0710001	7MW5S	7/10/00	HYDROGEN SULFIDE	0		MG/L
FD0710001	7MW5S	7/10/00	SULFATE	8		MG/L
FD0710001	7MW5S	7/10/00	MANGANESE	0		MG/L
FD0710001	7MW5S	7/10/00	NITRITE	0.001		MG/L
FD0710001	7MW5S	7/10/00	NITRATE	0.22		MG/L
S7B325MW04	B325-MW4	7/10/00	PH	6.64		
S7B325MW04	B325-MW4	7/10/00	REDOX POTENTIAL	101		MV
S7B325MW04	B325-MW4	7/10/00	SPECIFIC CONDUCTIVITY	0.415		MS/CM
S7B325MW04	B325-MW4	7/10/00	TEMPERATURE	22.3		C
S7B325MW04	B325-MW4	7/10/00	TURBIDITY	4.4		NTU
S7B325MW04	B325-MW4	7/10/00	SALINTY	0		%
S7B325MW04	B325-MW4	7/10/00	DISSOLVED OXYGEN	2		PPM
S7B325MW04	B325-MW4	7/10/00	DIVALENT IRON	0		MG/L
S7B325MW04	B325-MW4	7/10/00	CARBON DIOXIDE	26		PPM
S7B325MW04	B325-MW4	7/10/00	HYDROGEN SULFIDE	0		MG/L
S7B325MW04	B325-MW4	7/10/00	SULFATE	19		MG/L
S7B325MW04	B325-MW4	7/10/00	MANGANESE	0		MG/L
S7B325MW04	B325-MW4	7/10/00	NITRITE	0.002		MG/L
S7B325MW04	B325-MW4	7/10/00	NITRATE	0.16		MG/L

Note: Field Dups were not taken for field Water Qualty Parameters

SAMPLE	LOCATION	SAMPLE DATE	PARAMETER	RESULT	QUAL	UNITS
S7MW05S01	7MW5S	7/10/00	PH	6.04		
S7MW05S01	7MW5S	7/10/00	REDOX POTENTIAL	141		MV
S7MW05S01	7MW5S	7/10/00	SPECIFIC CONDUCTIVITY	0.111		MS/CM
S7MW05S01	7MW5S	7/10/00	TEMPERATURE	18.2		C
S7MW05S01	7MW5S	7/10/00	TURBIDITY	1.4		NTU
S7MW05S01	7MW5S	7/10/00	SALINTY	0		%
S7MW05S01	7MW5S	7/10/00	DISSOLVED OXYGEN	6		PPM
S7MW05S01	7MW5S	7/10/00	DIVALENT IRON	0		MG/L
S7MW05S01	7MW5S	7/10/00	CARBON DIOXIDE	10		PPM
S7MW05S01	7MW5S	7/10/00	HYDROGEN SULFIDE	0		MG/L
S7MW05S01	7MW5S	7/10/00	SULFATE	7		MG/L
S7MW05S01	7MW5S	7/10/00	MANGANESE	0		MG/L
S7MW05S01	7MW5S	7/10/00	NITRITE	0.001		MG/L
S7MW05S01	7MW5S	7/10/00	NITRATE	0.24		MG/L
S7MW07S07	7MW7S	7/10/00	PH	6.61		
S7MW07S07	7MW7S	7/10/00	REDOX POTENTIAL	99		MV
S7MW07S07	7MW7S	7/10/00	SPECIFIC CONDUCTIVITY	0.375		MS/CM
S7MW07S07	7MW7S	7/10/00	TEMPERATURE	21.3		C
S7MW07S07	7MW7S	7/10/00	TURBIDITY	1.2		NTU
S7MW07S07	7MW7S	7/10/00	SALINTY	0		%
S7MW07S07	7MW7S	7/10/00	DISSOLVED OXYGEN	2.5		PPM
S7MW07S07	7MW7S	7/10/00	DIVALENT IRON	0		MG/L
S7MW07S07	7MW7S	7/10/00	CARBON DIOXIDE	17		PPM
S7MW07S07	7MW7S	7/10/00	HYDROGEN SULFIDE	0		MG/L
S7MW07S07	7MW7S	7/10/00	SULFATE	19		MG/L
S7MW07S07	7MW7S	7/10/00	MANGANESE	0		MG/L
S7MW07S07	7MW7S	7/10/00	NITRITE	0.005		MG/L
S7MW07S07	7MW7S	7/10/00	NITRATE	0.05		MG/L
S7MW03S01	7MW3S	7/11/00	PH	7.23		
S7MW03S01	7MW3S	7/11/00	REDOX POTENTIAL	97		MV
S7MW03S01	7MW3S	7/11/00	SPECIFIC CONDUCTIVITY	0.59		MS/CM
S7MW03S01	7MW3S	7/11/00	TEMPERATURE	16.6		C
S7MW03S01	7MW3S	7/11/00	TURBIDITY	0.32		NTU
S7MW03S01	7MW3S	7/11/00	SALINTY	0		%
S7MW03S01	7MW3S	7/11/00	DISSOLVED OXYGEN	0.2		PPM
S7MW03S01	7MW3S	7/11/00	DIVALENT IRON	0		MG/L
S7MW03S01	7MW3S	7/11/00	CARBON DIOXIDE	45		PPM
S7MW03S01	7MW3S	7/11/00	HYDROGEN SULFIDE	0		MG/L
S7MW03S01	7MW3S	7/11/00	SULFATE	53		MG/L
S7MW03S01	7MW3S	7/11/00	MANGANESE	0.7		MG/L
S7MW03S01	7MW3S	7/11/00	NITRITE	0.004		MG/L
S7MW03S01	7MW3S	7/11/00	NITRATE	0.03		MG/L
S7MW05D01	7MW5D	7/11/00	PH	7.17		
S7MW05D01	7MW5D	7/11/00	REDOX POTENTIAL	33		MV
S7MW05D01	7MW5D	7/11/00	SPECIFIC CONDUCTIVITY	0.82		MS/CM
S7MW05D01	7MW5D	7/11/00	TEMPERATURE	14.2		C
S7MW05D01	7MW5D	7/11/00	TURBIDITY	16.9		NTU
S7MW05D01	7MW5D	7/11/00	SALINTY	0		%
S7MW05D01	7MW5D	7/11/00	DISSOLVED OXYGEN	3		PPM
S7MW05D01	7MW5D	7/11/00	DIVALENT IRON	0		MG/L
S7MW05D01	7MW5D	7/11/00	CARBON DIOXIDE	10	U	PPM
S7MW05D01	7MW5D	7/11/00	HYDROGEN SULFIDE	0		MG/L
S7MW05D01	7MW5D	7/11/00	SULFATE	81		MG/L
S7MW05D01	7MW5D	7/11/00	MANGANESE	0		MG/L
S7MW05D01	7MW5D	7/11/00	NITRITE	0.006		MG/L
S7MW05D01	7MW5D	7/11/00	NITRATE	0.16		MG/L
S7MW06S01	7MW6S	7/11/00	PH	6.11		
S7MW06S01	7MW6S	7/11/00	REDOX POTENTIAL	-76		MV
S7MW06S01	7MW6S	7/11/00	SPECIFIC CONDUCTIVITY	0.426		MS/CM
S7MW06S01	7MW6S	7/11/00	TEMPERATURE	23.5		C
S7MW06S01	7MW6S	7/11/00	TURBIDITY	2		NTU
S7MW06S01	7MW6S	7/11/00	SALINTY	0		%
S7MW06S01	7MW6S	7/11/00	DISSOLVED OXYGEN	0.05		PPM
S7MW06S01	7MW6S	7/11/00	DIVALENT IRON	2		MG/L
S7MW06S01	7MW6S	7/11/00	CARBON DIOXIDE	45		PPM
S7MW06S01	7MW6S	7/11/00	HYDROGEN SULFIDE	0		MG/L
S7MW06S01	7MW6S	7/11/00	SULFATE	44		MG/L
S7MW06S01	7MW6S	7/11/00	MANGANESE	0.5		MG/L
S7MW06S01	7MW6S	7/11/00	NITRITE	0.002		MG/L
S7MW06S01	7MW6S	7/11/00	NITRATE	0.02		MG/L

Note: Field Dups were not taken for field Water Qualty Parameters

SAMPLE	LOCATION	SAMPLE DATE	PARAMETER	RESULT	QUAL	UNITS
S7MW09S01	7MW9S	7/11/00	PH	5.88		
S7MW09S01	7MW9S	7/11/00	REDOX POTENTIAL	55		MV
S7MW09S01	7MW9S	7/11/00	SPECIFIC CONDUCTIVITY	0.58		MS/CM
S7MW09S01	7MW9S	7/11/00	TEMPERATURE	17.8		C
S7MW09S01	7MW9S	7/11/00	TURBIDITY	2.2		NTU
S7MW09S01	7MW9S	7/11/00	SALINTY	0		%
S7MW09S01	7MW9S	7/11/00	DISSOLVED OXYGEN	3		PPM
S7MW09S01	7MW9S	7/11/00	DIVALENT IRON	0		MG/L
S7MW09S01	7MW9S	7/11/00	CARBON DIOXIDE	50		PPM
S7MW09S01	7MW9S	7/11/00	HYDROGEN SULFIDE	0		MG/L
S7MW09S01	7MW9S	7/11/00	SULFATE	29		MG/L
S7MW09S01	7MW9S	7/11/00	MANGANESE	0.5		MG/L
S7MW09S01	7MW9S	7/11/00	NITRITE	0		MG/L
S7MW09S01	7MW9S	7/11/00	NITRATE	0		MG/L
S7MW11S01	7MW11S	7/11/00	PH	6.14		
S7MW11S01	7MW11S	7/11/00	REDOX POTENTIAL	11		MV
S7MW11S01	7MW11S	7/11/00	SPECIFIC CONDUCTIVITY	0.547		MS/CM
S7MW11S01	7MW11S	7/11/00	TEMPERATURE	24.2		C
S7MW11S01	7MW11S	7/11/00	TURBIDITY	0.3		NTU
S7MW11S01	7MW11S	7/11/00	SALINTY	0		%
S7MW11S01	7MW11S	7/11/00	DISSOLVED OXYGEN	0.2		PPM
S7MW11S01	7MW11S	7/11/00	DIVALENT IRON	0.6		MG/L
S7MW11S01	7MW11S	7/11/00	CARBON DIOXIDE	42		PPM
S7MW11S01	7MW11S	7/11/00	HYDROGEN SULFIDE	0		MG/L
S7MW11S01	7MW11S	7/11/00	SULFATE	41		MG/L
S7MW11S01	7MW11S	7/11/00	MANGANESE	0.5		MG/L
S7MW11S01	7MW11S	7/11/00	NITRITE	0		MG/L
S7MW11S01	7MW11S	7/11/00	NITRATE	0.55		MG/L
S32DMW29S04	2DMW29S	7/12/00	PH	5.73		
S32DMW29S04	2DMW29S	7/12/00	REDOX POTENTIAL	81		MV
S32DMW29S04	2DMW29S	7/12/00	SPECIFIC CONDUCTIVITY	0.496		MS/CM
S32DMW29S04	2DMW29S	7/12/00	TEMPERATURE	18.3		C
S32DMW29S04	2DMW29S	7/12/00	TURBIDITY	2.8		NTU
S32DMW29S04	2DMW29S	7/12/00	SALINTY	0		%
S32DMW29S04	2DMW29S	7/12/00	DISSOLVED OXYGEN	2		PPM
S32DMW29S04	2DMW29S	7/12/00	DIVALENT IRON	3		MG/L
S32DMW29S04	2DMW29S	7/12/00	CARBON DIOXIDE	40		PPM
S32DMW29S04	2DMW29S	7/12/00	HYDROGEN SULFIDE	0		MG/L
S32DMW29S04	2DMW29S	7/12/00	SULFATE	19		MG/L
S32DMW29S04	2DMW29S	7/12/00	MANGANESE	0.4		MG/L
S32DMW29S04	2DMW29S	7/12/00	NITRITE	0		MG/L
S32DMW29S04	2DMW29S	7/12/00	NITRATE	0.02		MG/L
S32DMW30S01	2DMW30S	7/12/00	PH	5.77		
S32DMW30S01	2DMW30S	7/12/00	REDOX POTENTIAL	25		MV
S32DMW30S01	2DMW30S	7/12/00	SPECIFIC CONDUCTIVITY	0.472		MS/CM
S32DMW30S01	2DMW30S	7/12/00	TEMPERATURE	17.8		C
S32DMW30S01	2DMW30S	7/12/00	TURBIDITY	26		NTU
S32DMW30S01	2DMW30S	7/12/00	SALINTY	0		%
S32DMW30S01	2DMW30S	7/12/00	DISSOLVED OXYGEN	0.8		PPM
S32DMW30S01	2DMW30S	7/12/00	DIVALENT IRON	1.5		MG/L
S32DMW30S01	2DMW30S	7/12/00	CARBON DIOXIDE	53		PPM
S32DMW30S01	2DMW30S	7/12/00	HYDROGEN SULFIDE	0		MG/L
S32DMW30S01	2DMW30S	7/12/00	SULFATE	25		MG/L
S32DMW30S01	2DMW30S	7/12/00	MANGANESE	0		MG/L
S32DMW30S01	2DMW30S	7/12/00	NITRITE	0.016		MG/L
S32DMW30S01	2DMW30S	7/12/00	NITRATE	0.1		MG/L
S32DMW25D01	2DMW25D	7/22/00	PH	6.39		
S32DMW25D01	2DMW25D	7/22/00	REDOX POTENTIAL	-11.3		MV
S32DMW25D01	2DMW25D	7/22/00	SPECIFIC CONDUCTIVITY	0.281		MS/CM
S32DMW25D01	2DMW25D	7/22/00	TEMPERATURE	16		C
S32DMW25D01	2DMW25D	7/22/00	TURBIDITY	11		NTU
S32DMW25D01	2DMW25D	7/22/00	SALINTY	0		%
S32DMW25D01	2DMW25D	7/22/00	DISSOLVED OXYGEN	0.05		PPM
S32DMW25D01	2DMW25D	7/22/00	DIVALENT IRON	5.9		MG/L
S32DMW25D01	2DMW25D	7/22/00	CARBON DIOXIDE	40		PPM
S32DMW25D01	2DMW25D	7/22/00	HYDROGEN SULFIDE	0		MG/L
S32DMW25D01	2DMW25D	7/22/00	SULFATE	7		MG/L
S32DMW25D01	2DMW25D	7/22/00	MANGANESE	0.5		MG/L
S32DMW25D01	2DMW25D	7/22/00	NITRITE	0.001		MG/L
S32DMW25D01	2DMW25D	7/22/00	NITRATE	0.06		MG/L

Note: Field Dups were not taken for field Water Qualty Parameters

SAMPLE	LOCATION	SAMPLE DATE	PARAMETER	RESULT	QUAL	UNITS
S32DMW25S01	2DMW25S	7/22/00	PH	5.35		
S32DMW25S01	2DMW25S	7/22/00	REDOX POTENTIAL	169		MV
S32DMW25S01	2DMW25S	7/22/00	SPECIFIC CONDUCTIVITY	0.241		MS/CM
S32DMW25S01	2DMW25S	7/22/00	TEMPERATURE	20.9		C
S32DMW25S01	2DMW25S	7/22/00	TURBIDITY	3.6		NTU
S32DMW25S01	2DMW25S	7/22/00	SALINTY	0		%
S32DMW25S01	2DMW25S	7/22/00	DISSOLVED OXYGEN	0.9		PPM
S32DMW25S01	2DMW25S	7/22/00	DIVALENT IRON	0.2		MG/L
S32DMW25S01	2DMW25S	7/22/00	CARBON DIOXIDE	55		PPM
S32DMW25S01	2DMW25S	7/22/00	HYDROGEN SULFIDE	0		MG/L
S32DMW25S01	2DMW25S	7/22/00	SULFATE	5		MG/L
S32DMW25S01	2DMW25S	7/22/00	MANGANESE	0		MG/L
S32DMW25S01	2DMW25S	7/22/00	NITRITE	0		MG/L
S32DMW25S01	2DMW25S	7/22/00	NITRATE	0.02		MG/L
S32DMW26D01	2DMW26D	7/22/00	PH	6.9		
S32DMW26D01	2DMW26D	7/22/00	REDOX POTENTIAL	-171		MV
S32DMW26D01	2DMW26D	7/22/00	SPECIFIC CONDUCTIVITY	0.484		MS/CM
S32DMW26D01	2DMW26D	7/22/00	TEMPERATURE	17.5		C
S32DMW26D01	2DMW26D	7/22/00	TURBIDITY	0		NTU
S32DMW26D01	2DMW26D	7/22/00	SALINTY	0		%
S32DMW26D01	2DMW26D	7/22/00	DISSOLVED OXYGEN	0		PPM
S32DMW26D01	2DMW26D	7/22/00	DIVALENT IRON	4.2		MG/L
S32DMW26D01	2DMW26D	7/22/00	CARBON DIOXIDE	26		PPM
S32DMW26D01	2DMW26D	7/22/00	HYDROGEN SULFIDE	0		MG/L
S32DMW26D01	2DMW26D	7/22/00	SULFATE	17		MG/L
S32DMW26D01	2DMW26D	7/22/00	MANGANESE	1		MG/L
S32DMW26D01	2DMW26D	7/22/00	NITRITE	0		MG/L
S32DMW26D01	2DMW26D	7/22/00	NITRATE	0.05		MG/L
S32DMW26S01	2DMW26S	7/22/00	PH	5.71		
S32DMW26S01	2DMW26S	7/22/00	REDOX POTENTIAL	143		MV
S32DMW26S01	2DMW26S	7/22/00	SPECIFIC CONDUCTIVITY	0.299		MS/CM
S32DMW26S01	2DMW26S	7/22/00	TEMPERATURE	17.6		C
S32DMW26S01	2DMW26S	7/22/00	TURBIDITY	1.2		NTU
S32DMW26S01	2DMW26S	7/22/00	SALINTY	0		%
S32DMW26S01	2DMW26S	7/22/00	DISSOLVED OXYGEN	3.5		PPM
S32DMW26S01	2DMW26S	7/22/00	DIVALENT IRON	0		MG/L
S32DMW26S01	2DMW26S	7/22/00	CARBON DIOXIDE	60		PPM
S32DMW26S01	2DMW26S	7/22/00	HYDROGEN SULFIDE	0		MG/L
S32DMW26S01	2DMW26S	7/22/00	SULFATE	19		MG/L
S32DMW26S01	2DMW26S	7/22/00	MANGANESE	0.3		MG/L
S32DMW26S01	2DMW26S	7/22/00	NITRITE	0		MG/L
S32DMW26S01	2DMW26S	7/22/00	NITRATE	0.35		MG/L
S32DMW28D01	2DMW28D	7/23/00	PH	6.72		
S32DMW28D01	2DMW28D	7/23/00	REDOX POTENTIAL	-147		MV
S32DMW28D01	2DMW28D	7/23/00	SPECIFIC CONDUCTIVITY	0.453		MS/CM
S32DMW28D01	2DMW28D	7/23/00	TEMPERATURE	14.7		C
S32DMW28D01	2DMW28D	7/23/00	TURBIDITY	18		NTU
S32DMW28D01	2DMW28D	7/23/00	SALINTY	0		%
S32DMW28D01	2DMW28D	7/23/00	DISSOLVED OXYGEN	1		PPM
S32DMW28D01	2DMW28D	7/23/00	DIVALENT IRON	4		MG/L
S32DMW28D01	2DMW28D	7/23/00	CARBON DIOXIDE	35		PPM
S32DMW28D01	2DMW28D	7/23/00	HYDROGEN SULFIDE	0		MG/L
S32DMW28D01	2DMW28D	7/23/00	SULFATE	13		MG/L
S32DMW28D01	2DMW28D	7/23/00	MANGANESE	5.8		MG/L
S32DMW28D01	2DMW28D	7/23/00	NITRITE	0		MG/L
S32DMW28D01	2DMW28D	7/23/00	NITRATE	0		MG/L
S32DMW28S01	2DMW28S	7/23/00	PH	6.15		
S32DMW28S01	2DMW28S	7/23/00	REDOX POTENTIAL	139		MV
S32DMW28S01	2DMW28S	7/23/00	SPECIFIC CONDUCTIVITY	1.01		MS/CM
S32DMW28S01	2DMW28S	7/23/00	TEMPERATURE	15.6		C
S32DMW28S01	2DMW28S	7/23/00	TURBIDITY	1.9		NTU
S32DMW28S01	2DMW28S	7/23/00	SALINTY	0		%
S32DMW28S01	2DMW28S	7/23/00	DISSOLVED OXYGEN	6		PPM
S32DMW28S01	2DMW28S	7/23/00	DIVALENT IRON	0.2	U	MG/L
S32DMW28S01	2DMW28S	7/23/00	CARBON DIOXIDE	15		PPM
S32DMW28S01	2DMW28S	7/23/00	HYDROGEN SULFIDE	0		MG/L
S32DMW28S01	2DMW28S	7/23/00	SULFATE	12		MG/L
S32DMW28S01	2DMW28S	7/23/00	MANGANESE	0.3		MG/L
S32DMW28S01	2DMW28S	7/23/00	NITRITE	0.005		MG/L
S32DMW28S01	2DMW28S	7/23/00	NITRATE	0.55		MG/L

Note: Field Dups were not taken for field Water Qualty Parameters

SAMPLE	LOCATION	SAMPLE DATE	PARAMETER	RESULT	QUAL	UNITS
S32DMW23D01	2DMW23D	7/25/00	PH	5.36		
S32DMW23D01	2DMW23D	7/25/00	REDOX POTENTIAL	209		MV
S32DMW23D01	2DMW23D	7/25/00	SPECIFIC CONDUCTIVITY	0.092		MS/CM
S32DMW23D01	2DMW23D	7/25/00	TEMPERATURE	13		C
S32DMW23D01	2DMW23D	7/25/00	TURBIDITY	4.4		NTU
S32DMW23D01	2DMW23D	7/25/00	SALINTY	0		%
S32DMW23D01	2DMW23D	7/25/00	DISSOLVED OXYGEN	6.5		PPM
S32DMW23D01	2DMW23D	7/25/00	DIVALENT IRON	0		MG/L
S32DMW23D01	2DMW23D	7/25/00	CARBON DIOXIDE	32		PPM
S32DMW23D01	2DMW23D	7/25/00	HYDROGEN SULFIDE	0		MG/L
S32DMW23D01	2DMW23D	7/25/00	SULFATE	9		MG/L
S32DMW23D01	2DMW23D	7/25/00	MANGANESE	0		MG/L
S32DMW23D01	2DMW23D	7/25/00	NITRITE	0		MG/L
S32DMW23D01	2DMW23D	7/25/00	NITRATE	0.02		MG/L
S3MW14S01	3MW14S	7/25/00	PH	6.19		
S3MW14S01	3MW14S	7/25/00	REDOX POTENTIAL	68		MV
S3MW14S01	3MW14S	7/25/00	SPECIFIC CONDUCTIVITY	0.316		MS/CM
S3MW14S01	3MW14S	7/25/00	TEMPERATURE	15.1		C
S3MW14S01	3MW14S	7/25/00	TURBIDITY	3.6		NTU
S3MW14S01	3MW14S	7/25/00	SALINTY	0		%
S3MW14S01	3MW14S	7/25/00	DISSOLVED OXYGEN	8		PPM
S3MW14S01	3MW14S	7/25/00	DIVALENT IRON	0		MG/L
S3MW14S01	3MW14S	7/25/00	CARBON DIOXIDE	22		PPM
S3MW14S01	3MW14S	7/25/00	HYDROGEN SULFIDE	0		MG/L
S3MW14S01	3MW14S	7/25/00	SULFATE	21		MG/L
S3MW14S01	3MW14S	7/25/00	MANGANESE	0.7		MG/L
S3MW14S01	3MW14S	7/25/00	NITRITE	0.005		MG/L
S3MW14S01	3MW14S	7/25/00	NITRATE	0.55		MG/L
S32DMW16D01	2DMW16D	7/31/00	PH	7.01		
S32DMW16D01	2DMW16D	7/31/00	REDOX POTENTIAL	-226		MV
S32DMW16D01	2DMW16D	7/31/00	SPECIFIC CONDUCTIVITY	2.77		MS/CM
S32DMW16D01	2DMW16D	7/31/00	TEMPERATURE	12.8		C
S32DMW16D01	2DMW16D	7/31/00	TURBIDITY	30		NTU
S32DMW16D01	2DMW16D	7/31/00	SALINTY	0.1		%
S32DMW16D01	2DMW16D	7/31/00	DISSOLVED OXYGEN	0.1		PPM
S32DMW16D01	2DMW16D	7/31/00	DIVALENT IRON	6		MG/L
S32DMW16D01	2DMW16D	7/31/00	CARBON DIOXIDE	60		PPM
S32DMW16D01	2DMW16D	7/31/00	HYDROGEN SULFIDE	0		MG/L
S32DMW16D01	2DMW16D	7/31/00	SULFATE	100		MG/L
S32DMW16D01	2DMW16D	7/31/00	MANGANESE	>47.5		MG/L
S32DMW16D01	2DMW16D	7/31/00	NITRITE	0		MG/L
S32DMW16D01	2DMW16D	7/31/00	NITRATE	0		MG/L
S32DMW16S01	2DMW16S	7/31/00	PH	6.65		
S32DMW16S01	2DMW16S	7/31/00	REDOX POTENTIAL	-68		MV
S32DMW16S01	2DMW16S	7/31/00	SPECIFIC CONDUCTIVITY	0.502		MS/CM
S32DMW16S01	2DMW16S	7/31/00	TEMPERATURE	17.5		C
S32DMW16S01	2DMW16S	7/31/00	TURBIDITY	3.5		NTU
S32DMW16S01	2DMW16S	7/31/00	SALINTY	0		%
S32DMW16S01	2DMW16S	7/31/00	DISSOLVED OXYGEN	0.3		PPM
S32DMW16S01	2DMW16S	7/31/00	DIVALENT IRON	0.8		MG/L
S32DMW16S01	2DMW16S	7/31/00	CARBON DIOXIDE	32		PPM
S32DMW16S01	2DMW16S	7/31/00	HYDROGEN SULFIDE	0		MG/L
S32DMW16S01	2DMW16S	7/31/00	SULFATE	15		MG/L
S32DMW16S01	2DMW16S	7/31/00	MANGANESE	1.8		MG/L
S32DMW16S01	2DMW16S	7/31/00	NITRITE	0.003		MG/L
S32DMW16S01	2DMW16S	7/31/00	NITRATE	0.06		MG/L
FD08020001	2DMW24D	8/2/00	PH	NA		
FD08020001	2DMW24D	8/2/00	REDOX POTENTIAL	NA		MV
FD08020001	2DMW24D	8/2/00	SPECIFIC CONDUCTIVITY	NA		MS/CM
FD08020001	2DMW24D	8/2/00	TEMPERATURE	NA		C
FD08020001	2DMW24D	8/2/00	TURBIDITY	NA		NTU
FD08020001	2DMW24D	8/2/00	SALINTY	NA		%
FD08020001	2DMW24D	8/2/00	DISSOLVED OXYGEN	0.4		PPM
FD08020001	2DMW24D	8/2/00	DIVALENT IRON	4.2		MG/L
FD08020001	2DMW24D	8/2/00	CARBON DIOXIDE	45		PPM
FD08020001	2DMW24D	8/2/00	HYDROGEN SULFIDE	0		MG/L
FD08020001	2DMW24D	8/2/00	SULFATE	24		MG/L
FD08020001	2DMW24D	8/2/00	MANGANESE	1.8		MG/L
FD08020001	2DMW24D	8/2/00	NITRITE	0.004		MG/L
FD08020001	2DMW24D	8/2/00	NITRATE	0.05		MG/L

Note: Field Dups were not taken for field Water Qualty Parameters

SAMPLE	LOCATION	SAMPLE DATE	PARAMETER	RESULT	QUAL	UNITS
S32DMW10D01	2DMW10D	8/2/00	PH	6.43		
S32DMW10D01	2DMW10D	8/2/00	REDOX POTENTIAL	-116		MV
S32DMW10D01	2DMW10D	8/2/00	SPECIFIC CONDUCTIVITY	0.298		MS/CM
S32DMW10D01	2DMW10D	8/2/00	TEMPERATURE	15.9		C
S32DMW10D01	2DMW10D	8/2/00	TURBIDITY	39		NTU
S32DMW10D01	2DMW10D	8/2/00	SALINTY	0		%
S32DMW10D01	2DMW10D	8/2/00	DISSOLVED OXYGEN	1		PPM
S32DMW10D01	2DMW10D	8/2/00	DIVALENT IRON	3.2		MG/L
S32DMW10D01	2DMW10D	8/2/00	CARBON DIOXIDE	30		PPM
S32DMW10D01	2DMW10D	8/2/00	HYDROGEN SULFIDE	0		MG/L
S32DMW10D01	2DMW10D	8/2/00	SULFATE	7		MG/L
S32DMW10D01	2DMW10D	8/2/00	MANGANESE	0.6		MG/L
S32DMW10D01	2DMW10D	8/2/00	NITRITE	0		MG/L
S32DMW10D01	2DMW10D	8/2/00	NITRATE	0.03		MG/L
S32DMW15D01	2DMW15D	8/2/00	PH	5.98		
S32DMW15D01	2DMW15D	8/2/00	REDOX POTENTIAL	-42		MV
S32DMW15D01	2DMW15D	8/2/00	SPECIFIC CONDUCTIVITY	0.46		MS/CM
S32DMW15D01	2DMW15D	8/2/00	TEMPERATURE	16.3		C
S32DMW15D01	2DMW15D	8/2/00	TURBIDITY	42		NTU
S32DMW15D01	2DMW15D	8/2/00	SALINTY	0		%
S32DMW15D01	2DMW15D	8/2/00	DISSOLVED OXYGEN	0		PPM
S32DMW15D01	2DMW15D	8/2/00	DIVALENT IRON	4		MG/L
S32DMW15D01	2DMW15D	8/2/00	CARBON DIOXIDE	140		PPM
S32DMW15D01	2DMW15D	8/2/00	HYDROGEN SULFIDE	0		MG/L
S32DMW15D01	2DMW15D	8/2/00	SULFATE	48		MG/L
S32DMW15D01	2DMW15D	8/2/00	MANGANESE	3		MG/L
S32DMW15D01	2DMW15D	8/2/00	NITRITE	0		MG/L
S32DMW15D01	2DMW15D	8/2/00	NITRATE	0.01		MG/L
S32DMW24D01	2DMW24D	8/2/00	PH	6.38		
S32DMW24D01	2DMW24D	8/2/00	REDOX POTENTIAL	-100		MV
S32DMW24D01	2DMW24D	8/2/00	SPECIFIC CONDUCTIVITY	0.645		MS/CM
S32DMW24D01	2DMW24D	8/2/00	TEMPERATURE	17.1		C
S32DMW24D01	2DMW24D	8/2/00	TURBIDITY	36		NTU
S32DMW24D01	2DMW24D	8/2/00	SALINTY	0		%
S32DMW24D01	2DMW24D	8/2/00	DISSOLVED OXYGEN	0.4		PPM
S32DMW24D01	2DMW24D	8/2/00	DIVALENT IRON	4.2		MG/L
S32DMW24D01	2DMW24D	8/2/00	CARBON DIOXIDE	48		PPM
S32DMW24D01	2DMW24D	8/2/00	HYDROGEN SULFIDE	0		MG/L
S32DMW24D01	2DMW24D	8/2/00	SULFATE	21		MG/L
S32DMW24D01	2DMW24D	8/2/00	MANGANESE	2.1		MG/L
S32DMW24D01	2DMW24D	8/2/00	NITRITE	0.001		MG/L
S32DMW24D01	2DMW24D	8/2/00	NITRATE	0.03		MG/L
S32DMW24S01	2DMW24S	8/2/00	PH	6.49		
S32DMW24S01	2DMW24S	8/2/00	REDOX POTENTIAL	-157		MV
S32DMW24S01	2DMW24S	8/2/00	SPECIFIC CONDUCTIVITY	0.676		MS/CM
S32DMW24S01	2DMW24S	8/2/00	TEMPERATURE	20.8		C
S32DMW24S01	2DMW24S	8/2/00	TURBIDITY	12.2		NTU
S32DMW24S01	2DMW24S	8/2/00	SALINTY	0		%
S32DMW24S01	2DMW24S	8/2/00	DISSOLVED OXYGEN	0		PPM
S32DMW24S01	2DMW24S	8/2/00	DIVALENT IRON	5		MG/L
S32DMW24S01	2DMW24S	8/2/00	CARBON DIOXIDE	60		PPM
S32DMW24S01	2DMW24S	8/2/00	HYDROGEN SULFIDE	0		MG/L
S32DMW24S01	2DMW24S	8/2/00	SULFATE	13		MG/L
S32DMW24S01	2DMW24S	8/2/00	MANGANESE	2.8		MG/L
S32DMW24S01	2DMW24S	8/2/00	NITRITE	0		MG/L
S32DMW24S01	2DMW24S	8/2/00	NITRATE	0		MG/L
S23HNUS501	HNUS-5	8/3/00	PH	6.31		
S23HNUS501	HNUS-5	8/3/00	REDOX POTENTIAL	-30		MV
S23HNUS501	HNUS-5	8/3/00	SPECIFIC CONDUCTIVITY	0.31		MS/CM
S23HNUS501	HNUS-5	8/3/00	TEMPERATURE	23.6		C
S23HNUS501	HNUS-5	8/3/00	TURBIDITY	3.2		NTU
S23HNUS501	HNUS-5	8/3/00	SALINTY	0		%
S23HNUS501	HNUS-5	8/3/00	DISSOLVED OXYGEN	0.6		PPM
S23HNUS501	HNUS-5	8/3/00	DIVALENT IRON	1		MG/L
S23HNUS501	HNUS-5	8/3/00	CARBON DIOXIDE	55		PPM
S23HNUS501	HNUS-5	8/3/00	HYDROGEN SULFIDE	1		MG/L
S23HNUS501	HNUS-5	8/3/00	SULFATE	11		MG/L
S23HNUS501	HNUS-5	8/3/00	MANGANESE	0.5		MG/L
S23HNUS501	HNUS-5	8/3/00	NITRITE	0		MG/L
S23HNUS501	HNUS-5	8/3/00	NITRATE	>0.55		MG/L

Note: Field Dups were not taken for field Water Qualty Parameters

SAMPLE	LOCATION	SAMPLE DATE	PARAMETER	RESULT	QUAL	UNITS
S32DMW27D01	2DMW27D	8/3/00	PH	7.88		
S32DMW27D01	2DMW27D	8/3/00	REDOX POTENTIAL	62		MV
S32DMW27D01	2DMW27D	8/3/00	SPECIFIC CONDUCTIVITY	0.318		MS/CM
S32DMW27D01	2DMW27D	8/3/00	TEMPERATURE	22.1		C
S32DMW27D01	2DMW27D	8/3/00	TURBIDITY	4.8		NTU
S32DMW27D01	2DMW27D	8/3/00	SALINTY	0		%
S32DMW27D01	2DMW27D	8/3/00	DISSOLVED OXYGEN	8		PPM
S32DMW27D01	2DMW27D	8/3/00	DIVALENT IRON	0.8		MG/L
S32DMW27D01	2DMW27D	8/3/00	CARBON DIOXIDE	<10		PPM
S32DMW27D01	2DMW27D	8/3/00	HYDROGEN SULFIDE	0		MG/L
S32DMW27D01	2DMW27D	8/3/00	SULFATE	9		MG/L
S32DMW27D01	2DMW27D	8/3/00	MANGANESE	0.3		MG/L
S32DMW27D01	2DMW27D	8/3/00	NITRITE	0.002		MG/L
S32DMW27D01	2DMW27D	8/3/00	NITRATE	0.04		MG/L
S23HNUS201	HNUS-2	8/4/00	PH	6.63		
S23HNUS201	HNUS-2	8/4/00	REDOX POTENTIAL	-108		MV
S23HNUS201	HNUS-2	8/4/00	SPECIFIC CONDUCTIVITY	0.555		MS/CM
S23HNUS201	HNUS-2	8/4/00	TEMPERATURE	21.2		C
S23HNUS201	HNUS-2	8/4/00	TURBIDITY	4.4		NTU
S23HNUS201	HNUS-2	8/4/00	SALINTY	0		%
S23HNUS201	HNUS-2	8/4/00	DISSOLVED OXYGEN	0.7		PPM
S23HNUS201	HNUS-2	8/4/00	DIVALENT IRON	3.2		MG/L
S23HNUS201	HNUS-2	8/4/00	CARBON DIOXIDE	75		PPM
S23HNUS201	HNUS-2	8/4/00	HYDROGEN SULFIDE	0		MG/L
S23HNUS201	HNUS-2	8/4/00	SULFATE	11		MG/L
S23HNUS201	HNUS-2	8/4/00	MANGANESE	2.9		MG/L
S23HNUS201	HNUS-2	8/4/00	NITRITE	0		MG/L
S23HNUS201	HNUS-2	8/4/00	NITRATE	0		MG/L
S23MW04D01	23MW04D	8/4/00	PH	6.64		
S23MW04D01	23MW04D	8/4/00	REDOX POTENTIAL	49		MV
S23MW04D01	23MW04D	8/4/00	SPECIFIC CONDUCTIVITY	0.128		MS/CM
S23MW04D01	23MW04D	8/4/00	TEMPERATURE	16		C
S23MW04D01	23MW04D	8/4/00	TURBIDITY	7.3		NTU
S23MW04D01	23MW04D	8/4/00	SALINTY	0		%
S23MW04D01	23MW04D	8/4/00	DISSOLVED OXYGEN	5		PPM
S23MW04D01	23MW04D	8/4/00	DIVALENT IRON	0		MG/L
S23MW04D01	23MW04D	8/4/00	CARBON DIOXIDE	<10		PPM
S23MW04D01	23MW04D	8/4/00	HYDROGEN SULFIDE	0		MG/L
S23MW04D01	23MW04D	8/4/00	SULFATE	8		MG/L
S23MW04D01	23MW04D	8/4/00	MANGANESE	0		MG/L
S23MW04D01	23MW04D	8/4/00	NITRITE	0.005		MG/L
S23MW04D01	23MW04D	8/4/00	NITRATE	0.29		MG/L
S23HNUS2001	HNUS-20	8/5/00	PH	5.67		
S23HNUS2001	HNUS-20	8/5/00	REDOX POTENTIAL	172		MV
S23HNUS2001	HNUS-20	8/5/00	SPECIFIC CONDUCTIVITY	0.309		MS/CM
S23HNUS2001	HNUS-20	8/5/00	TEMPERATURE	21.03		C
S23HNUS2001	HNUS-20	8/5/00	TURBIDITY	0.4		NTU
S23HNUS2001	HNUS-20	8/5/00	SALINTY	0		%
S23HNUS2001	HNUS-20	8/5/00	DISSOLVED OXYGEN	3		PPM
S23HNUS2001	HNUS-20	8/5/00	DIVALENT IRON	0		MG/L
S23HNUS2001	HNUS-20	8/5/00	CARBON DIOXIDE	85		PPM
S23HNUS2001	HNUS-20	8/5/00	HYDROGEN SULFIDE	0		MG/L
S23HNUS2001	HNUS-20	8/5/00	SULFATE	48		MG/L
S23HNUS2001	HNUS-20	8/5/00	MANGANESE	0.2		MG/L
S23HNUS2001	HNUS-20	8/5/00	NITRITE	0.011		MG/L
S23HNUS2001	HNUS-20	8/5/00	NITRATE	>0.55		MG/L
S32DMW11S01	2DMW11S	8/5/00	PH	6.32		
S32DMW11S01	2DMW11S	8/5/00	REDOX POTENTIAL	162		MV
S32DMW11S01	2DMW11S	8/5/00	SPECIFIC CONDUCTIVITY	0.661		MS/CM
S32DMW11S01	2DMW11S	8/5/00	TEMPERATURE	13.2		C
S32DMW11S01	2DMW11S	8/5/00	TURBIDITY	2.3		NTU
S32DMW11S01	2DMW11S	8/5/00	SALINTY	0		%
S32DMW11S01	2DMW11S	8/5/00	DISSOLVED OXYGEN	0.4		PPM
S32DMW11S01	2DMW11S	8/5/00	DIVALENT IRON	0		MG/L
S32DMW11S01	2DMW11S	8/5/00	CARBON DIOXIDE	45		PPM
S32DMW11S01	2DMW11S	8/5/00	HYDROGEN SULFIDE	0		MG/L
S32DMW11S01	2DMW11S	8/5/00	SULFATE	93		MG/L
S32DMW11S01	2DMW11S	8/5/00	MANGANESE	1.9		MG/L
S32DMW11S01	2DMW11S	8/5/00	NITRITE	0.005		MG/L
S32DMW11S01	2DMW11S	8/5/00	NITRATE	0.17		MG/L

Note: Field Dups were not taken for field Water Qualty Parameters

SAMPLE	LOCATION	SAMPLE DATE	PARAMETER	RESULT	QUAL	UNITS
FD0806001	23MW02D	8/6/00	PH	NA		
FD0806001	23MW02D	8/6/00	REDOX POTENTIAL	NA		MV
FD0806001	23MW02D	8/6/00	SPECIFIC CONDUCTIVITY	NA		MS/CM
FD0806001	23MW02D	8/6/00	TEMPERATURE	NA		C
FD0806001	23MW02D	8/6/00	TURBIDITY	NA		NTU
FD0806001	23MW02D	8/6/00	SALINTY	NA		%
FD0806001	23MW02D	8/6/00	DISSOLVED OXYGEN	4		PPM
FD0806001	23MW02D	8/6/00	DIVALENT IRON	1		MG/L
FD0806001	23MW02D	8/6/00	CARBON DIOXIDE	28		PPM
FD0806001	23MW02D	8/6/00	HYDROGEN SULFIDE	0		MG/L
FD0806001	23MW02D	8/6/00	SULFATE	8		MG/L
FD0806001	23MW02D	8/6/00	MANGANESE	0		MG/L
FD0806001	23MW02D	8/6/00	NITRITE	0.005		MG/L
FD0806001	23MW02D	8/6/00	NITRATE	0.18		MG/L
S23MW02S01	23MW02S	8/6/00	PH	6.23		
S23MW02S01	23MW02S	8/6/00	REDOX POTENTIAL	-39		MV
S23MW02S01	23MW02S	8/6/00	SPECIFIC CONDUCTIVITY	0.653		MS/CM
S23MW02S01	23MW02S	8/6/00	TEMPERATURE	20.2		C
S23MW02S01	23MW02S	8/6/00	TURBIDITY	30		NTU
S23MW02S01	23MW02S	8/6/00	SALINTY	0		%
S23MW02S01	23MW02S	8/6/00	DISSOLVED OXYGEN	0.3		PPM
S23MW02S01	23MW02S	8/6/00	DIVALENT IRON	5.9		MG/L
S23MW02S01	23MW02S	8/6/00	CARBON DIOXIDE	200		PPM
S23MW02S01	23MW02S	8/6/00	HYDROGEN SULFIDE	0		MG/L
S23MW02S01	23MW02S	8/6/00	SULFATE	7		MG/L
S23MW02S01	23MW02S	8/6/00	MANGANESE	7.2		MG/L
S23MW02S01	23MW02S	8/6/00	NITRITE	0		MG/L
S23MW02S01	23MW02S	8/6/00	NITRATE	0		MG/L
S23MW02D01	23MW02D	8/6/00	PH	6.05		
S23MW02D01	23MW02D	8/6/00	REDOX POTENTIAL	53		MV
S23MW02D01	23MW02D	8/6/00	SPECIFIC CONDUCTIVITY	0.119		MS/CM
S23MW02D01	23MW02D	8/6/00	TEMPERATURE	17.2		C
S23MW02D01	23MW02D	8/6/00	TURBIDITY	15		NTU
S23MW02D01	23MW02D	8/6/00	SALINTY	0		%
S23MW02D01	23MW02D	8/6/00	DISSOLVED OXYGEN	4		PPM
S23MW02D01	23MW02D	8/6/00	DIVALENT IRON	1		MG/L
S23MW02D01	23MW02D	8/6/00	CARBON DIOXIDE	25		PPM
S23MW02D01	23MW02D	8/6/00	HYDROGEN SULFIDE	0		MG/L
S23MW02D01	23MW02D	8/6/00	SULFATE	9		MG/L
S23MW02D01	23MW02D	8/6/00	MANGANESE	0		MG/L
S23MW02D01	23MW02D	8/6/00	NITRITE	0.002		MG/L
S23MW02D01	23MW02D	8/6/00	NITRATE	0.26		MG/L
S23MW03D01	23MW03D	8/6/00	PH	11.72		
S23MW03D01	23MW03D	8/6/00	REDOX POTENTIAL	-122		MV
S23MW03D01	23MW03D	8/6/00	SPECIFIC CONDUCTIVITY	1.23		MS/CM
S23MW03D01	23MW03D	8/6/00	TEMPERATURE	17.9		C
S23MW03D01	23MW03D	8/6/00	TURBIDITY	4.1		NTU
S23MW03D01	23MW03D	8/6/00	SALINTY	0.1		%
S23MW03D01	23MW03D	8/6/00	DISSOLVED OXYGEN	4		PPM
S23MW03D01	23MW03D	8/6/00	DIVALENT IRON	0		MG/L
S23MW03D01	23MW03D	8/6/00	CARBON DIOXIDE	>2500		PPM
S23MW03D01	23MW03D	8/6/00	HYDROGEN SULFIDE	0		MG/L
S23MW03D01	23MW03D	8/6/00	SULFATE	19		MG/L
S23MW03D01	23MW03D	8/6/00	MANGANESE	0		MG/L
S23MW03D01	23MW03D	8/6/00	NITRITE	0.022		MG/L
S23MW03D01	23MW03D	8/6/00	NITRATE	0.04		MG/L
S23HNUS1101	HNUS-11	8/6/00	PH	6.57		
S23HNUS1101	HNUS-11	8/6/00	REDOX POTENTIAL	-117		MV
S23HNUS1101	HNUS-11	8/6/00	SPECIFIC CONDUCTIVITY	0.764		MS/CM
S23HNUS1101	HNUS-11	8/6/00	TEMPERATURE	17		C
S23HNUS1101	HNUS-11	8/6/00	TURBIDITY	4.7		NTU
S23HNUS1101	HNUS-11	8/6/00	SALINTY	0		%
S23HNUS1101	HNUS-11	8/6/00	DISSOLVED OXYGEN	0		PPM
S23HNUS1101	HNUS-11	8/6/00	DIVALENT IRON	6.2		MG/L
S23HNUS1101	HNUS-11	8/6/00	CARBON DIOXIDE	80		PPM
S23HNUS1101	HNUS-11	8/6/00	HYDROGEN SULFIDE	0		MG/L
S23HNUS1101	HNUS-11	8/6/00	SULFATE	1		MG/L
S23HNUS1101	HNUS-11	8/6/00	MANGANESE	5.7		MG/L
S23HNUS1101	HNUS-11	8/6/00	NITRITE	0		MG/L
S23HNUS1101	HNUS-11	8/6/00	NITRATE	0		MG/L

Note: Field Dups were not taken for field Water Qualty Parameters

SAMPLE	LOCATION	SAMPLE DATE	PARAMETER	RESULT	QUAL	UNITS
S23HNUS1301	HNUS-13	8/7/00	PH	5.56		
S23HNUS1301	HNUS-13	8/7/00	REDOX POTENTIAL	122		MV
S23HNUS1301	HNUS-13	8/7/00	SPECIFIC CONDUCTIVITY	0.274		MS/CM
S23HNUS1301	HNUS-13	8/7/00	TEMPERATURE	22.9		C
S23HNUS1301	HNUS-13	8/7/00	TURBIDITY	1.1		NTU
S23HNUS1301	HNUS-13	8/7/00	SALINTY	0		%
S23HNUS1301	HNUS-13	8/7/00	DISSOLVED OXYGEN	0.1		PPM
S23HNUS1301	HNUS-13	8/7/00	DIVALENT IRON	0.7		MG/L
S23HNUS1301	HNUS-13	8/7/00	CARBON DIOXIDE	75		PPM
S23HNUS1301	HNUS-13	8/7/00	HYDROGEN SULFIDE	0		MG/L
S23HNUS1301	HNUS-13	8/7/00	SULFATE	8		MG/L
S23HNUS1301	HNUS-13	8/7/00	MANGANESE	0.5		MG/L
S23HNUS1301	HNUS-13	8/7/00	NITRITE	0		MG/L
S23HNUS1301	HNUS-13	8/7/00	NITRATE	0.05		MG/L
S23MW04S01	23MW04S	06/25,26/00	PH	6.74		
S23MW04S01	23MW04S	06/25,26/00	REDOX POTENTIAL	59		MV
S23MW04S01	23MW04S	06/25,26/00	SPECIFIC CONDUCTIVITY	0.204		MS/CM
S23MW04S01	23MW04S	06/25,26/00	TEMPERATURE	19.8		C
S23MW04S01	23MW04S	06/25,26/00	TURBIDITY	26		NTU
S23MW04S01	23MW04S	06/25,26/00	SALINTY	0		%
S23MW04S01	23MW04S	06/25,26/00	DISSOLVED OXYGEN	2		PPM
S23MW04S01	23MW04S	06/25,26/00	DIVALENT IRON	0		MG/L
S23MW04S01	23MW04S	06/25,26/00	CARBON DIOXIDE	12		PPM
S23MW04S01	23MW04S	06/25,26/00	HYDROGEN SULFIDE	0		MG/L
S23MW04S01	23MW04S	06/25,26/00	SULFATE	11		MG/L
S23MW04S01	23MW04S	06/25,26/00	MANGANESE	0.2		MG/L
S23MW04S01	23MW04S	06/25,26/00	NITRITE	0.028		MG/L
S23MW04S01	23MW04S	06/25,26/00	NITRATE	0.412		MG/L

Note: Field Dups were not taken for field Water Qualty Parameters

SITE 2 – AREA A LANDFILL AND WETLAND - GROUNDWATER SAMPLING INFORMATION

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON / AREA A
Project No.: CTO 203 5082

[ ] Domestic Well Data
[x] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: 3GW37S 04
Sample Location: 3MW37S
Sampled By: KS / FW
C.O.C. No.: 072000 04
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color	pH	S.C.	Temp.	Turbidity	DO	Eh	Salinity
Date: 7.20.00	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	mV	~~ppt~~ %
Time: 1510								
Method: Peristaltic Pump	CLEAR	6.12	0.664	16.5	1.9	1.19	50	0

PURGE DATA:

Date: 7.20.00
Method: Peristaltic Pump
Monitor Reading (ppm): 0
Well Casing Diameter & Material
Type: 2" PVC
Total Well Depth (TD): 9.45
Static Water Level (WL): 4.40
One Casing Volume(gal): 0.7
Start Purge (hrs): 1400
End Purge (hrs): 1500
Total Purge Time (min): 60
Total Vol. Purged (gal): 1.4

ROUND 4

See Attached Low Flow Purge Data Sheet
for Purge Data

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	40 ml Vial	✓
TCL SEMIVOLATILES	4° C	Qt. Amber Glass	✓
TCL PEST/PCBs	4° C	Qt. Amber Glass	✓
TCL PAH	4° C	Qt. Amber Glass	✓
TAL METALS (TOTAL) + Hardness	HNO_3 / 4° C	L PE	✓
TAL METALS (DISSOLVED)	HNO_3 / 4° C	L PE	✓
Total Organic Carbon (TOC)	HCL / 4° C	60 mL Glass	✓
Chemical Oxygen Demand (COD)	H_2SO_4 / 4° C	250 mL PE	✓
Alkalinity, Chloride, Sulfate, TDS, TSS	4° C	L PE	✓

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON / AREA A - ROUND 4
PROJECT NUMBER: CTO 203 job# 5082

WELL ID.: 3MW37S
DATE: 7.20.00

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	Eh mV	Sal. %	Comments
1405	4.68	90	6.13	0.621	19	4.69	17.7	60	0	
1413	4.69		6.10	0.664	11	1.90	16.6	53		
1420			6.11	0.668	6.9	1.55	16.5	52		
1425			6.13	0.672	5.0	1.65	16.7	47		
1430	4.68		6.13	0.674	4.1	1.64	16.5	54		
1435	4.69		6.12	0.667	2.6	1.32	16.5	51		
1440			6.13	0.665	1.3	1.20	16.5	53		
1445			6.12	0.662	1.2	1.23	16.3	56		
1450			6.12	0.663	1.7	1.16	16.5	54		
1455	4.68		6.12	0.665	2.2	1.18	16.5	51		
1500	4.68		6.12	0.664	1.9	1.19	16.5	50		

SIGNATURE(S): Kirk S. Sump

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON / AREA A
Project No.: CTO 203 5082

[ ] Domestic Well Data
[x] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: 2WGW38DS-04
Sample Location: 2WMW38DS
Sampled By: DW - RS
C.O.C. No.: 072100 04
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

Date: 7.20/21/23.00	Color	pH	S.C.	Temp.	Turbidity	DO	Eh	Salinity
Time:	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	mV	ppt
Method: Peristaltic Pump	CLEAR	6.80	1.29	14.7	1.27	2.14	-126	0.1

PURGE DATA:

Round 4

Date: 7-18-00	
Method: Peristaltic Pump	
Monitor Reading (ppm):	
Well Casing Diameter & Material	See Attached Low Flow Purge Data Sheet for Purge Data
Type: 2" PVC	
Total Well Depth (TD): 12.51	
Static Water Level (WL): 6.63	7-20-00 W.L. = 9.58 @ 0725
One Casing Volume(gal): 0.95	7-21-00 W.L. = 10.35 @ 1105
Start Purge (hrs): 0820	
End Purge (hrs): 0858	7.23.00 WL = 9.78 @ 1800 RES
Total Purge Time (min): 38	
Total Vol. Purged (gal): ~1.5	

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	40 ml Vial 0730	7-20-00
TCL SEMIVOLATILES	4° C	Qt. Amber Glass 0730	7-20-00
TCL PEST/PCBs	4° C	Qt. Amber Glass 1115	7-21-00
TCL PAH	4° C	Qt. Amber Glass 0730	7-20-00
TAL METALS (TOTAL) + Hardness	HNO_3 / 4° C	L PE	
TAL METALS (DISSOLVED)	HNO_3 / 4° C	L PE	
Total Organic Carbon (TOC)	HCL / 4° C	60 mL Glass	7-20-00
Chemical Oxygen Demand (COD)	H_2SO_4 / 4° C	250 mL PE	7-20-00
Alkalinity, Chloride, Sulfate, TDS, TSS	4° C	L PE 1800	7.23.00

OBSERVATIONS / NOTES:

Start purging with tubing ~1' above bottom
then lower to purge dry

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s): [signature] 7.23.00

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON / AREA A - ROUND 4
PROJECT NUMBER: CTO 203 job# 5082

WELL ID.: 2WMW38DS
DATE: 7-18-00

Time (Hrs)	Water Level (Ft below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	Eh ORP mV	Sal. %	Comments
0820	7.46	250	6.87	1.00		2.53	14.60	-41	0.0	Stop at 0825, attempt to decrease flow
0837	8.49	240	7.03	1.03	1.44	8.34	14.60	-54	0	0832 - reduced pumping
8.42	9.05	200	~~[illegible]~~ 6.74	1.06	1.26	2.06	14.95	-56	0	
0847	10.10	200	6.74	1.13	1.17	1.47	14.73	-68	0.1	
0852	10.83	200	6.76	1.18	1.34	1.39	14.67	-82	0.1	
0857	11.70	180	6.80	1.29	1.27	2.14	14.65	-126	0.1	0854 moved inlet to bottom
										0858 - purged Dry
										END PURGE

SIGNATURE(S): [illegible]

PAGE 2 OF 2

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON / AREA A
Project No.: CTO 203 5082

[ ] Domestic Well Data
[x] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: 2W-GW3905-04
Sample Location: AREA A
Sampled By: FCW
C.O.C. No.: 071800-04
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color	pH	S.C.	Temp.	Turbidity	DO	Eh	Salinity
Date: 7-19-00	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	mV	ppt
Time: 0742	Clear	6.85	4.69	13.1	11.5	0.70	-133	0.2
Method: Peristaltic Pump								

PURGE DATA:

Date: 7-18-00	See Attached Low Flow Purge Data Sheet for Purge Data
Method: Peristaltic Pump	
Monitor Reading (ppm):	
Well Casing Diameter & Material Type: 2" PVC	
Total Well Depth (TD): 16.70	
Static Water Level (WL): 3.36	
One Casing Volume(gal): 2.17	
Start Purge (hrs): 0736	
End Purge (hrs): 0943	
Total Purge Time (min): 127	
Total Vol. Purged (gal): 3.9	

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	3 40 ml Vial	✓
TCL SEMIVOLATILES	4° C	2 Qt. Amber Glass	✓
TCL PEST/PCBs	4° C	2 Qt. Amber Glass	✓
TCL PAH	4° C	2 Qt. Amber Glass	✓
TAL METALS (TOTAL) + Hardness	HNO_3 / 4° C	1 L PE	✓
TAL METALS (DISSOLVED)	HNO_3 / 4° C	1 L PE	✓
Total Organic Carbon (TOC)	HCL / 4° C	1 60 mL Glass	✓
Chemical Oxygen Demand (COD)	H_2SO_4 / 4° C	1 250 mL PE	✓
Alkalinity, Chloride, Sulfate, TDS, TSS	4° C	1 L PE	✓

OBSERVATIONS / NOTES:

Pump well DRY will sample on 7-19-00 if well has recharged enough

WL = 4.31' on 7-19-00

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON / AREA A - ROUND 4
PROJECT NUMBER: CTO 203 job# 5082

WELL ID.: 2WMW 3905
DATE: 7-18-00

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	Eh mV	Sal. %	Comments
0736	3.36				4.92					START PURGING
0742	4.46	120	6.97	5.71	~~9.79~~ (FCL)	1.75	13.4	-144	0.3	
0750	5.44	↓	6.92	5.09	6.72	1.14	13.8	-139	0.3	
0758	6.26		6.84	4.72	4.49	0.94	13.7	-139	0.2	
0806	6.59		6.77	3.65	4.96	0.89	13.6	-140	0.2	
0814	7.26		6.71	2.94	3.82	0.86	13.5	-136	0.1	
0821	7.92	100	6.65	2.37	3.74	0.75	13.5	-132	0.1	
0829	8.60	100	6.64	2.06	2.14	0.70	13.5	-127	0.1	Pump slowing down
0839	9.32	↓	6.65	1.92	2.93	0.67	13.8	-120	0.1	battery going dead
0848	9.88		6.63	1.96	2.40	0.95	13.8	-115	0.1	hard to change battery
0857	10.67	120	6.65	2.14	2.91	0.78	13.2	-118	0.1	
0906	11.57	↓	6.66	2.33	2.60	0.81	13.1	-119	0.1	
0916	12.43		6.69	2.75	2.78	0.83	13.2	-123	0.1	
0925	13.55		6.73	3.23	5.44	0.75	13.0	-126	0.2	
0934	14.52		6.76	3.90	4.11	0.81	13.1	-129	0.2	
0943	15.82	↓	6.85	4.69	11.5	0.70	13.1	-133	0.2	Well dry
7-19-00 0742	4.31									START Sampling
0914										End Sampling

SIGNATURE(S): [signature]

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON / AREA A
Project No.: CTO 203 5082

[ ] Domestic Well Data
[x] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: 2WGW40DS-04
Sample Location: Area A.
Sampled By: D. Whalen
C.O.C. No.: 172000 04
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA: 7/18/00

Date: 7-20-00	Color	pH	S.C.	Temp.	Turbidity	DO	Eh	Salinity
Time: 1245	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	mV	ppt
Method: Peristaltic Pump	Clear	7.13	35.5	13.86	10.66	0.64	-324	2.3

PURGE DATA:

Date: 7/18/00
Method: Peristaltic Pump
Monitor Reading (ppm):
Well Casing Diameter & Material
Type: 2" PVC
Total Well Depth (TD): 17.38
Static Water Level (WL): 3.41
One Casing Volume(gal): 2.3
Start Purge (hrs): 1006
End Purge (hrs): 1130
Total Purge Time (min): 84
Total Vol. Purged (gal): ~2.5

ROUND 4

See Attached Low Flow Purge Data Sheet for Purge Data

Purged Dry on 7-18-00.

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	3 40 ml Vial	✓
TCL SEMIVOLATILES	4° C	2 Qt. Amber Glass	✓
TCL PEST/PCBs	4° C	2 Qt. Amber Glass	✓
TCL PAH	4° C	2 Qt. Amber Glass	✓
TAL METALS (TOTAL) + Hardness	HNO_3 / 4° C	1 L PE	✓
TAL METALS (DISSOLVED)	HNO_3 / 4° C	1 L PE	✓
Total Organic Carbon (TOC)	HCL / 4° C	1 60 mL Glass	✓
Chemical Oxygen Demand (COD)	H_2SO_4 / 4° C	1 250 mL PE	✓
Alkalinity, Chloride, Sulfate, TDS, TSS	4° C	1 L PE	✓

OBSERVATIONS / NOTES:

7/19/00 1450 wl = 9.74 [illegible]
7/20/00 1225 wl = 7.43 (prior to sampling)
black fines increased as w.l. dropped during sampling.

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s): Donald Whalen

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON / AREA A - ROUND 4
PROJECT NUMBER: CTO 203 job# 5082

WELL ID.: 2WMW40DS-04
DATE: 7-18-00

Time (Hrs)	Water Level (ft below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	Eh ORP mV	Sal. %	Comments
1010	3.45	150	7.08	38.8	6.86	4.34	15.41	-320	2.5	sulfur odor
1015	5.25	130	6.95	38.7	4.70	1.02	13.98	-339	2.4	
1020	5.80	150	6.97	38.1	5.91	0.88	14.04	-341	2.4	
1025	6.62	150	6.98	37.3	7.14	0.84	14.01	-341	2.3	
1030	7.48	150	7.01	35.1	4.11	0.70	13.68	-339	2.2	
1035	8.15	150	7.00	33.1	1.87	0.70	14.29	-336	2.0	
1040	8.58	150	7.00	30.8	1.81	0.61	14.27	-332	1.9	
1045	9.45	150	7.00	28.3	1.74	0.62	14.11	-331	1.7	
1050	10.10	150	7.01	24.1	2.10	0.53	14.03	-331	1.4	
1055	10.65	↓	6.97	21.6	4.51	0.56	14.07	-335	1.3	
1100	11.36	↓	7.02	19.7	6.57	0.54	14.17	-333	1.2	
1105	12.11	↓	7.13	21.3		0.46	13.21	-333	1.3	
1110	12.88	↓	7.14	22.2	5.29	0.45	13.15	-334	1.3	
1115	13.92	↓	7.07	23.5	7.09	0.51	13.51	-336	1.4	
1120	14.81	↓	7.07	25.2	9.77	0.53	13.72	-337	1.5	
1125	15.44	↓	7.06	26.7	14.80	0.46	13.28	-337	1.6	
1130	16.10	↓	7.13	35.5	10.66	0.64	13.86	-324	2.3	DRY; End Purge

SIGNATURE(S): David W. Kalen

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON / AREA A
Project No.: CTO 203 5082

[ ] Domestic Well Data
[x] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: 2W'-GW41DS-04
Sample Location: AREA A
Sampled By: FCW'
C.O.C. No.: 07.2000-04
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color	pH	S.C.	Temp.	Turbidity	DO	Eh	Salinity
Date: 7-20-00								
Time: 0925	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	mV	~~ppt~~ %
Method: Peristaltic Pump	Clear	6.93	27.4	13.4	6.4	0.24	-349	1.7

PURGE DATA:

Date: 7-18-00	See Attached Low Flow Purge Data Sheet for Purge Data
Method: Peristaltic Pump	
Monitor Reading (ppm):	
Well Casing Diameter & Material Type: 2" PVC	
Total Well Depth (TD): 16.65	
Static Water Level (WL): 2.59	
One Casing Volume(gal): ~~3.7~~ 2.3	
Start Purge (hrs): 1006	
End Purge (hrs): 1147	
Total Purge Time (min): 101	
Total Vol. Purged (gal): 3.7	

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	3 40 ml Vial	✓
TCL SEMIVOLATILES	4° C	2 Qt. Amber Glass	✓
TCL PEST/PCBs	4° C	2 Qt. Amber Glass	✓
TCL PAH	4° C	2 Qt. Amber Glass	✓
TAL METALS (TOTAL) + Hardness	HNO_3 / 4° C	1 L PE	✓
TAL METALS (DISSOLVED)	HNO_3 / 4° C	1 L PE	✓
Total Organic Carbon (TOC)	HCL / 4° C	1 60 mL Glass	✓
Chemical Oxygen Demand (COD)	H_2SO_4 / 4° C	1 250 mL PE	✓
Alkalinity, Chloride, Sulfate, TDS, TSS	4° C	1 L PE	✓

OBSERVATIONS / NOTES:

Well DRY will sample on 7-19-00

WL = 9.60' on 7-19-00 @ 0922 not enough water to collect sample
will sample on 7-20-00
WL = 6.50' on 7-20-00 @ 920

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s): FCW

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON / AREA A - ROUND 4
PROJECT NUMBER: CTO 203 job# 5082

WELL ID.: 24MW41DS
DATE: 7-18-00

Time (Hrs)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	Eh mV	Sal. %	Comments
1006	2.59									START PURGING
1017	4.10	150	6.95	33.3	4.85	0.70	13.5	-328	2.1	
1025	5.93	↓	6.93	30.7	5.37	0.49	13.3	-332	1.9	
1034	7.21		6.89	27.2	3.70	0.65	13.6	-327	1.7	
1044	8.25	125	6.88	23.1	3.57	0.38	13.6	-329	1.4	
1053	9.22	140	6.80	19.4	~~3.95~~	0.38	13.9	-348	1.1	
1103	10.18	130	6.89	17.2	23.3/12.2	0.30	13.3	-358	1.0	
1112	11.16	140	6.89	18.1	14.0	0.25	13.0	-356	1.1	
1122	12.25	↓	6.89	20.0	8.44	0.25	13.0	-349	1.2	
1131	13.55	↓	6.94	22.5	6.44	0.22	13.0	-349	1.3	
1139	14.61	↓	6.93	24.4	7.25	0.25	13.1	-349	1.5	
1147	15.45	130	6.93	27.4	6.43	0.24	13.4	-349	1.7	well dry
7-19-00 0922	9.60									START Sampling
0925	6.50									End sampling
7-20-00 1102										

SIGNATURE(S): [illegible]

PAGE 2 OF 2

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON / AREA A
Project No.: CTO 203 5082

[ ] Domestic Well Data
[x] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: 2W-GW42DS-04
Sample Location: AREA A
Sampled By: FCW
C.O.C. No.: 072000-04
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color	pH	S.C.	Temp.	Turbidity	DO	Eh	Salinity
Date: 0725	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	mV	~~ppt~~ %
Time: 7-20-00								
Method: Peristaltic Pump	grey	7.09	31.3	12.2	20	0.31	-351	1.9

PURGE DATA:

Date: 7-19-00	See Attached Low Flow Purge Data Sheet for Purge Data
Method: Peristaltic Pump	
Monitor Reading (ppm):	
Well Casing Diameter & Material Type: 2" PVC	
Total Well Depth (TD): 16.91	
Static Water Level (WL): 2.29	
One Casing Volume(gal): 2.4	
Start Purge (hrs): 0958	
End Purge (hrs): 1153	
Total Purge Time (min): 115	
Total Vol. Purged (gal): 3.5	

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	3 40 ml Vial	✓
TCL SEMIVOLATILES	4° C	2 Qt. Amber Glass	✓
TCL PEST/PCBs	4° C	2 Qt. Amber Glass	✓
TCL PAH	4° C	2 Qt. Amber Glass	✓
TAL METALS (TOTAL) + Hardness	HNO_3 / 4° C	1 L PE	✓
TAL METALS (DISSOLVED)	HNO_3 / 4° C	1 L PE	✓
Total Organic Carbon (TOC)	HCL / 4° C	1 60 mL Glass	✓
Chemical Oxygen Demand (COD)	H_2SO_4 / 4° C	1 250 mL PE	✓
Alkalinity, Chloride, Sulfate, TDS, TSS	4° C	1 L PE	✓

OBSERVATIONS / NOTES:

Well dry will sample on on 7-19-00
WL = 4.36' on 7-20-00

Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s): FCW

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON / AREA A - ROUND 4
PROJECT NUMBER: CTO 203 job# 5082

WELL ID.: 2WMW4205
DATE: 7-19-00

	Time	Water Level	Flow	pH	S. Cond.	Turb.	DO	Temp.	Eh	Sal.	Comments
		(ft. below TOC)	(mL/Min)	(S.U.)	(mS/cm)	(NTU)	(mg/L)	(Celcius)	mV	%	
	0958	2.29									START PURGING
	1005	3.32	150	7.06	41.1	8.2	1.27	12.8	-366	2.6	
	1015	5.21	130	7.02	38.0	10	0.61	13.1	-366	2.4	
	1025	6.60	110	7.02	35.4	6.3	0.51	13.3	-364	2.2	
	1035	7.73	110	6.95	27.1	3.0	0.43	13.3	-357	1.6	
	1045	8.96	110	6.89	22.9	21	0.35	13.2	-355	1.4	
	1055	9.80	110	6.87	21.0	63	0.30	12.9	-366	1.2	
	1105	10.60	110	6.94	17.8	54	0.30	12.9	-372	1.0	
	1115	11.54	125	7.07	17.1	45	0.36	12.5	-359	1.0	
	1125	12.57	110	7.06	18.4	23	0.30	12.3	-356	1.1	
	1135	13.64	110	7.05	22.5	18	0.33	12.1	-355	1.3	
	1144	14.65	110	7.07	26.1	15.3	0.31	12.1	-356	1.6	
	1153	15.40	110	7.09	31.3	20	0.31	12.2	-351	1.9	Well dry
7-20-00	0725	4.36									START sampling
	0855										End sampling

SIGNATURE(S): [illegible]

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON / AREA A
Project No.: CTO 203 5082

[ ] Domestic Well Data
[x] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: 2W GW 43 DS-04
Sample Location: 2W MW 43DS
Sampled By: D. Whalen
C.O.C. No.: 072100 4
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA: 7/19/00 %

	Color Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	Eh mV	Salinity ~~ppt~~
Date: 7-21-00								
Time: 0750								
Method: Peristaltic Pump	Clear to Gray	6.85	40.6	11.7	50.2	0.28	-371	2.6

PURGE DATA:

ROUND 4

Date: 7-19-00	See Attached Low Flow Purge Data Sheet for Purge Data
Method: Peristaltic Pump	
Monitor Reading (ppm):	
Well Casing Diameter & Material Type: 2" PVC	
Total Well Depth (TD): 15.67	
Static Water Level (WL): 2.77	
One Casing Volume(gal): 2.1	
Start Purge (hrs): 1107	
End Purge (hrs): 1310	
Total Purge Time (min): 123	
Total Vol. Purged (gal): ~3.5	

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements		Collected
TCL VOLATILES	HCL / 4° C	3	40 ml Vial	✓
TCL SEMIVOLATILES	4° C	2	Qt. Amber Glass	✓
TCL PEST/PCBs	4° C	2	Qt. Amber Glass	✓
TCL PAH	4° C	2	Qt. Amber Glass	✓
TAL METALS (TOTAL) + Hardness	HNO_3 / 4° C	1	L PE	✓
TAL METALS (DISSOLVED)	HNO_3 / 4° C	1	L PE	✓
Total Organic Carbon (TOC)	HCL / 4° C	1	60 mL Glass	✓
Chemical Oxygen Demand (COD)	H_2SO_4 / 4° C	1	250 mL PE	✓
Alkalinity, Chloride, Sulfate, TDS, TSS	4° C	1	L PE	✓

OBSERVATIONS / NOTES:

Purged Dry on 7-19-00
7-20-00 @ 1448 WL = 6.83' TOC
7-21-00 @ 0725 WL = 4.79' (prior to sampling)
sample effervesced in VOA vials

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s): Donald Whalen

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON / AREA A - ROUND 4
PROJECT NUMBER: CTO 203 job# 5082

WELL ID.: 2WMW43D
DATE: 7-19-00

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	Eh mV	Sal. %	Comments
1110	2.77	120	6.88	46.1		8.96	14.6	-335	2.9	sulfur odor
1115	3.82		6.77	45.0	5.05	1.01	15.0	-361	2.9	
1120		120	6.78	43.8	4.87	1.19	15.2	-360	2.8	
1125	4.94		6.79	42.7	4.46	1.07	15.0	-365	2.7	
1130		120	6.81	41.8	3.44	0.83	14.7	-367	2.7	
1135	5.91		6.81	40.8	3.58	0.67	14.3	-369	2.6	
1140			6.82	40.5	3.77	0.46	14.5	-375	2.6	
1145	6.40		6.83	40.3	3.50	0.28	15.5	-390	2.6	
1150			6.84	39.5	3.58	0.65	14.7	-369	2.5	
1155	6.98		6.86	38.4	3.86	0.56	14.1	-369	2.4	
1200			6.91	36.2	3.23	0.61	13.7	-366	2.3	
1205	7.77	140	6.94	35.3	3.74	0.56	13.3	-366	2.2	pump starts - increased pump rate
1210			6.98	34.7	3.61	0.51	13.1	-364	2.2	
1215	8.80		7.01	33.9	3.44	0.38	13.0	-366	2.1	
1220			7.03	33.8	4.07	0.35	12.9	-366	2.1	
1225	9.52		6.97	33.6	5.18	0.27	12.9	-362	2.1	
1230			7.01	33.6	5.81	0.21	12.9	-363	2.1	
1235	10.64		6.95	34.8	6.42	0.32	12.8	-367	2.2	
1240			6.99	34.3	6.91	0.33	12.5	-369	2.1	
1245	11.62		6.99	34.1	7.52	0.35	12.2	-364	2.1	
1250			6.97	34.5	10.91	0.27	12.0	-366	2.1	
1255	13.02		6.96	34.9	17.10	0.30	11.9	-368	2.2	
1300			6.94	35.8	28.2	0.30	11.8	-371	2.2	
1305	14.33		6.85	37.6	41.7	0.33	11.7	-370	2.4	
1310	14.98		6.85	40.6	50.2	0.28	11.7	-371	2.6	Stop Purging - Purged Dry to pump inlet
1315										

SIGNATURE(S): Donald Wheeler

PAGE 2 of 2

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON / AREA A
Project No.: CTO 203 5082

[ ] Domestic Well Data
[x] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: 2W-GW44DS-04
Sample Location: AREA A
Sampled By: FCW
C.O.C. No.: 072000-04
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	Eh mV	Salinity ~~ppt~~ %
Date: 7-20-00								
Time: 1215								
Method: Peristaltic Pump	DRK gry	7.15	22.2	12.2	49	0.80	-325	1.3

PURGE DATA:

Date: 7-19-00	ROUND 4
Method: Peristaltic Pump	
Monitor Reading (ppm):	
Well Casing Diameter & Material Type: 2" PVC	See Attached Low Flow Purge Data Sheet for Purge Data
Total Well Depth (TD): 16.77	
Static Water Level (WL): 2.02	
One Casing Volume(gal): 2.4	
Start Purge (hrs): 1324	
End Purge (hrs): 1542	
Total Purge Time (min): 138	
Total Vol. Purged (gal): 4.0	

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	3 40 ml Vial	✓
TCL SEMIVOLATILES	4° C	2 Qt. Amber Glass	✓
TCL PEST/PCBs	4° C	2 Qt. Amber Glass	✓
TCL PAH	4° C	2 Qt. Amber Glass	✓
TAL METALS (TOTAL) + Hardness	HNO_3 / 4° C	1 L PE	✓
TAL METALS (DISSOLVED)	HNO_3 / 4° C	1 L PE	✓
Total Organic Carbon (TOC)	HCL / 4° C	1 60 mL Glass	✓
Chemical Oxygen Demand (COD)	H_2SO_4 / 4° C	1 250 mL PE	✓
Alkalinity, Chloride, Sulfate, TDS, TSS	4° C	1 L PE	✓

OBSERVATIONS / NOTES:

Purged dry on 7-19-00, will sample on 7-20-00
WL = 2.07' on 7-20-00 @ 1215

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s): FCW

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON / AREA A - ROUND 4
PROJECT NUMBER: CTO 203 job# 5082

WELL ID.: 2WMW 47DS
DATE: 7-19-00

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	Eh mV	Sal. %	Comments
1324	2.02									START PURGING
1332	3.06	125	7.05	45.9	11	1.64	13.24	-365	2.9	
1342	4.66	↓	7.07	45.6	8.2	0.60	13.2	-367	2.9	
1352	5.93	120	7.07	44.8	9.5	0.46	13.1	-372	2.9	
1402	6.77	↓	7.08	43.9	11	0.38	13.3	-376	2.8	
1412	7.38	100	7.08	41.9	23	0.35	13.3	-374	2.7	
1422	7.88	115	7.07	37.5	31	0.36	13.2	-373	2.3	
1432	8.46	100	7.08	20.5	55	0.39	13.1	-363	1.2	change battery
1442	9.35	130	7.06	18.5	57	0.43	12.9	-360	1.1	
1452	10.37	125	7.06	20.0	46	0.38	12.5	-357	1.2	
1502	11.31	120	7.07	21.2	46	0.39	12.5	-351	1.3	
1512	12.21	120	7.09	22.1	49	~~0.33~~	12.5	-343	1.3	
1522	13.05	↓	7.12	22.7	51	0.36/0.36	12.4	-340	1.4	
1532	13.80	↓	7.13	22.9	57	0.35	12.3	-336	1.4	
1542	14.92	↓	7.15	22.2	49	0.80	12.2	-325	1.3	well going dry
7-20-00 1215	2.07							~~323 Fe~~		start sampling
1346										End sampling

SIGNATURE(S): [illegible]

PAGE 2 OF 2

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON / AREA A
Project No.: CTO 203 5082

[ ] Domestic Well Data
[x] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: MW(GW)45DS-04
Sample Location: Area A
Sampled By: D. Whalen
C.O.C. No.: C720004
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA: 7/19/00

	Color	pH	S.C.	Temp.	Turbidity	DO	Eh	Salinity
Date: 7-20-00	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	mV	~~ppt~~ %
Time: 1540								
Method: Peristaltic Pump	clear	7.03	37.5	11.3	35.7	0.26	-382	2.3

PURGE DATA:

Date: 7-19-00
Method: Peristaltic Pump
Monitor Reading (ppm):
Well Casing Diameter & Material
Type: 2" PVC
Total Well Depth (TD): 16.75
Static Water Level (WL): 2.28
One Casing Volume(gal): 2.4
Start Purge (hrs): 1600
End Purge (hrs): 1745
Total Purge Time (min): 105
Total Vol. Purged (gal): ~3.5

ROUND 4

See Attached Low Flow Purge Data Sheet
for Purge Data

7-20-00 @ 1520 wl = 2.72 toc (prior to sampling)
During sampling, black fines increased as w.l. dropped.

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements		Collected
TCL VOLATILES	HCL / 4° C	3	40 ml Vial	✓
TCL SEMIVOLATILES	4° C	2	Qt. Amber Glass	✓
TCL PEST/PCBs	4° C	2	Qt. Amber Glass	✓
TCL PAH	4° C	2	Qt. Amber Glass	✓
TAL METALS (TOTAL) + Hardness	HNO_3 / 4° C	1	L PE	✓
TAL METALS (DISSOLVED)	HNO_3 / 4° C	1	L PE	✓
Total Organic Carbon (TOC)	HCL / 4° C	1	60 mL Glass	✓
Chemical Oxygen Demand (COD)	H_2SO_4 / 4° C	1	250 mL PE	✓
Alkalinity, Chloride, Sulfate, TDS, TSS	4° C	1	L PE	✓

OBSERVATIONS / NOTES:

Purged Dry on 7-19-00

Circle if Applicable:

MS/MSD —

Duplicate ID No.: —

Signature(s): Donald Whalen

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON / AREA A - ROUND 4
PROJECT NUMBER: CTO 203 job# 5082

WELL ID.: 2WMW45DS
DATE: 7-19-00

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	Eh mV	Sal. %	Comments
1600	2.28	150								Sulfur odor
1605			6.98	44.6		4.07	13.9	-373	2.9	
1610	3.78		6.95	45.3	20.7	1.21	12.7	-371	2.9	
1615	4.55		6.96	45.1	3.54	0.87	12.6	-372	2.9	
1620	~~4.55~~ 5.13		6.96	44.4		0.75	12.9	-377	2.8	
1625			6.99	43.1	1.51	0.64	12.7	-381	2.8	
1630	6.72	140	7.01	42.4		0.58	12.5	-383	2.7	
1635		140	7.04	41.1	3.70	0.45	12.4	-385	2.6	
1640	7.81	140	6.97	40.4		0.48	12.3	-380	2.5	
1645			6.98	39.2	2.99	0.46	12.2	-382	2.5	
1650	9.18		7.03	37.6		0.39	12.3	-383	2.3	
1655			7.00	30.4	4.61	0.47	12.3	-377	1.7	
1700	10.35	150	7.06	23.5	4.48	0.43	12.3	-373	1.4	
1705			7.08	21.9		0.36	12.5	-368	1.3	
1710	11.02	150	7.08	23.4	4.82	0.42	12.4	-368	1.4	
1715			7.08	24.9		0.41	12.2	-370	1.5	
1720	12.70		7.08	26.3	6.29	0.37	12.0	-372	1.6	
1725			7.08	28.1	5.28	0.35	11.9	-374	1.7	
1730	13.92		7.08	30.6	5.31	0.32	11.7	-377	1.9	
1735			7.03	33.4	5.55	0.37	11.5	-378	2.1	
1740	15.32		7.04	35.5	10.80	0.29	11.5	-381	2.2	
1745	15.99		7.03	37.5	25.7	0.26	11.3	-382	2.3	DRY; End Purge

SIGNATURE(S): Donald Whalen

PAGE 2 OF

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON / AREA A
Project No.: CTO 203 5082

[ ] Domestic Well Data
[x] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: 2W-GW46DS-04
Sample Location: 2MW46DS
Sampled By: Dinchalen
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA: 7/18/00

Date: 7-20-00	Color	pH	S.C.	Temp.	Turbidity	DO	Eh	Salinity
Time: 0915	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	mV	ppt
Method: Peristaltic Pump	Pale yellow	7.28	44.5	15.1	42.4	0.20	-363	2.8

PURGE DATA:

Date: 7/18/00
Method: Peristaltic Pump
Monitor Reading (ppm):
Well Casing Diameter & Material
Type: 2" PVC
Total Well Depth (TD): 17.32
Static Water Level (WL): 1.45
One Casing Volume(gal): 2.6
Start Purge (hrs): 1353
End Purge (hrs): 1522
Total Purge Time (min): 89
Total Vol. Purged (gal): 3

ROUND 4

See Attached Low Flow Purge Data Sheet for Purge Data

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements		Collected
TCL VOLATILES	HCL / 4° C	3	40 ml Vial	✓
TCL SEMIVOLATILES	4° C	2	Qt. Amber Glass	✓
TCL PEST/PCBs	4° C	2	Qt. Amber Glass	✓
TCL PAH	4° C	2	Qt. Amber Glass	✓
TAL METALS (TOTAL) + Hardness	HNO_3 / 4° C	1	L PE	✓
TAL METALS (DISSOLVED)	HNO_3 / 4° C	1	L PE	✓
Total Organic Carbon (TOC)	HCL / 4° C	1	60 mL Glass	✓
Chemical Oxygen Demand (COD)	H_2SO_4 / 4° C	1	250 mL PE	✓
Alkalinity, Chloride, Sulfate, TDS, TSS	4° C	1	L PE	✓

OBSERVATIONS / NOTES:

7/19/00 0740 wl = 7.79 toc
7/19/00 1500 wl = 6.14
7/20/00 0830 wl = 3.62 prior to sampling

well purged Dry on 7-18-00

Sample effervesced in VOA vials

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s): Donald Zhelen

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON / AREA A - ROUND 4
PROJECT NUMBER: CTO 203 job# 5082

WELL ID.: 2WMW46DS
DATE: 7/18/00

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	Eh ORP mV	Sal. %	Comments
1353		130	7.33	50.3		2.96	17.30	-367	3.2	sulfur odor
1358	3.10		7.13	47.1	11.6	0.68	16.83	-366	3.1	
1403			7.14	47.5		0.42	16.33	-369	3.1	
1408	4.25		7.14	47.1	3.97	0.34	16.41	-367	3.1	
1413	5.80	130	7.15	47.5	2.80	0.28	15.83	-369	3.1	
1418			7.15	47.2		0.26	15.33	-371	3.1	
1423			7.15	46.9	2.40	0.24	15.69	-375	3.1	
1428	7.95		7.11	47.0		0.26	15.86	-387	3.1	
1432	~~4.04~~		7.12	47.0		0.25	16.07	-387	3.1	
1437	9.04		7.12	44.8	6.50	0.21	17.15	-386	2.9	
1442			7.11	44.6		0.22	17.28	-382	2.9	
1447	10.50		7.14	42.9	9.91	0.21	17.61	-381	2.8	
1452			7.22	40.4		0.19	17.93	-391	2.6	
1457	12.45		7.29	41.7	30.5	0.27	16.99	-361	2.7	
1502			7.33	42.1		0.20	16.86	-363	2.7	
1507	13.60		7.33	43.3	35.3	0.19	15.68	-364	2.8	
1512			7.33	43.3	34.8	0.18	15.59	-368	2.8	
1517	15.28		7.32	43.3	37.8	0.18	15.48	-367	2.8	
1522	15.90		7.28	44.5	42.4	0.20	15.10	-363	2.8	DRY - End purge

SIGNATURE(S): David W. Kahler

PAGE 2 OF

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON / AREA A
Project No.: CTO 203 5082

[ ] Domestic Well Data
[x] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: 2W-GW47DS-04
Sample Location: AREA A
Sampled By: FCW
C.O.C. No.: 071800-04
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color	pH	S.C.	Temp.	Turbidity	DO	Eh	Salinity
Date: 7-18-00	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	mV	~~ppt~~
Time: 1600								
Method: Peristaltic Pump	Black	6.60	11.6	17.7	101	0.24	-451	0.7 %

PURGE DATA:

Date: 7-18-00
Method: Peristaltic Pump
Monitor Reading (ppm):
Well Casing Diameter & Material
Type: 2" PVC
Total Well Depth (TD): 16.20
Static Water Level (WL): 1.75
One Casing Volume(gal): 2.3
Start Purge (hrs): 1330
End Purge (hrs): 1600
Total Purge Time (min): 150
Total Vol. Purged (gal): 3.3

See Attached Low Flow Purge Data Sheet for Purge Data

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	3X 40 ml Vial	✓
TCL SEMIVOLATILES	4° C	2 X Qt. Amber Glass	✓
TCL PEST/PCBs	4° C	2X Qt. Amber Glass	✓
TCL PAH	4° C	2 X Qt. Amber Glass	✓
TAL METALS (TOTAL) + Hardness	HNO_3 / 4° C	1 L PE	✓
TAL METALS (DISSOLVED)	HNO_3 / 4° C	1 L PE	✓
Total Organic Carbon (TOC)	HCL / 4° C	1 60 mL Glass	✓
Chemical Oxygen Demand (COD)	H_2SO_4 / 4° C	1 250 mL PE	✓
Alkalinity, Chloride, Sulfate, TDS, TSS	4° C	1 L PE	✓
		2X VOL COLLECTED	
		FOR QAP	

OBSERVATIONS / NOTES:

Turbidity 69 @ 1800

Circle if Applicable:

MS/MSD —

Duplicate ID No.: GWFD071800-01

Signature(s): FCW

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON / AREA A - ROUND 4
PROJECT NUMBER: CTO 203 job# 5082

WELL ID.: 2WMW47D5
DATE: 7-18-00

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	Eh mV	Sal. %	Comments
1330	1.75									START PURGING
1337	2.90	125	7.11	42.3	103	1.00	19.8	-369	2.7	
1346	3.21	115	7.08	41.4	12.2	0.55	20.1	-369	2.7	
1356	3.66	110	7.03	39.3	6.65	0.59	20.1	-372	2.5	
1405	3.94	110	7.01	36.4	5.04	0.57	19.9	-367	2.3	
1414	4.11	120	6.99	33.8	4.55	0.37	19.7	-366	2.1	
1423	4.35	110	6.95	31.8	4.70	0.35	19.0	-360	2.0	
1433	4.45	110	6.90	29.2	4.80	0.35	19.0	-363	1.8	
1443	4.59	115	6.82	25.6	50	0.32	18.8	-381	1.6	
1452	4.67	115	6.73	22.3	133	0.28	18.9	-437	1.3	
1502	4.80	100	6.68	18.5	131	0.29	18.8	-461	1.1	
1512	4.92	100	6.70	15.2	115	0.24	18.6	-468	0.9	
1523	5.04	90	6.66	14.0	101	0.23	18.5	-475	0.8	
1532	5.09	100	6.66	13.2	112	0.24	18.4	-475	0.8	
1542	5.14	100	6.64	12.7	123	0.23	17.9	-468	0.7	10235
1552	5.17	100	6.60	12.0	100	0.24	17.8	-459	0.7	
1600	5.20	100	6.60	11.6	101	0.24	17.7	-451	0.7	START sampling
1907										End sampling

SIGNATURE(S): [illegible]

PAGE 2 OF 2

SITE 3 – AREA A DOWNSTREAM WATERCOURSES AND OBDA-GROUNDWATER SAMPLING INFORMATION

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data TW
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: S3TW0101
Sample Location: 3TW01
Sampled By: K. SIMPSON
C.O.C. No.: 060800-1
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 6·10·00								
Time: 1555								
Method: PERISTALTIC	CLEAR	5.70	0.367	12.1	0.1	1.84	7	0

PURGE DATA:

Date: 6·10·00
Method: PERISTALTIC
Monitor Reading (ppm): 0
Well Casing Diameter & Material
Type: 1¼" OD PVC
Total Well Depth (TD): 16.65 BGS
Static Water Level (WL): 10.30 BGS
One Casing Volume(gal):
Start Purge (hrs): 1518
End Purge (hrs): 1553
Total Purge Time (min): 35
Total Vol. Purged (gal): 2.8

See Attached Low Flow Purge Data Sheet for Purge Data

TW

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	40 ml Vial	✓

OBSERVATIONS / NOTES:

TW 1" ID = 0.082 GAL/FT

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s): K. S. Simp

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: 3TW01
DATE: 6.10.00

Time (Hrs.)	Water Level (Ft. below ~~TOC~~)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. % ~~PPT.~~	Comments
1523	10.33	260	5.89	0.377	52	2.36	12.6	-7	0	NO, ODOR, CLEAR
1530		300	5.79	0.371	7.8	2.06	12.2	4	0	NO FREE PRODUCT
1535			5.76	0.368	1.5	1.76	12.2	5	0	
1540			5.73	0.369	0.5	1.81	12.0	4	0	BRIGHT SUN, TEMP
1548			5.71	0.368	0.6	1.95	12.0	5	0	IS A FEW DEGREES
1553			5.70	0.367	0.1	1.84	12.1	7	0	ELEVATED
										END PURGE

SIGNATURE(S): [illegible]

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data TW
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: S3TW0401
Sample Location: 3TW4
Sampled By: R. SIMPSON
C.O.C. No.: 060800-1
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 6·10·00								
Time: 1450								
Method: PERISTALTIC	CLEAR	6.00	0.432	13.2	0.1	6.09	104	0

PURGE DATA:

Date:
Method: PERISTALTIC
Monitor Reading (ppm): 0
Well Casing Diameter & Material Type: 1/4" OD PVC
Total Well Depth (TD): 14.90 BGS
Static Water Level (WL): 8.00
One Casing Volume(gal):
Start Purge (hrs): 1423
End Purge (hrs): 1457
Total Purge Time (min): 55
Total Vol. Purged (gal): 4.4

See Attached Low Flow Purge Data Sheet for Purge Data

TW

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	40 ml Vial	✓

OBSERVATIONS / NOTES:

ALL MEASURMENTS ARE BGS

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s): R. E. Simpson

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: 3TW4
DATE: 6.10.00

Time (Hrs.)	Water Level (Ft. below ~~TOC~~)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. % ~~PPT.~~	Comments
1427	8.00	360	6.03	0.451	91	9.10	13.2	120	0	NO ODOR, NO
1435	↓	300	6.04	0.435	10	6.22	13.3	95	0	FREE PRODUCT
1440	↓	↓	6.01	0.433	3.7	6.17	13.1	95	0	CLEARING AFTER
1445	↓	↓	5.99	0.435	2.1	5.99	13.0	96	0	5 MIN.
1450	↓	↓	5.99	0.431	0.6	6.00	13.1	98	0	
1455	↓	↓	6.00	0.432	0.1	6.09	13.2	104	0	
										END PURGE

SIGNATURE(S): Kirk S. Simpson

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data TW
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: S3TW1001
Sample Location: 3TW10
Sampled By: K. SIMPSON
C.O.C. No.: 0608W-1
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color	pH	S.C.	Temp.	Turbidity	DO	ORP	Salinity
Date: 6.10.00	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	mV	%
Time: 1645								
Method: PERISTALTIC	CLEAR	5.94	0.332	12.3	0	7.69	348	0

PURGE DATA:

Date: 6.10.00
Method: PERISTALTIC
Monitor Reading (ppm): 0
Well Casing Diameter & Material Type: 1/4" OD PVC
Total Well Depth (TD): 24.0 BGS
Static Water Level (WL): 21.65 BGS
One Casing Volume(gal):
Start Purge (hrs): 1609
End Purge (hrs): 1643
Total Purge Time (min): 34
Total Vol. Purged (gal): 2.2

See Attached Low Flow Purge Data Sheet for Purge Data

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	40 ml Vial	✓

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s): K. E. Simpson

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: 3TW10
DATE: 6.10.00

Time (Hrs.)	Water Level (Ft. below ~~TOC~~)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. % ~~PPT.~~	Comments
1613	21.85	240	6.04	0.328	1.3	9.41	12.3	266	0	
1620	↓	↓	5.99	0.333	0	8.23	12.6	319	0	
1625			5.97	0.332	0	7.69	12.6	332	0	
1630			5.97	0.332	0	7.71	12.4	338	0	
1635			5.95	0.332	0	7.76	12.4	345	0	
1640			5.94	0.332	0	7.69	12.3	348	0	
										END PURGE

SIGNATURE(S): Kirk S Simpson

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data TW
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: S3TW15 01
Sample Location: SITE 3
Sampled By: K. SIMPSON
C.O.C. No.: 060800-1
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color	pH	S.C.	Temp.	Turbidity	DO	ORP	Salinity
Date: 6.9.00	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	mV	%
Time: 1035								
Method: BAILER	LT BRN	6.30	0.371	13.3	45	9.70	143	0

PURGE DATA:

Date: 6.9.00
Method: BAILER
Monitor Reading (ppm): 0
Well Casing Diameter & Material Type: 1" ID PVC
Total Well Depth (TD):
Static Water Level (WL): 24.27
One Casing Volume(gal): 26.65
Start Purge (hrs): NA
End Purge (hrs): NA
Total Purge Time (min):
Total Vol. Purged (gal):

See Attached Low Flow Purge Data Sheet for Purge Data

NO PURGE, NO FREE PRODUCT NOTED

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	40 ml Vial	

OBSERVATIONS / NOTES:

TO DEEP FOR PUMP, USED SMALL BAILER (0.66" OD)

REMOVED 1 PINT WITH BAILER FOR PARAMETERS THEN FILLED VOC

Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s): K. Simpson

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data TW
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: S3TW1701
Sample Location: SITE 3
Sampled By: K. SIMPSON
C.O.C. No.: 060800-1
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 6.9.00								
Time: 1550								
Method: PERISTALTIC	CLEAR	6.26	0.429	13.6	0.2	6.87	249	0

PURGE DATA:

Date: 6.9.00
Method: PERISTALTIC
Monitor Reading (ppm): 0
Well Casing Diameter & Material
Type: 1¼" PVC
Total Well Depth (TD): 12.10 BGS
Static Water Level (WL): 11.31 BGS
One Casing Volume(gal):
Start Purge (hrs): 15:15
End Purge (hrs): ~~1447~~ 1547
Total Purge Time (min):
Total Vol. Purged (gal):

See Attached Low Flow Purge Data Sheet for Purge Data

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	40 ml Vial	✓

OBSERVATIONS / NOTES:

TW 1" ID = 0.082 GAL/FT

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s): K. S. Simpson

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: 3TW17
DATE: 6·9·00

Time (Hrs.)	Water Level (Ft. below ~~TOC~~ BGS)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. % ~~PPT.~~	Comments
1520	11.26	300	6.32	0.428	9.5	6.78	13.8	199	0	CLEAR, NO ODOR
1528	11.25	↓	6.29	0.428	4.2	7.04	13.8	216	0	
1534	11.25	↓	6.28	0.428	1.1	6.94	13.7	231	0	
1540	11.25	↓	6.26	0.429	0.3	7.00	13.6	241	0	
1546	11.25	↓	6.26	0.429	0.2	6.87	13.6	249	0	
										END PURGE
										NO FREE PRODUCT

SIGNATURE(S): Kirk S. Sugi

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data TW
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: S3TW2201
Sample Location: SITE 3
Sampled By: K. SIMPSON
C.O.C. No.: 060800-1
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color	pH	S.C.	Temp.	Turbidity	DO	ORP	Salinity
Date: 6.9.00	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	mV	%
Time: 1440								
Method: PERISTALTIC	CLEAR	6.00	0.243	10.9	4.6	2.63	-274	0

PURGE DATA:

Date: 6-9-00	See Attached Low Flow Purge Data Sheet for Purge Data
Method: PERISTALTIC	
Monitor Reading (ppm): 0	
Well Casing Diameter & Material Type: 1/4 OD PVC	
Total Well Depth (TD): 11.80 - BGS	
Static Water Level (WL): 8.00 - 7.00 BGS; 8.00 TOPVC	
One Casing Volume(gal):	
Start Purge (hrs): 1346	
End Purge (hrs): 1438	
Total Purge Time (min):	
Total Vol. Purged (gal):	

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	40 ml Vial	✓
		12; 40 ML VIALS COLLECTED	

OBSERVATIONS / NOTES:

STICK-UP = 1.00'

TW

Circle if Applicable:

MS/MSD	Duplicate ID No.:
YES	FD 060900 1

Signature(s): [illegible]

10.35

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: S3 TW 22
DATE: 6.9.00

Time (Hrs.)	Water Level BGS (Ft. below ~~TOC~~)	Flow (mL/Min.)	pH (S.U.)	S. Cond. µmS/CM ~~(mS/cm)~~	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. % ~~PPT.~~	Comments
1350	9.01	600	5.91	0.206	260	3.78	12.0	-339	0	LT BRN, NO ODOR
1400	8.73	300	5.95	0.221	75	2.57	11.4	-380	0	
1405	8.94		5.97	0.232	20	2.76	11.3	-377	0	CLEANED CELL
1410	8.97		5.99	0.235	34	3.29	11.0	-344	0	CLEAR
1415	8.99		5.97	0.237	21	2.50	11.0	-326	0	
1420	9.00		5.95	0.238	8.8	2.55	10.9	-290	0	
1428	9.01		5.93	0.240	4.3	2.59	11.0	-279	0	
1435	9.02		6.00	0.243	4.6	2.63	10.9	-274	0	
										END PURGE
										START SAMPLING
										NO FREE PRODUCT

SIGNATURE(S): [illegible]

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data TW
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: S3TW2501
Sample Location: 3TW25
Sampled By: K. SIMPSON
C.O.C. No.: 060800-1
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

Date: 6 11 00	Color	pH	S.C.	Temp.	Turbidity	DO	ORP	Salinity
Time: 1130	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	mV	%
Method: PERISTALTIC	CLEAR	5.91	0.224	13.5	4.9	1.05	-376	0

PURGE DATA:

Date: 6.11.00	See Attached Low Flow Purge Data Sheet for Purge Data
Method: PERISTALTIC	
Monitor Reading (ppm): 0	
Well Casing Diameter & Material Type: 1/4 OD PVC	
Total Well Depth (TD): 7.80 BGS	
Static Water Level (WL): 3.66	
One Casing Volume(gal):	
Start Purge (hrs): 1040	
End Purge (hrs): 1128	
Total Purge Time (min):	
Total Vol. Purged (gal):	

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	40 ml Vial	✓

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s): K. S. Simpson

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: 3 TW 25
DATE: 6-11-00

Time (Hrs.)	Water Level (Ft. below ~~TOC~~ BGS)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. % ~~PPT.~~	Comments
1045	5.41	350	5.62	0.253	628	3.28	14.3	-382	0	
1055	5.33	250	5.52	0.236	45	1.36	13.4	-421	0	CLEANED CELL
1100	↓	↓	5.48	0.229	12	1.41	13.4	-397	0	
1105			5.47	0.228	10	1.13	13.5	-400	0	
1110			5.44	0.227	8.9	1.05	13.4	-400	0	
1115			5.43	0.226	6.1	0.99	13.5	-382	0	
1120			5.42	0.226	4.7	1.05	13.5	-375	0	NO ODOR
1125	↓	↓	5.41	0.224	4.9	1.05	13.5	-376	0	NO FREE PRODUCT
										END PURGE

SIGNATURE(S): [illegible]

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: 53 MW145 01
Sample Location: 3 MW145
Sampled By: RS - FW
C.O.C. No.: 072400 1
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color	pH	S.C.	Temp.	Turbidity	DO	ORP	Salinity
Date: 7-25-00	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	mV	%
Time: 1440								
Method: GRUNDFOS	CLEAR	6.19	0.316	15.1	3.6	8.79	69	0

PURGE DATA:

Date: 7-25-00
Method: GRUNDFOS
Monitor Reading (ppm):
Well Casing Diameter & Material
Type: 2" PVC
Total Well Depth (TD): 37.50
Static Water Level (WL): 32.20
One Casing Volume(gal):
Start Purge (hrs): 1326
End Purge (hrs):
Total Purge Time (min):
Total Vol. Purged (gal):

See Attached Low Flow Purge Data Sheet for Purge Data

"NEW" FLUSH MT.

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	40 ml Vial	
		SEE COC	

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: 3MW14S
DATE: 7-25-00

32.20 START

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. % ~~PPT.~~	Comments
1328	32.20	760	7.53	0.312	280	10.9	13.7	-131	0	LT. BRN · NO ODOR
1335		590	6.73	0.306	50	8.75	14.7	-108	0	
1340		590	6.45	0.311	20	8.74	15.0	-74		CLEARING
1345		560	6.27	0.312	15	8.96	15.0	-34		
1350		485	6.19	0.312	9.7	8.96	15.1	-7		
1355		480	6.15	0.313	7.2	8.91	15.1	19		
1400		490	6.14	0.313	6.3	8.90	15.1	35		GRUNDFOS PUMP
1405		370	6.15	0.314	3.7	8.95	15.1	46		WILL NOT HOLD A STEADY
1410		220	6.16	0.314	6.0	9.01	15.1	46		RATE.
1415		200	6.16	0.309	13	8.95	15.2	45		
1420		620	6.21	0.319	11	10.03	14.9	63		
1425		490	6.18	0.317	5.2	9.71	14.9	66 ~~6.8~~		
1430		470	6.19	0.315	4.3	8.76	15.1	67		END PURGE
1435		475	6.19	0.316	3.6	8.78	15.1	68		

SIGNATURE(S): [illegible]

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

S32DMW10D01

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: S32DMW10D01
Sample Location: MW10D
Sampled By: Chuck Meyer
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 8/2/00								
Time: 1555								
Method: Redriflow Pump	Lt Brown Tint	6.43	0.298	15.9	39	0.26	-116	0.0

PURGE DATA:

Date: 8/2/00
Method: Redriflow Pump
Monitor Reading (ppm): 0.0
Well Casing Diameter & Material
Type: 6" steel
Total Well Depth (TD): 28.10
Static Water Level (WL): 4.61
One Casing Volume(gal):
Start Purge (hrs): 1725
End Purge (hrs): 1853
Total Purge Time (min): 88
Total Vol. Purged (gal): 3.0

See Attached Low Flow Purge Data Sheet for Purge Data

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	40 ml Vial	3
TCL SVOC + PAH	4°C	1 Liter Amber	1
TCL Pesticide	4°C	1 Liter Amber	1
TAL Metals + Hardness	HNO_3	500 ml Poly	1
Dissolved Metals	HNO_3	500 ml Poly	1
TSS, TDS, chloride sulfate	4°C	1 Liter Poly	1
Ethane, Ethene, Methane	HCl	40 ml VOA Vial	3
TOC Ammonia	H_2SO_4	1 Liter Poly	1
Sulfate	NaOH + ZN Ac	1 Liter Poly	1
		SEE COC	

OBSERVATIONS / NOTES:

Pump set at 23 feet BTOC

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: 20MW10D
DATE: 8/2/00

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. % ~~PPT.~~	Comments
1725	9.61	375	6.37	0.309		3.14	15.4	-101	0.0	
1730	9.99	180	6.40	0.309	80	1.30	15.2	-102	0.0	
1735	10.07	100	6.41	0.311	70	0.49	15.2	-104	0.0	
1740	10.09	75	6.41	0.309	55	0.43	15.9	-107	0.0	
1745	10.14	150	6.41	0.309	50	0.40	16.1	-109	0.0	
1750	10.17	150	6.42	0.306	50	0.32	15.8	-110	0.0	
1755	10.19	125	6.42	0.307	45	0.36	16.4	-111	0.0	
1800	10.23	150	6.43	0.307	40	0.38	16.0	-112	0.0	
1805	10.28	125	6.43	0.303	40	0.38	15.6	-113	0.0	
1810	10.27	125	6.42	0.304	38	0.31	15.6	-113	0.0	
1815	10.28	125	6.42	0.302	39	0.36	15.8	-114	0.0	
1820	10.28	125	6.43	0.302	38	0.31	15.5	-115	0.0	
1825	10.28	125	6.42	0.298	36	0.27	16.3	-116	0.0	
1830	10.28	125	6.43	0.299	35	0.33	16.3	-116	0.0	
1835	10.28	125	6.44	0.298	37	0.27	15.9	-116	0.0	
1840	10.29	125	6.44	0.297	34	0.25	15.6	-116	0.0	
1845	10.29	125	6.43	0.299	38	0.28	15.9	-116	0.0	
1850	10.30	125	6.43	0.298	39	0.26	15.9	-116	0.0	
1853	Purging was complete after removing 3 gallons from the well									
1855	Sample S320MW10D1 was collected by CM									

SIGNATURE(S): [illegible] FOR CM

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: S32DMW11S01
Sample Location: 20MW11S
Sampled By: CHUCK M.
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color	pH	S.C.	Temp.	Turbidity	DO	ORP	Salinity
Date: 8/5/00	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	mV	%
Time: 0925								
Method: Peristaltic Straw	CLEAR	6.32	0.661	13.5	2.3	0.85	162	0.0

PURGE DATA:

Date: 8/5/00	See Attached Low Flow Purge Data Sheet for Purge Data
Method: Peristaltic	
Monitor Reading (ppm):	
Well Casing Diameter & Material Type: 2" PVC	
Total Well Depth (TD): 14.10	
Static Water Level (WL): 1.46	
One Casing Volume(gal):	
Start Purge (hrs): 0810	
End Purge (hrs): 0920	
Total Purge Time (min): 70	STICK-UP
Total Vol. Purged (gal): 2.5	NO LOCK ON WELL

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	40 ml Vial	3
TCL SVOC/PAH	4°C	Liter Amber	2
TCL Pest	4°C	Liter Amber	1
TAL Metals	HNO_3/4°C	500ml Poly	1
Ethane Ethene Methane	HCl/4°C	40ml VOA Vial	3
TOC Ammonia	H_2SO_4	1 Liter Poly	1
TSS, TSD, Alk Sulfate Chloride	4°C	1 Liter Poly	1
Sulfide	NaOH Zinc Acc	250ml poly	1
		SEE COC	

OBSERVATIONS / NOTES:

Circle If Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s): [signature]

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: 2DMW11S
DATE: 815100

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. % ~~PPT.~~	Comments
0810	1.96	400	6.20	0.680		3.32	12.8	202	0.0	
0815	2.25	135	6.27	0.668	8.1	2.34	13.6	192	0.0	
0820	2.24	135	6.28	0.667	9.4	2.46	13.6	187	0.0	
0825	2.18	170	6.29	0.662	6.7	1.98	13.7	182	0.0	
0830	2.18	150	6.29	0.660	7.6	1.99	13.9	178	0.0	
0835	2.18	150	6.29	0.664	5.6	1.51	13.7	174	0.0	
0840	2.20	150	6.29	0.663	5.8	1.42	13.7	173	0.0	
0845	2.20	150	6.30	0.660	4.3	1.24	13.7	170	0.0	
0850	2.20	150	6.30	0.660	5.1	1.42	13.7	169	0.0	
0855	2.20	150	6.31	0.660	3.8	1.07	13.6	167	0.0	
0900	2.20	150	6.31	0.659	4.0	1.12	13.7	165	0.0	
0905	2.20	150	6.31	0.659	4.1	0.96	13.7	164	0.0	
0910	2.20	150	6.31	0.660	2.9	0.91	13.5	163	0.0	
0915	2.20	150	6.32	0.661	2.3	0.88	13.5	162	0.0	
0920	Purging complete after removing 2.5 gallons from the well. The water was clear with no odors									
0925	Sample #32DMW11S was collected by CM from the discharge of the peristaltic and using the straw method for VOA methane Ethane Ethene									
1005	sampling was completed									

SIGNATURE(S): [signature]

PAGE 2 OF ___

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON / AREA A
Project No.: CTO 203 5082

[ ] Domestic Well Data
[x] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: 3GW12D-04
Sample Location: AREA A
Sampled By: FW/KGS
C.O.C. No.: 072000 4
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color	pH	S.C.	Temp.	Turbidity	DO	Eh	Salinity
Date: 7.20.00	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	mV	~~ppt~~ %
Time: 1510								
Method: Peristaltic Pump	CLEAR	6.57	3.38	14.2	0	0.68	-160	0.2

PURGE DATA:

Date: 7-20-00
Method: Peristaltic Pump
Monitor Reading (ppm): 0
Well Casing Diameter & Material
Type: 2" PVC
Total Well Depth (TD): 27.50
Static Water Level (WL): 0.60
One Casing Volume(gal): 17.5
Start Purge (hrs): 1700
End Purge (hrs): 1805
Total Purge Time (min): 65
Total Vol. Purged (gal): 1.7

ROUND 4

See Attached Low Flow Purge Data Sheet for Purge Data

FOSTER WHEELER WORKING IN AREA
WELL 12S DESTROYED AND SURFACE REGRADED
(≈3' ABOVE TOP OF STICK-UP)

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	40 ml Vial	✓
TCL SEMIVOLATILES	4° C	Qt. Amber Glass	✓
TCL PEST/PCBs	4° C	Qt. Amber Glass	✓
TCL PAH	4° C	Qt. Amber Glass	✓
TAL METALS (TOTAL) + Hardness	HNO_3 / 4° C	L PE	✓
TAL METALS (DISSOLVED)	HNO_3 / 4° C	L PE	✓
Total Organic Carbon (TOC)	HCL / 4° C	60 mL Glass	✓
Chemical Oxygen Demand (COD)	H_2SO_4 / 4° C	250 mL PE	✓
Alkalinity, Chloride, Sulfate, TDS, TSS	4° C	L PE	✓

OBSERVATIONS / NOTES:

4" STEEL RISER

CLEAR SAMPLE WITH A TRACE BLACK FINES, 0 TURB.

4" = .653 GAL/FT

Circle if Applicable:

MS/MSD — Duplicate ID No.:

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON / AREA A - ROUND 4
PROJECT NUMBER: CTO 203 job# 5082

WELL ID.: 3GW121D - 04
DATE: 7.20.00

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	Eh mV	Sal. %	Comments
1709	0.70	100	6.59	3.38	2.1	3.16	15.7	-155	0.2	
1717			6.59	3.40	0.3	1.73	14.4	-156		
1723			6.61	3.39	0.1	1.55	14.4	-158		
1729			6.60	3.39		1.40	14.4	-160		
1735			6.61	3.39		1.27	14.4	-161		
1741			6.60	3.39	0	1.10	14.4	-160		
1748			6.58	3.39		0.92	14.2	-157		
1754			6.58	3.39		0.80	14.2	-157		
1800			6.58	3.38		0.70	14.2	-159		
1805			6.57	3.38		0.68	14.2	-160		
						0.70	14.2			

SIGNATURE(S): [illegible]

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: S32DMW15D
Sample Location: 2DMW15D
Sampled By: DW
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 8/2/00								
Time: 1937								
Method: Grundfos	Lorange	5.98	0.460	16.32	42	0.39	-42	0

PURGE DATA:

Date: 8/2/00
Method: Grundfos
Monitor Reading (ppm):
Well Casing Diameter & Material
Type: 6" steel
Total Well Depth (TD): 21.8'
Static Water Level (WL): 6.88
One Casing Volume(gal): 22
Start Purge (hrs): 1700
End Purge (hrs): 1930
Total Purge Time (min): 150
Total Vol. Purged (gal): 14

See Attached Low Flow Purge Data Sheet for Purge Data

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4°C	40 ml Vial	✓
TCL SVOC/PAH	4°C	1l	✓
TCL PEST	4°C	1l	✓
TAL metals/hardness	HNO_3	500 ml	✓
Ethane ethene methane	HCl	40 ml	✓
sulfide	NaOH, ZnAc	1l	✓
TOC, ammonia	H_2SO_4	1l	✓
TSS, TDS, alkalinity, sulfate, chloride	4°C	1l	✓
		SEE COC ALSO	

OBSERVATIONS / NOTES:

pump set at 17' below TOC

Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s): Donald W. Kalen

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: 2D MW 15D
DATE: 8/2/00

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. % ~~PPT.~~	Comments
1700	6.80	240								Start Purge
1705	7.05		6.46	0.571	295	1.63	15.27	-153	0	orange color
1710	7.25	170	6.53	0.560		0.90	15.82	-158	0	
										turn off pump, switch generators w/ CM
1720	7.54	180	6.42	0.566	290	4.42	16.14	-171	0	
1725			6.50	0.557	282	0.99	15.63	-159	0	
1730	7.89	150	6.49	0.549	252	0.68	16.15	-160	0	
1735	8.04		6.48	0.550		0.44	16.38	-171	0	
1740	8.14	130	6.48	0.545	224	0.46	16.67	-174	0	
		2500								turn up pump rate
1745	9.10	↓								to drawdown water to establish
1750	10.85	↓								equilibrium
1755	12.24	120								
1800	12.15		6.39	0.550	128	2.13	16.30	-134	0	
1805	12.03		6.37	0.545	115	0.78	16.39	-142	0	
1810	11.94	230	6.38	0.539	111	0.62	16.53	-142	0	
1815	11.88		6.41	0.531	104	0.48	16.28	-140	0	
1820	11.83	270	6.39	0.527	97.2	0.49	16.20	-135	0	
1825	11.76	170	6.37	0.517	91	0.45	16.29	-126	0	
1830	11.63	170	6.38	0.507	85	0.44	16.96	-124	0	
1840	11.45	210	6.25	0.500	80	0.48	17.29	-102	0	
1850	11.25	220	6.18	0.488	65	0.39	16.73	-85	0	
1855	11.21	230	6.14	0.483	63	0.41	16.77	-77	0	
1900	11.17	230	6.10	0.479	61	0.40	16.59	-69	0	
1905	11.13	240	6.06	0.474	60	0.36	16.48	-61	0	
1910	11.10	250	6.05	0.471	52	0.35	16.31	-57	0	
1915	11.09	250	6.02	0.468	50	0.34	16.25	-53	0	
1920	11.08	260	6.00	0.467	48	0.40	16.30	-49	0	
1925	11.07	260	5.99	0.463	44	0.43	16.29	-45	0	
1930	11.08	260	5.98	0.460	42	0.39	16.32	-42	0	END PURGE

SIGNATURE(S): [illegible]

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: 532DMW16S01
Sample Location: 2DMW16S
Sampled By: D. Whalen
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 7-31-00								
Time: 1650								
Method: 2" Redi Flo	clear	6.65	0.502	17.5	3.51	0.39	-68	0.0

PURGE DATA:

Date: 7-31-00
Method: 2" Redi-Flo
Monitor Reading (ppm):
Well Casing Diameter & Material
Type: 2" PVC
Total Well Depth (TD): 13.3'
Static Water Level (WL): 3.90'
One Casing Volume(gal): 1.5
Start Purge (hrs): 1540
End Purge (hrs): 1645
Total Purge Time (min): 65
Total Vol. Purged (gal):

See Attached Low Flow Purge Data Sheet for Purge Data

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	40 ml Vial	✓
TCL SVOC / PAH	4°C	2x 1l	✓
TCL Pest	4°C	1l	✓
TAL metals / hardness	HNO_3 / 4°C	500 ml	✓
Ethene ethane methane	HCl / 4°C	40 ml	✓
sulfide	NaOH ZnAc	1l	✓
TOC, ammonia	H_2SO_4	1l	✓
TSS, TDS, alkalinity, sulfate, chloride	4°C	1l	✓
DIS. METALS			
		SEE COC	

OBSERVATIONS / NOTES:

Fe^{+2} = 0.8
DO = 0.3
SO_2 = 0.0
CO_2 = 32 ppm

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s): Donald Whalen

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: 2D MW16S
DATE: 7-31-00

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. % ~~PPT.~~	Comments
1540	3.90	320								Start Purge
1545	3.98	100	6.51	0.488	31.7	2.26	16.2	6	0.0	
1550	4.11		6.54	0.490		0.79	17.0	-24	0.0	
1555	4.13	110	6.58	0.494	9.65	0.44	17.3	-44	0.0	
1600	4.09	100	6.59	0.495	6.29	0.58	17.4	-51	0.0	
1605	4.03		6.62	0.498	5.72	0.45	17.5	-57	0.0	
1610	4.06		6.62	0.498	4.47	0.52	17.7	-59	0.0	
1615	4.07		6.63	0.500	3.79	0.48	17.8	-61	0.0	
1620	4.07		6.64	0.505	2.59	0.40	17.8	-62	0.0	
1625	4.08		6.65	0.499	2.58	0.31	17.6	-63	0.0	
1630	4.08		6.64	0.502	2.52	0.39	17.7	-63	0.0	
1635	4.08		6.65	0.500	2.89	0.38	17.3	-60	0.0	
1640	4.08		6.64	0.502	3.42	0.35	17.5	-65	0.0	
1645	4.08		6.65	0.502	3.51	0.39	17.5	-68	0.0	End Purge

SIGNATURE(S): Donald Kaber

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: S32DMW16D01
Sample Location: 20MW16D
Sampled By: Chuck Meyer
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 7/31/00								
Time: 1925								
Method: Rediflow Pump	Clear	7.01	2.77	12.80	30	0.36	-226	0.1

PURGE DATA: Light Brown

Date: 7/31/00	See Attached Low Flow Purge Data Sheet for Purge Data
Method: Red. flow Pump	
Monitor Reading (ppm): 0.0	
Well Casing Diameter & Material Type: 6" Steel	
Total Well Depth (TD): 62.00	
Static Water Level (WL): 3.88	
One Casing Volume(gal):	
Start Purge (hrs): 1720	
End Purge (hrs): 1923	
Total Purge Time (min): 123	
Total Vol. Purged (gal): 15.0	

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	40 ml Vial	
Ethane, Ethene, Methane	HCL/4°C	40ml Vial	
TCL SVOC PAH	4°C	1 Liter Amber	
TCL Pesticide	4°C	1 Liter Amber	
TAL Metals + Hardness	HNO_3	500ml Poly	
TDS, TSS Alkalinity Sulfate Chloride	4°C	1 Liter Poly	
TOC, Ammonia	H_2SO_4/4°C	1 Liter Poly	
Sulfide	NaOH/ZN acetate	1 Liter Poly	
		SEE COC	

OBSERVATIONS / NOTES:

Pump set at 52.00 feet

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s): [signature]

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: 2D MW16D
DATE: 7/31/00

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. % ~~PPT.~~	Comments
1720	3.72	90	6.75	2.72	52	0.20	13.78	-233	0.1	
1725	3.99	90	7.04	2.68	41	0.65	14.26	-245	0.1	
1730	4.29	90	6.99	2.75	36	0.65	13.97	-250	0.1	
1735	4.49	90	7.05	2.75	34	0.39	13.84	-250	0.1	
1740	4.59	90	7.06	2.74	34	0.40	14.05	-262	0.1	
1745	4.67	90	7.07	2.76	33	0.30	13.80	-263	0.1	
1750	4.78	90	7.09	2.77	33	0.27	13.75	-265	0.1	
1755	4.88	100	7.09	2.77	32	0.28	13.64	-264	0.1	
1800	4.96	90	7.09	2.77	32	0.27	13.53	-264	0.1	
1805	5.08	100	7.10	2.76	32	0.26	13.50	-266	0.1	
1810	5.13	90	7.11	2.77	32	0.26	13.48	-268	0.1	
1815	5.16	90	7.10	2.76	31	0.26	13.50	-268	0.1	
1820	5.24	90	7.10	2.76	32	0.25	13.65	-268	0.1	
1825	5.32	90	7.10	2.76	31	0.26	13.68	-268	0.1	
1830	5.41	90	7.10	2.76	31	0.26	13.72	-268	0.1	
1835	5.47	90	7.10	2.75	31	0.25	13.72	-268	0.1	
1840	5.57	90	7.10	2.75	31	0.25	13.72	-268	0.1	
1843	The well was disconnected and the flow rate was increased to 3 liters to bring more volume out of the well									
1900	8.53	300	6.85	2.80	31	1.87	13.02	-200	0.1	
1905	8.23	460	6.96	2.78	30	0.46	12.87	-217	0.1	
1910	8.18	460	6.97	2.77	30	0.37	12.77	-224	0.1	
1915	8.11	460	6.98	2.77	30	0.37	12.79	-228	0.1	
1920	8.08	460	7.01	2.77	30	0.36	12.80	-226	0.1	
1923	Purging was complete after removing 15 gallons from the well									
1925	Sample S32DMW16D01 was begun by CM the water was clear with no odors									
1950	Sampling was complete									

SIGNATURE(S): [illegible] FOR C.M.

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: S320MW23D01
Sample Location: 2DMW23D
Sampled By: KS / FW
C.O.C. No.: 072400-1
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 7-25-00								
Time: 1845								
Method: Low Flow	Clear	5.36	0.092	13.0	4.4	6.20	209	0.0

PURGE DATA:

Date: 7-25-00
Method: GRUNDFOS
Monitor Reading (ppm):
Well Casing Diameter & Material
Type: 6" Open Borehole
Total Well Depth (TD): 66.4
Static Water Level (WL): 30.1
One Casing Volume(gal): 53.4
Start Purge (hrs): 1655
End Purge (hrs): 1843
Total Purge Time (min): 113
Total Vol. Purged (gal): 55

See Attached Low Flow Purge Data Sheet for Purge Data

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	40 ml Vial	
		SEE COC	✓

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: 2DMW23D
DATE: 7-25-00

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. % ~~PPT.~~	Comments
1655	30.10									START PURGING
1700	30.38	365	6.19	0.178	4.8	7.49	12.7	151	0.0	
1705	30.61	340	6.33	0.184	4.1	5.89	13.2	128	0.0	
1710	30.79	270	6.28	0.182	4.3	5.90	13.4	126	0.0	
1715	30.90	225	6.14	0.173	3.9	6.07	13.5	135	0.0	
1720	30.96	190	6.00	0.169	5.0	6.62	13.6	146	0.0	
1725	31.01	180	5.90	0.161	3.7	7.05	13.6	154	0.0	
1730	31.04	170	5.83	0.150	3.6	7.28	13.7	161	0.0	
1735	31.09	180	5.74	0.138	3.7	7.42	13.6	169	0.0	
1740	31.10	175	5.70	0.133	3.7	7.52	13.6	173	0.0	
1745	31.14	180	5.66	0.133	3.5	7.67	13.6	178	0.0	
1750	31.14	<100	5.65	0.125	3.6	7.60	13.6	179	0.0	
1755	31.16	480	5.63	0.120	3.6	8.23	12.9	182	0.0	
1800	31.33	400	5.57	0.100	3.6	8.06	13.3	187	0.0	TURN UP Flow Rate to
1805	32.55	3L/min								STRESS the ~~AQUIFER~~ AQUIFER
1810	34.80	3L/min								
1814	38.90	3GPM								
1820	46.30	3GPM								
1823	45.65	~~960~~ 1.9	5.53	0.100	3.2	9.09	15.1	186	0.0	
1828	45.60	~~880~~ 1.9	5.39	0.094	2.9	8.61	13.1	193	0.0	
1833	45.65	1.8gm	5.38	0.093	3.2	8.27	13.0	199	0.0	
1838	45.65	1.9gm	5.36	0.092	4.4	8.25	12.9	205	0.0	
1843	45.65	1.9gm	5.36	0.092	4.4	8.20	13.0	209	0.0	
1845										START sampling
1850										End sampling

SIGNATURE(S): [illegible]

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: S32DMW24S01
Sample Location: 2DMW24S
Sampled By: D.W.
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 8/2/00								
Time: 1402								
Method: Grundfos	clear	6.49	0.676	20.8	12.2	0.36	-157	0

PURGE DATA:

Date: 8/2/00
Method: Grundfos
Monitor Reading (ppm): —
Well Casing Diameter & Material
Type: 2" PVC
Total Well Depth (TD): 15.5' toc
Static Water Level (WL): 3.73'
One Casing Volume(gal): 2
Start Purge (hrs): 1225
End Purge (hrs): 1350
Total Purge Time (min): 85
Total Vol. Purged (gal): 6

See Attached Low Flow Purge Data Sheet for Purge Data

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	3x 40 ml Vial	✓
TCL SVOC / PAH	"	2 x 1l	✓
TCL Pest	"	1l	✓
TAL Total metals / Hardness	HNO3	500ml	✓
Ethene, ethane, methane	HCl	3x 40ml	✓
sulfide	NaOH, ZnAc	1l	✓
TOC, Ammonia	H2SO4	1l	✓
TSS, TDS, alkalinity, sulfate, chl.	ad °C	1l	✓
		SEE COC	

OBSERVATIONS / NOTES:

pump set at 10' below top casing

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s): Donald Whalen

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: 2D MW 245
DATE: 8/2/00

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. % ~~PPT.~~	Comments
1225	3.27	400								Start PURGE
1230		~1000	6.54	0.627		5.44	20.09	-125	0	pump problems
1235		260	6.55	0.622		0.65	19.78	-148	0	
1240	4.89	280	6.54	0.613	54	0.63	20.64	-152	0	
1245	4.84	340	6.51	0.648	36	0.44	19.88	-155	0	
1250	4.60	300	6.45	0.653	38	0.38	20.25	-155	0	
1255	4.51	280	6.41	0.659	31	0.36	20.01	-152	0	
1300	4.50		6.42	0.660	27	0.36	20.03	-152	0	
1305	4.49		6.41	0.662	24	0.34	20.38	-152	0	
1310	4.47		6.41	0.667	22	0.33	20.42	-153	0	
1315	4.47		6.43	0.667	20	0.32	20.51	-153	0	
1320	4.49		6.43	0.669	19	0.32	20.10	-153	0	
1325	4.47		6.43	0.670	17	0.32	20.17	-153	0	
1330	4.47		6.43	0.670	16	0.34	20.47	-153	0	
1335	4.47		6.45	0.673	15	0.37	20.65	-154	0	
1340			6.47	0.674	13.5	0.37	20.67	-155	0	
1345			6.48	0.674	13.1	0.39	20.83	-156	0	
1350			6.49	0.676	12.2	0.36	20.80	-157	0	End PURGE

SIGNATURE(S): Donald W Rabe

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: S32DMW24D01
Sample Location: 2DMW24D
Sampled By: Chuck Meyer
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 8/2/00								
Time: 1407								
Method: Redi flow pump	Clear to lt brown	6.38	0.645	17.1	36	0.69	-100	0.0

PURGE DATA:

Date: 8/2/00
Method: Rediflow Pump
Monitor Reading (ppm): 0.0
Well Casing Diameter & Material
Type: 6" steel
Total Well Depth (TD): 42.00
Static Water Level (WL): 3.30
One Casing Volume(gal):
Start Purge (hrs): 1225
End Purge (hrs): 1407
Total Purge Time (min): 102
Total Vol. Purged (gal): 7.0

See Attached Low Flow Purge Data Sheet for Purge Data

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	40 ml Vial	
		SEE COC	

OBSERVATIONS / NOTES:

Pump set at 30 feet to meet producing zone

Circle if Applicable:

MS/MSD

Duplicate ID No.: FD 0802001
assigned time = 0000

Signature(s):

Chuck Meyer

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: 20MW 24D
DATE: 8/2/00

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. % ~~PPT.~~	Comments
1225	3.28	800	6.38	0.655		3.82	14.9	-109	0.0	
1230	3.42	500	6.38	0.651		0.98	14.8	-122	0.0	
1235	3.41	430	6.47	0.651	70	0.53	15.4	-137	0.0	
1240	3.41	420	6.51	0.657	60	0.44	15.1	-146	0.0	
1245	3.41	410	6.52	0.655	55	0.55	15.3	-148	0.0	
1250	3.41	410	6.53	0.658	55	0.44	15.1	-148	0.0	
1255	3.41	400	6.50	0.649	55	0.45	14.7	-140	0.0	
1300	3.41	400	6.47	0.649	55	0.44	15.0	-132	0.0	
1305	3.40	220	6.48	0.646	50	0.48	16.3	-135	0.0	
1310	3.37	220	6.48	0.656	45	0.46	16.7	-132	0.0	
1315	3.37	220	6.47	0.656	40	0.50	16.6	-128	0.0	
1320	3.37	220	6.43	0.652	40	0.56	16.4	-119	0.0	
1325	3.36	200	6.45	0.652	40	0.53	16.8	-122	0.0	
1330	3.36	200	6.42	0.648	39	0.59	16.8	-112	0.0	
1335	3.36	200	6.44	0.652	37	0.57	17.4	-116	0.0	
1340	3.36	200	6.40	0.652	30	0.57	17.1	-105	0.0	
1345	3.36	200	6.30	0.646	35	0.70	17.3	-100	0.0	
1350	3.40	300	6.41	0.646	34	0.68	17.2	-106	0.0	
1355	3.40	300	6.38	0.644	34	0.68	17.3	-103	0.0	
1400	3.40	300	6.37	0.645	34	0.68	17.2	-100	0.0	
1405	3.40	300	6.38	0.645	36	0.69	17.1	-100	0.0	
1407	Purging was completed after removing 9 gallons from the well and sample S32DMW24D01 was collected									
1507	Sampling completed after collecting MS/MSD and Duplicate									FD056200-1

SIGNATURE(S): [signature]

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: S3 2DMW255 01
Sample Location: 2DMW255
Sampled By: J Wilkin
C.O.C. No.: 072200 1
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

Date: 7-22-00	Color	pH	S.C.	Temp.	Turbidity	DO	ORP	Salinity
Time: 1235	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	mV	%
Method: 2" Redi Flo pump	CLEAR	5.35	0.24	20.9	3.6	0.78	169	0

PURGE DATA:

Date: 7-22-00
Method: 2" Redi Flo pump
Monitor Reading (ppm):
Well Casing Diameter & Material
Type: 2" PVC
Total Well Depth (TD): 12.5
Static Water Level (WL): 8.63
One Casing Volume(gal): 0.6
Start Purge (hrs): 0948
End Purge (hrs): 1223
Total Purge Time (min): 135
Total Vol. Purged (gal): ~3

See Attached Low Flow Purge Data Sheet for Purge Data

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	40 ml Vial	✓
TCL SVOC / PAH	4°C	1L	✓
TCL Pest	4°C	1L	✓
TAL metals, hardness	HNO_3 / 4°C	500ml	✓
TSS, TDS, Alk, Sulfate, Chloride	4°	1L	✓
Ethane, Ethene, methane	HCl / 4°C	40ml	✓
TOC Ammonia	H_2SO_4 / 4°C	1L ~~H_2SO_4 Pr~~	✓
Sulfide	NaOH, ZnAc	1L ~~NaOH, ZnAc Pr~~	✓
		SEE COC	

OBSERVATIONS / NOTES:

- had trouble with Redi-Flo pump maintaining flow rate - probably because of debris being drawn into pump

Circle if Applicable:

MS/MSD ____ Duplicate ID No.: ____

Signature(s): David Wheeler

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: 2DMW25S
DATE: 7-22-00

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. % ~~PPT.~~	Comments
0945	5.63									START PURGE
0952	8.88	150	5.31	0.250	246	2.44	16.9	173	0	
1002	9.00	150	5.30	0.247	33	2.61	18.5	175	0	
1012	9.07	145	5.32	0.244	10.6	1.78	19.4	156	0	Flow rate kept drop by
1022	9.01		5.32	0.243	5.5	1.25	19.9	147	0	change to turn up pump rate
1032	9.00	110	5.33	0.245	26	1.28	20.3	153	0	
1042			5.34	0.243	40	1.25	22.2	145	0	pump stops
										1050 full pump spray off
	8.75									re-start pump
1100	9.05	90	5.35	0.241	104	2.39	21.5	150	0	
1110	9.11	100	5.37	0.244	38	1.73	21.3	162	0	
1120	9.94	60	5.35	0.245		1.64	21.4	164	0	1125 pump slows
										turn up pump rate
1133	9.02	90	5.36	0.243	42	1.51	23.1	154	0	
1143	9.03	140	5.37	0.253	23	0.92	23.6	154	0	
1153	9.11	140	5.36	0.242	23	0.81	22.8	162	0	
1203	9.07	130	5.36	0.242	14	0.73	21.9	162	0	
1213	9.09	130	5.36	0.241	6.3	0.75	21.7	164	0	
1223	9.10	120	5.35	0.241	3.6	0.78	20.9	169	0	

SIGNATURE(S): Donald Whaler

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: S320MW25D01
Sample Location: S320MW25D
Sampled By: KW
C.O.C. No.: 072200-1
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 7-22-00								
Time: 1155								
Method: Low Flow	Clear	6.39	0.281	16.0	11	0.60	-113	0.0

PURGE DATA:

Date: 7-22-00
Method: Low Flow
Monitor Reading (ppm):
Well Casing Diameter & Material Type: 6" Open Borehole
Total Well Depth (TD): 39.4
Static Water Level (WL): 8.91
One Casing Volume(gal): 44.8
Start Purge (hrs): 0947
End Purge (hrs): 1150
Total Purge Time (min): 97
Total Vol. Purged (gal): 5.3

See Attached Low Flow Purge Data Sheet for Purge Data

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	3 40 ml Vial	✓
TCL SVOC / PAH	4°C	2 1L AMBER	✓
TCL PEST	4°C	1L AMBER	✓
TAL Metals HARDNESS	HNO_3 / 4°C	500ml Poly	✓
SULFATE CHLORIDE TSS, TDS, Alk	4°C	1L ~~AMBER~~ Poly	✓
ETHANE, ETHENE, METHANE	HCL / 4°C	3 40ml vial	✓
TOC, AMONIA	H_2SO_4 / 4°C	1L Poly	✓
SULFIDE	NaOH/ZnAc/4°C	1L Poly	✓
		SEE COC	

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s): KW

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: ~~53~~ 2DMW25D (FW)
DATE: 7-22-00

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. % ~~PPT.~~	Comments
0947	8.91				53					START PURGING
0955	8.97	250	6.48	0.287	~~0.90~~ (FW)	0.90	15.1	-132	0.0	
1005	8.97	135	6.35	0.279	24	1.11	15.6	-119	0.0	
1015	8.98	265	6.32	0.286	18	0.85	14.8	-123	0.0	
1025	8.97	195	6.32	0.281	16	0.79	15.4	-122	0.0	
1035	8.97	175	6.31	0.282	14	0.81	15.7	-117	0.0	
1045	8.97	180	6.32	0.280	14	0.68	15.7	-116	0.0	
1055	8.99	190	6.32	0.282	14	0.74	15.5	-114	0.0	
1105	8.99	130	6.33	0.281	11	0.66	16.2	-113	0.0	Generator Quit
1131										Continue Purging
1135	9.01	410	6.46	0.287	14	0.73	14.8	-111	0.0	
1140	8.99	260	6.42	0.282	11	0.61	15.2	-115	0.0	
1145	9.00	150	6.39	0.278	11	0.61	15.8	-113	0.0	
1150	8.99	160	6.39	0.281	11	0.60	16.0	-113	0.0	
1155										Sample START
1212										End sampling

SIGNATURE(S): FNR W

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: S32DMW26S01
Sample Location: 2DMW26S
Sampled By: D.W.
C.O.C. No.: 072200-1
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 7-22-00								
Time: 1645								
Method: 2" Red. Flo Pump	clear	5.71	0.294	17.6	12	4.17	143	0

PURGE DATA:

Date: 7-22-00
Method: 2" Red. Flo Pump
Monitor Reading (ppm):
Well Casing Diameter & Material
Type: 2" PVC
Total Well Depth (TD): 17.5'
Static Water Level (WL): 6.30'
One Casing Volume(gal): ~~17.4~~ 1.9
Start Purge (hrs): 1541
End Purge (hrs): 1635
Total Purge Time (min): 54
Total Vol. Purged (gal): 1.7

See Attached Low Flow Purge Data Sheet for Purge Data

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	3x 40 ml Vial	✓
TCL SVOC / PAH	4°C	2x 1l	✓
TCL Pest	4°C	1l	✓
TAL metals, hardness	HNO3 / 4°C	500 ml	✓
TSS, TDS, Alk, Sulfate, Chloride	4°C	1l	✓
Ethane, Ethene, methane	HCl / 4°C	3x 40 ml	✓
TOC, ammonia	H2SO4 / 4°C	1l	✓
sulfide	ZnAc / NaOH / 4°C	1l	✓
		SEE COC	

OBSERVATIONS / NOTES:

Circle If Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Donald Wheeler

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: 2DMW26S
DATE: 7-22-00

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. % ~~PPT.~~	Comments
1541	6.30	300								START PURGE
1545	6.30	110	5.75	0.284	6.33	6.13	17.2	132	0	
1555	6.32	110	5.76	0.300	4.3	4.69	18.0	129	0	
1605	6.32	120	5.75	0.297	2.8	4.73	17.6	139	0	
1615	6.31	120	5.72	0.299	3.7	4.17	17.6	139	0	
1625	6.31	130	5.71	0.297	2.2	4.09	17.0	141	0	
1635	6.31	130	5.71	0.299	1.2	4.17	17.6	143	0	End Purge

SIGNATURE(S): Donald Whalen

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: S32DMW26D01
Sample Location: 2DMW26D
Sampled By: FCW
C.O.C. No.: 072200-1
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color	pH	S.C.	Temp.	Turbidity	DO	ORP	Salinity
Date: 7-22-00	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	mV	%
Time: 1755	Clear	6.90	0.484	17.5	0	0.27	-171	0.0
Method: Low Flow								

PURGE DATA:

Date: 7-22-00
Method: Low Flow
Monitor Reading (ppm):
Well Casing Diameter & Material Type: 2" PVC
Total Well Depth (TD): 36.9
Static Water Level (WL): 10.19
One Casing Volume(gal):
Start Purge (hrs): 1541
End Purge (hrs): 1755
Total Purge Time (min): 124
Total Vol. Purged (gal): 7

See Attached Low Flow Purge Data Sheet for Purge Data

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	3 40 ml Vial	✓
ETHANE, ETHENE, METHANE	HCL / 4°C	3 40ml Vial	✓
TCL SVOC / PAH	4°C	2 L AMBER	✓
TCL Pesticides	4°C	1 L AMBER	✓
TAL Metals + HARDNESS	HNO_3 / 4°C	500 mL Poly	✓
TSS, TDS, ALK, Sulfate, Chloride	4°C	1 L Poly	✓
TOC AMMONIA	H_2SO_4 / 4°C	1 L Poly	✓
SULFide	ZnAc / NaOH / 4°C	1 L Poly	✓
		SEE COC	

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): [illegible]

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: 2DMW26D
DATE: 7-22-00

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. % ~~PPT.~~	Comments
1541	10.19									
1549	10.56	180	8.89	0.416	67	1.10	16.4	-194	0.0	
1558	10.56	360	9.00	0.411	47	0.81	16.6	-213	0.0	
1608	10.49	160	8.52	0.414	24	0.65	17.2	-271	0.0	
1617	10.63	190	8.04	0.419	12	0.47	17.0	-265	0.0	
1626	10.66	210	7.50	0.426	7	0.34	16.8	-239	0.0	
1635	10.51	155	7.30	0.433	5	0.41	17.4	-219	0.0	
1643	10.52	165	7.18	0.441	4	0.34	17.4	-209	0.0	
1652	10.52	140	7.11	0.448	3	0.32	16.4	-200	0.0	
1700	10.52	155	7.06	0.450	3	0.35	17.2	-195	0.0	
1708	10.51	140	7.01	0.458	1	0.33	17.1	-188	0.0	
1715	10.51	160	6.97	0.467	1	0.35	17.2	-182	0.0	
1723	10.50	150	6.96	0.465	1	0.29	17.3	-180	0.0	
1730	10.59	230	6.95	0.476	0	0.30	17.4	-178	0.0	
1735	10.53	180	6.93	0.478	0	0.32	17.4	-177	0.0	
1740	10.55	170	6.92	0.480	0	0.30	17.6	-175	0.0	
1745	10.51	160	6.92	0.483	0	0.29	17.5	-174	0.0	
1750	10.53	165	6.92	0.483	0	0.27	17.5	-173	0.0	
1755	10.53	160	6.90	0.484	0	0.27	17.5	-171	0.0	START Sampling
1821										End Sampling

SIGNATURE(S): [illegible]

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: S3 2DMW27D01
Sample Location: 2DMW27D
Sampled By: CM, RS, DW
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 8/3/00								
Time: 1215								
Method: GRUNDFOS	clear	7.88	0.318	22.1	4.8	10.49	62	0

PURGE DATA:

Date: 8·1·00
Method: GRUNDFOS
Monitor Reading (ppm):
Well Casing Diameter & Material
Type: 6" OPEN BORE HOLE
Total Well Depth (TD): 205
Static Water Level (WL): 12.78
One Casing Volume(gal): 282
Start Purge (hrs): 1150 (8/1)
End Purge (hrs): 1210 (8/3)
Total Purge Time (min): ~~280~~ 690 min
Total Vol. Purged (gal): 280

See Attached Low Flow Purge Data Sheet for Purge Data

Recharge Data

Time	w.l.
0 min	36.76'
5 min	36.71
10	36.68
15	36.64
20	36.61

0.08'/10min ≅ 5cml/min

8/2 @ 0744 wl = 159.23'
8/3 @ 1031 wl = 173.12

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	3 x 40 ml Vial	✓
TCL SVOC / PAH	4°C	2 x 1l	✓
TCL Pest	4°C	1l	✓
TAL Total metals / hardness	HNO_3	500ml	✓
ethane, ethene, methane	HCl	3 x 40 ml	✓
Sulfide	NaOH	1l	✓
TOC, ammonia	H_2SO_4	1l	✓
TSS, TDS, alkalinity, sulfate, chloride	4°C	1l	✓
		SEE COC	

OBSERVATIONS / NOTES:

PUMP INLET SET @ 195' ±

Fe^{+2} = 0.8 mg/L
H_2S = 0.0 mg/L
DO = 8.0 mg/L
CO_2 < 10 mg/L

Circle if Applicable:

MS/MSD
Duplicate ID No.:

Signature(s): Donald Wahler

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856
WELL ID.: 53 2D MW27D 01
DATE: 8-1-00

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. % ~~PPT.~~	Comments
8/1/00 1150	12.78	500	—	—	—	—	—	—	—	START Purge
1155	13.40	270	6.93	0.570	—	1.41	16.37	-30	0	
1200	13.96	270	7.72	0.612	—	0.55	17.17	-108	0.0	ADJUSTING PUMP
1210	14.33	270	7.82	0.610	34	0.53	17.8	-122	↓	AS NEEDED
1220	14.96	320	7.96	0.616	35	1.00	18.6	-148	↓	
1230	15.45	320	8.03	0.621	45	0.54	17.3	-159	↓	
1240	15.94	260	8.02	0.618	60	0.57	17.3	-165	↓	DISCONNECTED & TURNED
1245	16.70	1500	—	—	—	—	—	—	—	PUMP RATE UP. TRY TO
1250	18.75	3000	—	—	—	—	—	—	-	DRAW MW DOWN TO A
1255	21.85	2500	—	—	—	—	—	—	—	STABLE W/L.
1300	24.20	3000	—	—	—	—	—	—		
1305	27.10	3000	—	—	—	—	—	—		
1310	29.45	3000	—	—	—	—	—	—		
1315	31.70	3000	—	—	—	—	—	—		
1320	34.23	3000	—	—	—	—	—	—		30 gal. purged
1325	35.53	380	8.06	0.601	110	1.40	16.76	-79	0.0	slowdown pump to
1330	35.80	350	8.03	0.601	110	0.44	17.60	-156	0.0	
1335	36.08	320	8.03	0.600	90	0.37	18.02	-186	0.0	
1340	36.37	400	8.03	0.600	88	0.40	18.04	-196	0.0	
1345	36.87	400	8.04	0.598	55	0.34	16.41	-212	0.0	stop pump, check recharge
1412	36.61	4000	—	—	—	—	—	—		Disconnect cell, turn pump ~~with~~ up to pump well
1610	87		—	—	—	—	—	—		Dry
1620	91.2		—	—	—	—	—	—		stop pumping - run out of storage
1651			—	—	—	—	—	—		Resume pumping
1742	111		—	—	—	—	—	—		CM leaves to empty drum; continue pumping into container
1812	125		—	—	—	—	—	—		CM returns
1840	141	3500	—	—	—	—	—	—		
1911	158									
1938	170									stop pumping - run out of storage

SIGNATURE(S): Donald W. Kalen

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: S32DMW27D 01
DATE: 8/2/00

	Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. % ~~PPT.~~	Comments
8/2/00	0744	159.23									
	0747		4000								START pumping
	0810	173.2									
	0822	179.4									stop pumping - empty purge containers
	0845		3600								Resume pumping
	0855			6.63	0.379	12.5	8.48	17.59	96	0	
	0900	188									
	0910	190									lower pump ~10'
	0925	195.38									resume pumping
			ALLOW	WELL	TO	RECHARGE	OVERNIGHT				STOP - water level at pump
8/3/00	1055	172.67									
	1100	173.50	500	6.69	0.334	13	12.33	17.5	107	0	
	1105	173.86	370	7.41	0.327	9.3	10.24	18.7	87	0	
	1110	174.13	320	7.65	0.328	7.7	10.45	20.6	80	0	
	1115	174.27	400	7.80	0.327	7.5	10.56	21.1	74	0	
	1120	174.44	340	7.83	0.328	7.2	10.42	20.7	69	0	
	1125		300	7.83	0.326	5.9	10.57	21.6	64	0	
	1130	174.83		7.86	0.326	6.3	11.05	21.4	62	0	
	1135	175.20		7.87	0.325	6.7	11.15	20.3	56	0	
	1140	175.68		7.86	0.322	5.9	10.57	21.5	53	0	
	1145	176.14		7.87	0.320	5.6	10.61	21.5	51	0	
	1150			7.87	0.319	5.3	10.43	21.3	56	0	
	1155	176.86		7.88	0.319	5.1	10.55	21.4	56	0	
	1200	177.43	320	7.88	0.318	4.8	10.68	21.4	58	0	
	1205		↓	7.88	0.318	4.7	10.49	22.2	60	0	
	1210	177.75	↓	7.88	0.318	4.8	10.49	22.1	62	0	END PURGE

SIGNATURE(S): Donald Whalen

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: S32DMW2850!
Sample Location: 2DMW285
Sampled By: D. Whalen
C.O.C. No.: 072200-1
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 7-23-00								
Time: 1105								
Method: peristaltic pump	clear	6.15	1.01	15.60	1.9	9.35	139	0

PURGE DATA:

Date:
Method: peristaltic pump
Monitor Reading (ppm):
Well Casing Diameter & Material
Type: 2" PVC
Total Well Depth (TD): 21.6
Static Water Level (WL): 17.96
One Casing Volume(gal): 0.6
Start Purge (hrs): 0810
End Purge (hrs): 1055
Total Purge Time (min): 165
Total Vol. Purged (gal): 3

See Attached Low Flow Purge Data Sheet for Purge Data

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	40 ml Vial	✓
Ethane, methane, Ethene	HCL / 4°C	40ml	✓
TCL SVOC / PAH	4°C	2x 1l	✓
TCL Pest	4°C	1l	✓
TAL metals + Hardness	HNO3 / 4°C	500ml	✓
TOC, ammonia	H2SO4	1l	✓
TSS, TDS, Alk, Sulfate, Chloride	4°C	1l	✓
Sulfide	NaOH, Zn Ac	1l	✓
		SEE COC	

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s): Donald Whalen

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: RDMW28S
DATE: 7-23-00

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. % ~~PPT.~~	Comments
0810	17.96									start
0816	17.97	130	6.16	1.08	19.7	9.62	17.19	87	0	
0826	17.97	90	6.25	1.01	8.2	9.85	19.59	87	0	pump will keep slowing down
0836	17.96	50	6.29	0.96	10.1	9.14	20.92	82	0	
0846			6.25	0.96		8.89	22.38	90	0	
0852										stop pump - lift up
0855	17.97	150	6.30	0.97	12.8	9.14	22.63	83	0	resume pumping
0905										pump stops
0907		170	6.36	0.98	9.01	9.17	23.51	81	0	resume
0912										pump stops
										Remove RediFlo pump
										set up peristaltic pump
0942	~~17.96~~									start purging with peristaltic pump
0945	17.97	150	5.95	1.21	22.2	12.17	15.39	110	0.0	
0955	17.97	150	5.82	1.18	14.9	9.66	16.02	149	0.1	
1005	17.97	160	5.99	1.12	11.8	9.66	15.98	142	0.1	
1015	17.97	160	6.06	1.08	8.3	9.35	15.74	143	0.0	
1025	17.97	160	6.12	1.04	5.6	9.41	15.66	142	0.0	
1035	17.97	160	6.15	1.03	3.8	9.30	15.76	139	0.0	
1045	17.97	160	6.15	1.02	2.4	9.37	15.60	141	0.0	
1055	17.97	160	6.15	1.01	1.9	9.35	15.60	139	0.0	

SIGNATURE(S): Donald Whalen

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: S32DMW28D01
Sample Location: 2DMW28-D
Sampled By: FCW
C.O.C. No.: 072200-1
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 7-23-00								
Time: 1020								
Method: Low Flow	Clear	6.72	0.453	14.7	18	0.34	-147	0.0

PURGE DATA:

Date: 7-23-00	See Attached Low Flow Purge Data Sheet for Purge Data
Method: Low Flow	
Monitor Reading (ppm):	
Well Casing Diameter & Material Type: 6" open borehole	
Total Well Depth (TD): 143	
Static Water Level (WL): 16.40	
One Casing Volume(gal): 185	
Start Purge (hrs): 0810	
End Purge (hrs): 1020	
Total Purge Time (min): 130	
Total Vol. Purged (gal): 5.7	

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	3 40 ml Vial	✓
Methane, ethane, ethene	HCL/4°C	3 40ml Vial	✓
TCL SVOC / PAH	4°C	2 1L amber	✓
TCL Pesticides	4°C	1L amber	✓
TAL Metals / HARDNESS	HNO_3 / 4°C	500ml poly	✓
SULFIDE	NaOH/ZnAc / 4°C	1L poly	✓
TDS, TSS, ALK, Sulfate, Chloride	4°C	1L Poly	✓
TOC AMMONIA	NaOH / 4°C	1L Poly	✓
		SEE COC	

OBSERVATIONS / NOTES:

Pump sitting 15' off of bottom

Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: 2DMW28-0
DATE: 7-23-00

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. % ~~PPT.~~	Comments
0810	16.90									START PURGING
0820	17.22	290	6.62	0.457	28	0.89	13.1	-128	0.0	
0830	17.45	190	6.66	0.455	28	0.61	13.7	-136	0.0	
0840	17.60	140	6.67	0.454	27	0.46	13.7	-138	0.0	
0850	17.78	200	6.68	0.454	24	0.42	13.4	-139	0.0	
0900	17.88	180	6.68	0.455	23	0.40	13.6	-142	0.0	
0910	17.96	160	6.69	0.453	23	0.46	13.8	-143	0.0	
0920	18.02	150	6.70	0.455	22	0.47	13.9	-145	0.0	
0930	18.04	150	6.71	0.455	21	0.37	14.0	-145	0.0	
0940	18.06	140	6.71	0.451	20	0.44	14.2	-145	0.0	
0950	18.08	140	6.71	0.451	21	0.41	14.0	-146	0.0	
1000	18.11	145	6.72	0.450	20	0.36	14.2	-147	0.0	
1010	18.11	135	6.72	0.450	19	0.39	14.4	-148	0.0	
1020	18.08	140	6.72	0.453	18	0.34	14.7	-147	0.0	sampling
1045										End sampling

SIGNATURE(S): GMW

S3 MW29S 03

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: 2DMW29S
Sample Location: ~~S2DMW29S~~ 03 KS
Sampled By: K. SIMPSON
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color	pH	S.C.	Temp.	Turbidity	DO	ORP	Salinity
Date: 6.23.00	Visual	Standard	mS/cm	Degrees C	NTU	KS mg/l	mV	%
Time: 1520								
Method: PERISTALTIC PUMP	CLEAR	5.57	0.595	14.6	0	~~14~~ 1.16	149	0

PURGE DATA:

Date: 6.23.00
Method: PERISTALTIC PUMP
Monitor Reading (ppm): NA
Well Casing Diameter & Material Type: 2" PVC - S.U.
Total Well Depth (TD): 17.95
Static Water Level (WL): 8.93
One Casing Volume(gal): 1.5
Start Purge (hrs): 1425
End Purge (hrs): 1515
Total Purge Time (min): 50
Total Vol. Purged (gal): 2.5

SAMPLE ID = S3 MW29S 03

See Attached Low Flow Purge Data Sheet for Purge Data

EXTRA SAMPLE, WILL SAMPLE DURING PHASE II SAMPLING

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	3 – 40 ml Vial	✓

OBSERVATIONS / NOTES:

QUICK TURN

PUMP INLET (TUBING) SET 2.5' ± OFF BTM

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s): K. S. Simpson

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: 2DMW29S
DATE: 6·23·00

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. % ~~PPT.~~	Comments
1430	8.93	255	5.64	0.616	92	2.88	13.7	172	0	START PURGE
1435	9.10	190	5.63	0.604	59	2.60	14.0	164	0	TA. LT BN. FINES
1440	9.07	↓	5.62	0.600	40	1.87	14.5	158	0	TEA COLOR @ START
1450	9.06	↓	5.59	0.602	15	1.73	14.5	158	0	CLEANED CELL
1455	↓	↓	5.58	0.604	4.7	1.76	14.5	156	0	CLEARING
KS ~~14~~ 1500	↓	↓	5.59	0.602	1.0	1.15	14.6	151	0	
1505	↓	↓	5.58	0.600	0.4	1.18	14.6	151	0	
1510	↓	↓	5.58	0.597	0	1.09	14.6	149	0	
1515	↓	↓	5.57	0.595	0	1.16	14.6	149	0	END PURGE

SIGNATURE(S): [illegible]

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: S320MW29S04
Sample Location: S 20MW29S
Sampled By: MW/KS
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 7/12/00								
Time: 1010								
Method: GROUNDFOS/LOW FLOW	CLEAR	5.73	0.456	18.3	2.8	0.86	81	0.0

PURGE DATA:

Date: 7/12/00
Method: GROUNDFOS/LOW FLOW
Monitor Reading (ppm): –
Well Casing Diameter & Material Type: 2" PVC
Total Well Depth (TD): 17.95'
Static Water Level (WL): 9.92'
One Casing Volume(gal): 1.3
Start Purge (hrs): 0910
End Purge (hrs): 1010
Total Purge Time (min): 60
Total Vol. Purged (gal): 3.2

See Attached Low Flow Purge Data Sheet for Purge Data

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	40 ml Vial	
		SEE COC	

OBSERVATIONS / NOTES:

PUMP DEPTH @ 14.5'

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: $32DMW29$
DATE: 7/12/00

REAIFLOW SAMPLING FREQUENCY 70.3

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. % ~~PPT.~~	Comments
0910	9.92'	200	5.55	0.514	313	4.60	14.0	94	0.0	RUST COLORED
0915	10.60'	200	5.52	0.531	93	[illegible]	15.0	91	0.0	
0920	10.61	200	5.47	0.523	109	2.42	16.1	102	0.0	CLEARED OUT FLOW CELL
0925	10.45'	200	5.52	0.518	54	1.56	16.8	92	0.0	
0930	10.43	200	5.53	0.515	39	0.55	16.9	89	0.0	
0935	10.40	200	5.57	0.512	27	0.62	17.0	81	0.0	
0940	10.45	200	5.62	0.509	15	0.90	17.2	73	0.0	
0945	10.51	200	5.67	0.506	10	0.90	17.2	68	0.0	
0950	10.46	200	5.69	0.504	7	0.92	17.6	70	0.0	
0955	10.45	200	5.70	0.500	4.5	0.95	18.0	75	0.0	
1000	10.46	200	5.73	0.500	3.0	0.87	18.3	79	0.0	
1005	10.47	200	5.73	0.495	2.5	0.86	18.3	81	0.0	
	SAMPLED @	1010								

SIGNATURE(S): [signature]

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: SB-2DMW30S01
Sample Location: 2DMW30S
Sampled By: DAVE C.
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 7/12/00								
Time: 1050								
Method: GRUNDFOS	CLEAR	5.77	0.472	17.8	26	0.80	25	0.0

PURGE DATA:

Date: 7-12-00	See Attached Low Flow Purge Data Sheet for Purge Data
Method: Grundfos	
Monitor Reading (ppm): -	
Well Casing Diameter & Material Type: 2" PVC	
Total Well Depth (TD): 10.80	
Static Water Level (WL): 9.30	
One Casing Volume(gal): 1	
Start Purge (hrs): 0935	
End Purge (hrs): 1030	
Total Purge Time (min): 55	
Total Vol. Purged (gal): 3.4	

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	40 ml Vial	
		SEE COC	

OBSERVATIONS / NOTES:

PUMPED THE WELL DRY TWICE.
COLLECTED SAMPLE ONCE W.L. REACHED 9.3'

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s): D Pacione

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: 2DMW305
DATE: 7-12-00

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. % ~~PPT.~~	Comments
0935	9.30	400								
0939	NOT	–	5.82	0.486	>200	2.56	TOO E	-41	0	WELL WENT
	ENOUGH									DRY AT 0940
	WATER IN									WITH A
	WELL TO									Q < 300
	TAKE WL									
		RECHARGED	TO	9.30'	- START	PUMP				
1003	9.30	400	5.80	0.496	423	3.39	19.2	-29	0	
1008	9.42	400	5.75	0.486	60	2.53	18.1	-15	0	
1013	9.48		5.74	0.482	23	1.02	18.1	8	0	
1018	9.50		5.72	0.478	22	0.95	18.1	18	0	
1023	9.62		5.73	0.476	15	0.85	18.1	25	0	
1030	9.75		5.77	0.472	26	0.80	17.8	25	0	
	DRY	@ 1032								
	ALLOWED WELL TO		RECOVER	TO	9.30'	THEN	SAMPLED			
	SAMPLED @	1050								

SIGNATURE(S): _____

PAGE 2 OF 2

PUMP RATE SET @ 104 HZ

SITE 7 – TORPEDO SHOPS- GROUNDWATER SAMPLING INFORMATION

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data TW
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: S7TW0101
Sample Location: 7TW1
Sampled By: R. SIMPSON
C.O.C. No.: 060800-1
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color	pH	S.C.	Temp.	Turbidity	DO	ORP	Salinity
Date: 6.11.00	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	mV	%
Time: 1555								
Method: PERISTALTIC	CLEAR	6.33	0.594	14.5	0	7.29	313	0

PURGE DATA:

Date: 6.11.00
Method: PERISTALTIC
Monitor Reading (ppm): 0
Well Casing Diameter & Material
Type: 1¼ OD PVC
Total Well Depth (TD): 13.05 BGS
Static Water Level (WL): 12.00 BGS
One Casing Volume(gal): 0.08
Start Purge (hrs): 1520
End Purge (hrs): 1550
Total Purge Time (min): 30
Total Vol. Purged (gal): 1.7

See Attached Low Flow Purge Data Sheet for Purge Data

END DEV. 1515 START PURGE 1520

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	40 ml Vial	✓

OBSERVATIONS / NOTES:

PUMP INLET (TUBING) SET IN THE CENTER OF THE SATURATED SCREEN

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s): R. S. Simpson

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: 7TW01
DATE: 6-11-00

Time (Hrs.)	Water Level (Ft. below ~~TOC~~ BGS)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. ~~PPT.~~ %	Comments
1520	12.00	210	6.47	0.610	3.7	9.63	14.6	273	0	CLEAR NO ODOR
1530	↓	↓	6.39	0.595	0.2	7.57	14.6	300	0	NO FREE PRODUCT
1535			6.37	0.601	0	7.83	14.1	309	0	
1540			6.34	0.592	0	7.53	14.5	310	0	
1545			6.34	0.592	0	7.36	14.5	310	0	
1550			6.33	0.594	0	7.29	14.5	313	0	END PURGE

SIGNATURE(S): [illegible]

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type: TEMP WELL
[ ] QA Sample Type:

Sample ID No.: S7TW02 01
Sample Location: 7TW 2
Sampled By: SJC
C.O.C. No.: 7608.00-1
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 6-11-00								
Time: 1450								
Method: PERISTALTIC	CLEAR	6.13	.520	18.90	7.4	.520	-21	0.0

PURGE DATA:

Date: 6-11-00
Method: PERISTALTIC
Monitor Reading (ppm): 0
Well Casing Diameter & Material
Type: 1¼" Φ PVC
Total Well Depth (TD): 10.95 GS
Static Water Level (WL): 5.22 "
One Casing Volume(gal):
Start Purge (hrs): 1355
End Purge (hrs): 1445
Total Purge Time (min): 50
Total Vol. Purged (gal):

See Attached Low Flow Purge Data Sheet for Purge Data

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	(3) 40 ml Vial	✓

OBSERVATIONS / NOTES:

NO ODOR, NO FREE PRODUCT

PUMP INLET SET IN CENTER OF SATURATED SCREEN

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s): SJ Conti

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: 7TW2
DATE: 6-11-00

Time (Hrs.)	Water Level (Ft. below ~~TOC~~ BTS)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. ~~PPT.~~ %	Comments
1355	5.45	280	—	—	—	—	—	—	—	INITIAL
1400	5.45	280	5.74	.526	30	1.74	18.97	65	0.0	
1405	5.45	"	5.78	.522	45	1.30	19.04	48	0.0	
1410	5.46	"	5.91	.522	19	.94	18.98	29	0.0	
1420	5.45	"	6.12	.522	11	.76	18.87	-1	0.0	
1425	"	"	6.12	.522	12	.75	18.76	-7	0.0	
1430	"	"	6.11	.519	8.2	.69	19.04	-5	0.0	
1435	"	"	6.13	.520	10	.70	18.76	-18	0.0	
1440	"	"	6.13	.519	8	.70	18.85	-20	0.0	
1445	"	"	6.13	.520	7.4	.70	18.90	-21	0.0	

SIGNATURE(S): SJ Conti

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type: TEMP WELL
[ ] QA Sample Type:

Sample ID No.: S7TW0301
Sample Location: 7TW3
Sampled By: SJC
C.O.C. No.: 060900-1
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA: LAMOTTE

	Color	pH	S.C.	Temp.	Turbidity	DO	ORP	Salinity
Date: 6-11-00	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	mV	%
Time: 1135								
Method: PERISTALTIC	CLEAR	6.28	.552	16.07	0.0	1.99	20	0.0

PURGE DATA:

Date: 6-11-00
Method: PERISTALTIC
Monitor Reading (ppm): 0
Well Casing Diameter & Material
Type: 1¼" Φ PVC
Total Well Depth (TD): 10.95 BGS
Static Water Level (WL): 7.40 BGS
One Casing Volume(gal):
Start Purge (hrs): 1040
End Purge (hrs): 1130
Total Purge Time (min): 50
Total Vol. Purged (gal):

See Attached Low Flow Purge Data Sheet for Purge Data

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	(3) 40 ml Vial	✓

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): SJ Conti

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: 7TW3
DATE: 6-11-00

Time (Hrs.)	Water Level (Ft. below ~~TOC~~ GS)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. ~~PPT.~~ %	Comments
1040	7.40	280	6.13	.555	3.9	4.66	16.59	94	0.0	CLEAR
1050	7.41	"	5.89	.552	3.7	2.85	15.88	82	0.0	"
1100	7.44	"	6.07	.552	1.4	2.39	15.90	44	0.0	"
1105	7.45	"	6.18	.552	2.7	2.14	15.94	27	0.0	"
1110	7.45	"	6.23	.553	0.0	2.04	15.95	22	0.0	"
1115	7.46	"	6.27	.552	0.0	2.04	16.04	30	0.0	"
1120	7.46	"	6.27	.552	0.0	2.00	16.06	21	0.0	"
1125	7.46	"	6.27	.552	0.0	2.00	16.06	22	0.0	"
1130	7.46	"	6.28	.552	0.0	1.99	16.07	20	0.0	"
										NO ODOR
										NO FREE PRODUCT

SIGNATURE(S): SJ Conti

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data TW
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: S7TW0401
Sample Location: 7TW4
Sampled By: K. SIMPSON
C.O.C. No.: 060800-1
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 6.11.00								
Time: 1010								
Method: PERISTALTIC	LT BRN	6.27	0.464	18.3	295	5.22	-4	0

PURGE DATA:

Date: NA
Method:
Monitor Reading (ppm): 0
Well Casing Diameter & Material Type:
Total Well Depth (TD): 7.70 BGS
Static Water Level (WL): 6.60 BGS
One Casing Volume(gal): 0.08
Start Purge (hrs): —
End Purge (hrs): —
Total Purge Time (min): —
Total Vol. Purged (gal):

See Attached Low Flow Purge Data Sheet for Purge Data

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	40 ml Vial	✓

OBSERVATIONS / NOTES:

NO PURGE; S7TW4 ONLY "MAKES" ≈ 200 ML OF WATER THEN DRY. ALLOWED TO RECHARGE FOR 10 MIN AND REPETE.

NO ODOR, NO FREE PRODUCT

Circle if Applicable:

MS/MSD —
Duplicate ID No.: —

Signature(s): K. Simpson

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data TW
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: 57TW05 01
Sample Location: 7TW05
Sampled By: SJC
C.O.C. No.: 060800-1
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color	pH	S.C.	Temp.	Turbidity	DO	ORP	Salinity
Date: 6-11-00	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	mV	%
Time: 0950								
Method: PERISTALTIC	CLEAR	6.12	1.98	14.56	-3	1.87	-128	0.0

PURGE DATA:

Date: 6-11-00
Method: PERISTALTIC
Monitor Reading (ppm): 0
Well Casing Diameter & Material
Type: 1 1/4" PVC
Total Well Depth (TD): 10.90
Static Water Level (WL): 3.95
One Casing Volume(gal):
Start Purge (hrs): 0850
End Purge (hrs): 0945
Total Purge Time (min): 55
Total Vol. Purged (gal):

See Attached Low Flow Purge Data Sheet for Purge Data

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	(3) 40 ml Vial	✓

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s): SJ Conti

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: 7TW5
DATE: 6-11-00

Time (Hrs.)	Water Level (Ft. below ~~TOC~~ BGS)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. LAMOTTE (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. ~~PPT.~~ %	Comments
0850	3.95	300	5.55	.273	55	3.52	14.76	-182	0.0	
0855	4.30	"	5.52	.250	10	2.58	14.85	-167	0.0	
0900	4.33	"	5.51	.229	3.7	2.19	14.75	-154	0.0	
0905	4.33	"	5.53	.221	10	2.01	14.71	-153	0.0	
0910	4.35	"	5.58	.213	4.2	1.92	14.64	-143	0.0	
0915	4.35	"	5.66	.211	1.7	1.91	14.62	-140	0.0	
0920	4.35	"	5.77	.206	0.65	1.91	14.61	-140	0.0	
0925	4.38	"	5.88	.204	0.20	1.90	14.47	-141	0.0	
0930	4.38	"	5.97	.203	0.20	1.91	14.57	-138	0.0	
0935	4.38	"	6.06	.202	0.50	1.89	14.56	-134	0.0	
0940	4.38	"	6.09	.199	2-3	1.88	14.56	-130	0.0	
0945	4.38	"	6.12	.198	0.3	1.87	14.56	-128	0.0	

SIGNATURE(S): SJ Conti

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data TW
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: S7TW0601
Sample Location: 7TW06
Sampled By: K. SIMPSON
C.O.C. No.: 060800-1
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color	pH	S.C.	Temp.	Turbidity	DO	ORP	Salinity
Date: 6-11-00	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	mV	%
Time: 0945								
Method: PERISTALTIC	CLEAR	6.00	0.259	17.3	35	1.06	-276	0

PURGE DATA:

Date: 6-11-00
Method: PERISTALTIC
Monitor Reading (ppm): 0
Well Casing Diameter & Material
Type: 1¼" OD PVC
Total Well Depth (TD): 9.58 BGS
Static Water Level (WL): 3.55 BGS
One Casing Volume(gal):
Start Purge (hrs): 0848
End Purge (hrs): 0943
Total Purge Time (min):
Total Vol. Purged (gal):

See Attached Low Flow Purge Data Sheet for Purge Data

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	40 ml Vial	✓

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: 7TW06
DATE: 6·11·00

Time (Hrs.)	Water Level (Ft. below ~~TOC~~ BGS)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. % ~~PPT.~~	Comments
0850	5.80	360	6.20	0.341	112	3.20	17.4	-231	0	
0855	5.51	280	6.16	0.304	41	2.27	17.0	-280	0	
0900	5.51	↓	6.11	0.284	37	1.73	17.2	-283	0	
0905	5.51	↓	6.06	0.277	32	1.41	17.0	-294	0	
0910	5.51	↓	6.02	0.269	35	1.40	16.9	-303	0	
0915	5.53	↓	5.99	0.266	38	1.46	16.9	-299	0	
0920	5.30	250	5.99	0.261	49	1.44	17.2	-284	0	
0925	5.21	↓	5.98	0.265	49	1.37	17.3	-287	0	
0930	↓	↓	5.99	0.261	32	1.07	17.4	-283	0	
0935	↓	↓	5.99	0.258	33	1.04	17.2	-278	0	
0940	↓	↓	6.00	0.259	35	1.06	17.3	-276	0	
										END PURGE

SIGNATURE(S): K-1 E. Stump

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data TW
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: S7TW0701
Sample Location: 7TW07
Sampled By: K. SIMPSON
C.O.C. No.: 060800-1
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color	pH	S.C.	Temp.	Turbidity	DO	ORP	Salinity
Date: 6-11-00	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	mV	%
Time: 1430								
Method: PERISTALTIC	CLEAR	6.29	0.507	20.8	0	3.77	38	0

PURGE DATA:

Date: 6-11-00
Method: PERISTALTIC
Monitor Reading (ppm): 0
Well Casing Diameter & Material Type: 1¼" PVC
Total Well Depth (TD): 7.10 BGS
Static Water Level (WL): 2.62
One Casing Volume(gal): 0.4
Start Purge (hrs): 1355
End Purge (hrs): 1428
Total Purge Time (min): 33
Total Vol. Purged (gal): 2.2

See Attached Low Flow Purge Data Sheet for Purge Data

* TAKE AFTER DEVELOPMENT END DEV. 1355
START PURGE 1355

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	40 ml Vial	✓
		2X VOL FOR DUP	

OBSERVATIONS / NOTES:

PUMP INLET (TUBING) SET IN CENTER OF SCREEN

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	FD 0611001

Signature(s): K. S. Simpson

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: 7TW7
DATE: 6-11-00

Time (Hrs.)	Water Level (Ft. below ~~TOC~~ BGS)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. ~~PPT.~~ %	Comments
1355	2.62	250	6.39	0.511	0.1	4.70	20.7	12	0	DEV. & PURGE
1400	↓	↓	6.36	0.511	0	4.42	20.7	17	0	END DEV. 1355
1405			6.33	0.511	0	3.94	20.8	22	0	
1410			6.31	0.510	0	3.87	20.8	26	0	CLEAR, NO ODOR
1415			6.31	0.509	0	3.78	20.8	26	0	NO FREE PRODUCT
1420			6.29	0.504	0	3.61	20.8	26	0	
1425			6.29	0.507	0	3.77	20.8	38	0	END PURGE

SIGNATURE(S): [illegible]

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data TW
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: S7TW08 01
Sample Location: TW8
Sampled By: K. SIMPSON
C.O.C. No.: 0623002
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color	pH	S.C.	Temp.	Turbidity	DO	ORP	Salinity
Date: 6.24.00	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	mV	%
Time: 1000								
Method: PERISTALTIC PUMP	CLEAR	6.13	0.557	17.7	14	0.89	-151	0

PURGE DATA:

Date: 6.24.00
Method: PERISTALTIC PUMP
Monitor Reading (ppm): 0
Well Casing Diameter & Material Type: 1" ID PVC
Total Well Depth (TD): 10.30
Static Water Level (WL): 5.34 > BGS
One Casing Volume(gal): 0.41
Start Purge (hrs): 0845
End Purge (hrs): 0955
Total Purge Time (min): 70
Total Vol. Purged (gal): 2.1

See Attached Low Flow Purge Data Sheet for Purge Data

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	3 40 ml Vial	—
TCL SVOC	4°C	1 QT	—
TAL METALS + HARDNESS	HNO_3	1 500 ML PE	—
TSS, TDS, ALK, SULFATE, CHLORIDE	4°C	2 500 ML PE	—
ETHANE, ETHENE, METHANE	HCL/4°C	3 40 ML VIALS	—
TOC, AMMONIA	H_2SO_4/4°C	1 500 ML PE	✓
SULFIDE	NaOH/4°C	1 L PE	✓
PERCHLORATE	4°C	QT PE	✓
NA	4°C	500 ML PE @ 1030	✓

OBSERVATIONS / NOTES:

PUMP INLET 1' ± OFF BTM

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s): K. S. Simpson

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: 7TW8
DATE: 6.24.00

Time (Hrs.)	Water Level (Ft. below ~~TOC~~ BGS)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. % ~~PPT.~~	Comments
0845	5.34	—	—	—	—	—	—	—	—	START PURGE
0900	6.30	150	6.30	0.576	877	2.84	17.7	-114	0	LT BRN, HIGH SOLIDS
0905	6.40	↓	6.28	0.568	480	1.59	17.6	-105	0	NO ODOR
0910	6.47	↓	6.25	0.566	277	1.34	17.5	-113	0	CLEANED CELL
0920	6.53	↓	6.20	0.553	94	1.80	17.6	-83	0	
0925	6.18	110	6.17	0.556	32	0.83	17.7	-141	0	
0935	6.15	↓	6.15	0.557	16	0.66	17.7	-144	0	
0945	6.18	↓	6.12	0.557	16	0.92	17.7	-149	0	
0950	6.20	↓	6.12	0.557	15	0.97	17.6	-149	0	
0955	6.22	↓	6.13	0.557	14	0.89	17.7	-151		

SIGNATURE(S): [illegible]

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data TW
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: S7TW09 01
Sample Location: 7TW9
Sampled By: K. SIMPSON
C.O.C. No.: 062300-2
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color	pH	S.C.	Temp.	Turbidity	DO	ORP	Salinity
Date: 6.24.00	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	mV	%
Time: 1210								
Method: PERISTALTIC PUMP	CLEAR	6.09	0.576	19.8	47	1.85	13	0

PURGE DATA:

Date: 6.24.00
Method: PERISTALTIC PUMP
Monitor Reading (ppm): 0
Well Casing Diameter & Material Type: 1" ID PVC
Total Well Depth (TD): 9.55 > BGS
Static Water Level (WL): 5.16
One Casing Volume(gal): ~~9.55~~ KS → 0.4 ONE VOL (GAL)
Start Purge (hrs): 1055
End Purge (hrs): 1205
Total Purge Time (min): 70
Total Vol. Purged (gal): 1.9

See Attached Low Flow Purge Data Sheet for Purge Data

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	40 ml Vial	✓
TCL SVOC			✓
TAL METALS + HARDNESS			✓
TSS TDS ALK, SULFATE, CHLORIDE		COC	✓
ETHANE, ETHENE, METHANE	SEE		✓
TOC, AMMONIA			✓
SULFIDE			✓
PERCHLORATE			✓
NA		@1245	✓

OBSERVATIONS / NOTES:

SOME TO TRACE FINE SAND

PUMP INLET (TUBING) SET 0.9' OFF BTM

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s): [illegible]

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: 7TW9
DATE: 6.24.00

Time (Hrs.)	Water Level (Ft. below ~~TOC~~ BFS)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. ~~PPT.~~ %	Comments
1055	5.16	150	—	—	—	—	—	—	—	LT. BRN, HIGH SOLIDS
1100	6.80	100	6.26	0.515	999+	5.50	20.0	43	0	NO ODOR
1105	7.50	↓	6.18	0.518	991	2.19	20.2	30	0	
1010	7.99		6.14	0.518	780	2.20	20.4	31	0	
1115	8.40		6.10	0.516	520	2.16	19.8	35	0	CLEANED CELL
1120	8.49		6.12	0.479	320	2.56	19.8	46	0	
1125	8.55		6.09	0.499	200	2.75	19.8	37	0	
1130	8.55		6.08	0.511	120	2.22	19.8	32	0	
1140	8.73		6.09	0.514	78	1.93	19.8	25	0	
1145	8.74		6.10	0.514	43	1.86	19.8	23	0	
1150	8.79		6.09	0.514	39	2.01	19.8	21	0	
1200	9.03		6.11	0.514	42	1.87	19.8	15	0	
1205	9.14	↓	6.09	0.516	47	1.85	19.8	13	0	END PURGE
										100 ML/MIN IS LOWEST PUMP SETTING

SIGNATURE(S): [illegible]

BTM = 9.55'

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data TW
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: S7TW1001
Sample Location: 7TW10
Sampled By: K. SIMPSON
C.O.C. No.: 062300-2
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color	pH	S.C.	Temp.	Turbidity	DO	ORP	Salinity
Date: 6-25-00								
Time: 0915	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	mV	%
Method: PERISTALTIC	CLEAR	6.46	0.331	19.8	4.5	7.96	9	0

PURGE DATA:

Date: 6-25-00
Method: PERISTALTIC
Monitor Reading (ppm): 0
Well Casing Diameter & Material
Type: 1" PVC TW
Total Well Depth (TD): 10.95 > BGS
Static Water Level (WL): 4.54
One Casing Volume(gal): 0.53
Start Purge (hrs): 0816
End Purge (hrs): 0910
Total Purge Time (min): 54
Total Vol. Purged (gal): 0.72

See Attached Low Flow Purge Data Sheet for Purge Data

TD = 10.95 BGS

END SAMPLING @ 1053

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	40 ml Vial	✓
SVOC	4°C		✓
PERCHLORATE	4°C		✓
TSS, TDS	4°C		✓
LAB NA PARAMETERS	SEE COC		✓
METALS	HNO_3		
FIELD NA PARAMETERS		@ 1045	✓

OBSERVATIONS / NOTES:

LOW VOL. WELL; MAKING ≈ 50 ML/MIN
LOWEST PUMP SETTING = 100 ML/MIN LET PUMP RUN & PUMPING WHAT WELL WILL "MAKE" 50 ML/MIN

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s): [illegible]

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: 7TW10
DATE: 6-25-00

Time (Hrs.)	Water Level (Ft. below ~~TOC~~ BGS)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. ~~PPT.~~ %	Comments
0816	4.54	100	—	—	—	—	—	—	—	LT BRN, HIGH SOLIDS
0820	10.10	↓	6.59	0.438	636	2.84	17.9	168	0	NO ODOR
0830	10.12	50	6.54	0.395	356	5.87	18.1	37	0	
0840	↓	↓	6.49	0.363	64	7.19	19.4	17	0	CLEARING
0850			6.50	0.333	15	7.79	19.8	8	0	CLEANED CELL
0855			6.47	0.334	8.9	7.97	19.8	9	0	
0900			6.47	0.333	5.7	7.99	19.7	9	0	
0905			6.45	0.332	5.8	8.01	19.8	9	0	
0910	↓	↓	6.46	0.331	4.5	7.96	19.8	9	0	END PURGE
										LOW VOL. AIR IN PUMP DISCHARGE (LOW FLOW) MAY AFFECT DO & TEMP

SIGNATURE(S): [illegible]

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: S7MWID 01
Sample Location: S7MWID
Sampled By: Cercone
C.O.C. No.: 070701
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity
Date: 7-7-00								
Time: 1530								
Method: Grunfos.	Clear	6.26	0.145	14.0	5	5.34	119	0

PURGE DATA:

Date: 7-7-00
Method: Grunfos
Monitor Reading (ppm): 0
Well Casing Diameter & Material Type: 6" Open BH
Total Well Depth (TD): 24.00
Static Water Level (WL): 9.83
One Casing Volume(gal):
Start Purge (hrs): 1354
End Purge (hrs): 1530
Total Purge Time (min): 96
Total Vol. Purged (gal): 7+

See Attached Low Flow Purge Data Sheet for Purge Data

SAMPLE COLLECTION INFORMATION:

	Analysis	Preservative	Container Requirements	Collected
	TCL VOLATILES	HCL / 4° C	40 ml Vial	✓
	SVOC	4°C		✓
	Tot Metals	4°C HNO3		✓
	Diss Metals	"		✓
	Perchlorate	4°C		✓
	TSS TDS	4°C		✓
N	Sulfide			✓
A	Ethane, Methane, ethene			✓
	Ammonia			✓
P	Cl⁻			✓
R	Alkalinity			✓
Ms	Hardness			✓

OBSERVATIONS / NOTES:

Pump is 2 ft from bottom of Borehole

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s): DP Cercone

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: 7 MW 1D
DATE: 7-7-00

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. PPT.	Comments
1354	9.83	—	6.3	0.171	NM	6.78	12.3	114	0	
1357	9.82	280	6.3	0.169	8	5.12	13.2	113	0	2L
1403	9.82	200	6.3	0.168	8	4.68	13.8	115	0	
1407	9.82	250	6.28	0.168	7	4.62	13.9	116	0	
1411	"	"	6.27	0.167	7	4.42	14.3	117	0	
1415	"	"	6.26	0.167	7	4.42	15.3	120	0	
1422	"	"	6.25	0.166	7	4.42	15.2	121	0	
1426	"	"	6.24	0.164	8	4.58	13.4	121	0	
1430	"	"	6.24	0.164	6	4.55	13.4	121	0	
1434	"	"	"	0.161	6	4.60	14.0	121	0	10L
1442	"	"	"	0.162	7	4.62	14.0	121	0	
1446	"	"	"	0.162	NM	4.69	13.7	121	0	
1451	"	"	"	0.159	7	4.75	13.8	120	0	
1455	"	"	"	0.156	7	4.79	13.8	120	0	15L
1459	"	"	"	0.155	NM	4.83	13.9	120	0	
1503	"	"	6.25	0.155	7	4.95	13.8	119	0	
1507	"	"	"	0.153	5	4.99	13.8	119	0	
1512	"	"	6.26	0.153	6	5.18	13.7	119	0	
1519	"	"	6.26	0.148	5	5.18	13.9	119	0	20L
1523	"	"	6.26	0.146	5	5.30	14.0	119	0	
1526	"	"	6.26	0.144	5	5.37	14.0	119	0	
1529	"	"	6.26	NM	5	5.32	14.0	119	0	23L
1530	"	"	6.26	0.145	5	5.34	14.0	119	0	SAMPLE

SIGNATURE(S): D P Cercone

PAGE__OF__

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: S7-MW-25-01
Sample Location: S7-MW25
Sampled By: Cercone
C.O.C. No.: 070700 1
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color	pH	S.C.	Temp.	Turbidity	DO	ORP	Salinity
Date: 7-8-00	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	mV	
Time: 1440								
Method: Grunfos	Clear	5.79	0.152	12.4	2	0.24	-46	0

PURGE DATA:

Date: 7/8/00	See Attached Low Flow Purge Data Sheet for Purge Data
Method: Low flow	
Monitor Reading (ppm): -	
Well Casing Diameter & Material Type: 2" PVC	
Total Well Depth (TD):	
Static Water Level (WL): ~~5.2~~ 8.68	
One Casing Volume(gal):	
Start Purge (hrs): 1220	
End Purge (hrs): 1440	
Total Purge Time (min): 140	
Total Vol. Purged (gal): 10	

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	40 ml Vial	✓
SVOCs			✓
Tot Metals			✓
Perchlorate			✓
TSS TDS Cl⁻			✓
Sulfide			✓
Ethane Ethene Meth			✓
Ammonia			✓
Cl⁻			✓
Alkalinity			✓
Hardness			✓

OBSERVATIONS / NOTES:

Well in thick brush - no lock. TtNUS put on a new lock

Circle if Applicable:

MS/MSD ___ Duplicate ID No.: ___

Signature(s): DP Cercone

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: 7-MW-25
DATE: 7/8/00

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. PPT.	Comments
1310	8.68	240								Rusty Start
1312	8.82	NM	5.21	0.228	>200	1.79	15.00	54	0	1L
1316	8.82	200	5.02	0.198	>200	1.03	15.72	48	0	
1320	8.82	200	5.16	0.173	33	1.00	16.39	33	0	
1330	8.95	400	5.38	0.166	25	0.81	16.04	7	0	4L
1335	8.95	NM	5.43	0.160	12	0.62	16.26	-5	0	5L
1342	Pump	Stopped -		Turbidity		Shot	up.			
			~~6.69~~							
1352	9.12	400	5.57	0.142	6.7	0.40	13.84	-23	0	
1357	9.12	400	5.63	0.140	3	0.37	13.74	-28	0	
1400	9.12	400	5.69	0.139	3	0.36	13.8	-35	0	
1403	9.10	400	5.72	0.138	2	0.36	14.0	-36	0	
1408	8.90	400	6.05	0.135	1	0.35	15.0	-55	0	
1416	8.90	400	5.88	0.134	2	0.37	13.8	-48	0	
1420	9.10	400	5.92	0.133	2	0.37	14.1	-51	0	
1429	9.10	400	5.91	0.134	2	0.26	12.9	-50	0	
1432	9.10	400	5.84	0.133	2	0.25	12.5	-47	0	
1435	9.10	400	5.79	0.132	2	0.24	12.4	-44	0	
1438	9.10	400	5.78	0.131	2	0.24	12.4	-44	0	
1440	9.10	400	5.79	0.132	2	0.24	12.4	-46	0	SAMPLE

SIGNATURE(S): David Cercone

PAGE ___ OF ___

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: S7 MW 2D01
Sample Location: 7MW2D
Sampled By: M MULKS
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color	pH	S.C.	Temp.	Turbidity	DO	ORP	Salinity
Date: 7/5/00	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	mV	%
Time: 1255								
Method: low flow / Grundfos	CLEAR	6.00	.117	18.2	0.15	1.21	132	0.0

PURGE DATA:

Date: 7.8.00	See Attached Low Flow Purge Data Sheet for Purge Data
Method: Grunfos	
Monitor Reading (ppm): 0	
Well Casing Diameter & Material Type: 2" PVC	
Total Well Depth (TD): 44.50	
Static Water Level (WL): 5.00	5.20' @ 1220 pm
One Casing Volume(gal): 6.2	
Start Purge (hrs): 1235	
End Purge (hrs): 1355	
Total Purge Time (min): 80	
Total Vol. Purged (gal): ~3.7	

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	40 ml Vial	
SEE CHAIN OF CUSTODY			

OBSERVATIONS / NOTES:

Pump set @ 35' bgs. - Permeable Fractures

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: 7-MW-20
DATE: 7/8/00

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. % ~~PPT.~~	Comments
1240	6.88	200	6.22	.125	5.42	4.98	18.8	129	0.0	
1245	7.65	150	6.09	.122	1.18	2.26	18.0	120	0.0	
1250	8.23	175	6.08	.121	1.20	1.98	18.8	118	0.0	
1255	8.85	150	6.05	.118	0.73	1.80	18.4	122	0.0	
1300	9.92	175	6.02	.120	0.65	1.70	17.2	127	0.0	
1305	10.93	180	6.02	.117	0.75	1.51	15.2	128	0.0	
1310	11.45	180	6.01	.118	0.74	1.49	17.5	128	0.0	
1315	11.88	180	6.00	.118	0.72	1.50	17.9	129	0.0	
1320	12.40	180	5.98	.117	0.74	1.53	17.2	131	0.0	
1325	12.92	180	6.00	.116	0.40	1.50	17.6	130	0.0	
1330	13.24	180	5.98	.116	0.23	1.64	17.3	133	0.0	
1335	13.54	180	5.98	.115	0.33	1.51	17.4	133	0.0	
1340	13.53	180	5.98	.115	0.21	1.61	18.3	132	0.0	
1345	13.53	180	6.00	.114	0.28	1.68	18.0	131	0.0	
1350	13.50	180	5.99	.114	0.10	1.70	18.0	131	0.0	
1355	13.51	180	6.00	.113	0.15	1.71	18.2	132	0.0	
	SAMPLED @ 1355									
	END SAMPLING 1430									

SIGNATURE(S): [illegible]

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: S7MW35 01
Sample Location: 7MW35
Sampled By: Cerone
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color	pH	S.C.	Temp.	Turbidity	DO	ORP	Salinity
Date: 7-11-00	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	mV	
Time: 0900								
Method: Grunfos	Clear	6.25	0.590	16.6	0.32	0.46	97	0

PURGE DATA:

Date: 7-11-00
Method: Grunfos.
Monitor Reading (ppm): -
Well Casing Diameter & Material Type: 2" PVC
Total Well Depth (TD): 14.6
Static Water Level (WL): 6.45
One Casing Volume(gal):
Start Purge (hrs): 0810
End Purge (hrs): 0900
Total Purge Time (min): 50
Total Vol. Purged (gal):

See Attached Low Flow Purge Data Sheet for Purge Data

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	3 x 40 ml Vial	4C ✓
TCL SVOC + PAHs	4°C	2 x 1L Amber	✓
TAL Metals + Hardness	HNO3	1 x 500 mL P	HNO3 ✓
TSS, TDS, Alka, SO4, Cl-	4°C	1 x 1L P	✓
Ethene Ethane Methane	HCl	3 x 40 ml vials	✓
TOC Ammonia.	H2SO4	1 x 1L P	✓
Sulfide	NaOH+Zn	1 x 1L P	✓
Perchlorate	4°C	1 x 1L P	✓

OBSERVATIONS / NOTES:

Pump intake @ 10' bgs

Circle if Applicable:

MS/MSD	Duplicate ID No.:
–	–

Signature(s): DP Cerone

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: 7MW 3S
DATE: 7-11-00

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. % ~~PPT.~~	Comments
0810	6.45	280	6.41	0.623	Clear	4.48	17.0	125	0	START
0816	6.84	200-250	6.28	0.595	2	1.22	17.9	107	0	Clear 1L
0825	7.03	200-250	6.27	0.601	2	0.68	17.2	99	0	3L
0830	6.95	NM	6.26	0.601	NM	0.67	17.6	97	0	4L
0839	7.22	300	6.25	0.591	0.69	0.47	16.6	98	0	7L
0843	7.23	300	6.25	0.590	0.51	0.49	16.7	97	0	
0847	7.23	300	6.25	0.590	0.32	0.48	16.6	97	0	
0900	SAMPLE									

SIGNATURE(S): DP Cercone

PAGE 1 OF 1

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: S7 MW03D 01
Sample Location: 7mw3D
Sampled By: DP Cercone
C.O.C. No.: 062300-2
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 6.24.00								
Time: 1245								
Method: SUBMERSIBLE	CLEAR	6.29	0.68	18.2	14	0.27	112	0

PURGE DATA:

Date: 6-24-00	See Attached Low Flow Purge Data Sheet for Purge Data
Method: Submersible	
Monitor Reading (ppm): 0	
Well Casing Diameter & Material Type: 2" PVC	
Total Well Depth (TD): 44.5	
Static Water Level (WL): 3.51	
One Casing Volume(gal): 5.2	
Start Purge (hrs): 0950	
End Purge (hrs): 1245	
Total Purge Time (min): 185	
Total Vol. Purged (gal): 45	

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	40 ml Vial	✓
SVOCS	4°C		✓
METALS + HARDNESS	HNO3		✓
PERCHLORATE	4°C		✓
TSS TDS			✓
ETHANE ETHENE, METHANE	HCL 4°C		
NA Parameters			
- Sulfide	NaOH - 4°C		✓
- Ammonia	} 4°C		✓
- TOC	} H2SO4		✓
~~- Sulfide~~	~~NaOH, 4°C~~		✓
SULFATE Alkalinity Chloride	4°C		✓

OBSERVATIONS / NOTES:

Well was redeveloped due to sediment build up in bottom

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s): DP Cercone

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: 7 MW 3D
DATE: 6-24-00

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. PPT.	Comments
0950	8.51	400	5.8	0.720	989	0.96	14.9	207	0.0	V TURBID
	Purging was changed to well redevelopment									λ = 69
	because a sediment build up in the well needed to									
	be removed for a reasonable sample to be									
	collected. After sediment was removed the low flow									
	process was reinitiated. 1105 am 25 gallons removed.									
1105										
1105	9.48	400	5.84	0.681	76	0.33	15.76	146	0	
1109		400	5.85	0.68	52	0.31	15.79	146	0	
1117	9.45	400	5.94	0.68	32	0.27	15.83	141	0	5L
1125	9.18	400	6.06	0.68	26	0.26	16.33	129	0	8L
1135	NM	400	6.19	0.68	25	0.30	16.83	121	0	12L
1144	NM	400	6.21	0.68	40	0.48	16.83	122	0	15L FLOW THRU
1154	9.05	400	6.09	0.68	16	0.34	17.25	131	0	19L OVERTURNED
1204	9.05	400	6.23	0.68	25	0.33	17.50	118	0	23L
1214	9.05	400	6.24	0.68	25	0.31	17.75	116	0	27L
1224	9.05	400	6.29	0.68	18	0.28	18.13	113	0	31L
1234	9.05	400	6.29	0.68	14	0.27	18.21	112	0	34L
1244										
1245	SAMPLE									

SIGNATURE(S): David P. Cercone

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: 57MW03D01
Sample Location: 57MW03D
Sampled By: MW/DC
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color	pH	S.C.	Temp.	Turbidity	DO	ORP	Salinity
Date: 7/11/00	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	mV	%
Time: 1710								
Method: Geyspeus/Low Flow	Clear	5.82	0.733	16.2	356	0.26	69	0.0

PURGE DATA:

Date: 7/11/00
Method: Geyspeus/Low Flow
Monitor Reading (ppm): –
Well Casing Diameter & Material
Type: 2" PVC
Total Well Depth (TD): 45.9'
Static Water Level (WL): 9.25'
One Casing Volume(gal): 6.0
Start Purge (hrs): 1625
End Purge (hrs): 1710
Total Purge Time (min): 45
Total Vol. Purged (gal): 2.4

See Attached Low Flow Purge Data Sheet for Purge Data

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
~~TCL VOLATILES~~	~~HCL/4°C~~	~~40 ml Vial~~	
SVOC / PAHs	4°C	2 - 1 LITERS AMBER	X
		[redacted]	

OBSERVATIONS / NOTES:

PUMP DEPTH @ 40'
COLLECTED SAMPLE AFTER THREE STABILIZED READINGS.

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: S7MW03D
DATE: 7/11/00

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. % ~~PPT.~~	Comments
1625	9.25'	200	5.99	0.759	689	4.79	16.7	112	0.0	
1630	9.37	200	5.88	0.735	<999	0.63	16.7	61	0.0	
1635	9.40	200	5.83	0.733	715	0.44	16.2	67	0.0	
1640	9.40	200	5.79	0.735	973	0.37	16.6	70	0.0	
1645	9.40	200	5.77	0.733	658	0.34	16.4	70	0.0	
1650	9.40	200	5.77	0.732	442	0.31	16.2	67	0.0	
1655	9.40	200	5.78	0.734	630	0.31	15.9	74	0.0	
1700	9.40	200	5.79	0.731	543	0.29	16.0	78	0.0	
1705	9.40	200	5.80	0.733	328	0.25	16.2	68	0.0	
1710	9.40	200	5.82	0.733	356	0.26	16.2	69	0.0	
	SAMPLED FOR	PAH/SVOCS @		1710						

SIGNATURE(S): [signature]

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: S7MW04S01
Sample Location: 7MW4S
Sampled By: MW/KS
C.O.C. No.: C707001
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color	pH	S.C.	Temp.	Turbidity	DO	ORP	Salinity
Date: 7/19/00								
Time: 0945	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	mV	%
Method: GRUNDFOS/LOW FLOW	CLEAR	6.58	0.735	21.4	1.5	2.32	89	0.0

PURGE DATA:

Date: 7/19/00
Method: GRUNDFOS
Monitor Reading (ppm): NA
Well Casing Diameter & Material Type: 2" PVC
Total Well Depth (TD): 13.25
Static Water Level (WL): 2.60
One Casing Volume(gal): 1.7
Start Purge (hrs): 0905
End Purge (hrs): 0945
Total Purge Time (min): 40
Total Vol. Purged (gal): 2.1

See Attached Low Flow Purge Data Sheet for Purge Data

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	40 ml Vial	
SEE CHAIN OF CUSTODY			

OBSERVATIONS / NOTES:

Pump placed @ 10½ ft-bgs.

Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s):

Matt Woolford.

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: 7MW4S
DATE: 7.9.00

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. ~~PPT.~~ %	Comments
0905	2.60	200	6.68	1.59	-	5.14	17.8	86	0.1	
0910	2.60	200	6.84	1.35	11.7	2.02	18.4	72	0.1	
0915	2.60	200	6.86	1.14	9.56	2.21	19.3	59	0.1	
0920	2.60	200	6.76	0.833	4.50	2.66	20.3	69	0.0	
0925	2.60	200	6.67	0.754	SEE COMMENTS	2.65	21.2	79	0.0	-TRANSFERRED TUBING TO MW-4R
0930	2.60	200	6.62	0.752	" "	2.74	21.3	83	0.0	OVER TO 8325MW1
0935	2.60	200	6.60	0.743	2.1	2.71	21.5	86	0.0	
0940	2.60	200	6.58	0.735	1.5	2.73	21.4	89	0.0	
~~0945~~										
~~0950~~										
~~0955~~										
~~1000~~										
~~1005~~										
	SAMPLED @ 0945									
	FINISHED SAMPLING @ 1000									

SIGNATURE(S): [illegible]

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: S7MW05S01
Sample Location: 7MW55
Sampled By: MW/KS
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 7/10/00								
Time: 1655								
Method: GRUNDFOS/LOW FLOW	CLEAR	6.04	0.[illegible]	17.2	1.4	8.05	[illegible]	0.0

PURGE DATA:

Date: 7/10/00
Method: GRUNDFOS/LOW FLOW
Monitor Reading (ppm): -
Well Casing Diameter & Material Type: 2" PVC
Total Well Depth (TD): 16.6
Static Water Level (WL): 12.4
One Casing Volume(gal): 0.7
Start Purge (hrs): 1620
End Purge (hrs): 1655
Total Purge Time (min): 35
Total Vol. Purged (gal): 2.6

See Attached Low Flow Purge Data Sheet for Purge Data

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	40 ml Vial	
SEE CHAIN OF CUSTODY FOR ANALYSES COLLECTED			

OBSERVATIONS / NOTES:

PUMP DEPTH @ 14.5'

Circle if Applicable:

~~MS/MSD~~ Duplicate ID No.: FD-0710001

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: $7MW05$
DATE: 7/10/00

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. % ~~PPT.~~	Comments
1620	12.30	240	7.24	0.186	27.2	12.41	18.3	96	0.0	
1625	12.30	240	6.16	0.141	7.6	8.83	18.0	117	0.0	
1630	12.32	260	6.08	0.139	4.2	8.39	18.4	128	0.0	
1635	12.32	250	6.07	0.129	2.7	8.28	17.5	133	0.0	
1640	12.32	250	6.05	0.125	2.0	8.30	18.1	136	0.0	
1645	12.32	250	6.05	0.117	1.4	8.49	17.5	138	0.0	
1650	12.32	250	6.04	0.115	1.2	8.22	18.0	140	0.0	
1655	12.32	250	6.04	0.111	1.4	8.05	18.2	141	0.0	
	SAMPLED @	1655								
	FINISHED SAMPLING	1735								

SIGNATURE(S): [signature]

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: S7MW05D01
Sample Location: S7MW05D
Sampled By: MW/KS
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color	pH	S.C.	Temp.	Turbidity	DO	ORP	Salinity
Date: 7/11/00 7/12/00	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	mV	%
Time: 0750								
Method: LOW FLOW / GRUNDFOS	CLEAR	7.17	0.820	14.2	<16.9	3.51	33	0.0

PURGE DATA:

Date: 7/10/00
Method: LOW FLOW / GRUNDFOS
Monitor Reading (ppm): –
Well Casing Diameter & Material
Type: 2" PVC
Total Well Depth (TD): 42'
Static Water Level (WL): 13.35
One Casing Volume(gal): 4.7
Start Purge (hrs): 1255
End Purge (hrs): 1535
Total Purge Time (min): 65
Total Vol. Purged (gal): ~4

See Attached Low Flow Purge Data Sheet for Purge Data

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	40 ml Vial	
		SEE COC	

OBSERVATIONS / NOTES:

7/10/00 – PUMP CEASED AT 1340
PULLED THE PUMP TO FIX
BEGAN PUMPING WELL DRY AT 1510
WELL WENT DRY AT 38' (1535)

7/11/00 PUMP INTAKE AT 39'
W.L. – 34.95'
STARTED SAMPLING IMMEDIATELY.
COLLECTED ALL PARAMETERS
EXCEPT FOR PERCHLORATE, SULFIDE,
AND WATER CHEMISTRY

7/12/00 W.L. – 36.8'
SAMPLED FOR PERCHLORATE, WATER CHEMISTRY AND SULFIDE @ 0730

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: 87MW05D
DATE: 7/10/00

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. ~~PPT.~~ %	Comments
1255	12.16	200	7.19	0.830	–	8.12	18.2	27	0.0	
1300	13.50	200	7.25	0.811	150	6.67	20.3	22	0.0	HORIBA TURB READING
1305	14.80	200	7.18	0.810	140	4.22	19.3	26	0.0	"
1310	16.12	200	7.18	0.806	140	3.84	18.5	40	0.0	"
1315	17.65	175	7.17	0.794	–	3.51	18.2	45	0.0	
1320	18.60	175	7.18	0.799	–	3.38	18.8	47	0.0	
1325	19.35	175	7.18	0.789	–	3.24	20.6	52	0.0	
1330	19.71	175	7.20	0.784	–	3.23	18.3	60	0.0	
1335	21.50	175	7.17	0.794	–	3.41	19.6	39	0.0	
1340										PUMP SHUT OFF
										PULLED PUMP TO FIX
1510	23.08	175	7.20	0.818	16.9	6.81	19.0	36	0.0	LAMOTTE TURB READING
1520	25.25	250	7.20	0.821	–	4.90	17.2	34	0.0	
1525	30.89	400	7.18	0.856	–	3.73	14.8	23	0.0	
1530	35.75	400	7.17	0.820	–	3.51	14.2	33	0.0	
1535	38.00									WELL WENT DRY
	SAMPLE COLLECTED @		0750	ON 7/11/00						

SIGNATURE(S): [signature]

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: 57MW06S 01
Sample Location: 57MW06S
Sampled By:
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color	pH	S.C.	Temp.	Turbidity	DO	ORP	Salinity
Date: 7-11-00	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	mV	
Time: 1205								
Method: Grundfos	clear	6.11	0.426	23.5	2.0	0.43	-70	0

PURGE DATA:

Date: 7-11-00
Method: Grundfos
Monitor Reading (ppm): -
Well Casing Diameter & Material Type: 2" PVC
Total Well Depth (TD):
Static Water Level (WL): 4.44
One Casing Volume(gal):
Start Purge (hrs): 1105
End Purge (hrs): 1200
Total Purge Time (min): 55
Total Vol. Purged (gal): 7-8

See Attached Low Flow Purge Data Sheet for Purge Data

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	3x 40 ml Vial	✓
TAL Metals + Hardness	HNO3	500 ml P	✓
TSS TDS Alk, SO4, Cl-		1L P	✓
Ethane Ethene, Methane	HCl	3x 40 ml	✓
TOC, Ammonia	H2SO4	1x 1L P	✓
SULFIDE	NaOH & Zn Ac	1 L P	✓
Perchlorate	4°C	1 L P	✓
TCL SVOC & PAH		2x 1L G	✓

OBSERVATIONS / NOTES:

Pump @ 9½' bgs. Lots of iron, orange water at initial purge time

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s): D.P. Carone

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: 7 MW 6 S
DATE: 7-11-00

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. % ~~PPT.~~	Comments
1105	4.44	200-300	6.							Start. λ = 59
1107	4.68	200	6.21	0.459	400	1.44	22.9	54	0	
1111	4.70	200	6.19	0.458	52	1.01	23.6	54	0	1L
1116	4.71	200	6.18	0.460	18	~~6~~ ?	24.0	48	0	Clear 2L
1121	4.74	200	6.16	0.456	13	1.17	23.9	32	0	
1127	4.80	200	6.13	0.452	7	1.03	23.5	-39	0	
1131	4.86	200	6.13	0.448	NM	0.61	23.5	-58	0	
1141	4.85	200	6.12	0.441	NM	0.56	23.6	-74	0	
1146	NM	400	6.12	0.437	NM	0.47	23.6	-74	0	
1154	4.95	400	6.12	0.432	1.6	0.42	23.4	-78	0	
1157	4.95	400	6.11	0.428	2.2	0.45	23.6	-78	0	
1200	4.95	400	6.11	0.426	2.0	0.43	23.5	-76	0	SAMPLE
1205	SAMPLE									

SIGNATURE(S): D P Cuone

PAGE___OF___

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: S7 MW07 S01
Sample Location: S7 MW07 S
Sampled By: MW/KS
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 7/10/00								
Time: 0910								
Method: GRUNDFOS/LOW FLOW	CLEAR	6.61	0.375	21.3	1.19	2.40	99	0.0

PURGE DATA:

Date: 7/10/00
Method: GRUNDFOS/LOW FLOW
Monitor Reading (ppm): —
Well Casing Diameter & Material Type: 2" PVC
Total Well Depth (TD): 15.10'
Static Water Level (WL): 2.33
One Casing Volume(gal): 2.1
Start Purge (hrs): 0815
End Purge (hrs): 0905
Total Purge Time (min): 50
Total Vol. Purged (gal): 3.3

See Attached Low Flow Purge Data Sheet for Purge Data

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	40 ml Vial	
SEE COC FOR ANALYSES COLLECTED			

OBSERVATIONS / NOTES:

PUMP DEPTH 10'

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

~~TO 13.35~~
~~D 12.00~~

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: S7MW07S
DATE: 7/10/00

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. ~~PPT.~~ %	Comments
0815	2.33	200	6.35	0.123	-	5.97	18.6	113	0.1	
0820	2.33	200	6.77	0.960	110	1.00	19.6	65	0.0	NOTICE TURB. READING
0825	2.33	250	6.74	0.606	63	1.63	19.9	70	0.0	" "
0830	2.33	250	6.65	0.534	22	1.40	20.4	82	0.0	" "
0835	2.33	250	6.64	0.487	5.7	1.28	20.5	86	0.0	LAMOTTE TURB READING
0840	2.33	250	6.62	0.439	-	1.47	20.5	90	0.0	
0845	2.33	250	6.61	0.415	-	1.81	20.3	93	0.0	
0850	2.33	250	6.60	0.379	-	2.06	20.9	96	0.0	
0855	2.33	225	6.60	0.386	1.41	2.20	21.2	98	0.0	LAMOTTE TURB READING
0900	2.33	250	6.61	0.382	1.14	2.28	21.2	98	0.0	↓
0905	2.33	250	6.61	0.375	1.19	2.40	21.3	99	0.0	
	SAMPLED @	0910								

SIGNATURE(S): [signature]

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: S7-MW-08S01
Sample Location: 7-MW-8S
Sampled By: MATT W.
C.O.C. No.: 070700 1
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color	pH	S.C.	Temp.	Turbidity	DO	ORP	Salinity
Date: 7/8/00	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	mV	%
Time: 1000								
Method: Low flow	CLEAR	6.42	0.189	22.0	3.71	0.35	-36	0.0

PURGE DATA:

Date: 7/8/00
Method: Low flow
Monitor Reading (ppm): –
Well Casing Diameter & Material
Type: 2" PVC
Total Well Depth (TD): 13.5
Static Water Level (WL): 5.15
One Casing Volume(gal): 1.36
Start Purge (hrs): 0830
End Purge (hrs): 0945
Total Purge Time (min): 75
Total Vol. Purged (gal): ~ 4

S7MW08S01

See Attached Low Flow Purge Data Sheet for Purge Data

PUMP INLET ≈ 3' OFF BTM

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	40 ml Vial	
		SEE COC	
		3X VOL FOR MS/MSD	

OBSERVATIONS / NOTES:

Water Level was 6.31 after a dedicated bailer in the well was removed.

Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: 07-MW-08 $
DATE: 7/8/00

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. % ~~PPT.~~	Comments
0830	6.15	200	6.10	0.236	990	7.55	18.9	2	0.0	T.O - 13.5'
0835	6.45	120	6.31	0.219	890	1.21	19.4	-11	0.0	
0840	6.64	200	6.30	0.204	370	1.04	20.6	-15	0.0	
0845	6.64	200	6.29	0.198	78.8	0.70	21.2	-17	0.0	
0850	6.64	200	6.35	0.195	28.8	0.58	21.3	-22	0.0	
0855	6.69	200	6.37	0.190	22.4	0.56	21.4	-22	0.0	
0900	6.71	200	6.39	0.188	20.9	0.44	20.9	-27	0.0	
0905	6.65	200	6.40	0.188	12.0	0.40	21.3	-30	0.0	
0910	6.65	200	6.40	0.188	9.56	0.35	21.6	-26	0.0	
0915	6.65	200	6.40	0.189	7.27	0.34	21.6	-30	0.0	
0920	6.65	200	6.41	0.189	6.39	0.34	21.6	-32	0.0	
0925	6.65	200	6.41	0.188	7.25	0.34	21.8	-33	0.0	
0930	6.65	200	6.41	0.185	9.81	0.37	21.4	-35	0.0	
0935	6.65	200	6.40	0.189	6.29	0.37	21.7	-33	0.0	
0945	6.65	200	6.42	0.189	3.71	0.35	22.0	-36	0.0	
	SAMPLED	@ 1000								
	FINISHED	SAMPLING	@ 1040							

SIGNATURE(S): M. W.

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: S7MW09S01
Sample Location: S7MW09S
Sampled By: AW/KS
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 7/11/00								
Time: 1200								
Method: GRUNDFOS/LOW FLOW	CLEAR	5.88	0.580	17.8	2.2	1.06	55	0.0

PURGE DATA:

Date: 7/11/00
Method: GRUNDFOS/LOW FLOW
Monitor Reading (ppm): –
Well Casing Diameter & Material
Type: 2" PVC
Total Well Depth (TD): 14'
Static Water Level (WL): 5.91'
One Casing Volume(gal): 1.3
Start Purge (hrs): 1045
End Purge (hrs): 1155
Total Purge Time (min): 70
Total Vol. Purged (gal): 4.2

See Attached Low Flow Purge Data Sheet for Purge Data

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	40 ml Vial	
SEE CHAIN OF CUSTODY FOR	ANALYSES	COLLECTED	

OBSERVATIONS / NOTES:

PUMP DEPTH @ 12.0'
WATER TURNED TO LIGHT RUST COLOR DURING SAMPLE COLLECTION

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: $7 mw09$
DATE: 7/11/00

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. % ~~PPT.~~	Comments
1045	5.91	400	5.87	0.660	<999	3.04	17.2	188	0.0	ORANGE RUST COLORED
1050	6.54	400	5.88	0.642	<999	1.92	17.3	156	0.0	HORIBA TURB READING
1055	6.65	200	5.81	0.608	205	0.78	17.6	46	0.0	
1100	6.55	200	5.73	0.603	167	1.93	18.2	34	0.0	
1105	6.58	200	5.71	0.609	160	0.61	17.6	25	0.0	
1110	6.56	200	5.76	0.603	111	0.51	17.8	15	0.0	
1115	6.54	200	5.81	0.599	65	0.50	17.9	17	0.0	
1120	6.53	150	5.84	0.595	58	0.55	18.1	25	0.0	
1125	6.53	175	5.87	0.592	44	0.70	18.1	34	0.0	
1130	6.53	175	5.89	0.599	3.8	0.76	18.3	40	0.0	LAMOTTE TURB READING
1135	6.52	175	5.91	0.588	4.5	0.84	18.2	46	0.0	
1140	6.52	175	5.91	0.585	5.0	1.02	18.0	48	0.0	
1145	6.52	175	5.90	0.581	2.8	1.03	18.0	49	0.0	
1150	6.52	175	5.89	0.581	2.6	1.05	17.8	51	0.0	
1155	6.52	175	5.88	0.580	2.2	1.06	17.8	55	0.0	
	SAMPLED @	1200								
	FINISHED SAMPLING	1230								

SIGNATURE(S): [illegible]

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: S7MW10S 01
Sample Location: 7MW10S
Sampled By: K.S. & D.C.
C.O.C. No.: 070700-1
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color	pH	S.C.	Temp.	Turbidity	DO	ORP	Salinity
Date: 7·7·00	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	mV	%
Time: 1130								
Method: GRUNDFOS	CLEAR	6.10	0.459	17.0	0	5.25	162	0

PURGE DATA:

Date: 7·7·00
Method: GRUNDFOS
Monitor Reading (ppm):
Well Casing Diameter & Material
Type: 2" PVC
Total Well Depth (TD): 16.30
Static Water Level (WL): 12.63
One Casing Volume(gal): 0.6
Start Purge (hrs): 1038
End Purge (hrs): 1122
Total Purge Time (min): 44
Total Vol. Purged (gal): 3.5

See Attached Low Flow Purge Data Sheet for Purge Data

END SAMPLING @ 1146 WL = 12.69
START NA FIELD PARAMETERS 1148
END FIELD NA @ 1225

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	40 ml Vial	
	SEE	COC	
		2X VOL FOR DUP	

OBSERVATIONS / NOTES:

PUMP INLET SET 1'± OFF BTM.

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	YES FD 070700-1

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: 7MW10S
DATE: 7.7.00

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. % ~~PPT.~~	Comments
1042	12.69	320	6.06	0.492	2.4	6.33	15.6	178	0	CLEAR, NO ODOR
1050	↓	↓	6.13	0.471	0.9	6.45	16.3	173	↓	
1055	↓	↓	6.11	0.457	↓	6.54	17.3	170	↓	
1100	↓	300	6.12	0.463	↓	7.29	16.9	168	↓	
1105	↓	↓	6.11	0.460	0.1	5.20	17.0	165	↓	
1110	↓	↓	6.11	0.460	0	5.26	17.0	163	↓	
1115	↓	↓	6.10	0.460	↓	5.24	17.0	163	↓	
1120	↓	↓	6.10	0.459	↓	5.25	17.0	162	↓	END PURGE

SIGNATURE(S): [illegible]

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: f7mw11s01
Sample Location: f7mw11s
Sampled By: mw/ks
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 7/11/00								
Time: 1527								
Method: GRABBERS/LOW FLOW	CLEAR	6.14	0.547	29.2	0.3	0.45	[illegible]	0.0

PURGE DATA:

Date: 7/11/00
Method: GRABBERS/LOW FLOW
Monitor Reading (ppm): -
Well Casing Diameter & Material
Type: 2" PVC
Total Well Depth (TD): 14.15'
Static Water Level (WL): 4.09'
One Casing Volume(gal): 1.7
Start Purge (hrs): 1430
End Purge (hrs): 1520
Total Purge Time (min): 50
Total Vol. Purged (gal): 2.6

See Attached Low Flow Purge Data Sheet for Purge Data

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	40 ml Vial	
		SEE COC	

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: S7MW118
DATE: 7/11/00

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. % ~~PPT.~~	Comments
1430	4.09	200	6.25	0.535	12.4	8.12	22.0	45	0.0	
1435	4.16	200	6.09	0.539	6.2	0.83	21.6	21	0.0	
1440	4.16	200	6.08	0.539	4.4	0.64	22.3	16	0.0	
1445	4.17	200	6.08	0.544	4.1	0.50	22.5	12	0.0	
1450	4.17	200	6.07	0.546	2.0	0.50	22.7	11	0.0	
1455	4.17	200	6.11	0.542	2.1	0.62	24.3	12	0.0	
1500	4.17	200	6.12	0.543	1.2	0.53	24.3	12	0.0	
1505	4.17	200	6.19	0.546	0.9	0.48	24.2	12	0.0	
1510	4.17	200	6.14	0.548	0.9	0.44	23.7	12	0.0	
1515	4.16	200	6.19	0.548	1.3	0.44	23.8	12	0.0	
1520	4.16	200	6.14	0.547	0.3	0.45	24.2	11	0.0	
	SAMPLED @	1525								
	FINISHED SAMPLING @		1540							

SIGNATURE(S): [illegible]

PAGE___OF___

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: S7 B325MW0101
Sample Location: B325 - MW01
Sampled By: Cercone
C.O.C. No.: 070700 1
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color	pH	S.C.	Temp.	Turbidity	DO	ORP	Salinity
Date: 7-9-00								
Time: 0950	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	mV	%
Method: Grundfos	Clear	6.26	0.618	20.5	0.7	1.13	141	0

PURGE DATA:

Date: 7-9-00	See Attached Low Flow Purge Data Sheet for Purge Data
Method: Grundfos	
Monitor Reading (ppm): -	
Well Casing Diameter & Material Type: 2" PVC	
Total Well Depth (TD): 12.4	
Static Water Level (WL): 3.07	
One Casing Volume(gal):	
Start Purge (hrs): 0915	
End Purge (hrs):	
Total Purge Time (min):	
Total Vol. Purged (gal):	

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	40 ml Vial	
5 VOCs	4°C		
Metals + Hardness	4°C HNO3	SEE COC	
Perchlorate			
TSS, TDS, Cl⁻, Sulfate			
Sulfide			
Ethene Methane Ethane			
Ammonia TOC			
Alkalinity			
~~Hardness~~			

OBSERVATIONS / NOTES:

Pump intake @ 9' bgs

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s): D P Cercone

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: B325 MW01
DATE: 7-9-00

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. ~~PPT.~~ %	Comments
0917	3.07	360	6.42	0.645	Clear	2.6	19.26	143	0	Start Purge
0920	3.07	400	6.18	0.637	NM	1.4	19.23	145	0	Clear water
0923	3.07	400	6.20	0.623	1.8	1.4	20.4	147	0	3L
0928	3.07	400	6.13	0.619	1.5	1.2	20.5	147	0	4L
0931	3.07	400	6.14	0.618	1.2	1.1	20.5	146	0	5L
0934	3.07	400	6.16	0.618	1.17	1.17	20.5	146	0	6L
0937	3.07	400	6.18	0.617	NM	1.15	20.4	146	0	Stable 7L
0940	3.07	400	—	—	—	0.99	—	—	—	
0940	3.07	400	6.20	0.617	1	1.01	20.45	145	0	8L
0943	3.07	400	6.22	0.617	0.68	1.09	20.5	144	0	9L
0945	3.07	400	6.25	0.618	0.6	1.15	20.5	142	0	
0950	3.07	400	6.26	0.618	0.7	1.13	20.5	141	0	SAMPLE

SIGNATURE(S): D P Arcone

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: ~~[illegible]~~ $78325 MWC 301
Sample Location:
Sampled By: MW/KS
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color	pH	S.C.	Temp.	Turbidity	DO	ORP	Salinity
Date: 7/9/00	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	mV	%
Time: 1530								
Method: GRUNDFOS	CLEAR	6.29	0.538	21.8	5	0.76	94	0.0

PURGE DATA:

Date: 7/9/00
Method: GRUNDFOS / LOW FLOW
Monitor Reading (ppm): -
Well Casing Diameter & Material
Type: 2" PVC
Total Well Depth (TD): 10.85'
Static Water Level (WL): 1.76'
One Casing Volume(gal): 1.5
Start Purge (hrs): 1440
End Purge (hrs): 1530
Total Purge Time (min): 50
Total Vol. Purged (gal): 2.6

See Attached Low Flow Purge Data Sheet for Purge Data

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	40 ml Vial	
SEE CHAIN OF CUSTODY FOR ANALYSES COLLECTED			

OBSERVATIONS / NOTES:

PUMP DEPTH AT 8'

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: SFB325MW03 ~~7MW~~
DATE: 7/9/00

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. % ~~PPT.~~	Comments
1440	1.75	200	6.64	0.551	118	5.10	21.5	74	0.0	
1445	1.75	200	6.36	0.550	63	1.30	20.7	78	0.0	
1450	1.75	200	6.33	0.540	32	0.92	20.8	85	0.0	
1455	1.75	200	6.31	0.543	14	0.97	21.3	89	0.0	
1500	1.75	250	6.31	0.543	13	0.71	20.8	92	0.0	
1505	1.75	200	6.29	0.541	11	0.77	21.8	92	0.0	
1510	1.75	200	6.29	0.543	6	0.85	22.4	92	0.0	
1515	1.75	200	6.30	0.540	6	0.79	22.2	92	0.0	
1520	1.75	200	6.29	0.539	5	0.81	22.2	92	0.0	
1525	1.75	200	6.28	0.536	4	0.77	22.0	94	0.0	
1530	1.75	200	6.29	0.538	5	0.76	21.8	94	0.0	
	SAMPLED @	1530								

SIGNATURE(S): [signature]

PAGE___OF___

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: 57B325-MW0401
Sample Location: B325 MW04
Sampled By: Cercone
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color	pH	S.C.	Temp.	Turbidity	DO	ORP	Salinity
Date: 7-9-00	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	mV	
Time: 1010								
Method: Grunfos	Clear	6.64	0.415	22.3	4.4	2.48	101	0

PURGE DATA:

Date: 7-9-00
Method: Grunfos
Monitor Reading (ppm): –
Well Casing Diameter & Material
Type: 2" PVC
Total Well Depth (TD): 13.7
Static Water Level (WL): 4.00
One Casing Volume(gal):
Start Purge (hrs):
End Purge (hrs):
Total Purge Time (min):
Total Vol. Purged (gal):

See Attached Low Flow Purge Data Sheet for Purge Data

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	40 ml Vial	
SVOCs			
Metal + Hardness			

OBSERVATIONS / NOTES:

Pump is in the upper 4 ft of screen.

Circle if Applicable:

MS/MSD	Duplicate ID No.:
–	–

Signature(s): D P Cercone

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: B 325 - MW 04
DATE: 7-9-00

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. PPT.	Comments
1440	4.00	START	6.35		>200					
1450	4.50	400	6.35	0.324	>200	1.06	18.47	133	0	Cloudy 1L
1459	4.5	400	6.22	0.321		0.8	NM	140	0	1L
1503	4.5	400	6.25	0.325	500	0.6	20.5	134	0	
1509	4.5	400	6.26	0.344	650	0.66	20.64	135	0	
1517	4.5	400	6.28	0.356	520	0.53	20.51	140	0	
Turbidity was not dropping I decided to attempt to redevelop for 20 minutes										
1550	NM	400	6.44	0.434	136	5.21	20.3	115	0	
1557	4.72	400	6.50	0.421	188	5.34	20.5	118	0	
1605	NM	400	6.54	0.428	78	4.97	20.67	117	0	
1636	4.42	240	6.65	0.420	36	4.70	20.8	114	0	
1649		300	6.65	0.421	14	4.32	20.9	112	0	
Due to high DO readings I decide to do the well tomorrow. h = 54										
7-10 0815	4.00	400	6.51	0.361	10	5.05	18.5	141	0	
0824	4.40	350	6.35	0.393	22	4.28	20.5	142	0	
0831	4.35	400	6.39	0.398	22	3.79	20.7	135	0	
0837	4.30	400	6.42	0.399	28	3.59	20.9	134	0	
0842	4.30	400	6.46	0.402	30	3.48	20.9	132	0	
0852	4.27	400	6.48	0.401	22	3.29	21.40	129	0	
0857	4.23	400	6.55	0.405	22	3.24	20.9	124	0	
0902	4.29	400	6.60	0.344	NM	2.99	21.2	119	0	
0907	4.29	400	6.60	0.403	16	2.96	21.3	116	0	
0913	4.27	400	6.61	0.405	18	2.84	21.3	114	0	
0918	4.28	400	6.62	0.408	19	2.81	21.5	114	0	
0928	4.27	400	6.63	0.409	14	2.73	21.9	110	0	
0933	4.29	400	6.64	0.411	12	2.70	22.1	108	0	
—	—	—	6.64	0.412	11	2.68	—	—	—	
0942	4.29	400	6.64	0.412	9	2.64	22.2	105	0	
0955	4.33	400	6.64	0.414	6.1	2.50	22.3	102	0	
1010	4.34	400	6.64	0.415	4.9	2.48	22.3	101	0	

SIGNATURE(S): [illegible]

PAGE___OF___

SITE 14 – OBDANE- GROUNDWATER SAMPLING INFORMATION

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: S14MW1S01
Sample Location: 14MW1S
Sampled By: P.W.
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 8-5-00								
Time: 0940								
Method: peristaltic pump	clear	5.45	0.254	15.74	1.7	0.92	124	0

PURGE DATA:

Date: 8-5-00
Method: peristaltic pump
Monitor Reading (ppm): —
Well Casing Diameter & Material Type: 2" PVC
Total Well Depth (TD): 15.3'
Static Water Level (WL): 4.78'
One Casing Volume(gal): 1.7
Start Purge (hrs): 0812
End Purge (hrs): 0935
Total Purge Time (min): 83
Total Vol. Purged (gal): 3

See Attached Low Flow Purge Data Sheet for Purge Data

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	40 ml Vial	✓
TAL metals	HNO3, 4°C	500 ml	✓
TSS, TDS	4°C	1 l	✓
		SEE COC	

OBSERVATIONS / NOTES:

No Lock on well. Well is located in Foster Wheeler work area.

Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s): Donald Wales

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: 14MW1S
DATE: 8-5-00

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. % ~~PPT.~~	Comments
0812	4.88									START PURGE
0815	4.94	100	5.13	0.270	49	6.56	15.71	144	0	
0820	4.94		4.86	0.251	29	2.37	14.89	162	0	
0825	4.95	130	4.85	0.250	23	2.01	14.96	164	0	
0830	4.96	140	4.92	0.249	18	1.88	15.12	159	0	
0835	4.96	140	4.99	0.249	13	1.71	15.20	154	0	
0840	4.95	130	5.11	0.250	7.8	1.75	15.38	147	0	
0845	4.95	130	5.17	0.248	6.6	1.55	15.49	143	0	
0850	4.95	140	5.23	0.249	5.1	1.45	15.47	139	0	
0855	4.95	140	5.27	0.249	4.8	1.26	15.45	136	0	
0900	4.95	140	5.31	0.251	3.8	1.27	15.52	134	0	
0905	4.95	140	5.34	0.251	3.1	1.21	15.49	131	0	
0910	4.95	140	5.36	0.251	2.8	1.12	15.54	129	0	
0915	4.95	140	5.39	0.252	2.7	1.17	15.54	127	0	
0920	4.95	140	5.42	0.252	2.3	0.99	15.57	126	0	
0925	4.95	140	5.44	0.252	1.9	0.84	15.61	124	0	
0930	4.95	140	5.44	0.253	1.7	0.85	15.66	124	0	
0935	4.95	140	5.45	0.254	1.7	0.92	15.74	124	0	END PURGE

SIGNATURE(S): Donald Whelan

SITE 20 – AREA A WEAPONS CENTER - GROUNDWATER SAMPLING INFORMATION

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: S20 2WCMW1S 01
Sample Location: 2WCMW1S
Sampled By: KS / FW
C.O.C. No.: 072400-1
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color	pH	S.C.	Temp.	Turbidity	DO	ORP	Salinity
Date: 7-25-00								
Time: 0920	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	mV	%
Method: GRUNDFOS	CLEAR	6.22	3.01	20.1	7	1.48	-118	0.2

PURGE DATA:

Date: 7-24-00
Method: GRUNDFOS
Monitor Reading (ppm):
Well Casing Diameter & Material
Type: 2" PVC
Total Well Depth (TD): 17.60
Static Water Level (WL): 11.95
One Casing Volume(gal): 0.9
Start Purge (hrs): 0952
End Purge (hrs): 1053
Total Purge Time (min): 61
Total Vol. Purged (gal): 3.5

See Attached Low Flow Purge Data Sheet for Purge Data

7-25-00 WL = 12.45 @ 0910

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	40 ml Vial	
		SEE COC	

OBSERVATIONS / NOTES:

FLUSH MT., IN WEAPONS CENTER
PUMPED DRY @ 1053 - 1130 RECHARGE TO 14.90
OFF-SITE 1140.
WL = 14.60 @ 1230

Circle if Applicable:

MS/MSD
Duplicate ID No.:

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: 2WC MW 1S
DATE: 7.24.00

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. % ~~PPT.~~	Comments
0955	12.40	540	6.24	3.83	50	1.69	17.1	-97	0.2	
1002	12.43	120	6.17	2.75	32	1.07	18.8	-82	0.1	* CAN NOT
1015	12.73	*	6.22	2.34	11	0.62	22.4	-81	0.1	STABILIZE FLOW
1023	13.30		6.22	2.50	9	0.54	23.7	-99	0.1	RATE, THE GRUNDFOS
1030	13.70		6.22	2.36	7	0.90	22.9	-98	0.1	PUMP MAY BE THE
1035	13.83		6.20	2.42	8	1.03	23.3	-106	↓	WRONG CHOICE FOR
1040	14.01		6.19	2.51	8	1.13	22.4	-105	↓	SHALLOW MW
1045	14.45		6.20	2.72	7	1.23	23.0	-112	↓	LOW FLOW
1050	15.01		6.22	3.01	7	1.48	20.1	-118	0.2	
1053	15.10									DRY; TO PUMP INLET
										SHUT DOWN PUMP
										TO ALLOW FOR RECHARGE
										THEN SAMPLE
										ON 7.25.00

SIGNATURE(S): [illegible]

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: 520 2WCMW25 01
Sample Location: 2WCMW25
Sampled By: RS / FW
C.O.C. No.: 072400 1
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color	pH	S.C.	Temp.	Turbidity	DO	ORP	Salinity
Date: 7.25.00	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	mV	%
Time: 0940								
Method: GRUNDFOS	CLEAR	6.30	0.444	18.6	2.9	0.61	-100	0

PURGE DATA:

Date: 7-25-00
Method: GRUNDFOS
Monitor Reading (ppm):
Well Casing Diameter & Material Type: 2" PVC
Total Well Depth (TD): 13.20
Static Water Level (WL): 4.42
One Casing Volume(gal): 1.4
Start Purge (hrs): 0842
End Purge (hrs): 0935
Total Purge Time (min): 53
Total Vol. Purged (gal): 6

F. MT. See Attached Low Flow Purge Data Sheet for Purge Data
WELL VAULT IS BUSTED, PVC IS IN GOOD SHAPE

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	40 ml Vial	
		SEE COC	

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s): RS / S. Smith

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: 2WCMW25
DATE: 7-25-00

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. % ~~PPT.~~	Comments
0842	RS ~~08~~ 4.42	150								START PURGE
0845	4.82	400	6.10	0.211	200	1.01	19.0	-32	0	LT. BRN. COLOR
0850	4.93	300	6.15	0.361	40	0.84	18.9	-68		CLEARING
0855	4.91	380	6.14	0.397	19	1.00	18.8	-74		
0900	4.93	380	6.15	0.413	18	0.66	18.8	-79		
0905	4.91	260	6.19	0.418	16	0.93	18.8	-83		
0910	5.08	300	6.20	0.414	16	0.76	18.4	-85		
0915	5.08	480	6.22	0.422	16	0.60	18.4	-88		
0920	5.04	450	6.25	0.431	17	0.68	18.6	-93		
0925	5.01	400	6.27	0.433	6.7	0.67	18.6	-95		
0930	4.95	380	6.29	0.441	4.7	0.64	18.6	-99		
0935	4.83	350	6.30	0.444	2.9	0.61	18.6	-100		END PURGE

SIGNATURE(S): [illegible]

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: S202WCMW35 01
Sample Location: 2WCMW35
Sampled By: KS/FW
C.O.C. No.: 072400 1
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 7-26-00								
Time: 0800								
Method: Low Flow	grey	6.32	7.59	18.1	25	0.85	-396	0.4

PURGE DATA:

Date: 7.25.00
Method: GRUNDFUS
Monitor Reading (ppm):
Well Casing Diameter & Material
Type: 2" PVC
Total Well Depth (TD): 17.70
Static Water Level (WL): 11.49
One Casing Volume(gal): 1
Start Purge (hrs): 1154
End Purge (hrs): 1226
Total Purge Time (min): 32
Total Vol. Purged (gal): 3

STICK-UP

See Attached Low Flow Purge Data Sheet for Purge Data

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	40 ml Vial	
		SEE COC	

OBSERVATIONS / NOTES:

7.25.00 DRY @ 1226 LITTLE RECHARGE, WILL ALOW TO SIT OVERNITE & SAMPLE ~~ON~~ 7.26.00
14.43' on 7-26-00 @ 0800 collected VOCs, SVOCs, + TAL Metals
14.68' on 7/27/00 at 0831 Collected Dissolved metals, Perchlorate, TDS, TSS

Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: 2WCMW35
DATE: 7-25-00

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. % ~~PPT.~~	Comments
1154	11.49									START PURGE
1200	12.09	370	6.54	7.90	60	1.59	14.6	-265	0.4	BLACK FINES
1205	12.99	150	6.40	5.71	45	0.57	16.0	-265	0.3	~~CLEARING~~
1215	13.39	200	6.24	4.95	55	0.47	18.1	-275	0.3	SULFUR ODOR
1220	14.65	200	6.30	6.92	21	0.72	17.3	-313	0.4	
1225	15.45	200	6.32	7.59	25	0.95	18.1	-396	0.4	DRY @ 1226
7-26-00 0800	14.43									sample

SIGNATURE(S): [illegible]

BTM = 17.70

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: S20 2WMW40 01
Sample Location: 2WMW40
Sampled By: KS/FW
C.O.C. No.: 072400 1
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 7.24.00								
Time: 1650								
Method: GRUNDFOS	CLEAR	7.65	0.271	14.5	~~0.96~~ 1.5	0.96	-41	0

PURGE DATA:

Date: 7 24.00
Method: GRUNDFOS
Monitor Reading (ppm):
Well Casing Diameter & Material
Type: 6" STEEL
Total Well Depth (TD): 126
Static Water Level (WL): 11.02
One Casing Volume(gal):
Start Purge (hrs): 1303
End Purge (hrs): 1645
Total Purge Time (min): 222
Total Vol. Purged (gal): 40 ±

See Attached Low Flow Purge Data Sheet for Purge Data

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	40 ml Vial	
		SEE COC	

OBSERVATIONS / NOTES:

PUMP SET @ 115'

Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: 24MW4D
DATE: 7.24.00

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. % ~~PPT.~~	Comments
1307	11.02	560	7.33	0.361	90	1.68	14.9	-92	0	
1315	11.12	310	7.43	0.344	500	0.87	15.7	-130	0	RED "RUST" COLOR
1320	11.59	↓	7.49	0.338	260	0.63	15.4	-141	↓	
1328	11.84	↓	7.52	0.330	170	0.66	15.9	-130	↓	
1336	12.19	130	7.53	0.328	100	0.91	16.5	-122	↓	CLEARING
1346	12.29	↓	7.52	0.322	98	0.91	18.6	-116	↓	
1356	12.32	100	7.53	0.321	95	0.91	19.5	-117	↓	
1405	12.46	150	7.58	0.323	83	0.99	16.7	-115	↓	
1415	12.57	↓	7.57	0.317	70	0.85	17.4	-115	↓	
1425	12.65	100	7.75	0.315	80	0.67	19.4	-114	↓	
1435	12.64	80	7.59	0.316	60	0.72	19.9	-114	↓	
1500	13.17	140	7.56	0.304	45	0.62	17.1	-112	↓	
1515	14.48	2200								INCREASED FLOW RATE
1525	16.65	2200								NO READINGS
1535	20.28	2100								↓
1545	23.00	2100								↓
1555	25.55	2100								↓
1605	27.78	2100								↓
1615	29.40	2100								↓
1625	31.00	2100								↓
1630	29.48	480	7.69	0.277	8.8	2.21	14.5	31	0	
1635	29.53	400	7.66	0.270	1.8	1.01	14.6	2	↓	
1640	28.60	430	7.65	0.270	1.6	0.92	14.6	-40	↓	
1645	27.90	430	7.65	0.271	1.5	0.96	14.5	-41	↓	

SIGNATURE(S): [illegible]

SITE 8 – GOSS COVE LANDFILL- GROUNDWATER SAMPLING INFORMATION

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: S8MW0101
Sample Location: 8MW01
Sampled By: D.W.
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 8-8-00								
Time: 1655								
Method: Grundfos	clear	7.56	22.0	22.3	1.1	0.24	-238	1.3

PURGE DATA:

Date: 8-8-00
Method: Grundfos
Monitor Reading (ppm): —
Well Casing Diameter & Material
Type: 2" PVC
Total Well Depth (TD): 13.6
Static Water Level (WL): 7.24
One Casing Volume(gal): 1.0
Start Purge (hrs): 1539
End Purge (hrs): 1650
Total Purge Time (min): 71
Total Vol. Purged (gal): 6.5

See Attached Low Flow Purge Data Sheet for Purge Data

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	3x 40 ml Vial	✓
TCL SVOC / PAH	4°C	2x 1l	✓
TCL Pest / PCB	4°C	2x 1l	✓
TAL metals	HNO_3	500ml	✓
TSS, TDS	4°C	1l	✓
		SEE COC	

OBSERVATIONS / NOTES:

- well is tidally influenced (tide and w.l. rose during purging)
- pump set at 11'

Circle if Applicable:

MS/MSD —
Duplicate ID No.: —

Signature(s): Donald Wahler

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: 8MW01
DATE: 8-8-00

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. % ~~PPT.~~	Comments
1539	7.36									START PURGE
1545	7.32	310	7.41	22.7	3.5	3.85	21.3	-201	1.4	
1550	7.31	320	7.42	22.3	2.9	0.92	22.0	-206	1.4	
1555	7.29	350	7.42	22.3	2.5	0.72	22.2	-211	1.4	Turn down pump
1600	7.28	390	7.43	22.2	2.2	0.53	22.2	-215	1.3	speed as needed
1605	7.23	360	7.44	22.2	1.9	0.42	21.9	-218	1.3	(Tide is rising)
1610	7.20	320	7.45	22.1	1.4	0.36	22.4	-221	1.3	
1615	7.16	310	7.46	22.0	1.4	0.31	23.2	-223	1.3	
1620	7.12	280	7.48	22.2	1.2	0.32	23.2	-225	1.3	
1625	7.08	330	7.50	22.1	1.1	0.24	22.7	-228	1.3	
1630	7.03	360	7.51	22.0	1.2	0.23	22.8	-231	1.3	
1635	6.99	340	7.52	22.0	1.1	0.29	23.3	-233	1.3	
1640	6.98	350	7.54	22.2	1.1	0.26	23.8	-235	1.3	
1645	6.97	350	7.55	22.0	1.2	0.23	22.6	-236	1.3	
1650	6.95	350	7.56	22.0	1.1	0.24	22.3	-238	1.3	END PURGE

SIGNATURE(S): Donald Whalen

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: S8MW02S01
Sample Location: 8MW02S
Sampled By: D.W. / R.S.
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 8-7-00								
Time: 1505								
Method: GRUNDFOS	CLEAR	7.47	1.96	24.6	2.0	0.25	-248	0.1

PURGE DATA:

Date: 8.7.00
Method: GRUNDFOS
Monitor Reading (ppm):
Well Casing Diameter & Material Type: 2" PVC FLUSH MT.
Total Well Depth (TD): 14.95
Static Water Level (WL): 6.58
One Casing Volume(gal): 1.4
Start Purge (hrs): 1400
End Purge (hrs): 1500
Total Purge Time (min): 60
Total Vol. Purged (gal): 3

See Attached Low Flow Purge Data Sheet for Purge Data

END SAMPLE COLLECTION 1650

END WL @ 1650 = 6.72 (TIDAL)

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	40 ml Vial	✓
SVOC/PAH	4°C	QT	—
PEST/PCB	4°C	QT	—
TAL METALS	HNO_3	500 ML	✓
TSS, TDS	4°C	QT	✓
	3X VOL	FOR MS/MSD	
		SEE COC	

OBSERVATIONS / NOTES:

PUMP SET @ 8.5'± RISER MAY BE BENT COULD NOT LOWER PUMP PAST 8.5'±

Circle if Applicable:

MS/MSD: YES
Duplicate ID No.: —

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: 8MW02S
DATE: 8-7-00

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. % ~~PPT.~~	Comments
1411	6.81	—								START
1417	6.82	250	7.44	2.45	40	4.00	24.9	-225	0.1	BLACK TO GRAY COLOR
1425	6.84	300	7.52	2.26	11	0.33	24.7	-248	↓	SULFUR/ASPHALT ODOR
1430	6.84	250	7.51	2.21	7.5	0.30	25.1	-250	↓	CLEARING w/ SULFUR ODOR
1435	6.84	250	7.54	2.06	5.7	0.73	23.2	-253	↓	CLEANED CELL
1440	6.85	270	7.58	1.91	4.0	0.32	22.5	-257	↓	
1445	6.84	200	7.54	1.91	2.8	0.27	23.7	-252	↓	
1450	6.84	↓	7.51	1.92	2.4	0.27	24.1	-250	↓	
1455	6.83	↓	7.49	1.94	2.2	0.26	24.7	-249	↓	
1500	6.83	↓	7.47	1.96	2.0	0.25	24.6	-248	↓	END PURGE

SIGNATURE(S): [illegible]

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: S8MW02D01
Sample Location: 8MW02D
Sampled By: [illegible]
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color	pH	S.C.	Temp.	Turbidity	DO	ORP	Salinity
Date: 8/7/06	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	mV	%
Time: 1630								
Method: Redflow Pump	Lt Brown Cloudy	5.20	19.2	20.07	28	0.21	-430	1.2

PURGE DATA:

Date: 8/7/06	See Attached Low Flow Purge Data Sheet for Purge Data
Method: Red Flow Pump	
Monitor Reading (ppm): 0.0	
Well Casing Diameter & Material Type: 2" PVC	
Total Well Depth (TD): 60.20	
Static Water Level (WL): 7.10	
One Casing Volume(gal): 8.65	
Start Purge (hrs): 1410	
End Purge (hrs): 1625	
Total Purge Time (min): 135	
Total Vol. Purged (gal): 4.5	

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	40 ml Vial	3
TCL SVOC / PAH	4°C	Liter Amber	2
TCL Pest / PCB	4°C	Liter Amber	2
TAL Metals	HNO_3	500 ml Poly	1
TSS / TDS	4°C	Liter Poly	
		SEE COC	

OBSERVATIONS / NOTES:

60.20
7.10
53.10
1.63
15930
31860
5316
86.5580

The water started as a turbid light brown with no odors and cleared to a clear with lt brown tint but the turbidity never dropped below 10 NTU and began heading back up so the sample was collected

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): [illegible]

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: S8MW02D01
DATE: 8/7/00

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. % ~~PPT.~~	Comments
1410	6.21	200	7.38	32.3	75	0.66	20.63	-329	2.1	
1415	8.03	150	7.43	28.7	50	0.29	21.55	-380	1.7	
1420	8.12	190	7.74	25.3	45	0.27	22.09	-436	1.6	
1425	8.17	170	7.99	24.6	37	0.27	21.17	-455	1.5	
1430	8.20	190	8.18	22.5	50	0.27	21.58	-465	1.4	
1435	8.20	190	8.58	21.2	50	0.26	21.63	-501	1.3	
1440	8.20	190	8.70	20.3	50	0.26	20.93	-510	1.2	
1445	8.21	190	8.69	19.9	60	0.25	20.48	-509	1.2	
1450	8.21	190	8.64	19.2	65	0.24	20.55	-508	1.1	cleaned the cell
1455	8.39	190	8.48	20.0	50	0.67	18.90	-340	1.2	
1500	8.39	140	8.53	19.7	40	0.26	20.60	-424	1.2	
1505	8.40	140	8.46	19.7	36	0.24	20.03	-452	1.2	
1510	8.53	150	8.42	19.5	34	0.22	19.46	-467	1.2	
1515	8.29	200	8.37	18.7	27	0.21	20.82	-470	1.1	
1520	8.25	140	8.32	19.6	27	0.21	20.43	-471	1.2	
1525	8.25	140	8.31	19.4	20	0.22	20.38	-467	1.2	
1530	8.25	140	8.30	19.5	20	0.21	20.12	-465	1.1	
1535	8.25	130	8.28	19.3	21	0.21	20.38	-462	1.2	
1540	8.23	130	8.28	19.4	18	0.21	20.23	-459	1.2	
1545	8.25	130	8.25	19.3	18	0.21	19.91	-452	1.2	
1550	8.25	130	8.25	19.2	14	0.21	20.22	-449	1.2	
1555	8.25	130	8.25	19.2	14	0.21	20.11	-445	1.2	
1600	8.24	130	8.24	19.2	16	0.21	20.03	-443	1.2	
1605	8.18	130	8.22	19.1	23	0.21	20.20	-439	1.2	
1610	8.20	130	8.21	19.2	16	0.21	20.17	-437	1.2	
1615	8.20	130	8.20	19.1	21	0.21	20.18	-434	1.2	
1620	8.20	130	8.20	19.2	28	0.21	20.07	-430	1.2	
1625	Purging was completed after removing 4.5 gallons from the well									
1630	Sample S8MW02D01 was collected by DWCM									

SIGNATURE(S): [illegible] [illegible]

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: S8MW03 01
Sample Location: 8MW3
Sampled By: D.W
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 8.8.00								
Time: 1155								
Method: Grund Fos	clear	8.72	2.73	25.1	1.6	0.24	-301	0.1

PURGE DATA:

Date: 9.9.00
Method: GRUNDFOS
Monitor Reading (ppm): —
Well Casing Diameter & Material Type: 2" PVC
Total Well Depth (TD): 19.30
Static Water Level (WL): 6.14
One Casing Volume(gal): 1.5
Start Purge (hrs): 1005
End Purge (hrs): 1150
Total Purge Time (min): 105
Total Vol. Purged (gal): 8.7

See Attached Low Flow Purge Data Sheet for Purge Data

WATER (RAIN) IN FLUSH MT. VAULT

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	3x 40 ml Vial	✓
TCL SVOC, PAH	4°C	2x 1l	✓
TCL Pest, PCB	4°C	2x 1l	✓
TAL metals	HNO_3	500 ml	✓
TSS, TDS	4°C	1l	✓
		SEE COC	

OBSERVATIONS / NOTES:

- J-plug is broken.
- water had slight oil odor
- pump set at 12'

Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s): Donald Whalen

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: 8MW3
DATE: 8-8-00

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. % ~~PPT.~~	Comments
1005	6.22	540								START PURGE
1010	6.24	330	8.71	3.42	5.6	2.20	21.6	-150	0.2	slight oil odor
1015	6.24	350	8.70	3.35	7.7	0.90	22.3	-153	0.2	
1020	6.24	330	8.71	3.12	6.1	0.64	22.8	-155	0.2	
1025	6.24	330	8.70	3.04	4.6	0.52	23.6	-152	0.2	
1030	6.24	330	8.71	2.96	4.3	0.37	23.2	-159	0.1	
1035	6.24	330	8.72	2.86	3.0	0.36	23.1	-163	0.1	
1040	6.24	330	8.72	2.84	2.9	0.31	23.0	-173	0.1	
1045	6.24	330	8.72	2.76	2.4	0.37	23.0	-185	0.1	
1050	6.24	330	8.72	2.74	1.7	0.32	23.2	-199	0.1	
1055	6.24	330	8.73	2.71	1.9	0.28	23.1	-214	0.1	
1100	6.24	330	8.73	2.67	1.7	0.26	22.9	-232	0.1	
1105	6.24	330	8.73	2.65	1.6	0.25	22.9	-250	0.1	
1110	6.24	330	8.73	2.64	1.2	0.25	22.9	-271	0.1	
1115	6.24	330	8.73	2.62	1.6	0.25	23.1	-280	0.1	
1120	6.24	330	8.73	2.57	2.3	0.25	23.1	-289	0.1	
1125	6.24	330	8.74	2.57	2.7	0.23	23.0	-297	0.1	
1130	6.24	330	8.73	2.63	2.8	0.24	23.7	-302	0.1	
1135	6.24	330	8.73	2.72	2.3	0.24	24.0	-299	0.1	
1140	6.24	330	8.73	2.72	2.4	0.25	24.1	-302	0.1	
1145	6.24	330	8.73	2.72	2.1	0.25	24.3	-306	0.1	
1150	6.24	330	8.72	2.73	1.6	0.24	25.1	-301	0.1	END PURGE

SIGNATURE(S): Donald Whalen

S8MW04-01

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: S8MW04-01
Sample Location: S8MW04
Sampled By: Chuck Meyer
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 8/8/00								
Time: 1335								
Method: Rediflow Pump	clear	7.64	1.70	22.84	4.4	0.26	-283	0.1

PURGE DATA:

Date: 8/8/00
Method: Rediflow Pum
Monitor Reading (ppm):
Well Casing Diameter & Material
Type: 2" PVC
Total Well Depth (TD): 14.64
Static Water Level (WL): 6.31
One Casing Volume(gal): 5.5 gal 8/8/00
Start Purge (hrs): 1140
End Purge (hrs): 1330
Total Purge Time (min): 110
Total Vol. Purged (gal): 5.5

See Attached Low Flow Purge Data Sheet for Purge Data

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	40 ml Vial	3
TCL SVOC / PAH	4°C	Liter Amber	2
TCL Pest / PCB	4°C	Liter Amber	2
TAL Metals	HNO3	500 ml Poly ~~Liter Amber~~ 8/8/00	1
TSS TDS	4°C	Liter Poly	1
		SEE COC	

OBSERVATIONS / NOTES:

Pump was set at 12 feet BTOC
Upon starting the pump a slug of black mud sand silt was pulled through the pump then the water cleared

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: S8MW04
DATE: 8/8/00

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. % ~~PPT.~~	Comments
1140	6.31	1.25	7.26	2.00	120	1.78	21.28	-198	0.1	
1145	6.31	125	7.26	2.00	92	1.42	21.96	-204	0.1	
1150	6.31	125	7.26	2.00	51	0.97	22.57	-206	0.1	
1155	6.31	130	7.29	2.02	33	0.66	23.17	-214	0.1	
1200	6.31	130	7.35	1.94	11	0.51	23.23	-224	0.1	
1205	6.31	130	7.40	1.88	9.2	0.42	22.95	-235	0.1	
1210	6.31	300	7.44	1.72	4.2	0.32	21.55	-248	0.1	
1215	6.31	100	7.47	1.78	6.7	0.30	22.21	-255	0.1	
1220	6.31	150	7.53	1.79	34	0.28	23.20	-262	0.1	Pump stopped increased flow
1225	6.31	300	7.53	1.73	11	0.31	21.47	-265	0.1	
1230	6.31	400	7.50	1.57	3.0	0.33	20.20	-262	0.1	
1235	6.31	150	7.55	1.68	3.8	0.28	22.64	-270	0.1	
1240	6.31	150	7.57	1.73	4.3	0.28	22.53	-274	0.1	
1245	6.31	120	7.60	1.74	4.2	0.26	22.96	-279	0.1	
1250	6.31	120	7.63	1.75	4.4	0.26	23.13	-283	0.1	
1255	6.31	150	7.65	1.76	6.3	0.26	23.03	-286	0.1	
1300	6.31	150	7.66	1.80	4.4	0.25	23.24	-289	0.1	pump stopped
1305	6.31	200	7.64	1.83	4.4	0.26	21.70	-284	0.1	
1310	6.31	200	7.62	1.87	4.4	0.26	21.16	-282	0.1	
1515	6.31	200	7.62	1.63	4.3	0.26	22.33	-283	0.1	
1320	6.31	200	7.63	1.67	4.0	0.26	22.18	-282	0.1	
1325	6.31	200	7.63	1.68	3.7	0.26	22.34	-281	0.1	
1330	6.31	200	7.64	1.70	4.4	0.26	22.84	-283	0.1	
1335	Sample S8MW04-01 was collected by cmt the water was clear with no odors									

SIGNATURE(S): [illegible]

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: SGMW0SS01
Sample Location: GMW55
Sampled By: Chuck Meyer
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 8/7/00								
Time: 1100								
Method: Redi-flow Pump	clear	7.62	22.5	26.69	8.6	0.27	-342	1.4

PURGE DATA:

Date: 8/7/00
Method: Redi-flow Pump
Monitor Reading (ppm): 0.0
Well Casing Diameter & Material
Type: 2" PVC
Total Well Depth (TD): 12.90
Static Water Level (WL): 9.28
One Casing Volume(gal): 0.59
Start Purge (hrs): 0935
End Purge (hrs): 1055
Total Purge Time (min): 80
Total Vol. Purged (gal): 3.5

See Attached Low Flow Purge Data Sheet for Purge Data

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	40 ml Vial	3
TCL SVOC/PAH	4°C	Liter Amber	2
TCL Pest/PCB	4°C	Liter Amber	2
TAL Metals	HNO_3	500 ml Poly	1
Dissolved TAL Metals	HNO_3	500 ml Poly	1
TSS, TDS	4°C	L	1
		SEE COC	

OBSERVATIONS / NOTES:

12.90
- 9.28
3.62
× .163
1086
2172
362
59006

The water started out cloudy gray brown in color cleared up quickly the well had a slightly sulfur odor.

Circle if Applicable:

MS/MSD —

Duplicate ID No.: —

Signature(s): Chuck Meyer

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: S8MW05S01
DATE: 8/7/00

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. % ~~PPT.~~	Comments
0935	9.28	240	4.00	22.0	120	1.04	21.37	-351	1.3	
0940	9.44	320	7.63	21.9	65	0.41	22.77	-356	1.3	
0945	9.44	200	7.65	22.4	40	0.35	23.02	-363	1.4	
0950	9.46	200	7.69	22.0	26	0.35	23.49	-365	1.3	
0955	9.48	200	7.72	22.1	20	0.33	24.24	-369	1.3	
1000	9.50	200	7.67	22.4	18	0.30	24.40	-369	1.4	
1005	9.52	200	7.64	22.8	17	0.32	23.91	-369	1.4	
1010	9.53	200	7.62	22.9	15	0.31	23.70	-370	1.4	
1015	9.53	200	7.63	22.9	11	0.29	23.96	-373	1.4	
1020	9.53	200	7.65	22.7	9.2	0.28	24.69	-375	1.4	
1025	9.53	200	7.66	22.7	7.4	0.28	24.99	-380	1.4	
1030	9.54	200	7.65	22.6	7.5	0.27	25.32	-381	1.4	
1035	9.54	200	7.64	22.6	7.7	0.27	25.70	-384	1.4	
1040	9.54	200	7.63	22.5	9.0	0.28	26.90	-389	1.4	
1045	9.54	200	7.63	22.6	7.5	0.27	26.50	-390	1.4	
1050	9.54	200	7.62	22.7	7.4	0.27	26.21	-390	1.4	
1055	9.55	200	7.62	22.5	8.6	0.27	26.69	-392	1.4	
1100	purging was complete after removing 3.5 gallons from the well and sample S8MW05S01 was collected the water was clear with a sulfur odor									
1120	sampling completed									

SIGNATURE(S): [illegible]

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: S8MW06S01
Sample Location: 8MW06S
Sampled By: D.W.
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color	pH	S.C.	Temp.	Turbidity	DO	ORP	Salinity
Date: 8-8-00	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	mV	%
Time: 0855								
Method: Grundfos	clear	7.75	2.88	21.3	0.8	0.31	-28c	0.1

PURGE DATA:

Date: 8-8-00
Method: Grundfos
Monitor Reading (ppm): —
Well Casing Diameter & Material
Type: 2" PVC
Total Well Depth (TD): 10.1
Static Water Level (WL): 6.57
One Casing Volume(gal): 0.6
Start Purge (hrs): 0749
End Purge (hrs): 0845
Total Purge Time (min): 56
Total Vol. Purged (gal): 4

See Attached Low Flow Purge Data Sheet for Purge Data

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	40 ml Vial	✓
TCL SVOC/PAH	4°c	1l	✓
TCL Pes+/PCB	4°c	1l	✓
TAL metals	HNO_3	500ml	✓
TSS, TDS	4°c	1l	✓
		SEE COC	

OBSERVATIONS / NOTES:

- pump set at 9'

Circle if Applicable:

MS/MSD: —

Duplicate ID No.: FD0808001

Signature(s): David Whalen

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: 8 MW 6 S
DATE: 8-8-00

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. % ~~PPT.~~	Comments
0749	~~8~~ 6.52	370								START PURGE
0755	6.59	360	7.47	2.67	5.4	6.42	18.8	-220	0.1	
0800	6.60	350	7.60	2.72	2.9	0.84	19.0	-252	0.1	
0805	6.60	280	7.67	2.80	1.4	0.83	19.4	-265	0.1	
0810	6.58	280	7.68	2.83	1.8	0.67	19.8	-268	0.1	
0815	6.58	280	7.70	2.86	1.7	0.46	20.7	-272	0.1	
0820	6.58	290	7.71	2.88	1.7	0.31	20.6	-273	0.1	
0825	6.58	280	7.71	2.89	1.8	0.38	21.0	-272	0.1	
0830	6.58	280	7.72	2.88	1.5	0.40	21.3	-270	0.1	
0835	6.58	280	7.73	2.88	1.5	0.27	21.1	-276	0.1	
0840	6.58	280	7.74	2.88	1.0	0.27	21.0	-279	0.1	
0845	6.58	280	7.75	2.88	0.8	0.31	21.3	-280	0.1	END PURGE

SIGNATURE(S): Donald Whaley

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: S8MW06D01
Sample Location: 8MW06D
Sampled By: Chuck Meyer
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color	pH	S.C.	Temp.	Turbidity	DO	ORP	Salinity
Date: 8/8/00	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	mV	%
Time: 1000								
Method: Redriflow Pump	Light Brown Tint	7.08	41.4	22.40	17	0.37	-152	2.6

PURGE DATA:

Date: 8/8/00	See Attached Low Flow Purge Data Sheet for Purge Data
Method: Redriflow Pump	
Monitor Reading (ppm):	
Well Casing Diameter & Material Type: 2" PVC	
Total Well Depth (TD): 67.70	
Static Water Level (WL): 7.07	
One Casing Volume(gal):	
Start Purge (hrs): 0750	
End Purge (hrs): 0955	
Total Purge Time (min): 125	
Total Vol. Purged (gal): 2.5	

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	40 ml Vial	3
TCL SVOC/PAH	4°C	Liter Amber	2
TCL Pest/PCB	4°C	Liter Amber	2
TAL Metals	HNO3	500ml Poly	1
TSS / TDS	4°C	Liter Poly	1
		SEE COC	

OBSERVATIONS / NOTES:

Water level steady to start pump set at 62 feet BTOC
Water level continued to drop even when the pump stopped discharging there is a question as to tidal influence

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: S8MW06D
DATE: 8/8/00

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. % ~~PPT.~~	Comments
0750	7.13	300	6.31	33.1	85	3.98	16.71	-18	2.2	Lt Brown to gray
0755	7.18	300	6.99	38.9	230	0.47	17.18	-103	2.5	
0800	7.19	300	7.02	40.1	190	0.37	17.27	-133	2.6	
0805	7.22	150	7.03	41.3	160	0.35	17.60	-140	2.6	
0810	7.25	150	7.04	40.9	100	0.32	18.77	-149	2.6	
0815	7.28	150	7.05	41.4	75	0.33	18.96	-151	2.6	
0820	7.29	150	7.06	41.5	60	0.37	18.88	-153	2.7	
0825	7.32	150	7.06	41.6	50	0.35	18.99	-154	2.7	
0830	7.35	150	7.06	41.4	45	0.37	19.49	-154	2.7	
0835	7.37	150	7.06	41.5	39	0.38	19.54	-155	2.7	
0840	7.38	150	7.07	41.5	35	0.38	19.73	-155	2.7	
0845	7.39	140	7.07	41.6	32	0.35	19.82	-154	2.7	Cleaned the cell
0850	7.39	110	7.07	41.8	45	1.64	17.76	-136	2.7	
0855	7.40	100	7.06	42.3	33	1.10	18.46	-140	2.7	
0900	7.40	100	7.06	42.2	35	0.70	19.83	-141	2.7	
0905	7.42	100	7.06	42.2	25	0.51	20.64	-146	2.7	
0910	7.42	100	7.06	42.0	22	0.54	20.95	-147	2.7	
0915	7.42	100	7.07	41.8	20	0.37	21.24	-148	2.7	
0920	7.42	100	7.07	42.0	21	0.32	21.14	-151	2.7	
0925	7.47	100	7.07	41.7	19	0.64	22.32	-152	2.7	
0930	7.49	100	7.07	41.8	18	0.40	22.22	-152	2.7	
0935	7.52	100	7.07	41.4	17	0.48	22.60	-153	2.7	
0940	7.53	100	7.08	41.7	17	0.38	21.96	-153	2.7	
0945	7.55	100	7.08	41.3	17	0.35	21.93	-153	2.7	
0950	7.57	100	7.08	41.4	17	0.37	22.40	-152	2.6	
0955	Purging was completed after removing 2.5 gallons from the well. The reason why it was sampled while the water level was dropping was a question about tidal influence									
1000	sample S8MW06D01 was collected									

SIGNATURE(S): [signature]

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: S8MW4S0101
Sample Location: 8MW4S
Sampled By: R Whalen
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 8/19/00								
Time: 0945								
Method: Peristaltic / straw	clear	6.04	0.124	18.37	0.05	3.51	29	0.0

PURGE DATA:

Date: 8/19/00
Method: ~~Bladder~~ Peristaltic Pump
Monitor Reading (ppm): 0.0
Well Casing Diameter & Material
Type: 2" PVC
Total Well Depth (TD): 18.4
Static Water Level (WL): 15.85
One Casing Volume(gal): 0.45
Start Purge (hrs): 0740
End Purge (hrs): 0940
Total Purge Time (min): 120
Total Vol. Purged (gal): 3.0

See Attached Low Flow Purge Data Sheet for Purge Data

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	40 ml Vial	3
TCL SVOC/PAH	4°C	Liter Amber	2
TCL Pest/PCB	4°C	Liter Amber	2
TAL Metals	HNO_3	500 ml Poly	1
TSS, TDS	4°C	Liter Poly	1
		SEE COC	

OBSERVATIONS / NOTES:

18.40
15.85
2.75
0.163
8.25
16.50
2.75
44.825

The pump intake was located at 18 feet BTOC
The well vault was filled with sand from the roadway the plug was on and in good shape

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s): Donald Whalen

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: 8MW09S
DATE: 8-19-00

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. % ~~PPT.~~	Comments
0740	15.85									START PURGE
0745			6.79	4.86		4.45	17.57	-139	0.2	Black
0750	15.88	110	6.81	3.03	29	1.67	17.56	-135	0.2	
0755	15.89	100	6.80	2.62	13	1.39	17.59	-130	0.1	clear
0800	15.89	100	6.76	2.03	9.5	1.33	17.71	-128	0.1	
0805	15.89	100	6.72	1.44	5.0	1.08	17.74	-120	0.1	
0810	15.90	100	6.63	0.823	3.4	1.07	17.76	-113	0.0	
0815	15.90	100	6.57	0.714	2.3	1.18	17.79	-97	0.0	
0820	15.90	100	6.48	0.561	1.3	1.49	17.79	-78	0.0	
0825			6.40	0.449	1.1	1.76	17.76	-60	0.0	
0830			6.35	0.406	0.95	2.02	17.90	-48	0.0	
0835			6.31	0.324	0.85	2.12	17.88	-41	0.0	
0840			6.27	0.285	0.95	2.27	17.89	-32	0.0	
0845			6.24	0.265	0.95	2.41	17.97	-24	0.0	
0850			6.22	0.221	0.70	2.59	17.95	-16	0.0	
0855			6.20	0.205	0.45	2.69	18.05	-10	0.0	
0900			6.17	0.184	0.50	2.82	18.03	-5	0.0	
0905			6.14	0.174	0.50	2.90	18.09	0	0.0	
0910			6.13	0.150	0.40	3.01	18.09	6	0.0	
0915			6.10	0.141	0.30	3.12	18.11	11	0.0	
0920			6.09	0.136	0.45	3.21	18.15	14	0.0	
0925			6.08	0.131	0.35	3.28	18.26	18	0.0	
0930			6.07	0.125	0.45	3.36	18.26	23	0.0	
0935			6.05	0.123	0.40	3.45	18.30	25	0.0	
0940			6.04	0.124	0.05	3.51	18.37	29	0.0	
0945	sample	SSMW09S01 was collected by DWLCM using peristaltic and stow method								
1035	sampling was complete and breakdown was begun									

SIGNATURE(S): _____

SITE 15 – SASDA- GROUNDWATER SAMPLING INFORMATION

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: S15MW15-01
Sample Location: 15MW15
Sampled By: DW
C.O.C. No.: 072100 1
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

Date: 6-21-00 / Time: 1415	Color Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Method: 2" Redi-Flo pump	clear	5.75	0.387	24.76	3	6.11	147	0

PURGE DATA:

Date: 7-21-00
Method: 2" Redi-Flo pump
Monitor Reading (ppm):
Well Casing Diameter & Material
Type: 2" PVC
Total Well Depth (TD): 14.64
Static Water Level (WL): 5.30'
One Casing Volume(gal): 1.5
Start Purge (hrs): 1307
End Purge (hrs): 1412
Total Purge Time (min): 65
Total Vol. Purged (gal): ~3.5

See Attached Low Flow Purge Data Sheet for Purge Data

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	3 x 40 ml Vial	✓
SVOC / PAH	4°C	2 x 1l	✓
Total metals	HNO3 / 4°C	1 x 500 ml	✓
TSS TDS	4°C	1 x 1l	✓
		SEE COC	

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s): Donald Wilkin

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: 15MW15
DATE: 7-21-00

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. % ~~PPT.~~	Comments
1307	5.30	255								START Purge
1312			5.62	0.410	95	7.53	23.60	122	0	
1322	5.67	335	5.67	0.388	42	6.26	23.75	131	0	Lower flow rate to 160 ml/min
1332	5.56	180	5.70	0.388	16	6.47	24.72	137	0	
1342	5.53	190	5.73	0.394	10	6.25	25.06	133	0	
1352	5.55	200	5.74	0.392	5	6.28	24.98	141	0	
1402	5.60	200	5.74	0.392	5	6.18	24.83	146	0	
1412	5.60	200	5.75	0.387	3	6.11	24.76	147	0	

SIGNATURE(S): Donald Whalen

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: 515MW1D-01
Sample Location: 15MW1D
Sampled By: DW
C.O.C. No.: 072100 1
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 7-21-00 Time: 1710 Method: 2" Redi-Flo Pump	CLEAR	6.90	0.445	19.1	24	0.93	8	0

PURGE DATA:

Date: 7-21-00
Method: 2" Redi-Flo Pump
Monitor Reading (ppm):
Well Casing Diameter & Material
Type: 2" PVC
Total Well Depth (TD): 45.2
Static Water Level (WL): 9.92
One Casing Volume(gal): 5.8
Start Purge (hrs): 1514
End Purge (hrs): 1709
Total Purge Time (min): 115
Total Vol. Purged (gal): 8

See Attached Low Flow Purge Data Sheet for Purge Data

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	40 ml Vial	✓
SVOC / PAH	4°C	1l	✓
Total metals	HNO3/4°C	500 ml	✓
TSS, TDS	4°C	1l	✓
		SEE COC	

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD	Duplicate ID No.:
✓	—

Signature(s): Donald [illegible]

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: S15 MW 1D
DATE: 7-21-00

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. % ~~PPT.~~	Comments
1514	9.92									Start purge
1519	10.66	190	6.75	0.503	223	2.21	19.05	34	0	
1529	11.17	310	6.83	0.486	264	0.82	18.41	-27	0	
1539	11.34	285	6.85	0.469	103	1.62	18.21	-9	0	
1549	11.40	300	6.86	0.449	66	1.69	17.96	-1	0	
1559	11.46	310	6.91	0.445	57	1.40	18.34	6	0	reduce flow to 275
1609	11.07	180	6.90	0.448	100	1.09	18.28	6	0	
1619	11.12	215	6.87	0.451	49	1.10	18.55	-3	0	
1629	11.13	230	6.90	0.447	39	0.86	18.78	5	0	
1639	11.19	240	6.96	0.446	30	0.84	18.65	5	0	
1649	11.09		6.89	0.448	36	0.94	18.79	5	0	
1654			7.00	0.444	30	0.95	18.59	7	0	
1659	11.11	220	7.01	0.443	25	0.94	18.69	7	0	
1704	11.11		6.90	0.447	26	0.93	18.91	7	0	
1709	11.12	275	6.90	0.445	24	0.93	19.07	8	0	

SIGNATURE(S): [illegible]

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: S15MW25 01
Sample Location: 15MW25
Sampled By: RS / FW
C.O.C. No.: 072100 1
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color	pH	S.C.	Temp.	Turbidity	DO	ORP	Salinity
Date: 7.21.00	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	mV	%
Time: 1745								
Method: GRUNDFOS	CLEAR	4.44	0.272	19.1	3.6	9.44	331	0

PURGE DATA:

Date: 7.21.00
Method: GRUNDFOS
Monitor Reading (ppm): 0
Well Casing Diameter & Material Type: 2" PVC
Total Well Depth (TD): 15.09
Static Water Level (WL): 6.05
One Casing Volume(gal): 1.5
Start Purge (hrs): 1645
End Purge (hrs): 1740
Total Purge Time (min): 55
Total Vol. Purged (gal): 4.4±

See Attached Low Flow Purge Data Sheet for Purge Data

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	40 ml Vial	
		4X VOL	
		SAMPLE X 1	
		MS/MSD X 2	
		DUP X 1	
		SEE COC	

OBSERVATIONS / NOTES:

FLUSH MT.
SET PUMP ≈ 4' OFF BTM.

Circle if Applicable:

MS/MSD: YES
Duplicate ID No.: FD 072100 1

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: 15MW2S
DATE: 7.21.00

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. % ~~PPT.~~	Comments
1649	6.06	510	4.44	0.313	—	9.70	16.9	299	0	
1653		310	4.44	0.281	184	9.04	17.9	315		
1700		260	4.45	0.279	52	9.72	19.0	314		
1710			4.45	0.277	34	9.40	19.0	321		
1720			4.44	0.275	14	9.44	19.1	327		
1725	6.07	300	4.44	0.275	11	9.46	19.1	329		
1730			4.43	0.271	4.9	9.44	19.1	330		
1735			4.44	0.271	4.0	9.42	19.1	330		
1740			4.44	0.272	3.6	9.44	19.1	331		END PURGE

SIGNATURE(S): [illegible]

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: S15MW3S01
Sample Location: S15MW3S
Sampled By: FCW
C.O.C. No.: 072100-1
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color	pH	S.C.	Temp.	Turbidity	DO	ORP	Salinity
Date: 7-23-00	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	mV	%
Time: 1550								
Method: Low Flow	Clear	5.91	0.408	21	7	1.09	-25	0.0

PURGE DATA:

Date: 7-23-00
Method: Low Flow
Monitor Reading (ppm):
Well Casing Diameter & Material
Type: 2" PVC
Total Well Depth (TD): 14.55
Static Water Level (WL): 4.46
One Casing Volume(gal): 1.6
Start Purge (hrs): 1420
End Purge (hrs): 1550
Total Purge Time (min): 90
Total Vol. Purged (gal): 2.9

See Attached Low Flow Purge Data Sheet for Purge Data

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	3 40 ml Vial	✓
TCL SVOCs / PAHs	4°C	2 1L AMBER	✓
TAL Metals	HNO3 / 4°C	1 500 mL Poly	✓
TSS, TDS	4°C	1 L Poly	✓
		SEE COC	

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: S15MW3S
DATE: 7-23-00

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. % ~~PPT.~~	Comments
1420	4.46									START PURGING
1430	6.51	180	5.85	0.386	122	1.84	18.0	11	0.0	
1440	6.55	140	5.83	0.391	46	0.85	19.9	10	0.0	
1450	6.59	110	5.87	0.395	26	0.80	20.5	-12	0.0	
1500	6.52	150	5.90	0.406	17	0.94	20.5	-23	0.0	
1510	6.59	135	5.91	0.413	17	1.08	20.6	-27	0.0	
1520	6.60	100	5.91	0.416	18	1.08	20.5	-27	0.0	
1530	6.61	100	5.91	0.414	9	1.11	20.8	-26	0.0	
1540	6.61	100	5.91	0.412	7	1.07	21.0	-28	0.0	
1550	6.59	110	5.91	0.408	7	1.04	21.0	-25	0.0	End Purging START sampling
1606										End sampling

SIGNATURE(S): [illegible]

SITE 18 – SOLVENT STORATE AREA - GROUNDWATER SAMPLING INFORMATION

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data TW
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: S18TW01 01
Sample Location: S18TW01
Sampled By: R. SIMPSON
C.O.C. No.: NA
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color	pH	S.C.	Temp.	Turbidity	DO	ORP	Salinity
Date: 6.23.00	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	mV	
Time: 0755								
Method:								

PURGE DATA:

Date:	See Attached Low Flow Purge Data Sheet for Purge Data
Method:	
Monitor Reading (ppm):	
Well Casing Diameter & Material Type:	
Total Well Depth (TD):	
Static Water Level (WL):	
One Casing Volume(gal):	
Start Purge (hrs):	
End Purge (hrs):	
Total Purge Time (min):	
Total Vol. Purged (gal):	

DRY

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	40 ml Vial	

OBSERVATIONS / NOTES:

DRY TW NO SAMPLE

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data TW
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: S18TW0201
Sample Location: 18TW2
Sampled By: K. SIMPSON
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color	pH	S.C.	Temp.	Turbidity	DO	ORP	Salinity
Date: 6.14.00								
Time: 1010	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	mV	%
Method: PUMP	CLEAR	6.23	0.232	16.2	0.3	9.04	41	0

PURGE DATA:

Date: 6.14.00
Method: PERISTALTIC
Monitor Reading (ppm): 0
Well Casing Diameter & Material
Type: 1" ID PVC
Total Well Depth (TD): 7.27 BGS
Static Water Level (WL): 4.68 BGS
One Casing Volume(gal):
Start Purge (hrs): 0825
End Purge (hrs): 1007
Total Purge Time (min):
Total Vol. Purged (gal):

See Attached Low Flow Purge Data Sheet for Purge Data

0825 END DEV START PURGE

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	40 ml Vial	✓
SVOC	4°C	QT GLASS	✓
PEST/PCB	4°C	2 "	✓
TAL METALS	HNO_3 4°C	PINT PE	✓
TDS + TSS	4°C	250 ML PE	✓

OBSERVATIONS / NOTES:

NO ODOR, NO FREE PRODUCT NOTED

PUMP INLET (TUBING) SET IN CENTER OF SCREEN

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	FD 0614001

Signature(s): K. S. Simpson

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: 18TW02
DATE: 6-14-00

Time (Hrs.)	Water Level (Ft. below ~~TOC~~ BGS)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. ~~PPT.~~ %	Comments
0930	4.68	250	6.27	0.272	240	10.00	16.5	54	0	NO ODOR, LT BRN
0935	4.58		6.29	0.252	35	9.33	16.3	44	0	W/SOME SOLIDS
0945			6.27	0.237	0.7	9.08	16.2	39	0	- CLEARING -
0955			6.25	0.232	0.4	9.19	16.2	40	0	
KS ~~0950~~	1000		6.24	0.231	0.3	8.98	16.2	40	0	
1005			6.23	0.232	0.3	9.04	16.2	41	0	END PURGE

SIGNATURE(S): Kirk S. Sanzo

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type: TEMP WELL
[ ] QA Sample Type:

Sample ID No.: S18TW04-01
Sample Location: 18TW4
Sampled By: SJC
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 6-14-00								
Time: 1040								
Method: PERISTALTIC	CLEAR	5.75	-191	15.04	4.75	7.62	104	0.0

PURGE DATA:

Date: 6-14-00
Method: PERISTALTIC
Monitor Reading (ppm): 0
Well Casing Diameter & Material
Type: 1¼" Φ PVC
Total Well Depth (TD): 10.55 11.30 AFTER DEVELOP.
Static Water Level (WL): 5.25
One Casing Volume(gal):
Start Purge (hrs): 0935
End Purge (hrs): 1035
Total Purge Time (min): 60
Total Vol. Purged (gal):

See Attached Low Flow Purge Data Sheet for Purge Data

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	3 40 ml Vial	✓
TCL SVOAS	4°C	1 1L Amber	✓
TCL PEST/PCBS	4°C	2 1L Amber	✓
TAL METALS (TOTAL)	HNO3/4°C	1 500 ml PE	✓
TSS/TDS	4°C	1 250 ml PE	✓

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD — Duplicate ID No.: —

Signature(s): SJ Conti

.85 TD

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: 18TW 4
DATE: 4-14-00

Time (Hrs.)	Water Level (Ft. below ~~TOC~~ BGS)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. ~~PPT.~~ o/o	Comments
~~0900~~	~~10~~ 4.10	SJC								
0935	5.25	250	5.21	.233	—	8.72	14.87	158	0.0	
0945	5.22	250	5.17	.208	194	8.06	14.79	137	0.0	
0955	5.22	"	5.19	.201	21.5	7.72	15.09	136	0.0	
1000	—	"	5.26	.198	19.6	7.73	15.07	131	0.0	
1005	5.22	"	5.28	.197	13.8	7.76	14.95	130	0.0	
1010	5.22	"	5.38	.196	—	~~8.20~~	14.94	129	0.0	7.89 DO ?
1015	5.22	"	5.55	.194	10.13	7.73	15.02	115	0.0	
1020	5.22	"	5.65	.193	*7.21	7.71	15.04	110	0.0	*
1025	5.22	"	5.70	.192	~~*7.67~~	7.67	15.05	107	0.0	5.61 TURB
1030	5.22	"	5.72	.192	5.65	7.64	15.03	105	0.0	
1035	5.22	"	5.75	.191	4.75	7.62	15.04	104	0.0	

SIGNATURE(S): SJ Conti

SITE 23 -- FUEL FARM - GROUNDWATER SAMPLING INFORMATION

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: S23MW02501
Sample Location: 23MW025
Sampled By: Piw.
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 8-6-00								
Time: 1525								
Method: Grundfos	clear	6.23	0.653	20.2	30	2.48	-39	0

PURGE DATA:

Date: 8-6-00
Method: Grundfos
Monitor Reading (ppm):
Well Casing Diameter & Material
Type: 2" PVC
Total Well Depth (TD): 13.5
Static Water Level (WL): 5.97
One Casing Volume(gal): 1.2
Start Purge (hrs): 0834
End Purge (hrs): 0914
Total Purge Time (min): 31
Total Vol. Purged (gal): 1.4

See Attached Low Flow Purge Data Sheet for Purge Data

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	3 x 40 ml Vial	✓
TCL SVOC / PAH	4°C	2 x 1l	✓
TCL Pest / PCB	4°C	2 x 1l	✓
TAL metals / hardness	HNO_3	500ml	✓
TAL Dissolved metals	HNO_3	500ml	✓
ethene, ethane, methane	HCl	3 x 40ml	✓
sulfide	NaOH, ZnAc	250ml	✓
TOC, ammonia	H_2SO_4	1l	✓
TSS, TDS, alkalinity, sulfate, nitrate chloride	4°C	1l	✓
		SEE COC	

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s): Donald Whalen

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: 23MW02S
DATE: 8-6-00

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. % ~~PPT.~~	Comments
0834	5.79	180								START PURGE
0840	6.30	180	6.16	0.874	78	3.24	16.7	-87	0	
0845	6.49	330	6.18	0.845	66	0.64	18.0	-95	0	turn up Flow to 330
0850	6.64	80	6.17	0.804	52	0.75	19.3	-92	0	turn up Flow as needed to
0855	6.94	110	6.19	0.769	34	0.62	20.0	-90	0	counteract drawdown
0900	7.70	370	6.20	0.745	13	0.69	20.6	-92	0	
0905			6.28	0.685	11	0.78	19.4	-99	0	END Purge
			Pump stops - turn up pump speed to							
			Flush out pump.			Pump water down to			pump	
			Intake.	Lower pump		and pump well dry				
0914	11.14									Monitor recovery
0920	10.85									
0925	10.68									
0930	10.53									
0940	10.23									
0955	12.20									Pull Pump
1510	6.87									w.l. prior to sampling

SIGNATURE(S): Donald Whalen

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: S23MW02D01
Sample Location: MW02D
Sampled By: [illegible]
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 8/16/00								
Time: 1100								
Method: Redi-flow pump	clear, brown particulate	6.05	0.119	17.19	15	6.43	53	0.0

PURGE DATA:

Date: 8/16/00
Method: Redi-Flow Pump
Monitor Reading (ppm):
Well Casing Diameter & Material
Type: 6" Steel
Total Well Depth (TD): 27.95
Static Water Level (WL): 6.08
One Casing Volume(gal):
Start Purge (hrs): 0855
End Purge (hrs): 1050
Total Purge Time (min): 160
Total Vol. Purged (gal): 9.0

See Attached Low Flow Purge Data Sheet for Purge Data

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	40 ml Vial	6
TCL SVOC / PAH	4°C	Liter Amber	4
TCL Pest / PCB	4°C	Liter Amber	4
TAL Metals	HNO_3	500 ml Poly	2
TAL Dissolved Metals	HNO_3	500 ml Poly	2
~~Sulf~~ cm 8/16/00			
TDS, TSS, Alk Sulfate Chloride	4°C	Liter poly	2
TOC Ammonia	H_2SO_4	Liter poly	2
Ethane Ethene Methane	HCL	40 ml VOA Vial	6
Sulfide	NaOH Zinc Ac	250 ml Poly	2
		SEE COC	

OBSERVATIONS / NOTES:

Pump was set at 23 feet BGS

Circle if Applicable:

MS/MSD: —

Duplicate ID No.: FD 0806001
Assigned time 00:00

Signature(s): [illegible]

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: S23MW02D
DATE: 8/6/00

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. % ~~PPT.~~	Comments
0835	6.08	280	5.84	0.159	90	5.82	15.13	53	0.0	
0840	6.08	310	5.50	0.145	70	4.60	15.30	52	0.0	
0845	6.08	380	5.66	0.135	50	4.57	15.35	45	0.0	
0850	6.08	360	5.70	0.134	55	4.82	15.45	46	0.0	
0855	6.08	350	5.74	0.131	50	5.17	15.31	46	0.0	
0900	6.08	350	5.80	0.128	45	5.21	15.38	45	0.0	
0905	6.08	350	5.83	0.127	40	5.40	15.47	45	0.0	
0910	6.08	350	5.86	0.124	36	5.57	15.51	48	0.0	
0915	6.08	350	5.90	0.123	32	5.80	15.47	47	0.0	cleaned cell
0920	6.08	350	5.95	0.121	30	6.61	15.31	44	0.0	
0925	6.08	205	5.95	0.119	26	6.38	15.73	49	0.0	
0930	6.08	225	5.97	0.117	22	6.50	16.02	47	0.0	
0935	6.08	225	5.98	0.118	22	6.47	16.22	48	0.0	
0940	6.08	225	5.99	0.117	23	6.54	16.83	49	0.0	
0945	6.08	225	5.99	0.117	23	6.70	17.04	50	0.0	
0950	6.08	225	6.04	0.119	19	6.04	16.85	44	0.0	
0955	6.08	130	6.03	0.119	19	6.19	16.90	47	0.0	Turned flow rate down
1000	6.08	130	6.09	0.122	21	7.45	15.85	40	0.0	cleaned cell
1005	6.08	130	6.06	0.120	16	6.21	16.75	43	0.0	
1010	6.08	130	6.04	0.118	16	6.49	16.66	53	0.0	
1015	6.08	170	6.04	0.117	17	6.45	16.74	53	0.0	
1020	6.08	170	6.05	0.119	17	6.44	16.64	52	0.0	
1025	6.08	170	6.05	0.119	14	6.42	17.49	52	0.0	
1030	6.08	170	6.06	0.119	19	6.43	16.99	53	0.0	
1035	6.08	160	6.05	0.119	20	6.41	17.37	52	0.0	
1040	6.08	160	6.06	0.119	15	6.44	16.97	54	0.0	
1045	6.08	160	6.05	0.119	15	6.43	17.19	53	0.0	
1050	Purging was completed after removing 9 gallons from the well the water was clear with a brown suspended solid orange bacterial									

1100 Sample S23MW02D01 and Dup FD-0806001 were collected

SIGNATURE(S): [illegible]

PAGE 2 OF 2

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: S23MW03D01
Sample Location: MW03D
Sampled By: Chuck Meyer
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 8/6/00								
Time: 1555								
Method: Redi flow Pump	Clear	11.72	1.23	17.88	4.1	5.22	-122	0.1

PURGE DATA:

Date: 8/5/00	See Attached Low Flow Purge Data Sheet for Purge Data
Method: Red. Flow Pump	
Monitor Reading (ppm):	
Well Casing Diameter & Material Type: 6" steel	
Total Well Depth (TD): 55.00	
Static Water Level (WL): 4.46	
One Casing Volume(gal): 75.0	
Start Purge (hrs): 1315	
End Purge (hrs): 1654	
Total Purge Time (min): 239	
Total Vol. Purged (gal): 75	

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	40 ml Vial	3
TCL SVOC / PAH	4°C	1 Liter Amber	1
TCL Pest / PCB	4°C	1 Liter Amber	1
TAL Metals	HNO3	500ml Poly	1
Ethane Ethene Methane	HCl	40 ml VOA Vial	3
TSS, TDS, Alk Sulfate Chloride	4°C	1 Liter Poly	1
TOC Ammonia	H2SO4	1 Liter Poly	1
Sulfide	NaOH Zinc Acc	250 ml Poly	1
		SEE COC	

OBSERVATIONS / NOTES:

8/6/00
0940 Water Level recovered to 31.58 Feet
1515 Water Level recovered to 27.45 Feet will sample due to having enough volume to fill bottle ware

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: S23MW03D01
DATE: 8/5/00

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. % ~~PPT.~~	Comments
1315	4.30	650	11.44	0.703	20	3.54	17.3	-70	0.0	
1320	4.80	320	11.36	0.711	9.7	1.09	18.5	-107	0.0	
1325	5.20	280	11.36	0.716	6.2	0.68	19.0	-130	0.0	
1330	5.38	200	11.32	0.694	4.9	0.65	20.8	-150	0.0	
1335	5.48	180	11.39	0.703	4.1	0.51	19.5	-154	0.0	
1340	5.60	140	11.35	0.693	3.5	0.68	20.1	-159	0.0	
1345	5.65	170	11.33	0.695	3.5	0.67	20.8	-163	0.0	
1350	5.80	190	11.29	0.693	3.5	0.67	22.9	-166	0.0	
1355	5.89	130	11.35	0.693	3.2	0.48	20.6	-168	0.0	increased flow rate
1400	5.98	170	11.31	0.685	3.1	0.60	21.8	-170	0.0	
1405	6.07	130	11.37	0.691	3.5	0.41	20.2	-173	0.0	
1410	6.16	100	11.35	0.691	4.0	0.54	20.9	-176	0.0	increased the Flow rate
1415	6.27	150	11.31	0.688	4.5	0.52	22.0	-177	0.0	
1420	6.33	100	11.34	0.691	3.5	0.42	21.7	-177	0.0	increased the Flow Rate
1425	6.45	90	11.34	0.691	3.2	0.38	21.7	-180	0.0	
1430	6.55	150	11.37	0.684	4.0	0.45	22.0	-181	0.0	
1435	6.63	120	11.35	0.699	3.2	0.45	21.1	-181	0.0	
1440	Purge rate increased to 4 liters per minute to reduce drawdown									
1454	Purge rate decreased to 3 liters per minute 15.99 feet									
1500	18.7	3 Liters								clear water
1507	20.3	3 Liters								
1517	26.2	3 Liter	removed 25 gallons and tried to purge the well again.							
1520	26.7	540	11.45	0.676		2.79	19.3	-168	0.0	
1525	26.9		11.41	0.675		0.61	18.6	-168		
1530	27.02	150	11.39	0.688	8.5	2.58	19.3	-178	0.0	
1535	27.07									
1537	27.42	10 Liters								

SIGNATURE(S): [signature]

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: S23MW03D01
DATE: 815100 / 8/6/00

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. % ~~PPT.~~	Comments
1550	43.70	200								
1555	43.70	100								
1600	43.83	300								
1605	43.94	280								
1610	44.05	250								
1615	44.10	170								
1620	44.15	180								
1625	44.20	180								
1630	44.23	140								
1635	44.26	200								
1640	44.33	200		can not stabilize flow rate due to pump shut off						
				if flow rate falls below 140 ml and can't get the control						
				box to stay at 140						
1642	Beginning to purge the well drop flow rate out									
1645	47.03	36,100								
1654	53.27		purged dry after removing 75 gallons from the well							
August 6 2000										
1535	27.45	300	11.71	1.25	6.9	5.63	17.45	-127	0.1	
1540		300	11.71	1.24	4.9	5.50	17.59	-127	0.1	
1545		300	11.72	1.24	4.9	5.36	17.68	-123	0.1	
1550		300	11.72	1.23	4.1	5.22	17.88	-122	0.1	

SIGNATURE(S): [illegible]

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: S23MW04S
Sample Location: 23MW04S.
Sampled By: DP Cecere
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity
Date: 6-25-2000								
Time: 1030								
Method: Grundfos	Milky	5.74	0.264	19.5	26	2.64	59	0

PURGE DATA:

Date: 6-25-2000	See Attached Low Flow Purge Data Sheet for Purge Data
Method: 2" Grundfos	
Monitor Reading (ppm):	
Well Casing Diameter & Material Type: 2" PVC	
Total Well Depth (TD): 54.0	
Static Water Level (WL): 7.55	
One Casing Volume(gal):	
Start Purge (hrs):	
End Purge (hrs):	
Total Purge Time (min):	
Total Vol. Purged (gal):	

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	40 ml Vial	✓
SVOC	4°C	1 L G	✓
PCB Pest	4°C	2 - 1 L G	✓
Diss Metals	4°C HNO3	1 L P	✓
Total Metals	4°C HNO3	1 L P	✓
TDS TSS Cl-	4°C	3 - 250 ml	✓

OBSERVATIONS / NOTES:

WELL COULD NOT ACH

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s): DP Cecere

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: 23 MW045
DATE: 6-25-2000

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. PPT.	Comments
1355	7.35	No	Parameters	taken	due	to	high	turbidity.		V TURBID
	Instead	the	well	was	re	developed	for a			
	short	period.								
1500	Reduced	Q to	400 m	L/min.	Turbidity		still	200	NTUs	
1500		400	6.57	0.203	204	3.41	19.68	64	0	Well Closed
1530	7.65	400	6.78	0.202	110	2.70	19.9	51	0	
1540	7.64	400	6.80	0.204	37	2.77	19.8	51	0	
1550	7.64	400	6.80	0.204	26	2.74	19.8	54	0	
1605	7.64	400	6.74	0.204	25	3.44	19.3	59	0	
1620	7.64	400	6.74	0.204	2.5	2.68	19.8	54	0	
1625	7.64	400	6.75	0.204	20	2.70	19.4	59	0	
1630	SAMPLE	400	6.74	0.204	26	2.69	19.3	59	0	

SIGNATURE(S): DP Ellcore

PAGE 1 OF 1

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: 523 MW04D 01
Sample Location: 23 MW04D
Sampled By: D.W.
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 8/4/00								
Time: 1725								
Method: Grundfos	clear	6.64	0.128	16.0	7.3	7.88	49	0

PURGE DATA:

Date: 8-4-00
Method: Grundfos
Monitor Reading (ppm): —
Well Casing Diameter & Material
Type: 2" PVC
Total Well Depth (TD): 93.5
Static Water Level (WL): 7.26
One Casing Volume(gal): 14.1
Start Purge (hrs): 1435
End Purge (hrs): 1715
Total Purge Time (min): 160
Total Vol. Purged (gal): 14

See Attached Low Flow Purge Data Sheet for Purge Data

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	3X 40 ml Vial	✓
TCL SVOC / PAH	4°C	2x1L	✓
TCL Pest / PCB	4°C	2x1L	✓
TAL Total metals / hardness	HNO3	500ml	✓
ethane, ethene, methane	HCl	3X 40ml	✓
TOC, ammonia	H2SO4	1L	✓
Sulfide	NaOH, ZnAC	250ml	✓
TSS, TDS, alkalinity, Sulfate, Chloride	4°C	1L	✓
		SEE COC	

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD —

Duplicate ID No.: —

Signature(s): David Wilkins

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: 23MW04D
DATE: 8-4-00

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. % ~~PPT.~~	Comments
1435	7.27	310								START PURGE
1440	7.59	430	8.57	0.172	7.56	8.91	15.7	45	0	
1445	7.42	210	8.45	0.195	>1000	7.27	16.0	9	0	
1450	7.61	420	8.59	0.182	887	3.22	15.7	1	0	
1455	7.60	480	8.63	0.176	691	3.22	15.6	1	0	
1500	7.56	310	8.64	0.173	512	4.49	15.9	5	0	
1505	7.52	360	8.43	0.168	343	4.29	16.2	8	0	
1510	7.53	320	8.01	0.159	203	5.38	15.8	15	0	
1515	7.56		7.58	0.153	144	5.76	15.9	-10	0	
1520	7.62	400	7.30	0.147	87	6.15	15.9	-23	0	
1525	7.59	360	7.15	0.144	63	6.42	15.5	-20	0	
1530	7.55	300	7.02	0.143	50	6.60	15.8	-13	0	
1535	7.50	280	6.93	0.141	43	6.83	15.9	-6	0	
1540	7.50	280	6.89	0.139	32	6.89	16.5	-2	0	
1545	7.49	250	6.84	0.136	29	7.05	16.4	4	0	
1550	7.49	270	6.80	0.137	28	7.28	16.1	8	0	
1555	7.50	280	6.78	0.136	25	7.17	16.4	11	0	
1600	7.50	310	6.75	0.135	24	7.38	16.1	17	0	
1605									0	clean out Flow-through cell
1610	7.54	430	6.72	0.132	26	7.81	16.1	29	0	
1615	7.54	360	6.70	0.132	20	7.80	16.0	29	0	
1620	7.59	450	6.69	0.132	15	7.73	15.8	31	0	
1625	7.58	430	6.69	0.131	13	7.84	15.6	34	0	
1630	7.53	340	6.68	0.131	11	7.66	15.6	37	0	
1635	7.53	360	6.66	0.131	10	7.82	15.7	40	0	
1640	7.53	340	6.65	0.130	9.2	7.94	15.7	42	0	
1645	7.53	340	6.65	0.130	9.1	7.75	15.7	42	0	
1650	7.51	320	6.64	0.129	9.0	7.78	15.7	43	0	
1655	7.55	340	6.65	0.129	7.8	7.66	15.6	45	0	
1700	7.53	340	6.63	0.129	7.4	7.90	15.7	47	0	

SIGNATURE(S): [illegible]

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: 23MW04D
DATE: 8-4-00

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. % ~~PPT.~~	Comments
1705	7.49	300	6.64	0.129	7.4	7.78	15.8	47	0	
1710	7.48	290	6.64	0.129	7.3	7.81	16.0	49	0	
1715	7.48	290	6.64	0.128	7.3	7.88	16.0	49	0	END PURGE

SIGNATURE(S): Donald Whelan

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: S23 HNUS 201
Sample Location: HNUS-2
Sampled By: CHUCK M.
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color	pH	S.C.	Temp.	Turbidity	DO	ORP	Salinity
Date:	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	mV	%
Time:								
Method:	Lt Brown	6.70	0.470	23.17	50	0.96	-99	0.0

PURGE DATA:

Date:	8/3/00
Method:	12 cdi flow Pump
Monitor Reading (ppm):	
Well Casing Diameter & Material Type:	2" PVC
Total Well Depth (TD):	13.38
Static Water Level (WL):	5.26
One Casing Volume(gal):	1.32
Start Purge (hrs):	1510
End Purge (hrs):	1835
Total Purge Time (min):	205
Total Vol. Purged (gal):	12

See Attached Low Flow Purge Data Sheet for Purge Data

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	40 ml Vial	
		SEE COC	

OBSERVATIONS / NOTES:

13.38
5.26
8.12
.163
2436
4872
812
1.32356

Pump shut off at 1835 and kept kicking off
purging was complete with no stabilization
No sampling occured at site today will be
back

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: S23NNUS201
DATE: 8/3/00

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. % ~~PPT.~~	Comments
1510	5.18	500	6.37	0.490		3.49	21.35	-139	0.0	
1515	5.83	160	6.63	0.461	330	0.93	21.95	-151	0.0	
1520	5.93	100	6.66	0.468	260	0.99	22.54	-149	0.0	
1525	5.93	100	6.68	0.456	260	1.05	23.33	-142	0.0	
1530	5.99	250	6.72	0.453	200	0.60	23.93	-148	0.0	
1535	7.60	250	6.73	0.432	200	0.36	23.50	-156	0.0	Flow stopped
1540	7.48	250	6.71	0.445	210	0.31	22.54	-159	0.0	
1545	7.24	100	6.71	0.452	182	0.32	23.01	-159	0.0	Flow stopped
1550	7.05	200	6.71	0.464	163	0.34	23.70	-158	0.0	
1555	6.83	80	6.70	0.478	130	0.38	24.51	-156	0.0	
1600	6.67		6.72	0.471	85	0.39	24.76	-157	0.0	Flow stopped
1605	6.67		6.60	0.458		0.38	25.50	-156	0.0	
1610	6.69		6.65	0.460		0.37	25.28	-155	0.0	
1615	6.67		6.64	0.462	50	0.36	25.28	-154	0.0	
1620	7.42	200	6.61	0.446		0.42	23.52	-136	0.0	Flow stopped rate adjusted
1630	7.21	300	6.64	0.456	55	0.56	22.56	-136	0.0	Flow stopped rate adjusted
1636	7.30	150	6.67	0.448	130	0.47	23.02	-140	0.0	Flow stopped rate adjusted
1640	6.95	150	6.68	0.441		0.70	24.39	-126	0.0	Flow stopped rate adjusted
1645	Cant get flow rate to stabilize cant collect data pump stops every cycle									
	head over to talk to KS about the situation									
1650	Turned up the flow rate and didnt take readings and got a consistant flow									
	pump shut off after 10 minutes due to flow rate problems									
1705	Pump was pumping again but no readings were collected									
1715	Flow rate on the pump stopped turned the pump off and quickly started it									
	Flow rate continued to fluctuate									

SIGNATURE(S): [signature]

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: S23HNUS201
DATE: 8/3/00

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. % ~~PPT.~~	Comments
1730	Flow rate stopped cm turns up control box continued no Flow									
	turned off control box and turned it back on for consistant flow									
1740	Flow rate stopped cm turns off the control box and turns it									
	back on flow rate was good									
1745	8.21	290								
1750	8.21	390								Flow rate adjusted
1755	8.24	150								
1800	8.21	250								Flow stopped rate adjusted
1805	9.21	400								
1810	8.54	250								Flow stopped rate adjusted
1815	8.84	450								
1820	8.64	200								Flow stopped rate adjusted
1825	8.21	150								Flow rate ajusted
1830	8.20		6.70	0.470	50	0.96	23.17	-110	0.0	
1835								-99		
	Puuging was completed after removing 12 gallons from the well									

SIGNATURE(S): [signature]

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: S23HNUS201
Sample Location: HNUS-2
Sampled By: Chuck Meyer
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color	pH	S.C.	Temp.	Turbidity	DO	ORP	Salinity
Date: 8/4/06	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	mV	%
Time: 1058								
Method: Peristaltic Straw	Clear	6.63	0.555	21.21	4.4	0.61	-108	0.0

PURGE DATA:

Date: 8/4/06
Method: Peristaltic Pump
Monitor Reading (ppm):
Well Casing Diameter & Material
Type: 2" PVC
Total Well Depth (TD): 13.38
Static Water Level (WL): 5.36
One Casing Volume(gal):
Start Purge (hrs): 0935
End Purge (hrs): 1058
Total Purge Time (min): 83
Total Vol. Purged (gal): 2.0

See Attached Low Flow Purge Data Sheet for Purge Data

SAMPLE COLLECTED @ 4.00

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	40 ml Vial	
TCL SVOC			
TCL Pest/PCB			
TAL Metals			
Dissolved Metals			
Ethane, Ethene, Methane			
Sulfide			
		SEE COC	

OBSERVATIONS / NOTES:

Continued from yesterday after the pump not stabilized after pumping

SWITCHED TO PERISTALTIC PUMP, SEE TASK MOD.

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: S23HNUS201
DATE: 8/4/00

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. % ~~PPT.~~	Comments
0935	5.26	200	6.54	0.641	15	3.25	19.86	-82	0.0	
0940	5.83	120	6.52	0.606	13	1.81	19.79	-88	0.0	
0945	5.95	110	6.58	0.577	4.8	1.73	20.3	-76	0.0	
0950	6.07	100	6.48	0.573	6.6	1.60	20.36	-76	0.0	
0955	6.13	40	6.45	0.554	6.6	1.52	20.46	-79	0.0	
1000	6.21	100	6.46	0.539	5.2	1.24	20.39	-93	0.0	
1005	6.31	100	6.47	0.538	6.4	1.05	20.31	-86	0.0	
1015	6.28	50	6.48	0.535	4.8	1.00	20.65	-94	0.0	Flow rate slowed
1020	6.30	75	6.56	0.539	5.2	0.88	20.83	-97	0.0	
1025	6.30	75	6.60	0.550	4.4	0.85	20.48	-102	0.0	
1030	6.31	75	6.61	0.551	5.6	0.79	20.90	-104	0.0	
1035	6.31	75	6.62	0.551	5.1	0.73	20.99	-105	0.0	
1040	6.31	75	6.62	0.553	4.1	0.62	21.04	-107	0.0	
1045	6.31	75	6.63	0.554	3.7	0.63	20.95	-107	0.0	
1050	6.31	75	6.63	0.555	4.4	0.61	21.21	-108	0.0	
1055	Purging of S23HNUS201 was complete after removing 2 gallons from the well									
1058	Sample S23HNUS201 was collected by SM from the discharge of the peristaltic pump and the straw method									

SIGNATURE(S): [signature]

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: G23GWHNUS501
Sample Location: HNUS-5
Sampled By: DW
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 8/3/00								
Time: 1640								
Method: Grundfos	clear	6.31	0.310	23.6	3.2	0.50	-30	0

PURGE DATA:

Date: 8/3/00
Method: Grundfos
Monitor Reading (ppm): —
Well Casing Diameter & Material
Type: 2" PVC
Total Well Depth (TD): 14.00
Static Water Level (WL): 4.23
One Casing Volume(gal): 1.60
Start Purge (hrs): 1501
End Purge (hrs): 1635
Total Purge Time (min): 94
Total Vol. Purged (gal): 3.5

See Attached Low Flow Purge Data Sheet for Purge Data

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	3x 40 ml Vial	✓
TCL SVOC / PAH	~~2x 1l~~ 4°C	2x1l	✓
TCL PEST	~~2x 1l~~ 4°C	1l	✓
TCL PCB	~~2x 1l~~ 4°C	1l	✓
TAL Total metals / hardness	~~[illegible]~~ HNO_3	500 ml	✓
ethene ethane methane		3x 40 ml	✓
Sulfide	NaOH, ZnAc	250 ml	✓
TOC, ammonia	H_2SO_4	1l	✓
TSS, TDS, alkalinity sulfate chloride	4°C	1l	✓
		SEE COC	

OBSERVATIONS / NOTES:

14.00
4.23
9.77
0.163
2921
5862
977
1.59241

Well was open. Both Flush mount cover and J-plug were missing.

A NEW J PLUG WAS INSTALLED @ 1710

Circle if Applicable:

MS/MSD —
Duplicate ID No.: —

Signature(s): Donald Whalen

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: HNUS 5
DATE: 8/3/00

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. % ~~PPT.~~	Comments
1501	4.46	160								START Purge
1505	4.54		6.26	0.264	36	3.08	20.5	68	0	
1510	4.56	140	6.17	0.265	29	2.00	21.3	62	0	
1515	4.58	150	6.17	0.266	23	1.98	22.2	62	0	
1520	4.59	150	6.16	0.267	18	2.00	22.7	58	0	
1525	4.58		6.18	0.271	14	1.93	23.0	55	0	
1530	4.58		6.19	0.279	13	1.68	23.3	49	0	
1535			6.21	0.279	12	1.39	23.6	42	0	
1540	4.57		6.22	0.286	11	1.36	23.6	37	0	
1545	4.57		6.24	0.292	8.8	0.96	23.8	27	0	
1550	4.58		6.27	0.297	8.0	0.74	23.7	14	0	
1555	4.58		6.27	0.299	6.6	0.74	23.8	7	0	
1600	4.58		6.28	0.301	7.1	0.67	23.8	-2	0	
1605			6.28	0.302	5.7	0.63	23.8	-8	0	
1610			6.29	0.306	5.7	0.60	23.8	-16	0	
1615			6.29	0.306	4.8	0.56	23.7	-18	0	
1620			6.30	0.308	4.1	0.53	23.7	-25	0	
1625			6.31	0.309	3.5	0.53	23.6	-27	0	
1630			6.31	0.310	3.7	0.50	23.6	-29	0	
1635			6.31	0.310	3.2	0.50	23.6	-30	0	END PURGE

SIGNATURE(S): Donald Dalen

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: 23HNUS1101
Sample Location: HNUS11
Sampled By: D.W.
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 8-6-00								
Time: 1335								
Method: peristaltic pump	clear	6.57	0.764	17.0	4.68	0.51	-117	0

PURGE DATA:

Date: 8/6/00
Method: Grundfos/Peristaltic pump
Monitor Reading (ppm):
Well Casing Diameter & Material
Type: 2" PVC
Total Well Depth (TD): ~~8.84~~ 14.6
Static Water Level (WL): 8.84
One Casing Volume(gal): 0.9
Start Purge (hrs): 1028
End Purge (hrs): 1330
Total Purge Time (min): 129
Total Vol. Purged (gal): 5

See Attached Low Flow Purge Data Sheet for Purge Data

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	40 ml Vial	✓
TCL SVOC / PAH	4°C	1l	✓
TCL Pest / PCB	4°C	1l	✓
TAL metals / hardness	HNO_3	500 ml	✓
ethene ethane methane	HCl / 4°C	40 ml	✓
sulfide	NaOH, ZnAc	~~amb~~ 250 ml	✓
TOC ammonia	H_2SO_4	1l	✓
TSS, TDS, alkalinity, sulfate, chloride	4°C	1l	✓
		SEE COC	

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s): Donald Whaler

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: HNUS11
DATE: 8-6-00

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. % ~~PPT.~~	Comments
1028	8.74	280								START PURGE
1035	9.66	220	6.37	0.983	816	1.10	19.4	-83	0	Brown water
1040	9.71	260	6.38	0.988	578	1.26	21.0	-98	0	
1045	9.83	230	6.41	1.00	329	1.10	21.5	-122	0	
1050	9.90	190	6.45	1.00	236	0.58	21.6	-139	0	
1055	9.94	180	6.48	0.99	138	0.51	21.7	-143	0	
1100	9.92	170	6.49	0.97	89	0.43	21.8	-149	0	Unable to increase Flow by turning up speed
1105	9.84	80	6.51	0.94	58	0.41	22.0	-152	0	
1110	9.68	60		Pump stops						Turn pump speed
1115	9.16	220	6.49	0.908		0.42	23.5	-152	0	
1120	9.68	190	6.52	0.906		0.43	24.0	-156	0	
1125		0		Pump Stops - will not work properly						STOP PURGE
				Shut off pump						
			Pull Grundfos - replace with peristaltic pump							
1218	8.93	260								START PURGE
1225	9.59	200	6.45	0.855	204	2.78	18.2	-99	0	
1230	9.78	170	6.46	0.857	126	1.59	18.1	-100	0	
1235	9.85	150	6.51	0.841	54	1.31	18.1	-110	0	
1240	9.85	150	6.52	0.821	35	0.70	17.7	-114	0	
1245	9.85	150	6.53	0.793	19.3	0.62	17.6	-115	0	
1250	9.85	150	6.54	0.791	16.1	0.60	17.5	-115	0.0	
1255	9.85	150	6.54	0.785	12.8	0.58	17.3	-116	0.0	
1300	9.86	150	6.55	0.783	10.75	0.57	17.3	-117	0.0	
1305	9.88	150	6.56	0.773	6.00	0.54	17.2	-117	0.0	
1310	9.88	150	6.56	0.765	5.11	0.53	17.2	-118	0.0	
1315	9.88	150	6.56	0.762	4.93	0.52	17.2	-117	0.0	
1320	9.88	150	6.57	0.764	5.03	0.51	17.3	-117	0.0	
1325	9.88	150	6.57	0.764	4.96	0.51	17.0	-117	0.0	
1330	9.88	150	6.57	0.764	4.68	0.51	17.0	-117	0.0	END PURGE

SIGNATURE(S): Donald Whalen

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: S23HNUS1301
Sample Location: HNUS 13
Sampled By: D.W.
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 8-7-00								
Time: 1025								
Method: Grundfos	clear	5.56	0.274	22.9	1.1	0.27	122	0

PURGE DATA:

Date: 8-7-00
Method: Grundfos
Monitor Reading (ppm): —
Well Casing Diameter & Material
Type: 2" PVC
Total Well Depth (TD): 143
Static Water Level (WL): 4.16
One Casing Volume(gal): 1.7
Start Purge (hrs): 0847
End Purge (hrs): 1020
Total Purge Time (min): 70
Total Vol. Purged (gal): 6

See Attached Low Flow Purge Data Sheet for Purge Data

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	3x 40 ml Vial	✓
TCL SVOC/PAH	4°C	2x 1l	✓
TCL Pest / PCB	4°C	2x 1l	✓
TAL metals / hardness	HNO_3	500 ml	✓
Ethene, Ethane, methane	HCl	3x 40 ml	✓
Sulfide	NaOH, ZnAc	250 ml	✓
TOC ammonia	H_2SO_4	1l	✓
TSS, TDS, Alkalinity, sulfate, chloride	4°C	1l	✓
		SEE COC	

OBSERVATIONS / NOTES:

Flush mount cover - one bolt is broken.

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s): Donald Whalen

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: HNUS13
DATE: 8-7-00

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. % ~~PPT.~~	Comments
0847	4.11	390								START PURGE
0850	4.90		5.52	0.292	62	1.63	20.7	132	0	
0855	4.89	450	5.51	0.289	47	0.83	21.5	132	0	
0900	4.85	400	5.50	0.284	24	0.65	21.9	138	0	
0905	4.78	350	5.51	0.279		0.37	22.3	138	0	
0910				Generator shuts off, add oil						STOP
0928	4.11									RE-START
0930	4.81	330	5.61	0.276		3.63	21.2	133	0	
0935	4.94	450	5.54	0.275	4.0	0.56	21.7	128	0	
0940	4.91	360	5.54	0.274	2.6	0.49	22.2	128	0	
0945	4.64	250	5.54	0.274	2.5	0.36	22.4	126	0	
0950	4.76	310	5.54	0.274	1.8	0.40	22.7	125	0	
0955	4.64	300	5.54	0.274	1.6	0.31	22.7	125	0	
1000	4.62	290	5.55	0.274	1.3	0.32	22.9	124	0	
1005	4.65	310	5.55	0.274	1.2	0.38	23.1	121	0	
1010	4.65	310	5.56	0.275	1.1	0.27	23.0	120	0	
1015	4.65	310	5.56	0.275	1.1	0.28	22.9	121	0	
1020	4.65	310	5.56	0.274	1.1	0.27	22.9	122	0	END PURGE

SIGNATURE(S): Donald Whalen

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: S23 HNUS 2001
Sample Location: HNUS 20
Sampled By: D.W.
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 8/5/00								
Time: 1620								
Method: Grundfos	clear	3.67	0.359	21.02	0.4	1.41	172	0

PURGE DATA:

Date: 8/4 and 8/5/00
Method: Grundfos
Monitor Reading (ppm): —
Well Casing Diameter & Material
Type: 2" PVC
Total Well Depth (TD): 14.7
Static Water Level (WL): 7.94
One Casing Volume(gal): 1.1
Start Purge (hrs): 1325 (8-5) 0915 8-4
End Purge (hrs): 1405 (8-5) 1045 8-4
Total Purge Time (min): 150
Total Vol. Purged (gal): 4

See Attached Low Flow Purge Data Sheet for Purge Data

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	40 ml Vial	✓
TCL SVOC / PAH	4°C	1 l	✓
TCL Pest / PCB	4°C	1 l	✓
TAL metals	HNO_3	500 ml	✓
ethene ethane methane	~~RW~~ HCl	40 ml	✓
sulfide	NaOH ZnAc	~~RW~~ 250 ml	✓
TOC, ammonia	H_2SO_4	1 l	✓
TSS, TDS, alkalinity, sulfate chloride	4°C	1 l	✓
		SEE COC	

OBSERVATIONS / NOTES:

STARTED purging on 8-4-00 but abandoned attempt due to pump problems. Resumed purging on 8-5-00 with new pump, pumped well dry, allowed well to recover, and sampled.

Circle if Applicable:

MS/MSD —
Duplicate ID No.: —

Signature(s): Donald Whalen

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: HNUS 20
DATE: 8-4-00

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. % ~~PPT.~~	Comments
0916	7.90	370								
0920	8.46	460	5.38	0.296	4.0	3.64	17.2	200	0	
0925	8.83	200	5.42	0.283	3.2	1.57	19.0	177	0	
0930	8.93	100	5.45	0.282	4.2	1.23	19.6	169	0	
0935	8.97	150	5.46	0.283	5.7	1.64	20.0	163	0	
0940	9.00	80	5.48	0.284	8.2	1.22	20.7	165	0	
0945	9.01		5.49	0.288	9.1	1.20	21.3	151	0	
		pump stops, turn up speed to maintain Flow								
0950	8.95		5.50	0.290		0.95	21.7	146	0	
		pump not maintaining Flow rate								
1000	9.12	260	5.52	0.290		0.70	23.6	138	0	
1002										STOP pumping
			SWITCH PUMPS,							Pump is not working
			RESUME PUMPING							properly
1015	8.70	210								
1020	9.09	150	5.55	0.296	20	2.20	21.0	126	0	
1025	9.16		5.55	0.296	14	1.62	22.3	121	0	
1030	9.21		5.55	0.298	9.3	0.91	22.5	121	0	
1035	9.26	180	5.55	0.299		0.66	22.5	125	0	
1038		~~300~~	pump stops, turn up speed							
1040	9.45	500	5.56	0.300	6.10	0.63	22.9	122	0	
1045	9.45	110	5.56	0.298	4.5	0.52	22.7	127	0	
			pump STOPS							STOP purging because
										pump is not working
		Will	Re-Attempt	purging	tomorrow	with				
			New	pump						

SIGNATURE(S): Donald Nikolas

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: HNUS20
DATE: 8-5-00

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. % ~~PPT.~~	Comments
1305	7.85									
1310	8.31	80	5.50	0.323		1.76	18.01	192	0	
1315			5.52	0.314	6.9	1.31	19.37	182	0	
1320	8.58	210	5.55	0.312	4.1	1.40	20.85	175	0	
1325	8.71		5.52	0.312	2.2	1.86	21.45	174	0	
1330		280	5.53	0.309	0.9	2.11	20.30	175	0	
1335	9.22	50	5.53	0.308	0.5	2.04	20.10	177	0	turn up Flow rate
1340	9.37	100	5.54	0.308	0.5	1.83	20.36	174	0	
1345	9.48	0	5.56	0.307	0.4	1.84	20.72	174	0	turn up Flow rate to 250
1350	9.53	20	5.67	0.309	0.4	1.41	21.03	172	0	turn up Flow to 100
1355			UNABLE to pump slow enough to match							
			yield of well - turn up pump rate to pump well							
			dry							
1406				pumped	DRY					
			Allow well to recover							
1605	8.73									START sampling

SIGNATURE(S): [illegible]

PAGE 2 OF 2

BACKGROUND - GROUNDWATER SAMPLING INFORMATION

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON / AREA A
Project No.: CTO 203 5082

[ ] Domestic Well Data
[x] Monitoring Well Data
[ ] Other Well Type: ___
[ ] QA Sample Type: ___

Sample ID No.: 2LGW205-04
Sample Location: 2LMW205
Sampled By: K. SIMPSON
C.O.C. No.: 070500-04
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color	pH	S.C.	Temp.	Turbidity	DO	Eh	Salinity
Date: KS KS 7.6.00	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	mV	ppt
Time: 1530								
Method: Peristaltic Pump	CLEAR	6.16	0.93	16.0	2.2	0.99	-18	0

PURGE DATA:

Date: 7.6.00
Method: Peristaltic Pump
Monitor Reading (ppm): 0
Well Casing Diameter & Material
Type: 2" PVC
Total Well Depth (TD): 18.85
Static Water Level (WL): 14.69
One Casing Volume(gal): 0.7
Start Purge (hrs): 1428
End Purge (hrs): 1523
Total Purge Time (min): 55
Total Vol. Purged (gal): 1.5

ROUND 4

See Attached Low Flow Purge Data Sheet for Purge Data

END SAMPLING @ 1643 WL = 15.05

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	40 ml Vial	✓
TCL SEMIVOLATILES	4° C	Qt. Amber Glass	—
TCL PEST/PCBs	4° C	Qt. Amber Glass	—
TCL PAH	4° C	Qt. Amber Glass	—
TAL METALS (TOTAL) + Hardness	HNO_3 / 4° C	L PE	—
TAL METALS (DISSOLVED)	HNO_3 / 4° C	L PE	—
Total Organic Carbon (TOC)	HCL / 4° C	60 mL Glass	—
Chemical Oxygen Demand (COD)	H_2SO_4 / 4° C	250 mL PE	—
Alkalinity, Chloride, Sulfate, TDS, TSS	4° C	L PE	—

OBSERVATIONS / NOTES:

SAMPLED FOR BOTH CTO 312 & 203

FLUSH MT. IN BAD SHAPE, CRACKED PAD LOOSE VAULT & WATER IN VAULT.

PUMP INLET TUBING SET 1' OFF BTM

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s): [signature]

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON / AREA A - ROUND 4
PROJECT NUMBER: CTO 203 job# 5082

WELL ID.: 2LMW20S
DATE: 7.6.00

Time (Hrs)	Water Level (Ft. below TOC)	Flow (ml/min)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	Eh (mV)	Sal. (%)	Comments
1427	14.69	—	—	—	—	—	—	—	—	START PURGE
1433	14.77	150	6.33	0.709	280	1.06	15.3	-37	0	CLOUDY, NO ODOR
1440	14.85	100	6.29	0.605	85	1.96	16.1	-38		CLEARING
1445	14.89		6.25	0.589	40	1.51	16.5	-33		
1450	14.90		6.25	0.555	30	1.16	16.1	-32		
1455	14.93		6.24	0.536	14	0.70	16.2	-29		
1500	14.95		6.21	0.523	11	1.26	15.9	-23		
1505	14.97		6.20	0.509	8.3	1.03	15.8	-22		
1510	14.99		6.18	0.502	3.2	1.00	15.8	-19		
1515	14.99		6.18	0.500	1.8	0.96	15.9	-19		
1520	14.99	↓	6.16	0.503	2.2	0.99	16.0	-18	↓	END PURGE

SIGNATURE(S): [illegible]

BTM = 18.85'

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: S2LMW20S02
Sample Location: 2LMW20S
Sampled By: DLW
C.O.C. No.: 081600-1
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 8-17-00								
Time: 1900								
Method: Peristaltic Pump	clear	6.11	0.480	~~0.85~~ 16.35	0.83	0.43	-40	0

PURGE DATA:

Date: 8-17-00
Method: Peristaltic Pump
Monitor Reading (ppm):
Well Casing Diameter & Material
Type: 2" PVC
Total Well Depth (TD): 18.8
Static Water Level (WL): 14.47
One Casing Volume(gal): 0.7
Start Purge (hrs): 1622
End Purge (hrs): 1855
Total Purge Time (min): 153
Total Vol. Purged (gal): 4

See Attached Low Flow Purge Data Sheet for Purge Data

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	3 x 40 ml Vial	✓
TCL SVOC / PAH	4°C	2 x 1l	✓
TCL Pest / PCB	4°C	2 x 1l	✓
TAL Total metals	HNO_3	500 ml	✓
TAL Dissolved metals	HNO_3	500 ml	✓
TSS, TDS, chlorides	4°C	1l	✓
		SEE COC	

OBSERVATIONS / NOTES:

- Flush mount concrete pad is cracked
- Flush mount vault was full of water
- one Bolt on Flush mount cover is broken
- pump intake set 1' off bottom

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s): Donald Wolcott

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: 2LMW205
DATE: 8-17-00

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. % ~~PPT.~~	Comments
1622	14.47									Start
1630	14.62	100	6.21	0.97	98.0	8.52	18.77	-48	0	gray
1635	14.66		6.06	0.586	65.1	2.24	17.61	-28	0	
1640	14.70	100	6.04	0.536	40.2	1.48	17.48	-20	0	
1645	14.73	100	6.03	0.523	18.9	0.99	17.10	-26	0	
1650	14.74	100	6.02	0.511	11.7	0.95	17.08	-26	0	
1655	14.75	120	6.02	0.509	6.97	0.97	17.22	-26	0	
1700	14.76	110	6.01	0.493	5.60	0.78	17.35	-26	0	
1705	14.74	100	6.01	0.483	5.16	0.56	16.97	-25	0	
1710	14.71	100	6.04	0.480	4.96	0.52	16.78	-27	0	
1715	14.70	100	6.07	0.662	5.21	0.51	17.23	-46	0	
1720	14.70	100	6.09	0.689	5.78	0.50	17.42	-51	0	
1725	14.70	100	6.18	0.96	5.81	0.50	17.76	-57	0	
1730	14.70	100	6.29	1.24	5.99	0.49	18.28	-66	0.1	
1735	14.70	100	6.18	0.94	4.50	0.48	18.02	-58	0	
1740	14.70	100	6.15	1.01	3.79	0.47	17.97	-60	0	
1745	14.70	100	6.13	0.872	3.20	0.48	17.45	-54	0	
1750	14.70	100	6.12	0.732	1.82	0.49	17.26	-48	0	
1755	14.70	100	6.10	0.878	3.76	0.45	17.92	-58	0	
1800	14.70	100	6.14	0.988	3.82	0.52	18.05	-67	0	
1810	14.70	100	6.17	0.789	4.57	0.57	17.64	-60	0	
1815	14.70	100	6.15	0.600	3.96	0.48	16.93	-52	0	
1820	14.70	100	6.12	0.538	2.20	0.45	16.83	-46	0	
1825	14.70	100	6.11	0.523	1.81	0.44	16.65	-44	0	
1830	14.70	100	6.12	0.510	1.39	0.44	16.49	-43	0	
1835	14.70	100	6.11	0.489	1.76	0.43	16.46	-40	0	
1840	14.70	100	6.11	0.485	1.32	0.42	16.38	-39	0	
1845	14.70	100	6.11	0.471	1.28	0.42	16.36	-38	0	
1850	14.70	100	6.10	0.475	0.86	0.42	16.33	-39	0	
1855	14.70	100	6.11	0.480	0.83	0.43	16.35	-40	0	

SIGNATURE(S): Donald Whaley

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON / AREA A
Project No.: CTO 203 5082

[ ] Domestic Well Data
[x] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: 2W GW 21S 04
Sample Location: 2WMW21S
Sampled By: R. SIMPSON
C.O.C. No.: 070500-04
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	Eh mV	Salinity ~~ppt~~ %
Date: 7.5.00 Time: 1800 Method: Peristaltic Pump	TR. BLNK	6.91	32.3	15.4	40	0.26	-404	2.0

PURGE DATA:

Date: 7.5.00
Method: Peristaltic Pump
Monitor Reading (ppm): 0
Well Casing Diameter & Material
Type: 2" PVC
Total Well Depth (TD): 17.30
Static Water Level (WL): 4.41
One Casing Volume(gal): 2.1
Start Purge (hrs): 1614
End Purge (hrs): 1757
Total Purge Time (min): 103
Total Vol. Purged (gal): 2.6

ROUND 4

See Attached Low Flow Purge Data Sheet for Purge Data

END SAMPLING @ 1920 WL = 6.55

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	40 ml Vial	—
TCL SEMIVOLATILES	4° C	Qt. Amber Glass	—
TCL PEST/PCBs	4° C	Qt. Amber Glass	—
TCL PAH	4° C	Qt. Amber Glass	—
TAL METALS (TOTAL) + Hardness	HNO_3 / 4° C	L PE	✓
TAL METALS (DISSOLVED)	HNO_3 / 4° C	L PE	✓
Total Organic Carbon (TOC)	HCL / 4° C	60 mL Glass	✓
Chemical Oxygen Demand (COD)	H_2SO_4 / 4° C	250 mL PE	✓
Alkalinity, Chloride, Sulfate, TDS, TSS	4° C	L PE	✓

OBSERVATIONS / NOTES:

SAMPLED FOR BOTH CTO 203 & 312

SAMPLES HAD SULPHUR ODOR. BLACK FINES (TSS) IN SAMPLE

SOME EFFERVESCENCE IN HCL

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s): R. S Simpson

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON / AREA A - ROUND 4
PROJECT NUMBER: CTO 203 Job# 5082

WELL ID.: 2WMW21S
DATE: 7.5.00

Time	Water Level	Flow	pH	S. Cond.	Turb.	DO	Temp.	Eh	Sal.	Comments
[redacted]	[redacted]	[redacted]	[redacted]	(mS/cm)	(NTU)	[redacted]	(Celcius)	mV	%	
1620	5.22	95	7.06	46.3	1.7	1.90	16.1	-350	3.0	HIGH SOLIDS BLACK
1625	5.43		7.09	45.5	4.5	1.42	15.9	-345	2.9	FINES IN PURGE WATER
1630	5.95		7.07	44.8	2.1	1.23	16.0	-347	2.9	SULFUR ODOR
1640	6.26		7.04	43.9	0.9	1.07	16.0	-349	2.8	
1645	6.40		7.06	43.1	1.0	0.75	16.0	-352	2.8	
1650	6.53		7.07	42.2	1.0	0.90	15.9	-353	2.7	
1655	6.55		7.02	41.5	0.9	0.70	15.8	-354	2.6	
1700	6.58		7.01	40.8	1.0	0.68	15.8	-355	2.6	
1705	6.57		7.01	39.8	1.1	0.59	15.7	-354	2.5	
1710	6.56		6.97	38.8	12	0.64	15.7	-355	2.5	
1715	6.54		6.97	38.0	14	0.47	15.7	-356	2.4	
1720	1.5 ~~6.46~~ 6.55		6.96	37.6	21	0.41	15.7	-360	2.4	
1725	6.55		6.98	37.3	26	0.37	15.7	-367	2.4	
1730	6.55		6.98	36.7	32	0.31	15.7	-374	2.3	
1740	6.56		6.98	35.0	40	0.26	15.5	-381	2.2	
1745	6.55		6.96	33.5	39	0.23	15.4	-398	2.1	
1750	6.55		6.89	32.8	40	0.30	15.5	-402	2.0	
1755	6.54	↓	6.91	32.3	40	0.26	15.4	-404	2.0	START SAMPLING

SIGNATURE(S): [signature]

BTM 17.30

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: S2WMW21S02
Sample Location: 2WMW21S
Sampled By: Chuck Meyer
C.O.C. No.: 081600-1
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 8/16/00								
Time: 1745								
Method: Peristaltic Stream	Black	6.91	25.4	15.54	75	0.17	-430	1.5

PURGE DATA:

Date: 8/16/00
Method: Peristaltic Pump
Monitor Reading (ppm):
Well Casing Diameter & Material
Type: 2" PVC
Total Well Depth (TD): 17.2
Static Water Level (WL): 4.45
One Casing Volume(gal): 2.10
Start Purge (hrs): 1545
End Purge (hrs): 1743
Total Purge Time (min): 118
Total Vol. Purged (gal): 4.0

See Attached Low Flow Purge Data Sheet for Purge Data

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	40 ml Vial	3
TCL Pest/PCB	4°C	Liter Amber	2
TCL SVOC/PAH	4°C	Liter Amber	2
TAL Metals	HNO_3	500 ml Poly	1
TAL Dissolved Metals	HNO_3	500 ml Poly	1
TSS, TDS, Chloride	4°C	Liter Poly	1
		SEE COC	

OBSERVATIONS / NOTES:

17.20
4.45
12.75
0.163
3825
7650
1275
2078.25

Pump intake hose set at 12 feet BTOC
upon starting to pump a black suspended solid was noted along with a sulfur odor

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: 2WMW21S
DATE: 8/16/00

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. % ~~PPT.~~	Comments
1545	4.45	375	6.84	45.8	10	0.60	14.19	-364	3.0	
1550	6.12	150	7.17	45.0	9.0	0.36	15.40	-367	2.9	
1555	6.45	140	7.19	44.0	10	0.32	16.13	-375	2.8	
1600	6.33		7.13	43.3	11	0.33	16.49	-381	2.6	Circuit Breaker blew
									2	on the pump
1615	7.78	375	7.05	38.7	15	0.20	14.25	-397	2.5	pumping resumed
1620	8.21	200	6.96	30.5	50	0.19	14.47	-392	1.9	
1625	8.34	250	6.89	26.9	150	0.19	15.13	-388	1.7	
1630	8.35	230	6.86	26.8	249	0.19	15.68	-396	1.7	
1635	8.29	170	6.89	26.7	90	0.25	15.77	-384	1.7	
1645	8.27	170	6.93	28.5	70	0.20	15.63	-391	1.8	
1650	8.22	140	6.93	28.7	65	0.20	15.57	-395	1.8	
1655	8.18	140	6.94	29.1	60	0.19	15.47	-397	1.8	
1700	8.14	140	6.95	29.0	55	0.19	15.49	-399	1.8	
1705	8.12	140	6.95	28.4	50	0.19	15.49	-401	1.7	
1710	8.12	140	6.95	28.1	50	0.18	15.57	-403	1.7	
1715	8.12	140	6.92	26.4	55	0.19	15.63	-413	1.6	
1720	8.12	140	6.91	25.5	55	0.18	15.51	-422	1.5	
1725	8.12	140	6.90	25.3	59	0.17	15.58	-429	1.5	
1730	8.12	140	6.91	25.4	69	0.17	15.40	-431	1.5	
1735	8.12	140	6.90	25.2	72	0.17	15.46	-431	1.5	Black precipitate present
1740	8.12	140	6.91	25.4	75	0.17	15.54	-430	1.5	
1743	purging of S2WMW21S was complete after removing 4 gallons from the well									
	the water was black with a precipitate present and a sulfur odor									
1745	sample S2WMW21S02 was collected by CM using the peristaltic pump and									
	the straw method for volatiles.									
1830	sampling was completed and breakdown was begun									

SIGNATURE(S): [signature]

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

2WMW21D

Page 1 of ___

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: S22WMW21D 01
Sample Location: ~~2MW-2MW~~
Sampled By: Cercone
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity
Date: 7/5/00								
Time: 1755								
Method: Gruntos	Clear	7.08	0.771	14.8	14	0.28	-182	0

PURGE DATA:

Date: 7/5/00
Method: Gruntos
Monitor Reading (ppm):
Well Casing Diameter & Material
Type: 6" Open BH.
Total Well Depth (TD): 34'
Static Water Level (WL): 3.34
One Casing Volume(gal):
Start Purge (hrs): 1630
End Purge (hrs): 1755
Total Purge Time (min):
Total Vol. Purged (gal): 16 L

See Attached Low Flow Purge Data Sheet for Purge Data

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	40 ml Vial	✓
SVOCs	4°C		✓
Metals Total	HNO3 4°C		✓
Metals Diss	HNO3 4°		✓
TSS TDS Cl⁻	4°C		✓
DIST	4°		✓
PCB	4°		✓

OBSERVATIONS / NOTES:

Well top not secure. Along perimeter road.

Pump is 2-3 ft. from well bottom.

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s): David P. Cercone

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: 2WMW21D
DATE: 7-5-00

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. LaMotte. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. PPT.	Comments
1630	3.34	200		Start.						Adjusting Q.
1638	3.60	200	6.51	0.779	73	0.93	13.69	-116	0.0	2L
1646	"	200	6.66	0.780	29	0.81	14.45	-128	0.0	3L
1648	"	200	6.70	0.783	11.4	0.84	14.31	-130	0.0	4L
1654	3.55	200	6.76	0.777	11.7	0.76	14.75	-135	0	5L
1659		200	6.79	0.777	11.6	0.77	14.87	-141	0	6L
1705	3.50	200	6.85	0.777	13.2	0.64	14.93	-146	0	7L
1713	3.50	200	6.94	0.774	12.3	0.64	15.23	-157	0	8L
1720	3.50	200	7.00	0.777		0.45	15.20	-164	0	9L
1727	3.50	200	7.11	0.776	12.8	0.33	13.68	-181	0	10L
1731	3.50	200	7.08	0.773	12.7	0.43	13.77	-182	0	11L
1741	3.50	220	7.08	0.772	14.4	0.40	13.76	-181	0	12L
1746	3.55	"	7.06	0.772	15.0	0.38	13.71	-182	0	14L
1755	3.55	"	7.08	0.771	14.8	0.38	13.71	-182	0	16L SAMPLE

SIGNATURE(S): David P. Cercone

PAGE 1 OF 1

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: S2WMW21DOR
Sample Location: 2WMW21D
Sampled By: D.W.
C.O.C. No.: 031600-1
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 8-16-00								
Time: 1655								
Method: Grundfos	Clear	6.98	0.738	16.0	3.64	0.25	-177	0

PURGE DATA:

Date: 8-16-00
Method: Grundfos
Monitor Reading (ppm): —
Well Casing Diameter & Material
Type: 6" open hole
Total Well Depth (TD): 34'
Static Water Level (WL): 3.29
One Casing Volume(gal): 45
Start Purge (hrs): 1530
End Purge (hrs): 1650
Total Purge Time (min): 80
Total Vol. Purged (gal): 4

See Attached Low Flow Purge Data Sheet for Purge Data

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	3X 40 ml Vial	✓
TCL PCB/Pest	4°C	2X 1l	✓
TCL SVOC/PAH	4°C	2X 1l	✓
TAL Total metals	HNO_3	500ml	✓
TAL Dissolved metals	HNO_3	500ml	✓
TSS TDS chloride	4°C	1l	✓
		SEE COC	

OBSERVATIONS / NOTES:

- well cap is broken
- pump set at ~5' off bottom

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s): Donald Whalen

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: 2WMW21D
DATE: 8-16-00

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. % ~~PPT.~~	Comments
1530	3.42	290								START PURGE
1535	3.44	200	6.70	0.736	5.70	2.99	15.6	-124	0	clear
1540	3.48		6.83	0.743	5.72	1.06	15.9	-144	0	
1545	3.49		6.90	0.739	5.81	0.63	14.1	-160	0	
1550	3.48		6.91	0.732	4.25	0.52	15.4	-166	0	
1555	3.46		6.93	0.741	3.70	0.43	15.6	-169	0	
1600	3.45		6.94	0.744	3.42	0.34	15.7	-168	0	
1605	3.45		6.95	0.743	3.20	0.32	15.5	-171	0	
1610	3.45		6.95	0.742	3.35	0.42	15.5	-172	0	
1615	3.45		6.94	0.741	3.44	0.44	15.7	-171	0	
1620	3.43		6.94	0.740	3.32	0.28	15.9	-172	0	
1625	3.42		6.95	0.742	3.41	0.26	15.7	-174	0	
1630	3.44		6.95	0.740	3.46	0.30	15.9	-175	0	
1635	3.44		6.96	0.742	3.50	0.28	15.8	-177	0	
1640	3.44		6.96	0.740	3.61	0.29	16.0	-178	0	
1645	3.44		6.96	0.738	3.66	0.25	16.0	-178	0	
1650	3.44		6.98	0.738	3.64	0.25	16.0	-177	0	END PURGE

SIGNATURE(S): Donald Whelan

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: S24WMW22501
Sample Location: 24WMW225
Sampled By: KS / JD
C.O.C. No.: 062600 1
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity
Date: 6/27/00								
Time: 1530								
Method: Grundfoss	Cloudy	5.51	0.617	16.38	210	2.31	97	0.0

PURGE DATA:

Date: 6/27/00
Method: Grundfoss
Monitor Reading (ppm): NA
Well Casing Diameter & Material Type: 2" PVC
Total Well Depth (TD): 12.95
Static Water Level (WL): 4.25
One Casing Volume(gal): — → 1.4
Start Purge (hrs): 1355
End Purge (hrs): 1450
Total Purge Time (min): 75
Total Vol. Purged (gal): ~7.5

See Attached Low Flow Purge Data Sheet for Purge Data

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	40 ml Vial	—
Total Metals	HNO3/4°C	500mL	—
Diss Metals	HNO3/4°C	500mL	—
Pest / PCB	4°C	1L	—
TSS, TDS, Cl-	4° C	500mL	—
VOC	HCl/4°C	40 mL	
Semi-VOC	4°C	1L	—
		SEE ALSO COC	

OBSERVATIONS / NOTES:

Stop purging at 1450 - water level at 11.65ft TOC
allowed water to recharge to 5.8ft TOC - then sampled.

WL WOULD NOT STABILIZE, KEPT DROPPING, LOWERED PUMP TO 0.5± OFF BTM PUMPED DRY, AFTER RECHARGE SAMPLED

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s): [illegible]

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: 2WMW22S
DATE: 6/27/00

	Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. ~~PPT.~~ %	Comments
*	1325	4.25	TD=	12.85 ft	TOC						Initial reading -
* *	1335	4.90	210	5.61	0.708	85	3.32	22.78	~~100~~ 132	0.0	Static WL
	1340	4.93	120	5.62	0.707	110	2.50	23.42	127	0.0	* * Start Pump
	1350	4.80	110	5.71	0.704	220	2.21	25.05	112	0.0	* * * Flow rate
	1355	6.10	350	5.77	0.718	170	2.05	22.47	113	0.0	fluctuating
	1400	6.90	Problem	adjusting	pump	Rate	-	-	-	-	between rate -
	1410	7.40	450	5.80	0.699	190	2.28	20.61	93	0.0	450 ml/min
	1415	8.10	450	5.68	0.713	450	2.15	18.96	112	0.0	due to pump +
	1425	9.35	* * *	5.65	0.714	1100	2.76	16.89	110	0.0	dropping water
	1430	9.35		5.68	0.683	400	3.17	18.14	100	0.0	level.
	1435	9.55		5.72	0.698	25	3.02	17.74	105	0.0	
	1440	9.73		5.82	0.690	14	3.01	18.64	99	0.0	* * * * allowed
	1445	10.83		5.78	0.709	240	3.48	15.46	101	0.0	water level to
	1450	11.65		5.51	0.617	210	2.31	16.36	97	0.0	recharge to 5.8 ft TOC
	1530	Sample									then sampled
* * * *											

SIGNATURE(S): [illegible]

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: SZWMW22S02
Sample Location: SWMW22S
Sampled By: DW
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color	pH	S.C.	Temp.	Turbidity	DO	ORP	Salinity
Date: 8-19-00	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	mV	%
Time: 1800								
Method: Grundfos	clear	5.64	0.775	14	14	1.59	82	0

PURGE DATA:

Date: 8-19-00
Method: Grundfos RediFlo
Monitor Reading (ppm):
Well Casing Diameter & Material
Type: 2" PVC
Total Well Depth (TD): 12.85
Static Water Level (WL): 6.61
One Casing Volume(gal): 1.0
Start Purge (hrs): 1152
End Purge (hrs): 1311
Total Purge Time (min): 79
Total Vol. Purged (gal): 6

See Attached Low Flow Purge Data Sheet for Purge Data

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	3x 40 ml Vial	✓
TCL SVOC / PAH	4°C	2x 1l	✓
TCL Pest / PCB	4°C	2x 1l	✓
TAL metals (Total)	HNO_3	500ml	✓
TSS, TDS	4°C	1l	✓
		SEE COC	

OBSERVATIONS / NOTES:

- pump intake 1' off bottom
- Due to low well yield the well was purged dry, allowed to recover, then sampled.

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s): Donald Whelan

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: 2WMW22S
DATE: 8-19-00

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. % ~~PPT.~~	Comments
1152	6.62									START
1155			5.88	0.790		5.03	18.34	47	0	
1205	7.51	210	5.86	0.814	80	3.05	18.77	48	0	
1210	7.61	210	5.82	0.807	80	0.48	19.21	49	0	
1215	7.61	300	5.82	0.815	50	0.36	19.59	48	0	
1220	7.66	180	5.80	0.825	32	0.34	20.09	48	0	
1230	7.69	130	5.79	0.838	15	0.31	20.05	57	0	
1235	7.79	320	5.77	0.839	12	0.30	20.07	62	0	
1240	7.83	0	5.76	0.843	9.6	0.30	19.71	66	0	
1245	8.27	500	5.74	0.845	22	0.29	18.87	73	0	pump stops turn up flow
1250	8.39	340	5.78	0.818	110	0.28	18.73	66	0	
1255	8.46	0	5.75	0.805	55	0.26	18.68	69	0	
		Turn up pump rate, pump water level down to ~10'								pump stops
1305	10.28	220				0.28				pump will not maintain flow rate
1306		pump stops								
1311		Turn up pump rate, pump well DRY								
1315	11.25									stop pump. Allow well to recharge
1422	6.85									
1744	6.72		5.74	0.781	40	2.78	17.24	53	0	
1750	7.32	100	5.65	0.768	16	1.64	18.25	73	0	
1755	7.25	80	5.64	0.775	14	1.59	18.69	82	0	

SIGNATURE(S): David Schaller

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: SQWMW22D
Sample Location: SQWMW22D
Sampled By: KS / JD
C.O.C. No.: 062600 1
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 6/27/00								
Time: 1940								
Method: Grundfoss	CLEAR	7.74	0.322	13.3	29	0.24	-170	0

PURGE DATA:

Date: 6/27/00
Method: Grundfoss
Monitor Reading (ppm): N/A
Well Casing Diameter & Material
Type: 6" Steel
Total Well Depth (TD): 184 ft TOC
Static Water Level (WL): 19.91
One Casing Volume(gal): 241
Start Purge (hrs): 1555
End Purge (hrs): 1935
Total Purge Time (min): 220 min
Total Vol. Purged (gal): 18 ±

6" = 1.47 GAL/FT.

See Attached Low Flow Purge Data Sheet for Purge Data

WL WOULD NOT STABILIZE, KEPT DROPPING. PURGED FOR 4HRS± THEN SAMPLED PER WORK PLAN

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	40 ml Vial	✓
VOC	4°C / HCL		
Semi - volatiles	4°C		✓
Total metals	4°C / HNO_3	3X VOL	✓
Diss. metals	4°C / HNO_3		✓
Pest / PCB	4°C	FOR MS MSD	✓
TSS, TDS, Cl-	4°C		✓
		SEE COC	

OBSERVATIONS / NOTES:

Pump set at 120 ft TOC
Stopped taking readings from 1640 - 1700 due to thunderstorm
Continued to pump well during 20 min interval.

Circle if Applicable:

MS/MSD	Duplicate ID No.:
YES	—

Signature(s): JD.

KS / JD

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856
WELL ID.: 2WMW22D
DATE: 6/27/00

Static WL = 19.91

Time (Hrs.)	Water Level (Ft. below TOC)	** Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. % PPT.	Comments
1555	20.2ft	500	7.21	0.324	34	1.79	14.91	-109	0.0	1555 Start Purge
1605	20.3	380	7.22	0.324	29	1.69	14.95	-114	0.0	* Stepped readings
1610	20.5	350	7.25	0.324	29	0.84	15.00	~~-127~~ -130	0.0	from 1640 to 1700
1615	20.7	290	7.33	0.326	29	0.60	14.52	-128	0.0	due to thunderstorm -
1620	21.0	340	7.51	0.324	29	0.56	14.61	-141	0.0	Continued to pump
1625	21.15	250	7.59	0.324	30	0.41	14.51	-146	0.0	during 20 min interval.
1630	21.35	290	7.75	0.324	30	0.50	14.59	-152	0.0	
1635	21.63	230	7.81	0.325	29	0.45	14.62	-155	0.0	** Flow rate adjusted
1640	21.80	250	7.78	0.323		0.43	14.99	-158	0.0	at WL Drops.
*										
1700	22.20	130	7.84	0.327	31	0.50	15.43	-159	0.0	
1705	22.30	390	7.86	0.326	30	0.46	13.80	-160	0.0	
1715	22.80	330	7.77	0.323	29	0.44	13.56	-162	0.0	
1725	23.30	300	7.83	0.322	29	0.32	13.49	-167	0.0	
1735	23.65	250	7.87	0.323	28	0.34	13.72	-168	0.0	
1745	24.15	220	7.87	0.322	28	0.32	14.20	-167	0.0	
1755	24.30	200	7.88	0.323	27	0.32	14.31	-169	0.0	
1805	24.75	350	7.86	0.322	28	0.31	13.61	-168	0.0	
1815	25.20	300	7.88	0.323	28	0.28	13.53	-171	0.0	
1825	25.60	260	7.89	0.322	28	0.28	13.98	-170	0.0	
1835	25.80	230	7.89	0.322	28	0.31	14.09	-169	0.0	
1845	26.13	200	7.89	0.322	28	0.30	14.33	-169	0.0	
1855	26.60	420	7.83	0.322	29	0.26	13.56	-169	0.0	
1905	27.15	360	7.86	0.322	28	0.25	13.60	-175	0.0	
1915	27.55	300	7.88	0.322	28	0.24	13.60	-175	0.0	
1925	27.95	260	7.88	0.322	28	0.26	13.73	-175	0.0	
1935	28.50	300	7.74	0.322	29	0.24	13.32	-170	0.0	
1940	Sample									

SIGNATURE(S): [illegible]

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: S2WMW22D02
Sample Location: 2WMW22D
Sampled By: Chuck Miller
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 8/19/00								
Time: 1735								
Method: Rediflow Pump	Clear	7.48	0.300	13.1	14.8	0.48	-188	0.0

PURGE DATA:

Date: 8/19/00
Method: Rediflow Pump
Monitor Reading (ppm): N/A
Well Casing Diameter & Material
Type: 6" Steel
Total Well Depth (TD): 198.40
Static Water Level (WL): 22.81
One Casing Volume(gal):
Start Purge (hrs): 1315
End Purge (hrs): 1730
Total Purge Time (min): 255
Total Vol. Purged (gal): 130

See Attached Low Flow Purge Data Sheet for Purge Data

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	40 ml Vial	3
TCL SVOC/PAH		Liter Amber	2
TCL PEST/PCB		Liter Amber	2
TAL Metals		500 ml Poly	1
Dissolved TAL Metals		500ml Poly	1
TSS, TSD, Chloride		Liter Poly	1
		SEE COC	

OBSERVATIONS / NOTES:

198.40
22.81
175.59
1.469
250 gallons

Pump intake located 193 feet BTOC

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: S 20MW 22002
DATE: 8/19/00

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. % ~~PPT.~~	Comments
1315	22.33	3 Liter								Pumped at 3 liters to draw down water
1320	24.93	3 Liter								level to see if it
1325	26.32	4 Liters								will recover
1330	30.00	4 Liters								
1335	32.39	4 Liters								
1340	34.85	4 Liters								
1345	38.62	4 Liters								
1350	41.85	4 Liters								
1355	45.15	4 Liters								
1400	48.40	4 Liters	stopped the pump to check on recovery rate 48.65							
1405	48.50									
1410	48.10									
1415	47.80									
1425	47.88	2.30	7.33	0.311	36.2	6.42	14.8	-128	0.0	
1430	47.88	320	7.15	0.311	35.3	1.82	14.8	-143	0.0	
1435	47.90	300	7.25	0.309	29.1	1.71	15.1	-164	0.0	
1440	47.92	250	7.32	0.310	28.8	0.69	15.6	-176	0.0	
1445	47.93	250	7.34	0.305	27.9	0.66	16.2	-180	0.0	
1450	47.93	250	7.34	0.308	28.5	0.40	15.9	-182	0.0	
1455	47.94	250	7.34	0.309	27.0	0.47	16.0	-183	0.0	
1500	47.97	230	7.35	0.308	27.2	0.32	14.3	-182	0.0	
1505	48.00	230	7.35	0.305	27.0	0.33	14.7	-184	0.0	
1510	48.04	240	7.36	0.303	25.6	0.27	14.3	-184	0.0	
1515	48.07	230	7.36	0.304		0.26	14.1	-184	0.0	
1520	48.12	4 Liters								Draw down still
1525	51.58	4 Liters								occurring pump
1530	55.60	4 Liters								well hard to
1535	58.87	4 Liters								draw down
1540	61.94	4 Liters								

SIGNATURE(S): [signature]

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856
WELL ID.: S2WMW22D02
DATE: 8/19/00

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. % ~~PPT.~~	Comments
1545	66.5	4 Liters								
1550	67.7	4 Liters								
1555	70.43	4 Liters								
1600	73.90	4 Liters								
1605	77.03	4 Liters								
1615	83.37	4 Liters								
1620	86.45	4 Liters								
1625	88.55	4 Liters								
1630	91.85	4 Liters								
1635	94.80	4 Liters								
1640	98.05	4 Liters								
1645	100.02	4 Liters								
1650	102.65	4 Liters								
1655	102.41	400	8.13	0.313	16.3	8.57	15.0	-174	0.0	
1700	102.20	310	7.70	0.302	15.5	0.99	13.7	-186	0.0	
1705	101.86	390	7.60	0.301	14.2	0.82	13.4	-188	0.0	
1710	101.65	400	7.55	0.300	14.0	0.66	13.2	-190	0.0	
1715	101.51	330	7.53	0.300	14.3	0.56	13.1	-189	0.0	
1720	101.31	390	7.50	0.300	14.5	0.50	13.2	-189	0.0	
1725	101.10	370	7.48	0.300	14.8	0.48	13.1	-188	0.0	
1730	purging was completed after removing a total of 130 gallons from the well the water was clear with no odors									
1735	sample S2WMW22D02 was collected by DWLM from the discharge line of the pump									
1800	sampling was complete and breakdown was begun									

SIGNATURE(S): [signature]

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON / AREA A
Project No.: CTO 203 5082

[ ] Domestic Well Data
[x] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: 4GW01S-04
Sample Location: 4MW01
Sampled By: K. SIMPSON
C.O.C. No.: 070500-04
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color	pH	S.C.	Temp.	Turbidity	DO	Eh	Salinity
Date: 7.6.00	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	mV	~~ppt~~ %
Time: 1105								
Method: Peristaltic Pump	CLEAR	5.53	0.350	14.0	0	6.17	214	0

PURGE DATA:

Date: 7.6.00
Method: Peristaltic Pump
Monitor Reading (ppm): 0.6
Well Casing Diameter & Material
Type: 2" PVC
Total Well Depth (TD): 20.30
Static Water Level (WL): 8.50
One Casing Volume(gal): 1.9
Start Purge (hrs): 1015
End Purge (hrs): 1105
Total Purge Time (min): 50
Total Vol. Purged (gal): 1.4

ROUND 4

See Attached Low Flow Purge Data Sheet for Purge Data

END SAMPLING @1110 WL = 8.63

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	40 ml Vial	—
TCL SEMIVOLATILES	4° C	Qt. Amber Glass	—
TCL PEST/PCBs	4° C	Qt. Amber Glass	—
TCL PAH	4° C	Qt. Amber Glass	—
TAL METALS (TOTAL) + Hardness	HNO_3 / 4° C	L PE	—
TAL METALS (DISSOLVED)	HNO_3 / 4° C	L PE	—
Total Organic Carbon (TOC)	HCL / 4° C	60 mL Glass	—
Chemical Oxygen Demand (COD)	H_2SO_4 / 4° C	250 mL PE	—
Alkalinity, Chloride, Sulfate, TDS, TSS	4° C	L PE	—

OBSERVATIONS / NOTES:

SAMPLED FOR BOTH CTO 203 & 312

PUMP INLET TUBING SET 1' OFF BTM

CLEAR, NO ODOR

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s): [illegible]

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON / AREA A - ROUND 4
PROJECT NUMBER: CTO 203 job# 5082

WELL ID.: 4MW01
DATE: 7-6-00

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	Eh mV	Sal. %	Comments
1012	8.50	—	—	—	—	—	—	—	—	START PURGE
1019	8.55	150	5.58	0.386	1.1	6.91	13.9	197	0	CLEAR, NO ODOR
1025		100	5.57	0.360	0.5	6.74	14.2	200		
1030		↓	5.56	0.361	0	7.24	13.9	208		
1040		110	5.55	0.359	0	6.26	14.0	209		
1045			5.54	0.354		6.90	13.8	213		
1050	↓		5.54	0.352		6.38	13.9	217		
1055	8.56		5.53	0.354		6.14	13.8	215		
1100	8.57		5.53	0.351		6.18	13.9	216		
1105	8.57	↓	5.53	0.350	↓	6.17	14.0	214	↓	END PURGE
										CELL IN SUN, TEMP. ELEVATED

SIGNATURE(S): [illegible]

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: S4MW01S02
Sample Location: 4MW1S
Sampled By: RW.
C.O.C. No.: 081600-1
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 8-18-00								
Time: 1050								
Method: Peristaltic pump	clear	5.58	0.330	14.9	0.0	5.75	231	0

PURGE DATA:

Date: 8-18-00
Method: Peristaltic pump
Monitor Reading (ppm):
Well Casing Diameter & Material Type: 2" PVC
Total Well Depth (TD): 20.3
Static Water Level (WL): 8.90
One Casing Volume(gal): 1.9
Start Purge (hrs): 0950
End Purge (hrs): 1045
Total Purge Time (min): 55
Total Vol. Purged (gal): 2

See Attached Low Flow Purge Data Sheet for Purge Data

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	3 x 40 ml Vial	✓
TCL SVOC / PAH	4°C	2 x 1l	✓
TCL Pest / PCB	4°C	2 x 1l	✓
TAL Total metals	HNO_3	500ml	✓
TAL Dissolved metals	HNO_3	500ml	✓
TSS, TDS	4°C	1l	✓
		SEE COC	

OBSERVATIONS / NOTES:

- pump intake 3' off bottom

Circle if Applicable:

MS/MSD —
Duplicate ID No.: —

Signature(s): David Whalen

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: 4MW1S
DATE: 8-18-00

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. % ~~PPT.~~	Comments
0950	8.90	150								START PURGE
0955	8.94	150	5.51	0.369	0.43	9.13	14.4	252	0	clear
1000	8.94	130	5.57	0.345	0.21	6.23	14.3	247	0	
1005	8.95	130	5.57	0.344	0.0	6.09	14.2	244	0	
1010	8.96	130	5.57	0.338	0.0	6.02	14.3	239	0	
1015	8.96	130	5.57	0.335	0.01	5.84	14.3	236	0	
1020	8.97	140	5.57	0.332	0.09	5.80	14.4	235	0	
1025	8.97	130	5.57	0.330	0.20	5.79	14.5	235	0	
1030	8.97	130	5.57	0.330	0.02	5.75	14.6	235	0	
1035	8.97	130	5.57	0.330	0.04	5.71	14.9	233	0	
1040	8.97	130	5.58	0.330	0.12	5.76	14.9	232	0	
1045	8.97	130	5.58	0.330	0.0	5.75	14.9	231	0	End Purge

SIGNATURE(S): Donald Wheler

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

DRY

Sample ID No.:
Sample Location: 2LMW35S
Sampled By:
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

Date: 7·6·00	Color	pH	S.C.	Temp.	Turbidity	DO	ORP	Salinity
Time:	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	mV	
Method:								

PURGE DATA:

Date:	See Attached Low Flow Purge Data Sheet for Purge Data
Method:	
Monitor Reading (ppm):	
Well Casing Diameter & Material Type:	
Total Well Depth (TD):	
Static Water Level (WL):	
One Casing Volume(gal):	
Start Purge (hrs):	
End Purge (hrs):	
Total Purge Time (min):	
Total Vol. Purged (gal):	

DRY.

NO SAMPLE

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	40 ml Vial	

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): David Cerone

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: S2LMW35B01
Sample Location: 2LMW35B
Sampled By: D. Cercone
C.O.C. No.: 062300-5
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity
Date: 6-25-00								
Time: 1030.								
Method: Grunfos 2"	Clear	6.52	0.83	17.8	4	3.29	111	0

PURGE DATA:

Date: 6-25-00
Method: Grunfos 2"
Monitor Reading (ppm): 0
Well Casing Diameter & Material Type: 6" Steel.
Total Well Depth (TD): 111
Static Water Level (WL): 17.44
One Casing Volume(gal):
Start Purge (hrs): 0830
End Purge (hrs): 1030
Total Purge Time (min): 120
Total Vol. Purged (gal): ≈ 36 L

See Attached Low Flow Purge Data Sheet for Purge Data

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	40 ml Vial	✓
SVOCs	4°C	1 L G	✓
PCB, Pest	4°C	1 L G	✓
Metals, Total	4°C, HNO3	1 L P	✓
Metals, Dissolved	4°C, HNO3	1 L P	✓
TSS TDS Cl⁻	-	3x 250 ml.	✓

OBSERVATIONS / NOTES:

The temperature increased as the cloud cover broke. The tubing + Flow thru cell were exposed.

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	FD 0625 001

Signature(s): D.P. Cercone

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: 2LMW35B
DATE: 6-25-00

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. PPT.	Comments
0830	17.99									PUMP ON
0837	18.64	400	6.72	0.94	210	2.34	15.5	57	0	v. cloudy
0847	19.05	400	6.77	0.90	80	2.28	16.27	67	0	
0857	19.46	300	6.64	0.87	45	2.78	16.4	91	0	
0907	20.07	300	6.62	0.86		2.92	16.9	93	0	
0915	NM	300	6.57	0.85	26	3.04	16.8	99	0	
0925	20.97	300	6.56	0.85	22	3.08	16.3	103	0	5g
0935	20.94	300	6.55	0.84	19	3.10	16.8	104	0	
0945	21.35	300	6.52	0.84		3.21	16.5	107	0	
0958	21.98	300	6.52	0.83	17	3.28	16.7	109	0	
1005	22.15	300	6.50	0.83	9	3.24	16.8	110	0	
1010	22.28	300	6.51	0.83	5	3.20	16.95	111	0	
1015	22.65	300	6.51	0.83	5	3.30	16.94	110	0	
1020	22.92	300	6.52	0.83	5	3.28	17.5	111	0	Temp increase may
1025	NM	300	6.52	0.83	4	3.31	17.7	111	0	be due to sun
1030	23.00	300	6.52	0.83	4	3.29	17.8	[illegible]	0	coming out.
1125	24.70	END	OF	SAMPLING						

SIGNATURE(S): DP Cecere

PAGE___OF___

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: S22LMW35B02
Sample Location: 2LMW35B
Sampled By: Chuck Meyer
C.O.C. No.: 081600-1
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 8/17/00								
Time: 1905								
Method: Redi-flow Pump	Clear	6.12	0.671	17.5	3.2	6.07	115	0.0

PURGE DATA:

Date: 8/17/00
Method: Redi-flow Pump
Monitor Reading (ppm): 0.0
Well Casing Diameter & Material
Type: 6" Steel
Total Well Depth (TD): 103.40
Static Water Level (WL): 18.07
One Casing Volume(gal): 125.35
Start Purge (hrs): 1600
End Purge (hrs): 1904
Total Purge Time (min): 184
Total Vol. Purged (gal): 19.0

ROUND 02

See Attached Low Flow Purge Data Sheet for Purge Data

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	40 ml Vial	3
TCL SVOC/PAH	4°C	Liter Amber	2
TCL Pest/PCB	4°C	Liter Amber	2
TAL Metals	HNO_3	500 ml Poly	1
TAL Dissolved Metals	HNO_3	500 ml Poly	1
TSS, TDS	4°C	Liter Poly	1
		SEE COC	

OBSERVATIONS / NOTES:

103.40
18.07
85.33
1.469 gal per foot
125.35 1 case volume

Pump intake located 98 feet BTOC

Circle if Applicable:

MS/MSD —
Duplicate ID No.: —

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: 2LMW3513
DATE: 8/17/00

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. % ~~PPT.~~	Comments
1600	17.87	250	6.18	0.668	4.4	9.52	17.4	120	0.0	
1605	18.24	250	6.14	0.696	7.9	6.65	17.1	105	0.0	
1610	18.34	240	6.18	0.714	7.7	5.90	17.1	90	0.0	
1615	18.47	250	6.20	0.722	7.6	5.68	17.1	85	0.0	
1620	18.60	250	6.21	0.723	7.1	5.64	17.8	83	0.0	
1625	18.69	220	6.22	0.728	6.6	5.72	16.9	83	0.0	
1630	18.75	220	6.21	0.718	6.4	5.60	17.9	85	0.0	
1635	18.83	200	6.22	0.717	5.8	5.66	18.5	87	0.0	
1640	18.91	220	6.23	0.727	5.6	5.90	18.0	87	0.0	
1645	19.01	200	6.23	0.718	5.6	5.76	18.3	88	0.0	
1650	19.11	250	6.23	0.723	5.4	6.04	17.5	89	0.0	
1655	19.18	200	6.22	0.705	5.3	5.67	18.7	91	0.0	
1700	19.24	200	6.23	0.713	5.4	5.84	18.4	92	0.0	
1705	19.30	200	6.23	0.713	4.8	5.88	18.4	93	0.0	
1710	19.35	170	6.23	0.710	4.7	5.77	18.5	93	0.0	
1715	19.39	170	6.23	0.706	5.0	5.81	18.9	95	0.0	
1720	19.41	150	6.23	0.706	4.8	5.87	19.5	95	0.0	
1725	19.43	150	6.24	0.706	4.5	5.80	19.9	96	0.0	
1730	19.45	150	6.24	0.704	4.6	5.84	20.2	97	0.0	
1735	19.46	100	6.25	0.707	4.3	5.75	20.3	97	0.0	
1740	19.47	100	6.25	0.708	4.0	5.81	20.4	98	0.0	
1742	Turned pump up to 4 liters per minute to draw water down and see if it will recover									
1747	22.38		Pump rate 4 liters per minute							
1752	23.35		Pump rate 4 liters per minute							
1757	27.93		Pump rate 4 liter per minute							
1800	27.62	250	6.32	0.686	4.9	8.75	16.3	113	0.0	

SIGNATURE(S): [signature]

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: 2LMW3513
DATE: 8/17/00

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. % ~~PPT.~~	Comments
1805	27.72	200	6.16	0.683	4.8	6.57	16.7	111	0.0	
1810	27.81	240	6.16	0.686	4.0	6.24	16.6	107	0.0	
1815	27.87	160	6.16	0.681	4.2	6.10	16.9	104	0.0	
1820	27.98	160	6.18	0.684	4.2	6.13	16.9	105	0.0	
1825	27.98	150	6.15	0.679	4.1	6.06	17.3	106	0.0	
1830	27.98	150	6.16	0.682	4.3	6.05	17.7	107	0.0	
1835	27.98	150	6.15	0.686	3.8	6.50	16.4	108	0.0	
1840	27.99	200	6.12	0.675	3.5	6.24	16.6	109	0.0	
1845	28.05	150	6.11	0.678	3.9	6.08	16.9	111	0.0	
1850	28.05	150	6.12	0.669	3.5	6.12	17.4	112	0.0	
1855	28.06	150	6.11	0.667	3.7	6.08	18.2	115	0.0	
1900	28.05	130	6.12	0.671	3.2	6.07	17.5	115	0.0	
1904	Pursing was completed after removing 19 gallons from the well									
	the water was clear with no odors									
1905	Sample 522LMW3513D2 was collected by CM from the discharge hose									
	The water was clear with no odors Sample Flow rate 170 ml/min									
1940	Sampling complete with a final water level of 28.45 feet									

SIGNATURE(S): [signature]

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: S23mw01S 01
Sample Location: 23 mw01S
Sampled By: Cercone/Danieli
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color	pH	S.C.	Temp.	Turbidity	DO	ORP	Salinity
Date: 6-26-2000								
Time: 1155	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	mV	
Method: Grunfos	Clear	6.60	0.26	23.52	5.6	3.48	134	0.0

PURGE DATA:

Date: 6-26-2000	See Attached Low Flow Purge Data Sheet for Purge Data
Method: Grunfos	
Monitor Reading (ppm): 0	
Well Casing Diameter & Material Type: 2" PVC	
Total Well Depth (TD): 15.61	
Static Water Level (WL): 6.52	
One Casing Volume(gal):	
Start Purge (hrs): 1030	
End Purge (hrs): 1155	
Total Purge Time (min): 85	
Total Vol. Purged (gal): ≈6	

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	40 ml Vial	✓
SVOCs	4°C	1 L G	✓
Metals, Total	4°C HNO3	1 L P	✓
Metals, Diss	4°C HNO3	1 L P	✓
Pest, PCB	4°C	1 L G	✓
TSS, TDS, Cl⁻	4°C		✓

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s): DPCercone

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: 23MW01S
DATE: 6-26-00

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. PPT.	Comments
			±0.1	3%	10%	10%	3%	±10 mv	~~3%~~	
0945	6.52	TD=	15.6							Initial water Level
1030	6.60	*	6.05	0.273	15	8.05	17.10	179	0.0	Start Pumping.
1040	7.28	510	5.61	0.255	120	4.53	18.72	154	0.0	* pump turned off
1045	7.21	160	5.83	0.255	70	4.12	18.65	140	0.0	time to adjust
1050	7.10	**520	5.67	0.255	31	4.12	19.06	146	0.0	pump rate.
1055	7.10	410	6.05	0.255	21	3.83	22.16	114	0.0	* * difficulty adjusting
1105	7.28	320	6.04	0.257	22	3.90	21.80	123	0.0	Flow rate.
1110	7.20	220	5.87	0.259	11	3.71	21.92	135	0.0	
1120	6.80	180	6.07	0.261	6.5	3.66	22.93	117	0.0	
1130	6.80	410	6.06	0.261	6.4	3.71	23.10	116	0.0	
1135	7.10	360	6.02	0.259	5.6	3.75	23.85	132	0.0	
1145	7.10	260	5.99	0.258	5.4	3.67	22.97	131	0.0	
1150	7.10	260	6.00	0.258	5.6	3.48	23.32	134	0.0	3 consistent reads.
1155	SAMPLE									

SIGNATURE(S): Jessica Daniel

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: S23MW01S02
Sample Location: 23MW01S
Sampled By: Chuck Meyer
C.O.C. No.: 081600-1
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 8/17/00 Time: 1140 Method: Rediflow Pump	clear	5.88	0.227	22.4	2.4	2.56	132	0.0

PURGE DATA:

Date: 8/17/00
Method: Rediflow Pump
Monitor Reading (ppm): 0.0
Well Casing Diameter & Material
Type: 2" PVC
Total Well Depth (TD): 15.65
Static Water Level (WL): 6.50
One Casing Volume(gal): 1.5
Start Purge (hrs): 0950
End Purge (hrs): 1138
Total Purge Time (min): 108
Total Vol. Purged (gal): 5.0

See Attached Low Flow Purge Data Sheet for Purge Data

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	40 ml Vial	3
TCL SVOC/PAH	4°C	Liter Amber	2
TCL Pest/PCB	4°C	Liter Amber	2
TAL Metals	HNO_3	500 ml Poly	1
TAL Dissolved metals	HNO_3	500 ml Poly	1
TSS TDS chloride	4°C	Liter Poly	1
		SEE COC	

OBSERVATIONS / NOTES:

15.65
6.50
9.15
0.163
2745
5490
915
149145

The pump intake was located 11 feet BTOC

Circle if Applicable:

MS/MSD —

Duplicate ID No.: —

Signature(s):

Chuck Meyer

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: S23 MW01S
DATE: 8/17/00

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. % ~~PPT.~~	Comments
0950	6.51	380	5.90	0.249	50	6.60	16.30	203	0.0	
0955	7.21	270	5.78	0.241	20	4.09	17.40	175	0.0	
1000	6.94	270	5.79	0.237	14	3.48	18.30	161	0.0	
1005	6.91	230	5.83	0.237	11	3.19	19.0	150	0.0	
1010	6.86	230	5.85	0.236	9.7	3.01	19.7	144	0.0	
1015	6.86	250	5.84	0.237	4.6	2.87	19.9	140	0.0	
1020	7.20	250	5.85	0.228	6.3	2.66	19.2	143	0.0	
1025	7.06	250	5.85	0.229	4.9	2.70	18.9	143	0.0	
1030	6.77	190	5.85	0.229	4.8	2.56	19.1	141	0.0	
1035	6.79	190	5.85	0.227	4.4	2.58	20.4	135	0.0	
1040	6.80	190	5.85	0.229	3.8	2.52	20.7	133	0.0	
1045	6.80	190	5.85	0.229	4.0	2.53	21.0	133	0.0	
1050	6.80	190	5.85	0.226	3.8	2.53	21.1	133	0.0	
1055	6.80	190	5.85	0.227	3.0	2.51	21.3	133	0.0	
1100	6.81	200	5.85	0.226	2.4	2.53	21.0	135	0.0	
1105	6.82	180	5.85	0.227	2.3	2.52	20.9	135	0.0	
1110	6.80	190	5.85	0.226	2.9	2.53	21.3	136	0.0	
1115	6.70	190	5.85	0.226	2.5	2.54	21.0	136	0.0	
1120	6.80	190	5.87	0.226	2.9	2.54	20.9	135	0.0	
1125	6.75	150	5.87	0.226	2.7	2.56	21.4	132	0.0	
1130	6.70	150	5.86	0.226	2.4	2.54	22.3	132	0.0	
1135	6.68	150	5.88	0.227	2.4	2.56	22.4	132	0.0	
1138	Purging of S23MW01S was completed after removing 5 gallons from the well. The water was clear with no odors									
1140	Sample S23MW01S02 was collected by cm from the discharge line of the pump									
1200	Sampling was completed and breakdown was begun									

SIGNATURE(S): [illegible]

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: S23MW01D01
Sample Location: 23MW01D
Sampled By: J. Daniels
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color	pH	S.C.	Temp.	Turbidity	DO	ORP	Salinity
Date: 6/26/00								
Time: 1600	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	mV	
Method: Grundfoss	Clear	6.27	0.253	18.22	2.3	5.09	117	0.0

PURGE DATA:

Date: 6/26/00
Method: Grundfoss
Monitor Reading (ppm):
Well Casing Diameter & Material
Type: 2" PVC
Total Well Depth (TD): 56.9
Static Water Level (WL): 4.08
One Casing Volume(gal):
Start Purge (hrs): 1450
End Purge (hrs): 1550
Total Purge Time (min): 60 min
Total Vol. Purged (gal): ~5

See Attached Low Flow Purge Data Sheet for Purge Data

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	40 ml Vial	✓
SVOC	4°C	1 L G	✓
metals, Total	4°C/HNO3	1 L P	✓
metals, Dissolved	"	1 L P	✓
PEST/PCB	4°C	1 L G	✓
TSS, TDS, Cl-	4°C		✓

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s): Jessica Daniels

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: 23MW01D
DATE: 6/26/00

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. PPT.	Comments
			± 0.1	3%	10%	10%	3%	± 10mv		
1430	4.08	TD = 56.9 ft		RGS						- initial - Static WL
1450	5.15	540	6.40	0.316	4.9	3.39	16.22	118	0.0	- Start pumping
1455	4.92	110	6.03	0.288	2.2	3.42	17.07	132	0.0	
1500	4.35	100	6.05	0.291	4.2	4.21	17.98	130	0.0	
1505	4.30	60	6.01	0.284	5.6	4.37	19.29	119	0.0	
1510	4.37	60	6.05	0.274	5.8	4.51	18.99	104	0.0	
1515	4.35	120	6.10	0.272	6.9	4.64	18.68	102	0.0	
1520	4.39	120	6.13	0.269	5.8	4.58	18.14	102	0.0	
1525	4.42	145	6.10	0.262	4.4	4.45	18.55	110	0.0	
1530	4.42	130	6.19	0.257	2.8	4.76	18.67	109	0.0	
1535	4.50	140	6.34	0.258	2.5	5.01	18.58	111	0.0	
1540	4.45	150	6.24	0.255	2.2	5.06	18.56	118	0.0	
1545	4.42	150	6.26	0.254	2.2	5.09	18.49	118	0.0	
1550	4.42	150	6.27	0.253	2.3	5.09	18.22	117	0.0	
1600	Sample									

SIGNATURE(S): _____

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: S23MW01D02
Sample Location: 23MW01D
Sampled By: D.W.
C.O.C. No.: 081600-1
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 8-17-00								
Time: 1115								
Method: Grundfos	clear	5.98	0.219	16.59	0.83	4.06	145	0

PURGE DATA:

Date: 8-17-00
Method: Grundfos
Monitor Reading (ppm): —
Well Casing Diameter & Material Type: 2" PVC
Total Well Depth (TD): 56.3
Static Water Level (WL): 4.47
One Casing Volume(gal): 8.5
Start Purge (hrs): 0948
End Purge (hrs): 1110
Total Purge Time (min): 82
Total Vol. Purged (gal): 5

See Attached Low Flow Purge Data Sheet for Purge Data

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	3 x 40 ml Vial	✓
TCL SVOC / PAH	4°C	2 x 1l	✓
TCL PCB/Pest	4°C	2 x 1l	✓
TAL total metals	HNO_3	500 ml	✓
TAL Diss. metals	HNO_3	500 ml	✓
TSS TDS chlorides	4°C	1l	✓
		SEE COC	

OBSERVATIONS / NOTES:

- pump set at 5' off bottom

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	FD0817001

Signature(s): Donald Whalen

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: 23MW01D
DATE: 8-17-00

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. % ~~PPT.~~	Comments
0948	4.47	220								START PURGE
0950	4.88	220	6.19	0.280	5.8	2.97	15.41	159	0	clear
0955	4.90	240	6.29	0.272	4.14	2.07	15.32	141	0	
1000	4.91	260	6.24	0.263	2.24	1.88	15.50	137	0	
1005	4.90	250	6.20	0.257	1.48	1.97	15.70	138	0	
1010	4.90	240	6.13	0.246	1.35	2.99	15.66	143	0	
1015	4.88	240	6.08	0.238	1.27	3.27	15.61	145	0	
1020	4.88	240	6.02	0.231	1.01	3.47	15.57	148	0	
1025	4.88	250	5.97	0.227	0.98	3.62	15.60	151	0	
1030	4.81	210	5.97	0.225	0.91	3.76	15.58	151	0	
1035	4.81	210	5.97	0.224	0.85	3.66	15.68	151	0	
1040	4.81	210	5.96	0.223	0.79	3.83	15.70	151	0	
1045	4.81	210	5.96	0.221	0.75	4.06	15.72	150	0	
1050	4.80	210	5.96	0.220	0.98	3.92	15.75	150	0	
1055	4.80	210	5.97	0.218	0.87	4.13	15.92	149	0	
1100	4.80	210	5.97	0.217	0.98	4.15	16.03	148	0	
1105	4.80	210	5.97	0.220	0.91	4.09	16.60	147	0	
1110	4.80	210	5.98	0.219	0.83	4.06	16.59	145	0	

SIGNATURE(S): Donald Whaley

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: S23 HNUS23 01
Sample Location: HNUS-23
Sampled By: JD
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity
Date: 6/26/00								
Time: 1920								
Method: Grundfoss		6.30	0.435	22.43	34	0.50	88	0.0

PURGE DATA:

Date: 6/26/00
Method: Grundfoss
Monitor Reading (ppm): -
Well Casing Diameter & Material
Type: 2" PVC
Total Well Depth (TD): 16.7ft
Static Water Level (WL): 7.76
One Casing Volume(gal): —
Start Purge (hrs): 1740
End Purge (hrs): 1915
Total Purge Time (min): 100 min
Total Vol. Purged (gal): ~8

See Attached Low Flow Purge Data Sheet for Purge Data

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	40 ml Vial	✓
VOC 4°C/rlcl →			✓
Semi-VOC	4°C /		✓
Total metals	4°C / HNO_3		✓
Diss. metals	4°C / HNO_3		✓
Pest / PCBS	4°C		✓
TSS, TDS, Cl^-	4°C		✓

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD —

Duplicate ID No.: —

Signature(s): Jessica Danielli

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: HNUS-23
DATE: 6/26/00

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. °/c ~~PPT.~~	Comments
			±0.1	3%	10%	10%	3%	±10mv		
*1720	7.78	TD = 16.7 ft		~~365~~ TPVC	—	—	—	—	—	* initial reading - static WL
1740	8.48	450mL	—	—	—	—	—	—	—	Start pump
1745	8.90	-Problem adjusting Flow rate						—	—	* Consistent problem
1748	9.05	260	6.12	0.423	36	1.16	20.41	100	0.0	w/ pump-
1750	8.98	260	6.24	0.420	33	0.82	20.89	83	0.0	water would stop
1800	8.87	190	6.37	0.423	32	0.65	21.78	75	0.0	pumping - had to
1805	8.81	190	6.36	0.425	32	0.52	22.33	73	0.0	keep adjusting pump-
1810	8.85	160	6.35	0.427	60	0.50	23.43	69	0.0	resulting in inconsistent
1815	9.18	180	6.35	0.425	28	0.42	21.46	88	0.0	WL and Turbidity
1820	8.89	240	6.33	0.422	19	0.42	23.03	89	0.0	Readings
1825	9.38	230	6.31	0.431	26	0.47	20.57	97	0.0	
1830	9.30	240	6.27	0.431	36	0.45	21.57	91	0.0	
1835	9.30	110	6.26	0.436	35	0.42	21.52	82	0.0	
1840	9.10	110	6.28	0.435	27	0.45	22.32	83	0.0	
1845	9.10	110	6.32	0.435	27	0.40	23.03	82	0.0	
1850	9.10	110	6.33	0.430	34	0.36	23.20	78	0.0	
1855	9.10	110	6.32	0.435	20	0.42	23.39	84	0.0	
1900	9.15	190	6.31	0.434	27	0.43	23.72	89	0.0	
1905	9.15	110	6.32	0.436	27	0.44	22.65	92	0.0	
1910	9.15	110	6.31	0.435	22	0.44	22.58	91	0.0	
1915	9.15	110	6.30	0.435	34	0.56	22.43	88	0.0	
1920	Sample									

SIGNATURE(S): [illegible]

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: S23 HNUS 3302
Sample Location: HNUS 23
Sampled By: Chuck Meyer
C.O.C. No.: 081600-1
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 8/18/00								
Time: 1217								
Method: Peristaltic Straw	Clear	6.05	0.379	15.71	4.8	0.77	92	0.0

PURGE DATA:

Date: 8/18/00
Method: Peristaltic Pump
Monitor Reading (ppm): 0.0
Well Casing Diameter & Material
Type: 2" PVC
Total Well Depth (TD): 16.70
Static Water Level (WL): 8.76
One Casing Volume(gal): 1.33
Start Purge (hrs): 1045
End Purge (hrs): 1216
Total Purge Time (min): 91
Total Vol. Purged (gal): 2.0

See Attached Low Flow Purge Data Sheet for Purge Data

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	40 ml Vial	3
TCL SVOC / PAH	4°C	Liter Amber	2
TCL Pest / PCB	4°C	Liter Amber	2
TAL Metals	HNO_3	500 ml Poly	1
Dissolved TAL metals	HNO_3	500 ml Poly	1
TSS TDS Chloride	4°C	Liter poly	1
		SEE COC	

OBSERVATIONS / NOTES:

Total volume purged was 5 gallons between both purges. Due to uncontrolable pump speed the peristaltic pump was used to purge and sample. See additional log sheets Intake hose was located 13 feet BTOC

Circle if Applicable:

MS/MSD —

Duplicate ID No.: —

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: S23HN2302
DATE: 8/18/00

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. % ~~PPT.~~	Comments
1045	8.76	200	6.24	0.392	27	2.75	15.41	83	0.0	
1050	9.28	150	6.05	0.389	20	1.62	15.54	81	0.0	
1055	9.34	120	6.04	0.388	19	1.36	15.61	82	0.0	
1100	9.36	140	6.03	0.385	28	1.12	15.73	85	0.0	
1105	9.33	75	5.96	0.386	26	1.09	15.95	90	0.0	
1110	9.35	100	5.95	0.385	23	1.10	15.75	92	0.0	
1115	9.35	100	5.94	0.381	15	0.92	16.17	93	0.0	
1120	9.35	100	5.93	0.385	12	0.97	15.89	94	0.0	
1125	9.35	100	5.95	0.384	13	0.92	15.81	94	0.0	
1130	9.35	100	5.96	0.381	17	0.87	15.78	94	0.0	
1135	9.35	100	6.00	0.381	9.1	0.82	15.66	92	0.0	
1140	9.35	100	6.02	0.381	8.2	0.79	15.59	92	0.0	
1145	9.37	100	6.04	0.377	6.4	0.76	15.52	91	0.0	
1150	9.37	100	6.04	0.377	7.8	0.79	15.66	92	0.0	
1155	9.37	100	6.04	0.377	5.6	0.78	15.69	92	0.0	
1200	9.37	100	6.04	0.378	5.1	0.79	15.67	92	0.0	
1205	9.37	100	6.04	0.379	4.8	0.78	15.63	92	0.0	
1210	9.37	100	6.05	0.378	4.7	0.78	15.69	93	0.0	
1215	9.37	100	6.05	0.379	4.8	0.77	15.71	92	0.0	
1216	Purging was completed after removing 2 gallons from the well. The water was clear with no odors									
1217	Sample S23HN2302 was collected by CM from the discharge of the peristaltic and by the straw method for volatiles									
1310	Sampling was complete and CM heads to the trailer to drop off samples									

SIGNATURE(S): [signature]

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: S 23 HNUS 2302
Sample Location: HNUS 23
Sampled By:
C.O.C. No.: C81600-1
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: / Time: / Method:		6.00	0.348	17.05	14	0.28	75	0.0

PURGE DATA:

Date: 8/18/00
Method: Rotation Pump
Monitor Reading (ppm): 0.0
Well Casing Diameter & Material
Type: 2" PVC
Total Well Depth (TD): 16.70
Static Water Level (WL): 8.55
One Casing Volume(gal): 1.33
Start Purge (hrs): 0915
End Purge (hrs): 1005
Total Purge Time (min): 50
Total Vol. Purged (gal): 3.0

See Attached Low Flow Purge Data Sheet for Purge Data

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	40 ml Vial	3
TCL SVOC/PAH	4°C	Liter Amber	2
TCL Pest/PCB	4°C	Liter Amber	2
TAL Metals	HNO_3	500ml Poly	1
TAL Dissolved Metals	HNO_3	500ml Poly	1
TSS, TDS, chlorides	4°C	Liter Poly	1
		SEE COC	

OBSERVATIONS / NOTES:

Pump set at 12.50 feet BTOC

16.70
8.55
8.15
0.163
2445
4890
815
1.3285

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s): DP Cerone for C Meyer.

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: S23HNUS2302
DATE: 8/18/00

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. % ~~PPT.~~	Comments
0915	8.53	150	6.04	0.376	50	1.64	18.48	103	0.0	
0920	8.84	100	6.05	0.365	50	0.92	19.23	84	0.0	
0925	8.87	250	6.07	0.361	45	0.78	19.56	78	0.0	Flow stopped readjusted Flow Rate
0930	9.34	100	6.08	0.351	31	0.49	19.59	83	0.0	
0935	9.33	150	6.07	0.353	32	0.45	19.83	77	0.0	
0940	9.25	500	6.08	0.349	35	0.39	20.80	69	0.0	
0945	9.53	200	6.08	0.348	29	0.41	20.75	71	0.0	
0950	9.53	500	6.09	0.346	24	0.38	20.71	70	0.0	Flow stopped readjusted Flow Rate
0955	10.54	150	6.05	0.337	120	0.30	17.96	64	0.0	
1000	1	500	6.00	0.344	95	0.30	18.17	63	0.0	Flow stopped readjusted Flow Rate
1005	11.05		6.00	0.348	14	0.28	17.05	75	0.0	

SIGNATURE(S): D. Arcoso for C. Meyer.

PAGE 1 OF 1

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: S8MW8S01
Sample Location:
Sampled By:
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity
Date: 7								
Time:								
Method:								

PURGE DATA:

Date: 7-5-00
Method: Grunfos (No!)
Monitor Reading (ppm):
Well Casing Diameter & Material
Type: 2" PVC
Total Well Depth (TD): 17 → 15.8 btoc
Static Water Level (WL): 15.15
One Casing Volume(gal):
Start Purge (hrs):
End Purge (hrs):
Total Purge Time (min):
Total Vol. Purged (gal):

See Attached Low Flow Purge Data Sheet for Purge Data

NEARLY DRY

NO SAMPLE

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	40 ml Vial	

OBSERVATIONS / NOTES:

Not enough water in the well to sample.

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s): David Cercone

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.:
Sample Location: 8MW85
Sampled By: CHUCK MEYER
C.O.C. No.: NA
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: NA								
Time:								
Method:								

PURGE DATA:

Date: 8/22/00
Method: —
Monitor Reading (ppm): N/A
Well Casing Diameter & Material
Type: 2" PVC
Total Well Depth (TD): 15.70
Static Water Level (WL): 15.23
One Casing Volume(gal):
Start Purge (hrs):
End Purge (hrs):
Total Purge Time (min):
Total Vol. Purged (gal):

See Attached Low Flow Purge Data Sheet for Purge Data

water in vault, well DRY

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	40 ml Vial	
		SEE COC	

OBSERVATIONS / NOTES:

< 0.5' WATER IN WELL

NO SAMPLE

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: SB MW BD01
Sample Location:
Sampled By:
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 7-6-00								
Time: 1600								
Method: Grunfos		6.6	1.07	18.47	8 *	4.2	50	0

PURGE DATA:

Date: 7-6-00
Method: Grunfos
Monitor Reading (ppm): 0
Well Casing Diameter & Material Type: 2" PVC
Total Well Depth (TD): 78
Static Water Level (WL): 15.92
One Casing Volume(gal):
Start Purge (hrs): 1325
End Purge (hrs): 1600
Total Purge Time (min):
Total Vol. Purged (gal):

See Attached Low Flow Purge Data Sheet for Purge Data

Screen: 63 - 78

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	40 ml Vial	
SVOCS	1 L G		
PCB ~~Pest~~	1 L G		
Pest	1 L G		
Met			
Met			
TSS TDS Cl⁻			

OBSERVATIONS / NOTES:

Turbidity was 4 NTUs when metals were sampled

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s): David P. Cecere

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: 8 MW 8D
DATE: 7-6-00

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. PPT.	Comments
1325	15.92	<100	6.17	1.	>200	9.21	17.92	48	0.1	Start
1334	–				>200					Turbd 1L
1337	19.55	333	6.77	3.87	>200	0.86	16.58	-51	0.2	2L
1342	20.22	200	6.83	3.67	0 270	0.62	17.89	-51	0.2	3L
1348	22.90	250	6.89	3.54	NM	0.52	16.42	-50	0.2	4L
1351	–	400	6.90	3.45	152	0.51	16.66	-43	0.2	5L
1357	25.50		6.92	3.35	141	0.49	17.15	-42	0.2	7L
1401	25.85	250	6.94	2.92	106	0.52	17.22	-39	0.1	8L
1406	26.20	200	6.92	2.28	78	0.70	17.46	-29	0.1	9L
1423	27.40	200	6.70	1.47	56	1.83	17.21	0	0.1	12L
1428	NM	250	6.61	1.12	48	2.04	18.06	26	0.1	13L
1434	28.42	200	6.54	1.01	44	2.47	18.20	33	0.1	14L
1438	28.55	250	6.54	1.01	31	2.62	18.52	33	0.0	15L
1443	29.65	250	6.57	1.08	32	3.44	17.28	32	0.0	16L
1451	29.73	130	6.66	0.93	NM	3.33	18.52	35	0	17L
1456	29.75	200	6.64	0.93	22	4.43	18.75	35	0	18L
1502	29.96	200	6.64	0.98	20	4.60	18.54	36	0	19L
1512	NM	200	6.62	1.03	NM	4.31	19.02	40	0	20L
1517	29.92	200	6.61	1.03	13	4.32	18.89	42	0	21L
1537	29.92	NM	6.61	1.01	9	4.27	18.89	50	0	26L
1542	29.82	200	6.60	1.03	10	4.28	18.89	51	0	27L
1547	NM	200	6.61	1.06	8	4.21	18.46	51	0	
1552	29.85	NM	6.62	1.06	8	4.21	18.46	51	0	
1600	SAMPLE	NM	6.62	1.07	8	4.20	18.47	50	0	
					4					

SIGNATURE(S): D P Carone

PAGE_ OF_

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: S8MW08D02
Sample Location: MW08D
Sampled By: CM, DW, RS
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 8-22-00								
Time: 0910								
Method: GRUNDFOS	CLEAR	6.63	0.701	15.5	27	5.19	14	0

PURGE DATA:

Date: 8-22-00
Method: Redi-Flow II Pump
Monitor Reading (ppm): NA
Well Casing Diameter & Material
Type: 2" PVC
Total Well Depth (TD): 77.50
Static Water Level (WL): 19.54
One Casing Volume(gal): ~~7.75~~ 10 ow
Start Purge (hrs): 0740
End Purge (hrs): 0910
Total Purge Time (min): 90
Total Vol. Purged (gal): 6.5

See Attached Low Flow Purge Data Sheet for Purge Data

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	40 ml Vial	
		SEE COC	

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: 8MW8D
DATE: 8-22-00

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. % ~~PPT.~~	Comments
0743	17.19	140	—							START Purge
0748	18.92	—	6.16	1.67	23	11.28	13.7	157	0.1	
0753	19.16	50	6.78	3.58	310	1.50	13.9	-35	0.2	
0758	19.81	90	—	—	—	—	—	—	—	
0800	—	2080	7.08	1.63	>999	0.56	14.7	-55	0.1	TURNED UP PUMP
0805	30.85	400	6.95	0.838	180	3.09	14.7	-22	0	
0815	32.96	400	6.88	0.830	—	3.38	14.8	-12		
0820	33.25	220	6.74	0.813	110	3.79	15.1	-6		
0825	33.50	↓	6.69	0.795	80	4.29	15.0	-2		
0830	33.54		6.65	0.808	70	5.68	15.2	3		
0835	33.61	250	6.62	0.819	65	5.04	15.3	7		
0840	33.65	200	6.62	0.820	39	5.04	15.3	8		
0845	33.61	200	6.63	0.802	35	5.13	15.3	10		
0850	33.61	200	6.62	0.826	31	5.17	15.3	9		
0855	33.66	200	6.63	0.821	32	5.17	15.3	10		
0900	33.66	200	6.64	0.794	25	5.16	15.5	12		
0905	33.66	200	6.63	0.790	27	5.18	15.5	12		
0910	33.66	200	6.63	0.789	27	5.19	15.5	14		END PURGE

SIGNATURE(S): [illegible]

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: SB MW 10~~D~~S 01
Sample Location: SB MW105
Sampled By: Cercone
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity
Date: 7-6-00								
Time: 1930								
Method: Grundfos	Clear	5.37	0.131	19.4	2	5.92	209	0

PURGE DATA:

Date:
Method:
Monitor Reading (ppm):
Well Casing Diameter & Material Type: 2" PVC
Total Well Depth (TD): 21.1
Static Water Level (WL): 16.10
One Casing Volume(gal):
Start Purge (hrs): 1835
End Purge (hrs): 1930
Total Purge Time (min): 55
Total Vol. Purged ~~(gal)~~: 19L

See Attached Low Flow Purge Data Sheet for Purge Data

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4° C	40 ml Vial	✓
SVOC	1 L G ⟷ 4°C		✓
Diss Metals	500 ml ⟷ HNO_3 4°C		✓
Tot Metals	4°C HNO_3	500 ml	✓
Pest	4°C	1 L G	✓
PCB	4°C	1 L G	✓
TSS TDS Cl-	4°C		✓

OBSERVATIONS / NOTES:

Well is in Right Hand turn lane into museum from subase. Several pump outages occurred while sampling.

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): D.P. Cercone

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: 8MW 80S
DATE: 7-6-00

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. PPT.	Comments
1835	16.10	Start	5.47	0.134		6.06	19.84	177	0	Clear
1844	16.13	320	5.48	0.142	3.26	5.84	20.36	181	0	2L
1848	NM	NM	5.49	0.139		5.88	20.13	189	0	3L
1852	NM	NM	5.44	0.144	3.12	5.89	20.50	196	0	4L
1858	16.15	400	5.35	0.141	2.78	5.79	22.03	194	0	Pump Stopped. 5L
1904	16.15	400	5.34	0.139	2.7	5.81	21.15	200	0	6
1910	NM	—	5.29	0.124	11	5.65	18.70	206	0	Pump Stopped @ 1
1913	NM	400	5.31	0.125	5	5.84	19.51	208	0	10L
1917	16.13	400	5.36	0.129	5	5.88	19.70	208	0	12L
1921	16.12	400	5.37	0.130	2.4	5.89	19.86	209	0	13L
1924	16.12	400	5.36	0.131	2	5.90	19.40	209	0	14L
1927	16.13	400	5.37	0.131	2	5.9	19.46	208	0	16L
1930	SAMPLE	400	5.37	0.131	2	5.92	19.46	209	0	18L

SIGNATURE(S): D Cercone

PAGE 1 OF 1

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NSB-NLON
Project No.: 7856

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: S8MW10S02
Sample Location: 8MW10S
Sampled By: Chuck Meyer
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Salinity %
Date: 8/8/00								
Time: 1640								
Method: Rediflow Pump	clear	5.63	0.219	21.97	2.2	6.22	140	0.0

PURGE DATA:

Date: 8/8/00
Method: Rediflow pump
Monitor Reading (ppm):
Well Casing Diameter & Material
Type: 2" PVC
Total Well Depth (TD): 21.25
Static Water Level (WL): 16.09
One Casing Volume(gal): .831
Start Purge (hrs): 1555
End Purge (hrs): 1635
Total Purge Time (min): 40
Total Vol. Purged (gal): 4.0

See Attached Low Flow Purge Data Sheet for Purge Data

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOLATILES	HCL / 4°C	40 ml Vial	3
TCL SVOC / PAH	4°C	Liter Amber	2
TCL Pest / PCB	4°C	Liter Amber	2
TAL Metals	HNO3	500 ml Poly	1
Dissolved TAL Metals	HNO3	500 ml Poly	1
TSS, TDS Chloride	4°C	Liter Poly	1
		SEE COC	

OBSERVATIONS / NOTES:

21.25
16.09
5.16
.163
1548
3096
516
83108

Circle if Applicable:

MS/MSD —
Duplicate ID No.: —

Signature(s):

LOW FLOW PURGE DATA SHEET

1.467

PROJECT SITE NAME: NSB-NLON
PROJECT NUMBER: CTO 312 job# 7856

WELL ID.: S8MW10S02
DATE: 8/8/00

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Sal. % ~~PPT.~~	Comments
1555	16.09	400	7.64	0.241	55	9.84	20.00	52	0.0	
1600	16.12	400	6.18	0.194	18	6.64	20.72	92	0.0	
1605	16.12	400	5.78	0.203	5.3	6.45	21.17	118	0.0	
1610	16.12	400	5.68	0.213	3.7	6.42	21.18	128	0.0	
1615	16.12	400	5.62	0.218	2.8	6.41	20.65	137	0.0	
1620	16.13	350	5.62	0.218	3.2	6.22	21.37	140	0.0	
1625	16.13	280	5.63	0.216	2.7	6.22	21.92	140	0.0	
1630	16.13	280	5.63	0.220	2.3	6.22	21.93	140	0.0	
1635	16.13	280	5.63	0.219	2.2	6.22	21.97	140	0.0	
1635	Purging was completed after removing 4 gallons from the well.									
	The water was clear with no odors									
1640	Sample S8MW10S02 was collected from the discharge line of									
	the pump									

SIGNATURE(S): Chuck [illegible]

APPENDIX A.7

FIELD INSTRUMENT CALIBRATION LOGS

EQUIPMENT CALIBRATION LOG

INSTRUMENT NAME/MODEL : HORIBA U22

PROJECT NAME : NSB - NION

MANUFACTURER : HORIBA

SER # 9272047

PROJECT NUMBER : CTO 312 JOB # 7956

CALIBRATION DATE	INITIAL SETTINGS	STANDARDS USED	PROCEDURE	ADJUSTMENTS MADE	FINAL SETTINGS	SIGNATURE	COMMENTS
6-11-00	—	AUTO CAL. 4	AS PER MANU	NONE	4.0	TRSP	HORIBA AUTO CAL.
6-24-00	-	"	"	"	"	DPC	SOLN.
6-25-00	-	"	"	"	"	DPC	PH 4.01, 0 NTU,
6-26-00	-	"	"	"	"	DPC	4.49 mS/CM,
6-27-00	-	"	"	"	"	DPC.	
7-5-00	—	"	"	"	"	TRSP	LOT 2200
7-6-00	—	"	"	"	"	TRSP	EXP 4-6-01
7-8-00	—	"	"	"	"	TRSP	
7-9-00	—	"	"	"	"	[illegible]	
7-10-00	—	"	"	"	"	DPC	
7-11-00	-	"	"	"	"	DPC	
7-12-00	—	"	"	"	"	[illegible]	
7-17-00	—	"	"	"	"	DW	
7-19-00	—	"	"	"	"	DW	Calibrch Auto-cal
7-20-00	—	"	"	"	"	TRSP	Lot 1669 Exp. 7-1-2000
7-21-00	—	"	"	"	"	FCW	
7-22-00	—	"	"	"	"	FCW	
7-23-00	—	"	"	"	"	FCW	
7-24-00	—	"	"	"	"	FCW	
7-25-00	—	"	"	"	"	FCW	
7-31-00	—	"	"	"	"	DW	
8-1-00	—	"	"	"	"	DW	
8-2-00	—	"	"	"	"	DW	
8-3-00	—	"	"	"	"	DW	
8-4-00	—	"	"	"	"	DW	
8-5-00	—	"	"	"	"	DW	Horiba Auto Cal. Sol.
8-6-00	—	"	"	"	"	CMM	PH 4.01, NTU 0, 4.49 mS/cm Lot # 2200
8-7-00	—	"	"	"	"	DW	Exp. 4-6-02
8-8-00	—	"	"	"	"	DW	

Instrument Rented From: US ENVIRONMENTAL

EQUIPMENT CALIBRATION LOG

INSTRUMENT NAME/MODEL : HORIBA U22

PROJECT NAME : NSB NION

MANUFACTURER : HORIBA
SER. # 9292020

PROJECT NUMBER : CTO 312 WB# 7956

CALIBRATION DATE	INITIAL SETTINGS	STANDARDS USED	PROCEDURE	ADJUSTMENTS MADE	FINAL SETTINGS	SIGNATURE	COMMENTS
6.9.00	—	AUTO CAL. 4	AS PER MANU	NONE	4.0	RSP	HORIBA AUTO CAL.
6.10.00	—	↓	↓	↓	↓	RSP	SOL.
6.11.00	—	↓	↓	↓	↓	RSP	pH 4.01, 0 NTU,
6-12-00	—	"	"	"	"	SJC	4.49 MS/CM
6-13-00	—	"	"	"	"	SJC	LOT 2200
6.19.00	—	"	"	"	"		EXP 4-6-01
6-22-00	—	"	"	"	"	DPC	
6-23-00	—	"	"	"	"	DPC	
6-24-00	—	"	"	"	"	DPC	
6-25-00	—	"	"	"	"	DPC	
6-26-00	—	"	"	"	"	DPC	
6-27-00	—	"	"	"	"	DPC	
7.5.00	—	"	"	"	"	RSP	
7.6.00	—	"	"	"	"	RSP	
7.7.00	—	"	"	"	"	RSP	
7.8.00	—	"	"	"	"	RSP	
7-9-00	—	"	"	"	"	[illegible]	
7-10-00	—	"	"	"	"	[illegible]	
7-11-00	"	"	"	"	"	DPC	
7.12.00	"	"	"	"	"	[illegible]	
7-18-00	—	"	"	"	"	DW	Catitech auto-Cal
7-19-00	—	"	"	"	"	DW	Lot 1669 Exp. 7-1-2000
7-21-00	—	"	"	"	"	FCW	
7-22-00	—	"	"	"	"	DW	
7-23-00	—	"	"	"	"	DW	
7-24-00	—	"	"	"	"	FCW	
7-25-00	—	"	"	"	"	FCW	
7-31-00	—	"	"	"	"	DW	
8-1-00	—	"	"	"	"	DW	

Instrument Rented From: US ENVIRONMENTAL

EQUIPMENT CALIBRATION LOG

INSTRUMENT NAME/MODEL: Horiba U 22

PROJECT NAME: NSB - NION

MANUFACTURER: Horiba
Ser. # 9292020

PROJECT NUMBER: CTO 312 JOB# 7856

CALIBRATION DATE	INITIAL SETTINGS	STANDARDS USED	PROCEDURE	ADJUSTMENTS MADE	FINAL SETTINGS	SIGNATURE	COMMENTS
8-2-00	—	Auto Cal 4	As Per Manu	None	4.0	DW	HORIBA AUTO CAL.
8-3-00	—	"	"	"	"	DW	SOL.
8-4-00	—	"	"	"	"	DW	PH 4.01 NTU 0,
8-5-00	—	"	"	"	"	DW	4.49 MS/CM
8-6-00	—	"	"	"	"	DW	LOT 2200
8-7-00	—	"	"	"	"	DW	EXP 4-6-02
8-8-00	—	"	"	"	"	DW	
8-16-00	—	"	"	"	"	DW	
8-17-00	—	"	"	"	"	DW	
8-18-00	—	"	"	"	"	DW	
8-19-00	—	"	"	"	"	DW	

Instrument Rented From: US ENVIRONMENTAL

EQUIPMENT CALIBRATION LOG

INSTRUMENT NAME/MODEL : PE PHOTOVAC - 2020

PROJECT NAME : NSB - NION

MANUFACTURER : PHOTOVAC

PROJECT NUMBER : CTO 312 JOB# 7856

SER# ED HK 334

CALIBRATION DATE	INITIAL SETTINGS	STANDARDS USED	PROCEDURE	ADJUSTMENTS MADE	FINAL SETTINGS	SIGNATURE	COMMENTS
6.7.00	101	150, 100 PPM	AS PER MANU.	CAL.	100 PPM	RSS	11.7 eV LAMP
6.8.00	100	↓	↓	↓	↓	RSS	"
6.9.00	100	↓	↓	↓	↓	RSS	"
6.10.00	103	"	"	"	"	RSS	"
6.11.00	100	"	"	"	"	RSS	"
6.19.00	101	"	"	"	"	RSS	"
6.20.00	100	"	"	"	"	SJC	"
6.22.00	100	"	"	"	"	DPC	"
6-23-00	100	"	"	"	"	DPC	"
6-24-00	100	"	"	"	"	DPC	"
6-25-00	100	"	"	"	"	DPC	"
6-26-00	100	"	"	"	"	DPC	"
7.5.00	100	"	"	"	"	RSS	
7.6.00	100	"	"	"	"	RSS	
7.7.00	100	"	"	"	"	RSS	
7.8.00	100	"	"	"	"	RSS	
7.17.00	100	"	"	"	"	RSS	
7.19.00	100	"	"	"	"	RSS	
7.20.00	100	"	"	"	"	RSS	
7-21-00	100	"	"	"	"	FCW	

Instrument Rented From: US ENVIRONMENTAL

APPENDIX A.8

SURVEY DATA

NAVAL SUB BASE GROTON, CT
MONITORING WELLS

DESCRIPTION	NORTHING	EASTING	ELEVATION	
16SS1	706951.12	1181588.58	198.81	
16TB1/16TW1	706843.03	1181667.37	213.20	
16TB2/16TW2	706734.73	1181663.80	220.46	
16TB3	706798.83	1181720.30	217.36	
16TB4	706813.26	1181622.75	212.42	
16TB5	706801.14	1181657.52	213.15	
16TB6	706331.80	1181876.56	208.31	
16TB7	706288.54	1181932.70	206.33	
16TB8	706322.20	1181954.28	207.41	
18TB1/18TW1	704082.09	1183002.38	34.37	
18TB2/18TW2	703940.32	1182875.15	26.35	
18TB3	704222.75	1182868.91	34.40	
18TB4/18TW4	704115.34	1182810.12	30.85	
18TB5	703872.49	1182991.33	27.92	
23MW01S	702874.62	1183938.25	35.25	GROUND
			35.27	TOP CASING
			34.86	TOP PVC
23MW02S	702948.83	1183143.86	21.21	GROUND
			21.24	TOP CASING
			20.96	TOP PVC
23MW04S	703296.73	1182257.06	19.46	GROUND
			19.48	TOP CASING
			19.17	TOP PVC
2LMW35S	706244.75	1182712.55	195.20	GROUND
			195.22	TOP CASING
			194.93	TOP PVC
2WMW22S	709634.29	1182594.81	119.28	GROUND
			119.25	TOP CASING
			118.82	TOP PVC
3MW14S	709643.27	1180765.17	34.83	GROUND
			34.85	TOP CASING
			34.42	TOP PVC
3SB29D	709583.76	1181077.62	32.23	
3TW1	709562.58	1181008.29	35.14	
3TW10	709412.12	1180882.39	33.66	
3TW15	709276.22	1180876.06	34.22	
3TW17	709042.13	1181535.69	45.65	
3TW19	708946.19	1181632.80	47.43	
3TW22	708824.15	1181904.37	49.36	
3TW25	708840.82	1181570.45	40.34	
3TW4	709399.51	1181184.17	35.88	
7TB17	709071.02	1181806.42	44.35	
7TB18	709058.33	1181762.96	44.20	
7TW1	708855.23	1181994.09	54.31	
7TW10	709074.11	1181820.37	44.68	
7TW2	709010.88	1181764.65	44.04	
7TW3	709071.57	1181676.85	43.55	
7TW4	709144.70	1181601.96	42.04	
7TW5	709214.53	1181606.12	41.08	
7TW6	709161.02	1181718.21	43.10	
7TW7	708987.59	1181956.26	45.08	
7TW8	709055.04	1181743.88	43.81	
7TW9	709063.72	1181777.82	44.39	

USA - COE
Corpscon Conversion
Software used to
normalize northing
and easting data.

APPENDIX A.9

CHAIN OF CUSTODIES

TETRA TECH NUS, INC. CHAIN OF CUSTODY | NUMBER 060800-1 | PAGE 1 OF 2

PROJECT NO:	SITE NAME:	PROJECT MANAGER AND PHONE NUMBER	LABORATORY NAME AND CONTACT:
CTO 312 7856	NSB NLON	DAVE CERCONE 412 921 8179	CLINIC CORP, KAREN WILLIAMSEN
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER AND PHONE NUMBER	ADDRESS
[signature]		STAN CONTI 412 921 8422	10 DUAN KENNESS DR.
		CARRIER/WAYBILL NUMBER	CITY, STATE
		CLINIC PICK UP	NARRAGANSETT, RI 02882

STANDARD TAT ☐
RUSH TAT ☒
☒ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

CONTAINER TYPE PLASTIC (P) or GLASS (G): G
PRESERVATIVE USED: HCL

DATE YEAR 2000	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS: TCL VOC								COMMENTS
6.8	0750	TB 060800 1	AQ	G	2	2								TRIP BLANK
6.9	1440	S3 TW 22 01	AQ	G	9	9								RUN ALSO MS/MSD
↓	1550	S3 TW 17 01	AQ	G	3	3								
	1635	S3 TW 15 01	AQ	G	3	3								
↓	0000	FD 060900 1	AQ	G	3	3								DUP S3TW2201
6.10	1200	RB 061000 1	AQ	G	3	3								RINSE + SIL. TUBING
↓	1450	S3 TW 04 01	AQ	G	3	3								
↓	1645	S3 TW 10 01	AQ	G	3	3								
↓	1555	S3 TW 01 01	AQ	G	3	3								
6.11	0945	S7 TW 06 01	AQ	G	3	3								
↓	1010	S7 TW 04 01	AQ	G	3	3								
↓	1130	S3 TW 25 01	AQ	G	3	3								
↓	0950	S7 TW 05 01	AQ	G	3	3								

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY [signature]	6.12.00	0810	1. RECEIVED BY [signature]	6.12.00	0810
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

3/99
FORM NO. TtNUS-001

TETRA TECH NUS, INC. CHAIN OF CUSTODY | NUMBER 060800-1 | PAGE 2 OF 2

PROJECT NO: 7856	SITE NAME: NSB-NLON	PROJECT MANAGER AND PHONE NUMBER: DAVE CERCONE 412 921 8194	LABORATORY NAME AND CONTACT: CEIMIC CORP, KAREN WILLIAMSON
SAMPLERS (SIGNATURE): [signature]		FIELD OPERATIONS LEADER AND PHONE NUMBER: STAN CONTI 412 921 8422	ADDRESS: 10 DEAN KNAUSS DR
		CARRIER/WAYBILL NUMBER: CEIMIC PICK-UP	CITY, STATE: NARRAGANSETT, RI 02882

STANDARD TAT ☐
RUSH TAT ☑
☒ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

CONTAINER TYPE PLASTIC (P) or GLASS (G): G
PRESERVATIVE USED: HCL

DATE YEAR 2000	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS: TCL VOC, 40 MLC VOC								COMMENTS
6.11	1130	S7TW0301	AQ	G	3	3								
	1430	S7TW0701	AQ	G	3	3								
	1450	S7TW0201	AQ	G	3	3								
	1555	S7TW0101	AQ	G	3	3								
↓	0000	FD061100 1	AQ	G	3	3								DUP S7TW0701

1. RELINQUISHED BY [signature]	DATE 6.12.00	TIME 0810	1. RECEIVED BY [signature]	DATE 6.12.00	TIME 0810
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

3/99
FORM NO. TtNUS-001

TETRA TECH NUS, INC. CHAIN OF CUSTODY | NUMBER 061200-1 | PAGE 1 OF 1

PROJECT NO:	SITE NAME:	PROJECT MANAGER AND PHONE NUMBER	LABORATORY NAME AND CONTACT:
CTO 312 7856	NSB-NLON	DAVE CERCONE 412 921 8194	CERMIC CORP, K. WILLIAMSON
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER AND PHONE NUMBER	ADDRESS
R. S. Sempl		STAN CONTI 412 921 8422	10 DEAN KNAISS DR.
		CARRIER/WAYBILL NUMBER	CITY, STATE
		FEDEX 8169 3433 4765	NARRAGANSETT, RI 02882

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2000	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	TCL VOC, 40 ml VIAL	EN CORE, TCL VOC	SVOC, METALS, PEST/PCB	SPLP PCB + METALS	TCL SVOC QT GLASS	PEST/PCB QT GLASS	TAL METALS L PE	COMMENTS
		CONTAINER TYPE PLASTIC (P) or GLASS (G)				G	P	G	G	G	G	P	
		PRESERVATIVE USED				HCL	4°C	4°C	4°C	4°C	4°C	HNO3	
6-12	0725	TB 061200 1	AQ	G	2	2							
	1042	S18SB04 0001	S	G	5		3	1	1				
	1045	S18SB04 0708	S	G	5		3	1	1				
	1235	S18SB03 0001	S	G	5		3	1	1				
	1250	S18SB03 0708	S	G	5		3	1	1				
	1310	S18SB02 0001	S	G	5		3	1	1				
	1315	S18SB02 0405	S	G	5		3	1	1				
	0000	FD 061200 1	S	G	5		3	1	1				DUP S18 02 0405
	1410	S18SB05 0001	S	G	5		3	1	1				
	1420	S18SB05 0405	S	G	10		6	2	2				RUN ALSO MS/MSD
	1445	S18SB01 0001	S	G	5		3	1	1				
	1450	S18SB01 0506	S	G	5		3	1	1				
↓	1530	RB 061200 1	AQ	G	7	3				1	2	1	MATCH CERC LINEIC

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY R. S. Sempl	6-12-00	1635	1. RECEIVED BY FEDEX		
2. RELINQUISHED BY			2. RECEIVED BY		
3. RELINQUISHED BY			3. RECEIVED BY		

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

3/99
FORM NO TINUS-001

TETRA TECH NUS, INC. CHAIN OF CUSTODY | NUMBER 061300-1 | PAGE 1 OF 1

PROJECT NO: CTO 312 7856	SITE NAME: NSB NLON
PROJECT MANAGER AND PHONE NUMBER	DAVE CERONE 412 921 8194
LABORATORY NAME AND CONTACT:	CEIMIC CORP, K. WILLIAMSEN
SAMPLERS (SIGNATURE)	[signature]
FIELD OPERATIONS LEADER AND PHONE NUMBER	STAN CONTI 412 921 8422
ADDRESS	10 DEAN KNAUSS DR.
CARRIER/WAYBILL NUMBER	FED EX 8169 3433 4721
CITY, STATE	NARRAGANSETT, RI 02882

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2000	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	TCL VOC, 40 ml VIAL	TCL VOC, LNCOVR	SVOC, METALS, PEST/PCB	SPLP - PCB + METALS	TCL SVOC 8oz	GT GLASS PEST/PCB	GT GLASS TAL METALS	L	COMMENTS
CONTAINER TYPE PLASTIC (P) or GLASS (G)						G	P	G	G	G	G	P		
PRESERVATIVE USED						HCL	4°C	4°C	4°C	4°C	4°C	HNO3		
6-13	0710	TB 061300 1	AQ	G	2	2								
	0715	RB 061300 1	AQ	G	7	3				1	2	1		PLASTIC TRACE
	0835	S16SB08 0001	S	G	5	3 KS	3	1	1					
	0845	S16SB08 0405	S	G	5		3	1	1					
	0915	S16SB07 0001	S	G	5		3	1	1					
	0940	S16SB06 0001	S	G	5		3	1	1					
	1090	S16SB03 0001	S	G	5		3	1	1					
	1050	S16SB01 0001	S	G	5		3	1	1					
	1100	S16SB05 0001	S	G	5		3	1	1					

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY [signature]	6-13-00	1640	1. RECEIVED BY FED EX	6-13-00	1640
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

3/99
FORM NO. TINUS-001

TETRA TECH NUS, INC. CHAIN OF CUSTODY | NUMBER 061300-2 | PAGE 1 OF 1

PROJECT NO: CTO 312 7856	SITE NAME:
PROJECT MANAGER AND PHONE NUMBER	DAVE CERONE 412 921 8194
LABORATORY NAME AND CONTACT:	SOUTHWEST LABS
SAMPLERS (SIGNATURE)	K. S. Simpson
FIELD OPERATIONS LEADER AND PHONE NUMBER	STAN CONTI 412 921 8422
ADDRESS	1700 W. ALBANY STE. C
CARRIER/WAYBILL NUMBER	FED EX 8169 3933 4743
CITY, STATE	BROKEN ARROW, OK 74012

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2000	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	DIOXINS/FURANS 8oz 4°C	DIOXINS/FURANS 6T 4°C							COMMENTS
CONTAINER TYPE PLASTIC (P) or GLASS (G)						G	G							
PRESERVATIVE USED														
6-13	0715	RB 061300 1	AQ	G	4		4							PLASTIC TRUE RUN ALSO MS/MSD
	0835	S16 SB08 0001	S	G	1	1								
	0845	S16 SB08 0405	S	G	1	1								
	0915	S16 SB07 0001	S	G	1	1								
	0940	S16 SB06 0001	S	G	1	1								
	1040	S16 SB03 0001	S	G	1	1								
	1050	S16 SB01 0001	S	G	1	1								
	1100	S16 SB05 0001	S	G	1	1								

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY K. S. Simpson	6.13.00	1640	1. RECEIVED BY FED EX	6.13.00	1640
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

3/99
FORM NO. TtNUS-001

TETRA TECH NUS, INC. CHAIN OF CUSTODY | NUMBER 061400 1 | PAGE 1 OF 1

PROJECT NO:	SITE NAME:	PROJECT MANAGER AND PHONE NUMBER	LABORATORY NAME AND CONTACT:
CTO 312 7856	NSB NLON	DAVE CERCONE 412 921 8194	CEIMIC CORP, K. WILLIAMSEN
SAMPLERS (SIGNATURE):		FIELD OPERATIONS LEADER AND PHONE NUMBER: STAN CONTI 412 921 8422	ADDRESS: 10. DEAN KNAUSS DR.
		CARRIER/WAYBILL NUMBER: FED EX 8169 3433 4710	CITY, STATE: NARRAGANSETT, RI 02882

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2000	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	TCL VOC EN CORE	SVOC, METALS 8 oz GLASS	TCL VOC 40 ml VOA	SVOC, GT AMBER	PEST/PCB, GT AMBER	TAL METALS 500 ml PE	TDS, TSS 250 ml PE		COMMENTS
		CONTAINER TYPE PLASTIC (P) or GLASS (G)						G	G	G	G	P	P	
		PRESERVATIVE USED				4°C	4°C	HCL	4°C	4°C	HNO3	4°C		
6.13	1605	S7SB18 0506	S	G	4	3	1							
	1630	S7SB09 0809	S	G	4	3	1							
	1650	S7SB10 0607	S	G	4	3	1							
	1720	S7SB08 0607	S	G	4	3	1							
	1530	TB 061300 2	AQ	G	2			2						
6.14	0000	FD061400 01	AQ	G	8			3	1	2	1	1		DUP OF S18TW0201
	1010	S18TW02 01	AQ	G	8			3	1	2	1	1		~~DUP~~
	1040	S18TW04 01	AQ	G	8			3	1	2	1	1		

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY	6.14.00	1240	1. RECEIVED BY FEDEX	6.14.00	1240
2. RELINQUISHED BY			2. RECEIVED BY		
3. RELINQUISHED BY			3. RECEIVED BY		

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

3/99
FORM NO. TINUS-001

TETRA TECH NUS, INC. | CHAIN OF CUSTODY | NUMBER 062300-1 | PAGE 2 OF 3

PROJECT NO: CTO 312 7856	SITE NAME: NSB-NLON
PROJECT MANAGER AND PHONE NUMBER: DAVE CERCONE 412 921 8194	LABORATORY NAME AND CONTACT: CEIMIC CORP, K. WILLIAMSON
SAMPLERS (SIGNATURE): K. S. Simpson	FIELD OPERATIONS LEADER AND PHONE NUMBER: STAN CONTI 412 921 8422
ADDRESS: 10 DEAN KNAUSS DR	CARRIER/WAYBILL NUMBER: CEIMIC CORP. PICK-UP
CITY, STATE: NARRAGANSETT RI 02992	

STANDARD TAT ☒
RUSH TAT ☒
☒ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

CONTAINER TYPE PLASTIC (P) or GLASS (G): G, P, G, G
PRESERVATIVE USED: HCL, 4°C, 4°C, 4°C

DATE YEAR 2000	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	TCL VOC 40 ml vial	TCL VOC vial	TCL SVOC, PEST/PCB, METALS	SPLP - PCB + METALS				COMMENTS
6-23	1200	TB062300 1	AQ	G	2	2							TRIP BLANK
RUSH TAT → 6-23	1520	S3 MW29S 03	AQ	G	3	3							RUSH TAT ←
6-25	1350	S16 SS 01	SOIL	G	5		3	1	1				STANDARD TAT

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY: K. S. Simpson	6-26-00	0900	1. RECEIVED BY: J. White	6-26-00	0800
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

3/99
FORM NO. TINUS-001

TETRA TECH NUS, INC. CHAIN OF CUSTODY | NUMBER 062300-2 | PAGE 1 OF 3

PROJECT NO: CTO 312 7856	SITE NAME: NSB-NLON	PROJECT MANAGER AND PHONE NUMBER: DAVE CERCONE 412 921 8194	LABORATORY NAME AND CONTACT: CEIMIC CORP, K. WILLIAMSEN
SAMPLERS (SIGNATURE): K. S. Simpson		FIELD OPERATIONS LEADER AND PHONE NUMBER: STAN CONTI 412 921 8422	ADDRESS: 10 DEAN KNAUSS DR.
		CARRIER/WAYBILL NUMBER: CEIMIC CORP - PICK UP	CITY, STATE: NARRAGANSETT RI 02882

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2000	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	TOC 8 oz w/m glass 4°C	TCL VOC 40 ml VIAL HCL	TCL SVOC QT 4°C	TAL METALS + HARDNESS 500 ml HNO3	TSS, TDS, ALK, SULFATE, CHLORIDE 4°C	ETHANE, ETHENE 40 ml VIAL HCL	METHANE	TOC, AMMONIA H2SO4	SULFIDE NaOH	COMMENTS
						G	G	G	P	P	G	P	P	P	
6.22	1730	S3 SB14S 3234	SOIL	G	1	1									
6.23	1050	S23 SB04S 1012	SOIL	G	1	1									
↓	1130	S23 SB02S 0810	SOIL	G	1	1									
↓	1245	S3 SB29D 1012	SOIL	G	1	1									
6.24	1000	S7 TW08 01	AQ	G	12		3	1	1	2	3	1	1		
↓	1210	S7 TW09 01	AQ	G	12		3	1	1	2	3	1	1		
↓	1245	S7 MW03D 01	AQ	G	12		3	1	1	2	3	1	1		
↓	1530	RB 062400 1 *	AQ	G	12		3	1	1	2	3	1	1		GRUNFOS + PE TUBING
6.25	0915	S7 TW10 01	AQ	G	12		3	1	1	2	3	1	1		

1. RELINQUISHED BY: K. S. Simpson	DATE 6.26.00	TIME 0800	1. RECEIVED BY: R. White	DATE 6.26.00	TIME 0800
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS: * RUSH TURN ON ETHANE, ETHENE & METHANE

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

3/99
FORM NO TINUS-001

TETRA TECH NUS, INC. CHAIN OF CUSTODY | NUMBER 062300 3 | PAGE 1 OF 1

PROJECT NO: CTO 312 7856	SITE NAME: NSB NLON	PROJECT MANAGER AND PHONE NUMBER: DAVE CERQUNE 412 921 8194	LABORATORY NAME AND CONTACT: NORTHEAST ENGINEERS & CONSULTANTS
SAMPLERS (SIGNATURE): Kirk S. Simpson		FIELD OPERATIONS LEADER AND PHONE NUMBER: STAN CONTI 412 921 8422	ADDRESS: DAN O'CONNELL
		CARRIER/WAYBILL NUMBER: LAB PICK-UP	CITY, STATE: MIDDLETOWN, RI 02842

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

CONTAINER TYPE PLASTIC (P) or GLASS (G): *
PRESERVATIVE USED: /

DATE YEAR 2000	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS: BULK DENSITY, PH, POROSITY								COMMENTS
6-10	1130	S7 SB01 0912	SOIL	G	1	1								SHELBY
6-20		S23 SB04S 1012	↓	↓	1	1								TUBE
6-20		S23 SB02S 0910			1	1								
6-23		S3 SB29D 0911			1	1								

1. RELINQUISHED BY: Kirk S. Simpson	DATE 6-27-00	TIME 1135	1. RECEIVED BY: Vincent C. Kuyer	DATE 6-27-00	TIME 1135
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS * SHELBY TUBE

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

3/99
FORM NO. TINUS-001

TETRA TECH NUS, INC. CHAIN OF CUSTODY | NUMBER 062300-4 | PAGE 1 OF 1

PROJECT NO:	SITE NAME:	PROJECT MANAGER AND PHONE NUMBER	LABORATORY NAME AND CONTACT:
CTO 312 7856	NSB-NLON	DAVE CERCONE 412 921 8194	APCL
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER AND PHONE NUMBER	ADDRESS
[signature]		STAN CONTI 412 921 8422	13760 MAGNOLIA AVE
		CARRIER/WAYBILL NUMBER	CITY, STATE
		FED EX 8169 3433 4700	CHINO, CA

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

CONTAINER TYPE PLASTIC (P) or GLASS (G): P
PRESERVATIVE USED: 4°C
TYPE OF ANALYSIS: PERCHLORATE

DATE YEAR 2000	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	PERCHLORATE								COMMENTS
6.24	1000	S7 TW 08 01	AQ	G	1	1								
	1210	S7 TW 09 01	AQ	G	1	1								
	1245	S7 MW03D 01	AQ	G	1	1								
	1530	RB 062400 1	AQ	G	1	1								GRUNFOST PE TUBING
6.25	0915	S7 TW 10 01	AQ	G	1	1								

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY [signature]	6.26.00	1700	1. RECEIVED BY FEDEX	6.26.00	1700
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

3/99
FORM NO. TINUS-001

TETRA TECH NUS, INC. CHAIN OF CUSTODY | NUMBER 062300-5 | PAGE 3 OF 3

PROJECT NO:	SITE NAME:	PROJECT MANAGER AND PHONE NUMBER	LABORATORY NAME AND CONTACT:
CTO 312 # 7856	NSB - NLON	DAVE CERCONE 412 921 8194	CEIMIC CORP, K. WILLIAMSON
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER AND PHONE NUMBER	ADDRESS
R. S. Singer		STAN CONTI 412 921 8422	10 DEAN KNAUSS DR
		CARRIER/WAYBILL NUMBER	CITY, STATE
		CEIMIC CORP PICK-UP	NARRAGANSETT, RI 02852

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2000	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	TCL VOC, 40 ml VIAL	TCL SVOC, QT	TAL METALS	TAL DISSOLVED METALS	PEST/PCB QT	TSS, TDS, CHLORIDES 250 ml			COMMENTS
CONTAINER TYPE PLASTIC (P) or GLASS (G)						G	G	P	P	G	P			
PRESERVATIVE USED						HCL	4°C	HNO3	HNO3	4°C	4°C			
6-25	1030	S2LMW35B01	AQ	G	9	3	1	1		1	3			
6-25	1030	S2LMW35B01 F	AQ	G	1				1					
6-25	0000	FD 062500 1	AQ	G	9	3	1	1		1	3			DUP OF S2LMW35B01
6-25	0000	FD 062500 1 F	AQ	G	1				1					
6-25	1630	S23MW04S 01	AQ	G	9	3	1	1		1	3			
6-25	1630	S23MW04S 01 F	AQ	G	1				1					

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY R. S. Singer	6-26-00	0800	1. RECEIVED BY R. White	6-26-00	0900
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

3/99
FORM NO. TtNUS-001

TETRA TECH NUS, INC. | CHAIN OF CUSTODY | NUMBER 062500-1 | PAGE 1 OF 1

PROJECT NO: CT0312 # 7856	SITE NAME: NSB - NLON	PROJECT MANAGER AND PHONE NUMBER: DAVE CERCONE 412 921 8194	LABORATORY NAME AND CONTACT: SW LAB, JAYANT SIRINGARPURE
SAMPLERS (SIGNATURE): [signature]		FIELD OPERATIONS LEADER AND PHONE NUMBER: STAN CONTI 412 921 8422	ADDRESS: 1700 W ALBANY
		CARRIER/WAYBILL NUMBER: FEDEX 8169 3433 4695	CITY, STATE: BROKEN ARROW, OK

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

CONTAINER TYPE PLASTIC (P) or GLASS (G): G

PRESERVATIVE USED: 4°C

DATE YEAR 2000	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS: DIOXINS/FURANS 8 oz glass								COMMENTS
6-25	1350	S16 SS01	SOIL	G	1	1								

1. RELINQUISHED BY [signature]	DATE 6-26-00	TIME 1700	1. RECEIVED BY FED EX	DATE 6-26-00	TIME 1700
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

3/99
FORM NO TINUS-001

TETRA TECH NUS, INC. | CHAIN OF CUSTODY | NUMBER 062600-1 | PAGE 1 OF 1

PROJECT NO: CTO 312 # 7856	SITE NAME: NSB-NLON
PROJECT MANAGER AND PHONE NUMBER: DAVE CERCONE 412 921 8194	LABORATORY NAME AND CONTACT: CLIMIC CORP, K. WILLIAMSEN
SAMPLERS (SIGNATURE): K. J. S. Simpson	FIELD OPERATIONS LEADER AND PHONE NUMBER: STAN CONTI 412 921 8422
ADDRESS: 10 OCEAN KNOLL DR.	CARRIER/WAYBILL NUMBER:
CITY, STATE: NARRAGANSETT, RI 02882	

STANDARD TAT ☒
RUSH TAT ☐ ☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2000	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	TCL VOC (40 ML VIAL)	TCL SVOC (QT)	TAL METALS (500 ML)	TAL DISSOLVED METALS (500 ML)	PEST/PCB (QT)	TSS, TDS, CHLORIDES (QT)			COMMENTS
CONTAINER TYPE PLASTIC (P) or GLASS (G)						G	G	P	P	G	P			
PRESERVATIVE USED						HCL	4°C	HNO_3	HNO_3	4°C	4°C			
6-26	0730	TB 062600-1	AQ	G	2	2								TRIP BLANK
6-26	1155	S23MW01S01	AQ	G	10	3	1	1	1	2	2			
↓	1600	S23MW01D01	AQ	G	10	3	1	1	1	2	2			
↓	1920	S23HNUS23 01	AQ	G	10	3	1	1	1	2	2			
6-27	0815	RB 062700 1	AQ	G	10	3	1	1	1	2	2			GRUNFOS + TUBING
↓	1530	S2WMW22S01	AQ	G	10	3	1	1	1	2	2			
↓	1940	S2WMW22D01	AQ	G	30	9	3	3	3	6	6			RUN ALSO MS/MSD

1. RELINQUISHED BY: K. J. S. Simpson	DATE: 6-28-00	TIME: 10:00	1. RECEIVED BY: [illegible]	DATE: 6-28-00	TIME: 10:00
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS: NOTE: ALL DISSOLVED METALS SAMPLE ID END WITH "F" ON BOTTLE LABEL

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

3/99
FORM NO. TINUS-001

TETRA TECH NUS, INC. CHAIN OF CUSTODY | NUMBER 062600 2 | PAGE 1 OF 1

PROJECT NO: CTO 312 # 7856	SITE NAME: NSB NLON	PROJECT MANAGER AND PHONE NUMBER: DAVE CELICONE 412 921 8194	LABORATORY NAME AND CONTACT: CEIMIC CORP, K. WILLIAMSEN
SAMPLERS (SIGNATURE): K. S. Simpson		FIELD OPERATIONS LEADER AND PHONE NUMBER: STAN CONTI 412 921 8422	ADDRESS: 10 DEANE KNAUSS DR.
		CARRIER/WAYBILL NUMBER: CEIMIC CORP PICK-UP	CITY, STATE: NARRAGANSETT, RI 02852

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

CONTAINER TYPE PLASTIC (P) or GLASS (G): ✓ P P P P

PRESERVATIVE USED: HCL, 4°C, HNO_3, NaOH, $1\frac{1}{2}$ SOK

TYPE OF ANALYSIS

DATE YEAR 2000	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	ETHANE, ETHENE, MAS	METHANE	ALK, SULFATE SOMC	CHLORIDE	HARDNESS	SULFIDE	TOC	AMMONIA				COMMENTS
6-26	1400	S23MW04S01	AQ	G	8	3	2	1	1								

1. RELINQUISHED BY: K. S. Simpson	DATE 6-28-00	TIME 10:00	1. RECEIVED BY: F. White	DATE 6-28-00	TIME 10:00
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS: SAMPLED FOR OTHER PARAMETERS; COLLECTED 6-25-00 - NA ON 6-26-00

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

3/99
FORM NO. TINUS-001

TETRA TECH NUS, INC. CHAIN OF CUSTODY | NUMBER 070500-1 | PAGE 1 OF 1

PROJECT NO: CTO 312 # 7956	SITE NAME: NSB - NLON	PROJECT MANAGER AND PHONE NUMBER: DAVE CERONE 412 921 9194	LABORATORY NAME AND CONTACT: CEIMIC CORP, K. WILLIAMSEN
SAMPLERS (SIGNATURE): K. S. Simpson		FIELD OPERATIONS LEADER AND PHONE NUMBER: KEITH SIMPSON 412 921 8131	ADDRESS: 10 DUAN KNAUSS DR.
		CARRIER/WAYBILL NUMBER: CEIMIC PICK-UP	CITY, STATE: NARRAGANSETT, RI 02882

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2000	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	TCL VOC 40 ml VIAL	TCL SVOC QT	TAL METALS 500 ml	TAL DISSOLVED METALS 500 ml	PEST/PCB QT	TSS, TDS	CHLORIDES QT			COMMENTS
CONTAINER TYPE PLASTIC (P) or GLASS (G)						G	G	P	P	G	P				
PRESERVATIVE USED						HCL	4°C	HNO3	HNO3	4°C	4°C				
7.5	1400	TB 070500-1	AQ	G	2	2									TRIP BLANK
7.6	1000	SBMW08D 01	AG	G	10	3	1	1	1	2	2				
7.6	1730	RB 070600 1	AG	G	10	3	1	1	1	2	2				GRUNFOS + 2" PE TUBING
7.6	1930	SBMW10S 01	AG	G	10	3	1	1	1	2	2				

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY: K. S. Simpson	7.7.00	0750	1. RECEIVED BY: R. White	7.7.00	0750
2. RELINQUISHED BY			2. RECEIVED BY		
3. RELINQUISHED BY			3. RECEIVED BY		

COMMENTS: NOTE: ALL DISSOLVED METALS SAMPLE ID ENDS WITH "F" ON BOTTLE LABEL

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

3/99
FORM NO. TINUS-001

TE. TECH NUS, INC. CHAIN OF CUSTODY NUMBER 070500-04 PAGE 1 OF 1

PROJECT NO: 5082	SITE NAME: NSB-NIUN
PROJECT MANAGER AND PHONE NUMBER	MARK MENGEL 412 921 8723
FIELD OPERATIONS LEADER AND PHONE NUMBER	KEITH SIMPSON 412 921 8131
CARRIER/WAYBILL NUMBER	ACCUTEST PICK-UP
SAMPLERS (SIGNATURE)	K. S. Simpson
LABORATORY NAME AND CONTACT:	ACCUTEST
ADDRESS	2235 ROUTE 130
CITY, STATE	DAYTON, NJ 08810

STANDARD TAT ☑
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2000	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	TCL VOC 40 ml VIAL	TCL SVOC L	TCL PAH L	TCL PEST/PCB L	ALK, CHLORIDE, TSS	TDS, SULFATE	TAL METALS HARDNESS	DISSOLVED	TAL METALS	TOC	COD	COMMENTS
CONTAINER TYPE PLASTIC (P) or GLASS (G)						G	G	G	G	P	P	P		G			
PRESERVATIVE USED						HCL	-	-	-	-	HNO3	HNO3		HCL		H2SO4	
7.5	1405	TB 070500	AQ	G	2	2											
↓	1800	2WGW21S 04	AQ	G	14	3	2	2	2	1	1	1		1	1		
7.6	1105	4GW01S 04	AQ	G	14	3	2	2	2	1	1	1		1	1		
↓	1530	2LGW20S 04	AQ	G	14	3	2	2	2	1	1	1		1	1		
								OK									

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY K. S. Simpson	7.7.00	0735	1. RECEIVED BY [signature]	7.7.00	0735
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS NOTE: ALL DISSOLVED METALS SAMPLE ID END WITH "F" ON BOTTLE LABEL

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

TETRA TECH NUS, INC. CHAIN OF CUSTODY | NUMBER 070700-1 | PAGE 1 OF 1

PROJECT NO: CTO 312 # 7856	SITE NAME: NSB-NLON
PROJECT MANAGER AND PHONE NUMBER	DAVE CERCONE 412 921 8194
LABORATORY NAME AND CONTACT:	CEIMIC, KAREN WILLIAMSEN
SAMPLERS (SIGNATURE)	K. E. Simpson
FIELD OPERATIONS LEADER AND PHONE NUMBER	KEITH SIMPSON 412 921 8131
ADDRESS	10 DEAN KNAUSS DR.
CARRIER/WAYBILL NUMBER	CEIMIC PICK-UP
CITY, STATE	NARRAGANSETT RI 02892

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2000	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	TCL VOC 40 ML VIAL	TCL SVOC 6T	TAL METALS, HARDNESS, DISSOLVED 500 ML	TAL METALS 500 ML	TSS, TDS, ALK, SULFATE, CHLORIDE	ETHANE, ETHENE, METHANE 40 ML VIAL	TOC	AMMONIA	SULFIDE	COMMENTS
CONTAINER TYPE PLASTIC (P) or GLASS (G)						G	G	P	P	P	G	P	P		
PRESERVATIVE USED						HCL	4°C	HNO3	HNO3	~~H2SO4~~ 4°C	HCL	H2SO4	NaOH ZnAc		
7.7	0800	TB 070700 1	AQ	G	2	2									TRIP BLANK
↓	1130	S7 MW10S 01	AQ	G	12	3	1	1	1	1	3	1	1		
↓	0000	FD 070700-1	AQ	G	12	3	1	1	1	1	3	1	1		S7MW10S 01
↓	1530	S7MW01D 01	AQ	G	12	3	1	1	1	1	3	1	1		
7.8	1000	S7MW08S 01	AQ	G	33	9	3	3		3	9	3	3		RUN ALSO MS/MSD
↓	1355	S7MW02D 01	AQ	G	11	3	1	1		1	3	1	1		
↓	1440	S7MW02S 01	AQ	G	11	3	1	1		1	3	1	1		
↓	1830	RB 070800 1	AQ	G	11	3	1	1		1	3	1	1		GRUNDFOS + 2.5' TUBING
7.9	0950	S7B325MW01 01	AQ	G	11	3	1	1		1	3	1	1		
↓	0945	S7B325MW04 01	AQ	G	11	3	1	1		1	3	1	1		
↓	1530	S7B325MW03 01	AQ	G	11	3	1	1		1	3	1	1		

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY K. E. Simpson	7.10.00	08:35	1. RECEIVED BY [illegible]	7.10.00	08:35
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS NOTE: ALL DISSOLVED METALS SAMPLE ID END WITH "F" ON THE BOTTLE LABEL

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

FORM NO TINUS-001 3/99

TETRA TECH NUS, INC. CHAIN OF CUSTODY | NUMBER 070700 - 2 | PAGE 1 OF 2

PROJECT NO: CTO 312 # 7856	SITE NAME: NSB-NION
PROJECT MANAGER AND PHONE NUMBER	DAVE CERCONE 412 921 8194
LABORATORY NAME AND CONTACT:	APCL
SAMPLERS (SIGNATURE)	K. S. Simpson
FIELD OPERATIONS LEADER AND PHONE NUMBER	STAN CONTI 412 921 8422
ADDRESS	13760 MAGNOLIA AVE
CARRIER/WAYBILL NUMBER	FED EX 8169 3433 4607
CITY, STATE	CHINO, CA

STANDARD TAT ☒
RUSH TAT ☐ ☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

CONTAINER TYPE PLASTIC (P) or GLASS (G): P
PRESERVATIVE USED: 4°C

DATE YEAR 2000	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS: PERCHLORATE								COMMENTS
7.7	1130	S7MW10S 01	AQ	G	1	1								
↓	0000	FD 070700-1	AQ	G	1	1								S7MW10S 01
↓	1530	S7MW01D 01	AQ	G	1	1								
7.8	1000	S7MW08S 01	AQ	G	3	3								RUN ALSO MS/MSD
↓	1355	S7MW02D 01	AQ	G	1	1								
↓	1440	S7MW02S 01	AQ	G	1	1								
7.8	1830	RB 070800 1	AQ	G	1	1								GRUNDFOS + 2.5 TUBING
7.9	0950	S7B325MW01 01	AQ	G	1	1								
↓	0945	S7B325MW04 01	AQ	G	1	1								
↓	1200	WB 070900 1	AQ	G	1	1								SOURCE WATER BLANK
↓	1530	S7B325MW03 01	AQ	G	1	1								
↓	1700	AB 070900 1	AQ	G	1	1								AMBIENT BLANK @ SITE 7
7.10	0910	S7MW07S 01	AQ	G	1	1								

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY K. S. Simpson	7.12.00	1600	1. RECEIVED BY FED EX	7.12.00	1600
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

3/99
FORM NO. TINUS-001

TETRA TECH NUS, INC. CHAIN OF CUSTODY | NUMBER 070700-3 | PAGE 2 OF 2

PROJECT NO:	SITE NAME:	PROJECT MANAGER AND PHONE NUMBER	LABORATORY NAME AND CONTACT:
CTO 312 #7856	NSB · NLON	DAVE CERCONE 412 921 8194	APCL
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER AND PHONE NUMBER	ADDRESS
K. S. Simpson		KEITH SIMPSON 412 921 9131	13760 MAGNOLIA AVE
		CARRIER/WAYBILL NUMBER	CITY, STATE
		FEDEX 8169 3433 4607	CHINO, CA

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

CONTAINER TYPE PLASTIC (P) or GLASS (G): P
PRESERVATIVE USED: 4°C
TYPE OF ANALYSIS: PERCHLORATE

DATE YEAR 2000	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	PERCHLORATE								COMMENTS
7.10	1010	S7B325MW04 01	AQ	G	1	1								
↓	1655	S7MW05S 01	AQ	G	1	1								
↓	0000	FD 071000 1	AQ	G	1	1								S7MW05S01
7.11	0900	S7MW03S01	AQ	G	1	1								
↓	1200	S7MW09S01	AQ	G	1	1								
↓	1205	S7MW06S01	AQ	G	1	1								
↓	1525	S7MW11S01	AQ	G	1	1								
7.12	0750	S7MW05D01	AQ	G	1	1								

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY K. S. Simpson	7.12.00	1600	1. RECEIVED BY FED EX	7.12.00	1600
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

3/99
FORM NO. TINUS-001

TETRA TECH NUS, INC. CHAIN OF CUSTODY | NUMBER 070900-1 | PAGE 1 OF 1

PROJECT NO: 7856	SITE NAME: NSB- NLON	PROJECT MANAGER AND PHONE NUMBER: DAVID CERCONE 412-921-8194	LABORATORY NAME AND CONTACT: CEIMIC - K. WILLIAMSON
SAMPLERS (SIGNATURE): David P. Cercone		FIELD OPERATIONS LEADER AND PHONE NUMBER: KEITH SIMPSON 412-921-8131	ADDRESS: 10 DEAN KNUSS DR.
		CARRIER/WAYBILL NUMBER: CEIMIC PICK UP	CITY, STATE: NARRAGANSETT, RI 02882

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

CONTAINER TYPE PLASTIC (P) or GLASS (G): G G G G G P P P G P

PRESERVATIVE USED: HCl - HCl - - NaOH HNO3 - H2SO4 HCl (Zn Acet + NaOH)

TYPE OF ANALYSIS

DATE YEAR 2000	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	VOCs	SVOCs (minus PAH)	Ethane Ethene Methane	PAHs	PCB + PESTICIDES	Total Metals + HARDNESS	Diss Metals	TESTS, Alk, Sulfate, Cl-	TOC + Ammonia	COD	SULFIDE				COMMENTS
7/9	1200	WB-0709001	AQ	G	16	3	1	3	1	2	1	1	1	1	1	1				DI Source
"	1700	AB-0709001	AQ	G	16	3	1	3	1	2	1	1	1	1	1	1				Ambient Blank

1. RELINQUISHED BY: David P. Cercone	DATE: 7.10.00	TIME: [illegible]	1. RECEIVED BY: [illegible]	DATE: 7.10.00	TIME: [illegible]
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS: NOTE: ALL DISSOLVED METALS SAMPLE ID E WITH 'F' ON THE BOTTLE LABEL

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

3/99
FORM NO. TtNUS-001

TETRA TECH NUS, INC. CHAIN OF CUSTODY | NUMBER 070900-2 | PAGE 1 OF 1

PROJECT NO: 7856	SITE NAME: NSB - NLON	PROJECT MANAGER AND PHONE NUMBER: David Cercone 412 921-8194	LABORATORY NAME AND CONTACT: Southwest
SAMPLERS (SIGNATURE): David P. Cercone		FIELD OPERATIONS LEADER AND PHONE NUMBER: Keith Simpson 412 921-2131	ADDRESS: 1700 W. ALBANY
		CARRIER/WAYBILL NUMBER: FED EX 8169 3433 4629	CITY, STATE: BROKEN ARROW, OK

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

CONTAINER TYPE PLASTIC (P) or GLASS (G): G

PRESERVATIVE USED: —

DATE YEAR 2000	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS: Dioxins	Furans							COMMENTS
7/9	1200	WB-0709001	AQ	G	4	4								SOURCE WATER BLANK
7/9	1700	AB-0709001	AQ	G	4	4								AMBIENT BLANK @ SITE 7

1. RELINQUISHED BY: Keith P. Simpson	DATE 7.10.00	TIME 1630	1. RECEIVED BY: FED EX	DATE 7.10.00	TIME 1630
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

3/99
FORM NO TINUS-001

TETRA TECH NUS, INC. CHAIN OF CUSTODY | NUMBER 0710001 | PAGE 1 OF 2

PROJECT NO:	SITE NAME:	PROJECT MANAGER AND PHONE NUMBER	LABORATORY NAME AND CONTACT:
CTO #312	NSB-NLON	DAVE CERCONE 412 921-3194	CEIMIC KAREN WILLIAMSON
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER AND PHONE NUMBER	ADDRESS
David P. Cercone		KEITH SIMPSON 412 921-8131	10 DEAN KNAUSS DR.
		CARRIER/WAYBILL NUMBER	CITY, STATE
		CEIMIC PICK-UP	NARRAGANSETT RI 02882

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2000	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	TCL VOC 40 ml vials	TCL SVOCs + PAH *	TAL METALS, HARDNESS, TSS, TDS, Alk	SULFATE CHLORIDE	ETHANE, ETHENE METHANE - VIALS	TOC	AMMONIA	SULFIDE	COMMENTS
		CONTAINER TYPE PLASTIC (P) or GLASS (G)				G	G	P	P	G	P	P.		
		PRESERVATIVE USED				HCl	4C	HNO3	4C	HCl	H2SO4	NaOH ZnAc		
7/10	0710	TB 071000 1	AQ	G	2	2								
	0910	S7 MW07S 01	AQ	G	11	3	1	1	1	3	1	1		
	1010	S7 B325 MW04 01	AQ	G	11	3	1	1	1	3	1	1		
	1655	S7MW05S 01	AQ	G	12	3	2	1	1	3	1	1		
	0000	FD 071000 1	AQ	G	12	3	2	1	1	3	1	1		S7MW05S01
7.11	0900	S7MW03S 01	AQ	G	12	3	2	1	1	3	1	1		
	0750	S7 MW05D 01	AQ	G	10	3	2	1	—	3	1	—		
	1200	S7MW09S01	AQ	G	12	3	2	1	1	3	1	1		
	1205	S7MW06S01	AQ	G	12	3	2	1	1	3	1	1		
	1525	S7MW11S01	AQ	G	12	3	2	1	1	3	1	1		
	1710	S7MW03D01	AQ	G	2		2							RE-SAMPLE
	1755	RB 071100 1	AQ	G				1	1		1	1		GRUNDFOS + 20' PE TUBING
7.12	7.12 0730	S7MW05D01	AQ	G	2				1			1		(@ 0730)

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY: R. S. Simpson	7.12.00	1415	1. RECEIVED BY: Richard E. Cline	7.12.00	1415
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS: * Please review contract - required DL's upon SAMPLE LOG IN. [illegible] LOW LEVEL VOC - PAH DL's.

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

3/99
FORM NO. TtNUS-001

TETRA TECH NUS, INC.

CHAIN OF CUSTODY | NUMBER 0710002 | PAGE 2 OF 2

PROJECT NO: CTO 312 # 7856	SITE NAME: NSB-NLON	PROJECT MANAGER AND PHONE NUMBER: DAVE CERCONE 412 921 9194	LABORATORY NAME AND CONTACT: CEIMIC, KAREN WILLIAMSEN
SAMPLERS (SIGNATURE): Keith S. Simpson		FIELD OPERATIONS LEADER AND PHONE NUMBER: KEITH SIMPSON 412 921 8131	ADDRESS: 10 DEAN KNAUSS DR.
		CARRIER/WAYBILL NUMBER: CEIMIC PICK-UP	CITY, STATE: NARRAGANSETT RI 02882

STANDARD TAT ☐
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☒ 72 hr. ☐ 7 day ☐ 14 day

72 HR. TAT

CONTAINER TYPE PLASTIC (P) or GLASS (G): G G G

PRESERVATIVE USED: HCL HCL 4°C

DATE YEAR 2000	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	TCL VOC	40 ML VIALS ETHANE, ETHENE METHANE	TCL SVOC/PAHs QT						COMMENTS
7.11	1755	RB0711001	AQ	G	8	3	3	2						GRUNDFOS + 20' PE TUBING
7.12	1345	RB0712001	AQ	G	8	3	3	2						GRUNDFOS + 20' PE TUBING

1. RELINQUISHED BY: Keith S. Simpson	DATE 7.12.00	TIME 1415	1. RECEIVED BY: Richard D. Cien	DATE 7.12.00	TIME 1415
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

3/99
FORM NO. TtNUS-001

TETRA TECH NUS, INC. CHAIN OF CUSTODY | NUMBER 071200 1 | PAGE 1 OF 1

PROJECT NO:	SITE NAME:	PROJECT MANAGER AND PHONE NUMBER	LABORATORY NAME AND CONTACT:
CTO 312 # 7856	NSB - NLON	DAVE CERONE 412 921 8194	CEIMIC, KAREN WILLIAMSEN
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER AND PHONE NUMBER	ADDRESS
Keith S. Simpson		KEITH SIMPSON 412 921 8131	10 DEAN KNAUSS DR
		CARRIER/WAYBILL NUMBER	CITY, STATE
		CEIMIC PICK-UP	NARRAGANSETT, RI 02882

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2000	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	TCL VOC	40 ml VIAL	TCL SVOC + PAHs	TAL METALS + HARDNESS	TSS, TDS, ALK. SULFATE, CHLORIDE	ETHANE, ETHENE, METHANE	TOC	AMMONIA	SULFIDE	PESTICIDES	COMMENTS
CONTAINER TYPE PLASTIC (P) or GLASS (G)						G	G	P	P	G	P	P	G			
PRESERVATIVE USED						HCL	4°C	HNO_3	4°C	HCL	H_2SO_4	NaOH ZnAc	4°C			
7.12	1010	S3 2DMW29S 04	AQ	G	13	3	2	1	1	3	1	1	1			
↓	1050	S3 2DMW30S 01	AQ	G	13	3	2	1	1	3	1	1	1			
↓	1345	RB 071200 1	AQ	G	5			1	1		1	1	1			

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY Keith S. Simpson	7.12.00	1415	1. RECEIVED BY Richard S. Cim	7.12.00	1415
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

3/99
FORM NO. TtNUS-001

TETRA TECH NUS, INC.

AREA A

CHAIN OF CUSTODY | NUMBER 071900-04 | PAGE 1 OF 1

PROJECT NO: 5082	SITE NAME: NSB-NLON
PROJECT MANAGER AND PHONE NUMBER	MARK MENGEL 412 921 5723
LABORATORY NAME AND CONTACT:	ACCUTEST
SAMPLERS (SIGNATURE)	K. S. Simpson
FIELD OPERATIONS LEADER AND PHONE NUMBER	KEITH SIMPSON 412 921 8131
ADDRESS	2235 ROUTE 130
CARRIER/WAYBILL NUMBER	ACCUTEST PICK-UP
CITY, STATE	DAYTON, NJ 08810

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2000	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	TCL VOC 40 ml VIAL	TCL SVOC (L)	TCL PAH (L)	TCL PEST/PCBs (L)	ALK, CHLORIDE, SULFATE, TDS, TSS	TAL METALS (L)	HARDNESS	DISSOLVED TAL METALS (L)	TOC	COD	COMMENTS
					CONTAINER TYPE PLASTIC (P) or GLASS (G)	G	G	G	G	P	P	P		G	P	
					PRESERVATIVE USED	HCL						HNO3		HCL	H2SO4	
7/18	0705	TB 071900	AQ	G	2	2										TRIP BLANK
↓	000	GWFD 071800-01	AQ	G	14	3	2	2	2	1	1	1	1	1		2WGW47DS04
↓	1600	2WGW47DS04	AQ	G	14	3	2	2	2	1	1	1	1	1		
7-19	0742	2WGW39DS04	AQ	G	14	3	2	2	2	1	1	1	1	1		

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY: K. S. Simpson	7.20.00	0930	1. RECEIVED BY: [illegible]	7.20.00	0930
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS NOTE: SAMPLE ID FOR ALL DISSOLVED ENDS WITH "F" (FILTERED)

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

3/99
FORM NO TINUS-001

AREA A

TETRA TECH NUS, INC.

CHAIN OF CUSTODY

NUMBER 071900-04

PAGE 1 OF 1

PROJECT NO: 5082	SITE NAME: NSB-NION
SAMPLERS (SIGNATURE)	[illegible]
PROJECT MANAGER AND PHONE NUMBER	MARK MENGEL 412 921 9723
FIELD OPERATIONS LEADER AND PHONE NUMBER	KEITH SI
CARRIER/WAYBILL NUMBER	ACCUTEST PICK-UP
LABORATORY NAME AND CONTACT:	ACCUTEST
ADDRESS	2235 ROUTE 130
CITY, STATE	DAYTON, NJ 08810

STANDARD TAT ☐
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2000	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	TCL VOC 40 ml VIAL	TCL SVOC (L)	TCL PAH (L)	TCL PEST/PCB (L)	ALK, CHLORIDE, SULFATE, TDS	TAL METALS HARDNESS	DISSOLVED TAL METALS	TCC	CVD	COMMENTS
CONTAINER TYPE PLASTIC (P) or GLASS (G)						G	G	G	G	P	P	P	G	P	
PRESERVATIVE USED						HCL	-	-	-	-	HNO3	HNO3	HCL	H2SO4	
7.18	0700	TB 071900	AQ	G	2	2									TRIP BLANK
↓	0000	SWD 071900 04	AQ	G	14	3	2	2	2	1	1	1	1	1	SWSG18 04
↓	1705	SWSG-18 04	AQ	G	42	9	6	6	6	3	3	3	3	3	RUN A, SV MS MSD
7.19	0810	SWSG 23 04	AQ	G	14	3	2	2	2	1	1	1	1	1	
↓	0915	SWSG-21 04	AQ	G	14	3	2	2	2	1	1	1	1	1	
↓	0945	SWSG 20 04	AQ	G	14	3	2	2	2	1	1	1	1	1	
↓	1010	SWSG 19 04	AQ	G	14	3	2	2	2	1	1	1	1	1	

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY [illegible]	7.20.00	0930	1. RECEIVED BY [illegible]	7.20.00	0930
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS NOTE: SAMPLE ID FOR DISSOLVED ENDS WITH "F" (FILTERED)

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

3/99

FORM NO. TtNUS-001

TETRA TECH NUS, INC.

CHAIN OF CUSTODY | NUMBER 072100 - 1 | PAGE 1 OF 1

PROJECT NO: CTO 312 # 7856	SITE NAME: NSB - NLON
PROJECT MANAGER AND PHONE NUMBER	DAVE CERCONE 412 921 9194
LABORATORY NAME AND CONTACT:	CLINIC, KAREN WILLIAMSON
SAMPLERS (SIGNATURE)	K. S. Simpson
FIELD OPERATIONS LEADER AND PHONE NUMBER	KEITH SIMPSON 412 921 8131
ADDRESS	10 DEAN KNAUSS DR.
CARRIER/WAYBILL NUMBER	
CITY, STATE	NARRAGANSETT RI 02882

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2000	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	TCL VOC	40 ml VIAL	TCL SVOC, PAHs	TAL METALS	TSS, TDS					COMMENTS
CONTAINER TYPE PLASTIC (P) or GLASS (G)						G	G	P	P						
PRESERVATIVE USED						HCL	4°C	HNO3	4°C						
7.21	0910	TB 072100 1	AQ	G	2	2									TRIP BLANK
	1415	S15 MW1S 01	AQ	G	7	3	2	1	1						
	1710	S15 MW1D 01	AQ	G	7	3	2	1	1						
	1745	S15 MW2S 01	AQ	G	21	9	6	3	3						RUN ALSO MS/MSD
	0000	FD 072100 1	AQ	G	7	3	2	1	1						S15MW2S 01
	1845	RB 072100 1	AQ	G	7	3	2	1	1						GRUNDFOS + 4' TUBING
7.23	1550	S15MW3S 01	AQ	G	7	3	2	1	1						
		~~RB 072300~~ KS													

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY K. S. Simpson	7.24.00	0830	1. RECEIVED BY Karen Williamson	7.24.00	8:30
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

3/99
FORM NO. TtNUS-001

AREA A

TETRA TECH NUS, INC.

CHAIN OF CUSTODY | NUMBER 072100 04 | PAGE 1 OF 1

PROJECT NO: 5082	SITE NAME: NSB - NIUN
PROJECT MANAGER AND PHONE NUMBER	MARK MENGEL 412 921 8723
FIELD OPERATIONS LEADER AND PHONE NUMBER	KEITH SIMPSON 412 921 8131
CARRIER/WAYBILL NUMBER	ACCUTEST PICK-UP
SAMPLERS (SIGNATURE)	K. S. Simpson
LABORATORY NAME AND CONTACT:	ACCUTEST
ADDRESS	2235 ROUTE 130
CITY, STATE	DAYTON, NJ 08810

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2000	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	TCL VOC	TCL SVOC (L)	TCL PAH (L)	TCL PEST/PCB (L)	ANI, CHLORIDE SULFATE TDS TSS	TAL METALS, HARDNESS DISSOLVED	TAL METALS	TOC	COD	COMMENTS
CONTAINER TYPE PLASTIC (P) or GLASS (G)						G	G	G	G	P	P	P	G	P	
PRESERVATIVE USED						HCL	4°C	4°C	4°C	4°C	HNO3	HNO3	HCL	H2SO4	
7.20	0700	TB 072000 2	AQ	G	2	2									TRIP BLANK
7.21	0800	3 MA SP01 04	AQ	G	14	3	2	2	2	1*	1	1	1	1	SEEP
7.20	0730	2W GW39DS 04	AQ	G	7	3	1	1					1	1	LOW VOL. ON AMBER BTS ↓
7.21	1115	2W GW39DS 04	AQ	G	1				1						
7.23	1900	2W GW 38DS 04	AQ	G	1						1				NO DIS. METALS CALL ACCUTEST ADD TO COC 7.25.00 KES
7.21	0750	2W GW43DS 04	AQ	G	14	3	2	2	2	1	1	1	1	1	

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY K. S. Simpson	7.24.00	0730	1. RECEIVED BY [signature]	7.24.00	0730
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS NOTE: SAMPLE ID FOR DISSOLVED MIX WITH "F" (FILTERED) - * NO TSS ON SEEP

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

3/99

F TINUS-001

TETRA TECH NUS, INC. CHAIN OF CUSTODY | NUMBER 072200-1 | PAGE 1 OF 1

PROJECT NO: CTO 312 # 7856	SITE NAME: NSB - NLON	PROJECT MANAGER AND PHONE NUMBER: DAVE CERCONE 412 921 8194	LABORATORY NAME AND CONTACT: CEIMIC, KAREN WILLIAMSEN
SAMPLERS (SIGNATURE): Keith S. Simpson		FIELD OPERATIONS LEADER AND PHONE NUMBER: KEITH SIMPSON 412 921 8131	ADDRESS: 10 DEAN KNAUSS DR.
		CARRIER/WAYBILL NUMBER: CEIMIC PICK-UP	CITY, STATE: NARRAGANSETT, RI 02882

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2000	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	TCL VOC 40 ml vial	TCL SVOC/PAH	TCL PEST.	TAL METALS, HARDNESS	TSS, TDS, ALK, SULFATE, CHLORIDE	ETHANE, ETHENE, METHANE 40 ml vial	TOC, AMMONIA	SULFIDE	COMMENTS
		CONTAINER TYPE PLASTIC (P) or GLASS (G)				G	G	G	P	P	G	P	P	
		PRESERVATIVE USED				HCL	4°C	4°C	HNO_3	4°C	HCL	H_2SO_4	NaOH ZnAc	
7.22	1155	S3 2DMW25D 01	AQ	G	13	3	2	1	1	1	3	1	1	
↓	1235	S3 2D MW25S 01	AQ	G	13	3	2	1	1	1	3	1	1	
	1645	S3 2D MW26S 01	AQ	G	13	3	2	1	1	1	3	1	1	
↓	1755	S3 2D MW26D 01	AQ	G	13	3	2	1	1	1	3	1	1	
7.23	1020	S3 2D MW28D 01	AQ	G	13	3	2	1	1	1	3	1	1	
↓	1105	S3 2D MW28S 01	AQ	G	13	3	2	1	1	1	3	1	1	
↓	1700	RB072300 1	AQ	G	13	3	2	1	1	1	3	1	1	GRUNDFOS + 4 TUBING

1. RELINQUISHED BY: Keith S. Simpson	DATE 7.24.00	TIME 0830	1. RECEIVED BY: Karen Williamson	DATE 7.24.00	TIME 8:30
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

3/99
FORM NO. TINUS-001

AREA A

TETRA TECH NUS, INC.

CHAIN OF CUSTODY | NUMBER 072000 - 04 | PAGE 1 OF 1

PROJECT NO: 5082	SITE NAME: NSB-NLON	PROJECT MANAGER AND PHONE NUMBER: MARK MENGEL 412 921 8723	LABORATORY NAME AND CONTACT: ACCUTEST
SAMPLERS (SIGNATURE): K. S. Simpson		FIELD OPERATIONS LEADER AND PHONE NUMBER: KEITH SIMPSON 412 921 8131	ADDRESS: 2235 ROUTE 130
		CARRIER/WAYBILL NUMBER: ACCUTEST PICK-UP	CITY, STATE: DAYTON, NJ 08810

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

CONTAINER TYPE PLASTIC (P) or GLASS (G): G G G G P P P G P

PRESERVATIVE USED: HCL 4°C 4°C 4°C 4°C HNO3 HNO3 HCL H2SO4

TYPE OF ANALYSIS

DATE YEAR 2000	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	TCL VOC 40 ml VIAL	TCL SVOC (L)	TCL PAH (L)	TCL PEST/PCBs (L)	ALK, CHLORIDE, SULFATE, TDS, TSS	TAL METALS HARDNESS	DISSOLVED (L)	TAL METALS (L)	TOC	COD	COMMENTS
7.20	0900	TB072000	AQ	G	2	2										TRIP BLANK
	0725	2WGW42DS04	AQ	G	14	3	2	2	2	1	1	1	1	1		
	0915	2WGW46DS04	AQ	G	14	3	2	2	2	1	1	1	1	1		
	0925	2WGW41DS04	AQ	G	14	3	2	2	2	1	1	1	1	1		
	1215	2WGW44DS04	AQ	G	14	3	2	2	2	1	1	1	1	1		
	1245	2WGW40DS04	AQ	G	14	3	2	2	2	1	1	1	1	1		
	1940	2WGW45DS04	AQ	G	14	3	2	2	2	1	1	1	1	1		
	1510	3GW37S04	AQ	G	14	3	2	2	2	1	1	1	1	1		
	1810	3GW12D04	AQ	G	14	3	2	2	2	1	1	1	1	1		~~CALL LAB~~

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY K. S. Simpson	7.21.00	0735	1. RECEIVED BY	7.21.00	0735
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS: NOTE: SAMPLE ID FOR ALL DISSOLVED ENDS WITH F (FILTERED)

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

3/99

FORM NO TINUS-001

TETRA TECH NUS, INC. CHAIN OF CUSTODY | NUMBER 072400-1 | PAGE 1 OF 2

PROJECT NO: CT0312 #7856
SITE NAME: NSB-NLON
PROJECT MANAGER AND PHONE NUMBER: DAVE CERCONE 412 921 8194
LABORATORY NAME AND CONTACT: CLIMIC, KAREN WILLIAMSEN
SAMPLERS (SIGNATURE): Keith S. Simpson
FIELD OPERATIONS LEADER AND PHONE NUMBER: KEITH SIMPSON 412 921 8131
ADDRESS: 10 DLAN KNAUSS DR
CARRIER/WAYBILL NUMBER:
CITY, STATE: NARRAGANSETT, RI 02882

STANDARD TAT ☐
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2000	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	TCL VOC	40 ML VIAL TCL SVOC, PAH	TAL METALS	TSS, TDS	ETHANE, ETHENE, METHANE	MAIS SULFIDE	ALK, SULFATE, CHLORIDE	HARDNESS	TOC, AMMONIA	COMMENTS
CONTAINER TYPE PLASTIC (P) or GLASS (G)						G	G	P	P	G	P	P	P	P	
PRESERVATIVE USED						HCL	4°C	HNO3	4°C	HCL	NaOH ZnAC	4°C	HNO3 H2SO4		
7.24	0910	TB 072400 1	AQ	G	2	2									
↓	1650	S202WMW40 01	AQ	G	7	3	2	1	1						
7.25	0820	S202WCMW1S 01	AQ	G	7	3	2	1	1						
	0940	S202WCMW2S 01	AQ	G	7	3	2	1	1						
↓	1545	RB 072500 1	AQ	G	7	3	2	1	1						
↓	1440	S3 MW14S 01	AQ	G	10	3				3	1	1	1	1	
7.26	0800	S202WCMW3S 01	AQ	G	6	3	2	1							LOW VOC WILL COMPLETE 7.27.00

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY: Keith S. Simpson	7.26.00	1115	1. RECEIVED BY: D. White	7.26.00	1115
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

3/99
FORM NO. TtNUS-001

TETRA TECH NUS, INC. CHAIN OF CUSTODY | NUMBER 072400-1 | PAGE 2 OF 2

PROJECT NO: CTO 312 # 7856	SITE NAME: NSB-NLON	PROJECT MANAGER AND PHONE NUMBER: DAVE CERCONE 412 921 8194	LABORATORY NAME AND CONTACT: CEIMIC · K. WILLIAMSEN
SAMPLERS (SIGNATURE): [signature]		FIELD OPERATIONS LEADER AND PHONE NUMBER: KEITH SIMPSON 412 921 8131	ADDRESS: 10 DEAN KNAUS DR
		CARRIER/WAYBILL NUMBER: CEIMIC PICK-UP	CITY, STATE: NARRAGANSETT, RI 02882

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE - YEAR 2000	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	TCL VOC	AQ PAL KIAS	TCL SVOC, PAH's	TAL METALS + HARDNESS	TSS, TDS, ALK., SULFATE, CHLORIDE	ETHANE, ETHENE, METHANE (KIAS)	TOC	AMMONIA	SULFIDE	PESTICIDES	COMMENTS
					CONTAINER TYPE PLASTIC (P) or GLASS (G)	G	G	P	P	G	P	P	G		
					PRESERVATIVE USED	HCL	4°C	HNO3	4°C	HCL	H2SO4	NaOH ZnAc	4°C		
7-25	1645	532DMW23D 01	AQ	G	13	3	2	1	1	3	1	1	1		

1. RELINQUISHED BY [signature]	DATE 7-26-00	TIME 1115	1. RECEIVED BY [signature]	DATE 7-26-00	TIME 1115
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

3/99
FORM NO. TINUS-001

TETRA TECH NUS, INC. CHAIN OF CUSTODY | NUMBER 073100-1 | PAGE 1 OF 1

PROJECT NO: CTO 312 #7956	SITE NAME: NSB-NLON	PROJECT MANAGER AND PHONE NUMBER: DAVE CERCONE 412 921 8194	LABORATORY NAME AND CONTACT: CEIMIC, KAREN WILLIAMSEN
SAMPLERS (SIGNATURE): K. S. Simpson		FIELD OPERATIONS LEADER AND PHONE NUMBER: KEITH SIMPSON 412 921 8131	ADDRESS: 10 DEAN KNAUSS DR.
		CARRIER/WAYBILL NUMBER: CEIMIC PICK-UP	CITY, STATE: NARRAGANSETT, RI 02882

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

CONTAINER TYPE PLASTIC (P) or GLASS (G): P P G

PRESERVATIVE USED: 4°C, HNO_3, HCl

DATE YEAR 2000	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS: TSS, TDS	DISSOLVED TAL METALS	TCL VOC 40 ml VIAL						COMMENTS
7.27	0831	S202WCMW3S01	AQ	G	2	1	1							
7.31	BA5	TB073100 1	AQ	G	2			2						TRIP BLANK

1. RELINQUISHED BY: K. S. Simpson	DATE 8.2.00	TIME 0750	1. RECEIVED BY: [illegible]	DATE 8.2.00	TIME 0750
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS: NOTE: DISSOLVED SAMPLE ID END WITH "F" ON THE SAMPLE ID (FILTERED)

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

3/99
FORM NO TINUS-001

TETRA TECH NUS, INC. CHAIN OF CUSTODY | NUMBER 073100-2 | PAGE 1 OF 1

PROJECT NO: CTO 312 # 7856	SITE NAME: NSB-NION	PROJECT MANAGER AND PHONE NUMBER: DAVE CERCONE 412 921 8194	LABORATORY NAME AND CONTACT: APCL
SAMPLERS (SIGNATURE): [signature]		FIELD OPERATIONS LEADER AND PHONE NUMBER: KEITH SIMPSON 412 921 8131	ADDRESS: 13760 MAGNOLIA AVE
		CARRIER/WAYBILL NUMBER: FEDEX AB# 8169 3433 4560	CITY, STATE: CHINO, CA

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

CONTAINER TYPE: PLASTIC (P) or GLASS (G) — P
PRESERVATIVE USED — 4°C

DATE YEAR 2000	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS: PERCHLORATE								COMMENTS
7.27	0931	S202WCMW3S 01	AQ	G	1	1								
7.24	1650	S202WMW4D 01	AQ	G	1	1								
7.25	0920	S202WCMW1S 01	AQ	G	1	1								
↓	0940	S2 2WCMW2S 01	AQ	G	1	1								
↓	1545	RB 072500 1	AQ	G	1	1								

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY [signature]	8.1.00	1620	1. RECEIVED BY FEDEX	8.1.00	1620
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

3/99
FORM NO. TINUS-001

TETRA TECH NUS, INC. CHAIN OF CUSTODY | NUMBER 073100-3 | PAGE 1 OF 1

PROJECT NO: CTO 312 # 7856
SITE NAME: NSB-NLON
PROJECT MANAGER AND PHONE NUMBER: DAVE CERCONE 412 921 8194
LABORATORY NAME AND CONTACT: CEIMIC, R. WILLIAMSEN
SAMPLERS (SIGNATURE): Keith S. Simpson
FIELD OPERATIONS LEADER AND PHONE NUMBER: KEITH SIMPSON 412 921 8131
ADDRESS: 10 DEAN KNAUS DR.
CARRIER/WAYBILL NUMBER: CEIMIC PICK-UP
CITY, STATE: NARRAGANSETT, RI 02882

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2000	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	TCL VOC	40 ml VIAL	TCL SVOC, PAH	TAL METALS + HARDNESS	DIS. TAL METALS	TSS, TDS, ALK., SULFATE, CHLORIDE	ETHANE, ETHENE, METHANE (MAIL)	TOC	AMMONIA	SULFIDE	PEST.	COMMENTS
		CONTAINER TYPE PLASTIC (P) or GLASS (G)				G	G	P	P	P	G	P	P				
		PRESERVATIVE USED				HCL	4°C	HNO_3	HNO_3	4°C	HCL	H_2SO_4	NaOH, ZNAC, 4°C				
7.31	1650	53 2DMW16S 01	AQ	G	14	3	2	1	1	1	3	1	1	1			
↓	1925	53 2DMW16D 01	AQ	G	13	3	2	1		1	3	1	1	1			
8.1	0805	RB080100 1	AQ	G	14	3	2	1		1	3	1	1	1			GROUNDFOS + TUBING

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY Keith S. Simpson	8.2.00	0750	1. RECEIVED BY [illegible]	8.2.00	0750
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS: NOTE: DISSOLVED SAMPLE ID END WITH "F" ON THE SAMPLE ID (FILTERED)

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

3/99
FORM NO TtNUS-001

TETRA TECH NUS, INC.

CHAIN OF CUSTODY | NUMBER 080200 - 1 | PAGE 1 OF 1

PROJECT NO: CTO 312 # 7856	SITE NAME: NSB - NLON
PROJECT MANAGER AND PHONE NUMBER	DAVE CERCONE 412 921 9194
LABORATORY NAME AND CONTACT:	CEIMIC, R. WILLIAMSEN
SAMPLERS (SIGNATURE)	K. S. Simpson
FIELD OPERATIONS LEADER AND PHONE NUMBER	KEITH SIMPSON 412 921 8131
ADDRESS	10 DEAN KNAUSS DR.
CARRIER/WAYBILL NUMBER	CEIMIC PICK-UP
CITY, STATE	NARRAGANSETT, RI 02882

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2000	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	TCL VOC	40 MAL MAL	TCL SVOC, PAH	TAL METALS, + HARDNESS	TSS, TDS, ALK, SULFATE, CHLORIDE	ETHANE, ETHENE, METHANE	TOC	AMMONIA	SULFIDE	PEST	DISSOLVED METALS	PCB/PEST	COMMENTS
		CONTAINER TYPE PLASTIC (P) or GLASS (G)				G	G	P	P	G	P	P	G	P				
		PRESERVATIVE USED				HCL	4°C	HNO3	4°C	HCL	H2SO4	NaOH, ZN AC	4°C	HNO3 4°C				
8.2	0735	TB080200 1	AQ	G	2	2												TRIP BLANK
	0000	FD 080200 1	AQ	G	13	3	2	1	1	3	1	1	1			532DMW24D01		
	1402	S32DMW24S01	AQ	G	13	3	2	1	1	3	1	1	1					
	1407	S32DMW24D01	AQ	G	39	9	6	3	3	9	3	3	3					RUN ALSO MS/MSD
	1855	S32DMW10D01	AQ	G	14	3	2	1	1	3	1	1	1	1				
	1937	S32DMW15D01	AQ	G	13	3	2	1	1	3	1	1	1					
8.3	0935	RB 080300 1	AQ	G	13	3	2	1	1	3	1	1	1					GRUNDFOS + TUBING
	1215	S32DMW27D01	AQ	G	13	3	2	1	1	3	1	1	1					
	1640	S23HNUSS01	AQ	G	14	3	2	1	1	3	1	1			2			

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY K. S. Simpson	8.4.00	0755	1. RECEIVED BY R. Williams	8.4.00	0755
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS: NOTE: DISSOLVED SAMPLE ID ENDS W/ "F" (FILTERED)

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

3/99
FORM NO. TINUS-001

TETRA TECH NUS, INC. CHAIN OF CUSTODY | NUMBER 080400-1 | PAGE 1 OF 1

PROJECT NO: CTO 312 # 7956
SITE NAME: NSB-NLON
PROJECT MANAGER AND PHONE NUMBER: DAVE CERCONE 412 921 8194
LABORATORY NAME AND CONTACT: CEIMIC - K. WILLIAMSEN
SAMPLERS (SIGNATURE): KEITH S. Simpson
FIELD OPERATIONS LEADER AND PHONE NUMBER: KEITH SIMPSON 412 921 8131
ADDRESS: 10 DEAN KNAUSS DR.
CARRIER/WAYBILL NUMBER: CEIMIC PICK-UP
CITY, STATE: NARRAGANSETT, RI 02882

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2000	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	TCL VOC 40 ml VIAL	TCL SVOC/PAH	TCL PEST/PCBs	TAL METALS HARDNESS	DISS. TAL METALS	TSS, TDS, ALK.	SULFATE, CHLORIDE	ETHANE, ETHENE METHANE	TOC, AMMONIA	SULFIDE	TSS, TDS	COMMENTS
CONTAINER TYPE PLASTIC (P) or GLASS (G)						G	G	G	P		P		P		G	P	P
PRESERVATIVE USED						HCL	4°C	4°C	HNO_3		HNO_3		4°C		HCL	H_2SO_4 NaOH ZnA	4°C
8.4	0855	TB 080400 1	AQ	G	2	2											TRIP BLANK
↓	1058	S23 HNUS 2 01	AQ	G	15	3	2	2	1	1	1	3	1	1			
↓	1725	S23 MW04D 01	AQ	G	14	3	2	2	1		1	3	1	1			
8.5	0925	S32DMW11S 01	AQ	G	13	3	2	1 Δ	1		1	3	1	1			
↓	0940	S14 MW01S 01	AQ	G	5	3			1 *						1		
↓	1620	S23 HNUS 20 01	AQ	G	14	3	2	2	1		1	3	1	1			
8.6	0000	FD 080600 1	AQ	G	~~4~~ 15	3	2	2	1	~~1~~ KS ~~1~~	1	3	1	1			S23MW02D 01
↓	1100	S23 MW02D 01	AQ	G	~~4~~ 15	3	2	2	1		1	3	1	1			
↓	1335	S23 HNUS 11 01	AQ	G	15	3	2	2	1		1	3	1	1			
↓	1525	S23 MW02S01 ×	AQ	G	15	3	2	2	1	1	1	3	1	1			
↓	1555	S23 MW03D 01	AQ	G	14	3	2	2	1		1	3	1	1			
↓	1700	RB 080600 1	AQ	G	15	3	2	2	1	1	1	3	1	1			PERISTALTIC PUMP TUBING

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY: K. S. Simpson	8.7.00	0805	1. RECEIVED BY: R. Whole	8.7.00	0805
2. RELINQUISHED BY			2. RECEIVED BY		
3. RELINQUISHED BY			3. RECEIVED BY		

COMMENTS * S14MW01S01 DO NOT RUN HARDNESS, Δ ~~S14M~~ S32DMW11S01 TCL PEST ONLY NO PCB

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

3/99
FORM NO. TtNUS-001

NOTE: DISSOLVED SAMPLE ID ENDS WITH "F" (FILTERED)

TETRA TECH NUS, INC. CHAIN OF CUSTODY | NUMBER 080700 1 | PAGE 1 OF 1

PROJECT NO:	SITE NAME:	PROJECT MANAGER AND PHONE NUMBER	LABORATORY NAME AND CONTACT:
CTO 312 # 7856	NSB-NLON	DAVE CERCONE 412 921 8194	CEIMIC, K. WILLIAMSEN
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER AND PHONE NUMBER	ADDRESS
K. S. Simpson		KEITH SIMPSON 412 921 8131	10 DEAN KNAUSS DR
		CARRIER/WAYBILL NUMBER	CITY, STATE
		CEIMIC. PICK-UP	NARRAGANSETT, RI

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2000	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	TCL VOC	40 ML VIALS	TCL SVOC/PAH	TCL PEST/PCB	TAL METALS + HARDNESS	TSS, TDS, ALK, SULFATE, CHLORIDE	ETHANE, ETHENE, METHANE	TOC, AMMONIA	SULFIDE	COMMENTS
		CONTAINER TYPE PLASTIC (P) or GLASS (G)				G	G	G	P	P	G	P	P		
		PRESERVATIVE USED				HCL	4°C	4°C	HNO3	4°C	HCL	H2SO4	NaOH, ZnAc		
8.7	0730	TB 080700 1	AQ	G	2	2									
↓	1025	S23 HNUS 13 01	AQ	G	14	3	2	2	1	1	3	1	1		

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY K. S. Simpson	8.9.00	1120	1. RECEIVED BY R. White	8.9.00	1120
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

3/99
FORM NO. TINUS-001

TETRA TECH NUS, INC. CHAIN OF CUSTODY | NUMBER 080700-2 | PAGE 1 OF 1

PROJECT NO: CTO 312 # 7956	SITE NAME: NSB-NLON	PROJECT MANAGER AND PHONE NUMBER: DAVE CERCONE 412 921 8194	LABORATORY NAME AND CONTACT: CEIMIC / L. WILLIAMSON
SAMPLERS (SIGNATURE): K. S. Simpson		FIELD OPERATIONS LEADER AND PHONE NUMBER: KEITH SIMPSON 412 921 8131	ADDRESS: 10 DEAN KNAUSS DR
		CARRIER/WAYBILL NUMBER: CEIMIC PICK-UP	CITY, STATE: NARRAGANSETT, RI

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2000	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	TCL VOC	40 MIL VIALS	TCL SVOC/PAH	TCL PEST/PCB	TAL METALS	DISSOLVED TAL METALS	TSS, TDS			COMMENTS
CONTAINER TYPE PLASTIC (P) or GLASS (G)						G	G	G	P	P	P				
PRESERVATIVE USED						HCL	4°C	4°C	HNO_3	HNO_3	4°C				
8-7	1100	S8MW05S 01	AQ	G	10	3	2	2	1	1	1				
	1505	S8MW02S 01	AQ	G	27	9	6	6	3		3				RUN ALSO MS/MSD
	1630	S8MW02D 01	AQ	G	9	3	2	2	1		1				
8-8	0000	FD 080800 1	AQ	G	9	3	2	2	1		1				S8MW06S 01
	0855	S8MW06S 01	AQ	G	9	3	2	2	1		1				
	1000	S8MW06D 01	AQ	G	9	3	2	2	1		1				
	1155	S8MW03 01	AQ	G	9	3	2	2	1		1				
	1335	S8MW04 01	AQ	G	9	3	2	2	1		1				
	1655	S8MW01 01	AQ	G	9	3	2	2	1		1				
8-9	0705	RB 080900 1	AQ	G	9	3	2	2	1		1				GRUNDFOS + TUBING

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY K. S. Simpson	8-9-00	1120	1. RECEIVED BY [illegible]	8-9-00	1120
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS NOTE: DISSOLVED SAMPLE ID ENDS WITH "F" (DISSOLVED/FILTERED)

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

3/99
FORM NO. TINUS-001

ROUND 02 BACKGROUND

TETRA TECH NUS, INC. CHAIN OF CUSTODY | NUMBER 080700-3 | PAGE 1 OF 1

PROJECT NO:	SITE NAME:	PROJECT MANAGER AND PHONE NUMBER	LABORATORY NAME AND CONTACT:
CTO 312 #7956	NSB-NLON	DAVE CERCONE 412 921 8194	CLINIC, R. WILLIAMSON
SAMPLERS (SIGNATURE) K. S. Simpson		FIELD OPERATIONS LEADER AND PHONE NUMBER: KEITH SIMPSON 412 921 8131	ADDRESS: 10 DEAN KNAUSS DR.
		CARRIER/WAYBILL NUMBER: CLINIC PICK-UP	CITY, STATE: NARRAGANSETT, RI

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2000	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	TCL VOC	40 MIL VOA	TCL SVOC/PAH	TCL PEST/PCB	TAL METALS	DISSOLVED TAL METALS	TSS, TDS CHLORIDES			COMMENTS
CONTAINER TYPE PLASTIC (P) or GLASS (G)						G	G	G	P	P	P				
PRESERVATIVE USED						HCL	4°C	4°C	HNO3	HNO3	4°C				
9-8	1640	S8MW10S 02	AQ	G	10	3	2	2	1	1	1				

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY K. S. Simpson	8-9-00	1120	1. RECEIVED BY R. Williams	8-9-00	1120
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS NOTE: DISSOLVED SAMPLE ID END WITH F (FILTERED)

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

3/99
FORM NO. TtNUS-001

Round 02 Background

TETRA TECH NUS, INC. CHAIN OF CUSTODY | NUMBER 081600-1 | PAGE 1 OF 1

PROJECT NO:	SITE NAME:	PROJECT MANAGER AND PHONE NUMBER	LABORATORY NAME AND CONTACT:
CTO 312 #7856	NSB - NLON	Dave Cercone 412 921 8194	CEIMIC R. Williamson
SAMPLERS (SIGNATURE) Donald Wlaber		FIELD OPERATIONS LEADER AND PHONE NUMBER: Keith Simpson 412 921 8131	ADDRESS: 10 Dean Knauss Dr.
		CARRIER/WAYBILL NUMBER: Climic Pick-up	CITY, STATE: Narragansett, RI

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2000	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	TCL VOC 40 ml vial	TCL SVOC / PAH	TCL Pest / PCB	TAL Metals	Dissolved TAL Metals	TSS, TDS, Chloride	TSS, TDS	COMMENTS
CONTAINER TYPE PLASTIC (P) or GLASS (G)						G	G	G	P	P	P	P	
PRESERVATIVE USED						HCl	4°C	4°C	HNO3	HNO3	4°C	4°C	
8-16	1410	TB 0816001	AQ	G	2	2							Trip Blank
8-16	1655	S2WMW21D02	AQ	G	10	3	2	2	1	1	1		
8-16	1745	S2WMW21S02	AQ	G	10	3	2	2	1	1	1		
8/17	1115	S23MW01D02	AQ	G	10	3	2	2	1	1	1		
8/17	0000	FD0817001	AQ	G	10	3	2	2	1	1	1		S23MW01D02
8/17	1140	S23MW01S02	AQ	G	10	3	2	2	1	1	1		
8/17	1900	DW ~~S23~~ S2LMW20S02	AQ	G	10	3	2	2	1	1	1		
8/17	1905	S2LMW35B02	AQ	G	10	3	2	2	1	1		1	
8/18	0755	RB0818001	AQ	G	10	3	2	2	1	1	1		Rinsate Blank
8/18	1050	S4MW01S02	AQ	G	10	3	2	2	1	1		1	
8/18	1217	S23HNVS2302	AQ	G	10	3	2	2	1	1	1		

1. RELINQUISHED BY	DATE	TIME	1. RECEIVED BY	DATE	TIME
Donald Wlaber	8-18-00	1320	Robert Dam	8-18-00	1320
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS: Dissolved sample I.D. ends with "F" (Filtered)

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

3/99
FORM NO. TINUS-001

Round 02 Background

TETRA TECH NUS, INC. | CHAIN OF CUSTODY | NUMBER 081900 | PAGE 1 OF 1

PROJECT NO:	SITE NAME:	PROJECT MANAGER AND PHONE NUMBER	LABORATORY NAME AND CONTACT:
CTO 312 #7856	NSB-NLON	Dave Cercone 412 921 8194	Ceimic R. Williamson
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER AND PHONE NUMBER	ADDRESS
[signature]		Keith Simpson 412 921 8131	10 Dean Knauss Dr.
		CARRIER/WAYBILL NUMBER	CITY, STATE
		CEIMIC PICK-UP	Narragansett, RI

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2000	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	TCL VOC 40ml Vial	TCL SVOC/PAH	TCL PEST/PCB	TAL Metals	Dissolved TAL Metals	TSS, TDS, Chloride	TSS, TDS	COMMENTS
CONTAINER TYPE PLASTIC (P) or GLASS (G)						G	G	G	P	P	P	P	
PRESERVATIVE USED						HCl	4°C	4°C	HNO_3	HNO_3	4°C	4°C	
8-19	0645	TB0819001	AQ	G	2	2	2						Trip Blank
8-19	1800	S2WMW22S02	AQ	G	10	3	2	2	1	1	1		
8-19	1735	S2WMW22D02	AQ	G	10	3	2	2	1	1	1		
8-19	0945	S8MW09S01	AQ	G	9	3	2	2	1			1	
8-21	1000	RB082100 1	AQ	G	10	3	2	2	1	1	1		
8-22	0910	S8MW09D02	AQ	G	10	3	2	2	1	1	1		

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY [signature]	8.22.00	1215	1. RECEIVED BY [signature]	8.22.00	1215
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS RB0821001 Rinsate through Grafos PE tubing | DISSOLVED ID ONDS MATTI 1 (P [illegible])

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

3/99
FORM NO. TtNUS-001

APPENDIX A.10

NATURAL ATTENUATION DATA

SITE 3 – AREA A DOWNSTREAM AND WATER COURSES - NATURAL ATTENUATION

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NSB NLON, CT

Project No.: CT 312

Sampled By: KS/ FW

Sample ID No.: 53MW14S 01

Sample Location: 3MW14S

Duplicate: ☐

SAMPLING DATA:

	Color (Visual)	pH (SU)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (Meter, mg/l)	Sal. (%)	ORP mV
Date: 7.25.00								
Time: 1440								
Method: GRUNDFOS	CLEAR	6.19	0.316	15.1	3.6	8.78	0	68

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Divalent Iron

Equipment: HACH IR-18C

Analysis Time: 1437

Concentration: 0 mg/L

Notes: @ WELL HEAD

Carbon Dioxide:

Equipment: Chemetrics Test Kit

Analysis Time: 1443

Range Used:	Range	Concentration ppm
☒	10 to 100 ppm	22
☐	100 to 1000 ppm	
☐	250 to 2500 ppm	

Concentration: 22 ppm

Notes: @ WELL HEAD

Dissolved Oxygen

Equipment: Chemetrics Test Kit

Analysis Time: 1441

Range Used:	Range	Concentration ppm
☐	0 to 1 ppm	
☒	1 to 12 ppm	8

Concentration: 8 ppm

Notes: @ WELL HEAD

Hydrogen Sulfide

Equipment: HACH HS-C

Analysis Time: 1439

Concentration: 0 mg/L

Notes: @ WELL HEAD

KS

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NSB NLON, CT
Project No.: CTO 312
Sampled By: KS / FW

Sample ID No.: S3MW145 01
Sample Location: 3MW145
Duplicate: ☐

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Sulfate:

Equipment: HACH DR-850 Colorimeter
Analysis Time: 1510
Program No.: KS ~~91~~ 92
16 x 1.33 = 21.28 mg/L
Concentration: 21 mg/L
Filtered: ☐
Notes:
CORRECT FACTOR = 1.33

Manganese:

Equipment: HACH DR-850 Colorimeter
Analysis Time: 1515
Program No.: 41
Concentration: 0.7 mg/L
Filtered: ☐
Notes:

Nitrite:

Equipment: HACH DR-850 Colorimeter
Analysis Time: 1523
Program No.: 62
Concentration: 0.005 mg/L
Reagent Blank Correction: ☐
Standard Solution: ☐ Results: _____
Notes:

Nitrate:

Equipment: HACH DR-850 Colorimeter
Analysis Time: 1541
Program No.: 55
Concentration: >0.55 mg/L LIMIT
Nitrite Interference Treatment: ☑ YES
Standard Solution: ☐ Results: _____
Reagent Blank Correction: ☐
Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____
Notes:

KS

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NSB NLON, CT

Project No.: CT 312

Sampled By: CHUCK M.

Sample ID No.: S3 2DMW 10D 01

Sample Location: 2DMW10D

Duplicate: ☐

SAMPLING DATA:

Date: 8.2.00 / Time: 1855	Color TO CT BIN (Visual)	pH (SU)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (Meter, mg/l)	Sal. (%)	ORP mV
Method: GRUNDFOS	CLEAR	6.43	0.298	15.9	39	0.26	0	-116

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Divalent Iron

Equipment: HACH IR-18C

Analysis Time: 1920

Concentration: 3.2 mg/L

Notes: @ WELL

Carbon Dioxide:

Equipment: Chemetrics Test Kit

Analysis Time: 1929

Range Used:	Range	Concentration ppm
☒	10 to 100 ppm	30
☐	100 to 1000 ppm	
☐	250 to 2500 ppm	

Concentration: 30 ppm

Notes: @ WELL

Dissolved Oxygen

Equipment: Chemetrics Test Kit

Analysis Time: 1925

Range Used:	Range	Concentration ppm
☒	0 to 1 ppm	1
☒	1 to 12 ppm	1

Concentration: 1 ppm

Notes: @ WELL

Hydrogen Sulfide

Equipment: HACH HS-C

Analysis Time: 1912

Concentration: 0 mg/L

Notes: @ WELL

RES

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NSB NLON, CT

Project No.: CTO 312

Sampled By: CHUCK M.

Sample ID No.: S32DMW10D 01

Sample Location: 2DMW10D

Duplicate: ☐

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Sulfate:

Equipment: HACH DR-850 Colorimeter

Program No.: KS ~~91~~ 92 KS

Concentration: 7 ~~5~~ mg/L

5 x 1.33 = 6.65 mg/L

Analysis Time: 0728 8.3.00

Filtered: ☐

Notes:

Manganese:

Equipment: HACH DR-850 Colorimeter

Program No.: 41

Concentration: 0.6 mg/L

Analysis Time: 2015

Filtered: ☐

Notes:

Nitrite:

Equipment: HACH DR-850 Colorimeter

Program No.: 62

Concentration: 0 mg/L

Analysis Time: 0840 8.3.00

Reagent Blank Correction: ☐

Standard Solution: ☐ Results: ~~8.3.00~~ KS

Notes:

Nitrate:

Equipment: HACH DR-850 Colorimeter

Program No.: 55

Concentration: 0.03 mg/L

Analysis Time: 0915 8.3.00

Nitrite Interference Treatment: ☐

Standard Solution: ☐ Results: _____

Reagent Blank Correction: ☐

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

KS

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NSB NLON, CT

Project No.: CT 312

Sampled By: CHUCK M.

Sample ID No.: S3 2DMW11S 01

Sample Location: 2DMW11S

Duplicate: ☐

SAMPLING DATA:

	Color (Visual)	pH (SU)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (Meter, mg/l)	Sal. (%)	ORP mV
Date: 8·5·00								
Time: 0925								
Method: GROUND FLOW	CLEAR	6.32	0.661	13.2	2.3	0.85	0	162

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Divalent Iron

Equipment: HACH IR-18C

Analysis Time: 0928

Concentration: 0.0 mg/L

Notes: @ WELL

Carbon Dioxide:

Equipment: Chemetrics Test Kit

Analysis Time: 0934

Range Used:	Range	Concentration ppm
☒	10 to 100 ppm	45
☐	100 to 1000 ppm	
☐	250 to 2500 ppm	

Concentration: 45 ppm

Notes: @ WELL

Dissolved Oxygen

Equipment: Chemetrics Test Kit

Analysis Time: 0931

Range Used:	Range	Concentration ppm
☒	0 to 1 ppm	0.4
☐	1 to 12 ppm	

Concentration: 0.4 ppm

Notes: @ WELL

Hydrogen Sulfide

Equipment: HACH HS-C

Analysis Time: 0924

Concentration: 0 mg/L

Notes: @ WELL

KEB

Tetra Tech NUS, Inc.

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Project Site Name: NSB NLON, CT

Project No.: CTO 312

Sampled By: CHUCK M.

Sample ID No.: 53 20MW11S 01

Sample Location: 20MW11S

Duplicate: ☐

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Sulfate:

Equipment: HACH DR-850 Colorimeter

Program No.: KS ~~or~~ 92

Concentration: 93 mg/L

70 X 1.33 = 93.1 MG/L

Analysis Time: 1029

Filtered: ☐

Notes:

CORRECTION FACTOR = 1.33

Manganese:

Equipment: HACH DR-850 Colorimeter

Program No.: 41

Concentration: 1.9 mg/L

Analysis Time: 1036

Filtered: ☐

Notes:

Nitrite:

Equipment: HACH DR-850 Colorimeter

Program No.: 62

Concentration: 0.005 mg/L

Analysis Time: 1048

Reagent Blank Correction: ☐

Standard Solution: ☐ Results: _____

Notes:

Nitrate:

Equipment: HACH DR-850 Colorimeter

Program No.: 55

Concentration: 0.17 mg/L

Analysis Time: 1058

Nitrite Interference Treatment: ☑ YES

Standard Solution: ☐ Results: _____

Reagent Blank Correction: ☐

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

7K 8 8

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NSB NLON, CT
Project No.: CT 312
Sampled By: DON W.

Sample ID No.: 532DMW15D01
Sample Location: 2DMW15D
Duplicate: ☐

SAMPLING DATA:

	Color (Visual)	pH (SU)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (Meter, mg/l)	Sal. (%)	ORP mV
Date: 8-2-00								
Time: 1937								
Method: GRUNDFOS	CLEAR	5.98	0.460	16.3	42	0.39	0	-42

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Divalent Iron

Equipment: HACH IR-18C

Analysis Time: 1950

Concentration: 4 mg/L

Notes: @ WELL

Carbon Dioxide:

Equipment: Chemetrics Test Kit

Analysis Time: 1955

Range Used:	Range	Concentration ppm
☒	10 to 100 ppm	>100
☒	100 to 1000 ppm	140
☐	250 to 2500 ppm	

Concentration: 140 ppm

Notes: @ WELL

Dissolved Oxygen

Equipment: Chemetrics Test Kit

Analysis Time: 1953

Range Used:	Range	Concentration ppm
☒	0 to 1 ppm	0
☐	1 to 12 ppm	

Concentration: 0 ppm

Notes: @ WELL

Hydrogen Sulfide

Equipment: HACH HS-C

Analysis Time: 1945

Concentration: 0 mg/L

Notes: @ WELL

RSJ

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NSB NLON, CT
Project No.: CTO 312
Sampled By: DON W.

Sample ID No.: S3 2DMW15D 01
Sample Location: 2DMW15D
Duplicate: ☐

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Sulfate:

Equipment: HACH DR-850 Colorimeter
Program No.: KS ~~or~~ 92
Concentration: 48 mg/L

36 X 1.33 = 47.88 mg/L

Analysis Time: 0815 8-3-00
Filtered: ☐

Notes:

CORRECTION FACTOR = 1.33

Manganese:

Equipment: HACH DR-850 Colorimeter
Program No.: 41
Concentration: 3.0 mg/L

Analysis Time: 2022
Filtered: ☐

Notes:

Nitrite:

Equipment: HACH DR-850 Colorimeter
Program No.: 62
Concentration: 0 mg/L

Analysis Time: 0850 8-3-00
Reagent Blank Correction: ☐
Standard Solution: ☐ Results: _____

Notes:

Nitrate:

Equipment: HACH DR-850 Colorimeter
Program No.: 55
Concentration: 0.01 mg/L

Analysis Time: 0940 8-3-00
Nitrite Interference Treatment: ☐
Reagent Blank Correction: ☐

Standard Solution: ☐ Results: _____
Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

TK SS

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NSB NLON, CT
Project No.: CT 312
Sampled By: DON W.

Sample ID No.: S3 2DMW16S 01
Sample Location: 2DMW16S
Duplicate: ☐

SAMPLING DATA:

	Color (Visual)	pH (SU)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (Meter, mg/l)	Sal. (%)	ORP mV
Date: 7-31-00								
Time: 1650								
Method: GRUNDFOS	CLEAR	6.65	0.502	17.5	3.5	0.39	0	-68

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Divalent Iron

Equipment: HACH IR-18C

Analysis Time: 1649

Concentration: 0.8 mg/L

Notes: @ WELL HEAD

Carbon Dioxide:

Equipment: Chemetrics Test Kit

Analysis Time: 1655

Range Used:	Range	Concentration ppm
☒	10 to 100 ppm	32
☐	100 to 1000 ppm	
☐	250 to 2500 ppm	

Concentration: 32 ppm

Notes: @ WELL HEAD

Dissolved Oxygen

Equipment: Chemetrics Test Kit

Analysis Time: 1657

Range Used:	Range	Concentration ppm
☒	0 to 1 ppm	0.3
☐	1 to 12 ppm	

Concentration: 0.3 ppm

Notes: @ WELL HEAD

Hydrogen Sulfide

Equipment: HACH HS-C

Analysis Time: 1650

Concentration: 0 mg/L

Notes: @ WELL HEAD

JKS

Tetra Tech NUS, Inc.

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Project Site Name: NSB NLON, CT
Project No.: CTO 312
Sampled By: DON W.

Sample ID No.: 532DMW16S01
Sample Location: 2DMW16S
Duplicate: ☐

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Sulfate:

Equipment: HACH DR-850 Colorimeter
Program No.: KS ~~or~~ 92
Concentration: 15 mg/L

11 X 1.33 = 14.63 mg/L

Analysis Time: 1742
Filtered: ☐

Notes:
CORRECTION FACTOR = 1.33

Manganese:

Equipment: HACH DR-850 Colorimeter
Program No.: 41
Concentration: 1.8 mg/L

Analysis Time: 1748
Filtered: ☐

Notes:

Nitrite:

Equipment: HACH DR-850 Colorimeter
Program No.: 62
Concentration: 0.003 mg/L

Analysis Time: 1756
Reagent Blank Correction: ☐
Standard Solution: ☐ Results: _____

Notes:

Nitrate:

Equipment: HACH DR-850 Colorimeter
Program No.: 55
Concentration: 0.06 mg/L

Analysis Time: 1817
Nitrite Interference Treatment: ☑ YES
Reagent Blank Correction: ☐

Standard Solution: ☐ Results: _____
Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

7/58

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NSB NLON, CT

Project No.: CT 312

Sampled By: CHUCK M.

Sample ID No.: S32DMW16D01

Sample Location: 2DMW16D

Duplicate: ☐

SAMPLING DATA:

	Color (Visual)	pH (SU)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (Meter, mg/l)	Sal. (%) KS	ORP mV
Date: 7.31.00								
Time: 1925								
Method: GRUNDFOS	CLEAR	7.01	2.77	12.8	30	0.36	~~226~~ 0.1	-226

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Divalent Iron

↳ TO LT BRN

Equipment: HACH IR-18C

Analysis Time: 1925

Concentration: 6.0 mg/L

Notes: @ WELL HEAD

Carbon Dioxide:

Equipment: Chemetrics Test Kit

Analysis Time: 1931

Range Used:	Range	Concentration ppm
☒	10 to 100 ppm	60
☐	100 to 1000 ppm	
☐	250 to 2500 ppm	

Concentration: 60 ppm

Notes: @ WELL HEAD

Dissolved Oxygen

Equipment: Chemetrics Test Kit

Analysis Time: 1930

Range Used:	Range	Concentration ppm
☒	0 to 1 ppm	0.1
☐	1 to 12 ppm	

Concentration: 0.1 ppm

Notes: @ WELL HEAD

Hydrogen Sulfide

Equipment: HACH HS-C

Analysis Time: 1927

Concentration: 0 mg/L

Notes: @ WELL HEAD

KS

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NSB NLON, CT

Project No.: CTO 312

Sampled By: CHUCK M.

Sample ID No.: S3 2DMW16D 01

Sample Location: 2DMW16D

Duplicate: ☐

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Sulfate:

Equipment: HACH DR-850 Colorimeter

Program No.: KS ~~ST~~ 92.

75 X 1.33 = 99.75 mg/L

Analysis Time: 0718 8-1-00

Concentration: 100 mg/L

Filtered: ☐

Notes:

CORRECTION FACTOR = 1.33

Manganese:

Equipment: HACH DR-850 Colorimeter

Analysis Time: 1947

Program No.: 41

Concentration: > 47.5 mg/L LIMIT

Filtered: ☐

Notes:

Nitrite:

Equipment: HACH DR-850 Colorimeter

Analysis Time: 0728 8-1-00

Program No.: 62

Concentration: 0 mg/L

Reagent Blank Correction: ☐

Standard Solution: ☐ Results: _____

Notes:

Nitrate:

Equipment: HACH DR-850 Colorimeter

Analysis Time: 0800 8-1-00

Program No.: 55

Concentration: 0 mg/L

Nitrite Interference Treatment: ☐

Standard Solution: ☐ Results: _____

Reagent Blank Correction: ☐

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

TKS

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NSB NLON, CT

Project No.: CT 312

Sampled By: KS / FW

Sample ID No.: S32DMW23D 01

Sample Location: 2D MW23D

Duplicate: ☐

SAMPLING DATA:

	Color (Visual)	pH (SU)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (Meter, mg/l)	Sal. (%)	ORP mV
Date: 7.25.00								
Time: 1845								
Method: GRUNDFOS	CLEAR	5.36	0.092	13.0	4.4	8.20	0	209

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Divalent Iron

Equipment: HACH IR-18C

Analysis Time: 1848

Concentration: 0 mg/L

Notes:

Carbon Dioxide:

Equipment: Chemetrics Test Kit

Analysis Time: 1852

Range Used:	Range	Concentration ppm
☒	10 to 100 ppm	32
☐	100 to 1000 ppm	
☐	250 to 2500 ppm	

Concentration: 32 ppm

Notes:

Dissolved Oxygen

Equipment: Chemetrics Test Kit

Analysis Time: 1850

Range Used:	Range	Concentration ppm
☐	0 to 1 ppm	
☒	1 to 12 ppm	6.5

Concentration: 6.5 ppm

Notes:

Hydrogen Sulfide

Equipment: HACH HS-C

Analysis Time: 1845

Concentration: 0 mg/L

Notes:

7158

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NSB NLON, CT

Project No.: CTO 312

Sampled By: KS / FW

Sample ID No.: S32DMW23D01

Sample Location: 2DMW23D

Duplicate: ☐

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Sulfate:

Equipment: HACH DR-850 Colorimeter

7 x 1.33 = 9.31 mg/L

Analysis Time: 7.26.00 0729

Program No.: KS ~~01~~ 92

Concentration: 9 mg/L

Filtered: ☐

Notes:

CORRECTION FACTOR = 1.33

Manganese:

Equipment: HACH DR-850 Colorimeter

Analysis Time: 7.25.00 1920

Program No.: 41

Concentration: 0 mg/L

Filtered: ☐

Notes:

Nitrite:

Equipment: HACH DR-850 Colorimeter

Analysis Time: 7.26.00 0800

Program No.: 62

Concentration: 0 mg/L

Reagent Blank Correction: ☐

Standard Solution: ☐ Results: _____

Notes:

Nitrate:

Equipment: HACH DR-850 Colorimeter

Analysis Time: 7-26-00 0810

Program No.: 55

Concentration: 0.02 mg/L

Nitrite Interference Treatment: ☐

Standard Solution: ☐ Results: _____

Reagent Blank Correction: ☐

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

KS

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NSB NLON, CT

Project No.: CT 312

Sampled By: DON W.

Sample ID No.: S32DMW24S 01

Sample Location: 2DMW24S

Duplicate: ☐

SAMPLING DATA:

	Color (Visual)	pH (SU)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (Meter, mg/l)	Sal. (%)	ORP mV
Date: 8-2-00								
Time: 1402								
Method: GRUNDFOS	CLEAR	6.49	0.676	20.8	12.2	0.36	0	-157

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Divalent Iron

Equipment: HACH IR-18C

Analysis Time: 1407

Concentration: 5 mg/L

Notes: @ WELL HEAD

Carbon Dioxide:

Equipment: Chemetrics Test Kit

Analysis Time: 1413

Range Used:	Range	Concentration ppm
☒	10 to 100 ppm	60
☐	100 to 1000 ppm	
☐	250 to 2500 ppm	

Concentration: 60 ppm

Notes: @ WELL HEAD

Dissolved Oxygen

Equipment: Chemetrics Test Kit

Analysis Time: 1411

Range Used:	Range	Concentration ppm
☒	0 to 1 ppm	0
☐	1 to 12 ppm	

Concentration: 0 ppm

Notes: @ WELL HEAD

Hydrogen Sulfide

Equipment: HACH HS-C

Analysis Time: 1404

Concentration: 0 mg/L

Notes: @ WELL HEAD

K.E.S

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NSB NLON, CT
Project No.: CTO 312
Sampled By: DON W.

Sample ID No.: S32DMW24S01
Sample Location: 2DMW24S
Duplicate: ☐

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Sulfate:

Equipment: HACH DR-850 Colorimeter
Program No.: KS ~~01~~ 92
Concentration: 13 mg/L
Analysis Time: 1606
Filtered: ☐
Notes:

10 X 1.33 = 13.3 MG/L

CORRECTION FACTOR = 1.33

Manganese:

Equipment: HACH DR-850 Colorimeter
Program No.: 41
Concentration: 2.8 mg/L
Analysis Time: 1631
Filtered: ☐
Notes:

Nitrite:

Equipment: HACH DR-850 Colorimeter
Program No.: 62
Concentration: 0 mg/L
Analysis Time: 1645
Reagent Blank Correction: ☐
Standard Solution: ☐ Results: _____
Notes:

Nitrate:

Equipment: HACH DR-850 Colorimeter
Program No.: 55
Concentration: 0 mg/L
Analysis Time: 1740
Nitrite Interference Treatment: ☐
Standard Solution: ☐ Results: _____
Reagent Blank Correction: ☐
Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____
Notes:

KES

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NSB NLON, CT

Project No.: CT 312

Sampled By: CHUCK M.

Sample ID No.: S3 2DMW24D 01

Sample Location: 2DMW24D

Duplicate: ☐

SAMPLING DATA:

Date: 8.2.00	Color	pH	S.C.	Temp.	Turbidity	DO	Sal.	ORP
Time: 1407	(Visual)	(SU)	(mS/cm)	(°C)	(NTU)	(Meter, mg/l)	(%)	mV
Method: GRUNDFOS	CLEAR	6.38	0.645	17.1	36	0.69	0	-100

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Divalent Iron

Equipment: HACH IR-18C

Analysis Time: 1435

Concentration: 4.2 mg/L

Notes: @ WELL HEAD

Carbon Dioxide:

Equipment: Chemetrics Test Kit

Analysis Time: 1444

Range Used:	Range	Concentration ppm
☒	10 to 100 ppm	48
☐	100 to 1000 ppm	
☐	250 to 2500 ppm	

Concentration: 48 ppm

Notes: @ WELL HEAD

Dissolved Oxygen

Equipment: Chemetrics Test Kit

Analysis Time: 1441

Range Used:	Range	Concentration ppm
☒	0 to 1 ppm	0.4
☐	1 to 12 ppm	

Concentration: 0.4 ppm

Notes: @ WELL HEAD

Hydrogen Sulfide

Equipment: HACH HS-C

Analysis Time: 1421

Concentration: 0 mg/L

Notes: @ WELL HEAD

7 58

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NSB NLON, CT
Project No.: CTO 312
Sampled By: CHUCK M.

Sample ID No.: S3 2DMW24D 01
Sample Location: 2DMW24D
Duplicate: ☐

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Sulfate:

Equipment: HACH DR-850 Colorimeter
Program No.: KS ~~or~~ 92
Concentration: 21 mg/L
Analysis Time: 1612
Filtered: ☐
Notes:

16 X 1.33 = 21.28 mg/L

CORRECT FACTOR = 1.33

Manganese:

Equipment: HACH DR-850 Colorimeter
Program No.: 41
Concentration: 2.1 mg/L
Analysis Time: 1636
Filtered: ☐
Notes:

Nitrite:

Equipment: HACH DR-850 Colorimeter
Program No.: 62
Concentration: 0.001 mg/L
Analysis Time: 1710
Reagent Blank Correction: ☐
Standard Solution: ☐ Results:
Notes:

Nitrate:

Equipment: HACH DR-850 Colorimeter
Program No.: 55
Concentration: 0.03 mg/L
Analysis Time: 1810
Nitrite Interference Treatment: ☑ YES
Standard Solution: ☐ Results:
Reagent Blank Correction: ☐
Standard Additions: ☐ Digits Required: 0.1ml:____ 0.2ml:____ 0.3ml:____
Notes:

7K ES

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NSB NLON, CT
Project No.: CT 312
Sampled By: CHUCK M.

Sample ID No.: FD 080200 01
Sample Location: 2DMW24D
Duplicate: ☒

SAMPLING DATA:

Date: 8-2-00	Color	pH	S.C.	Temp.	Turbidity	DO	Sal.	ORP
Time: 0000	(Visual)	(SU)	(mS/cm)	(°C)	(NTU)	(Meter, mg/l)	(%)	mV
Method: GRUNDFOS	CLEAR	6.38	0.645	17.1	36	0.69	0	-100

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Divalent Iron

Equipment: HACH IR-18C

Analysis Time: 1431

Concentration: 4.2 mg/L

Notes: @ WELL HEAD

Carbon Dioxide:

Equipment: Chemetrics Test Kit

Analysis Time: 1445

Range Used:	Range	Concentration ppm
☒	10 to 100 ppm	45
☐	100 to 1000 ppm	
☐	250 to 2500 ppm	

Concentration: 45 ppm

Notes: @ WELL HEAD

Dissolved Oxygen

Equipment: Chemetrics Test Kit

Analysis Time: 1440

Range Used:	Range	Concentration ppm
☒	0 to 1 ppm	0.4
☐	1 to 12 ppm	

Concentration: 0.4 ppm

Notes: @ WELL HEAD

Hydrogen Sulfide

Equipment: HACH HS-C

Analysis Time: 1418

Concentration: 0 mg/L

Notes: @ WELL HEAD

DUP.

7558

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NSB NLON, CT
Project No.: CTO 312
Sampled By:

Sample ID No.: FD 080200 01
Sample Location: 2DMW24D
Duplicate: ☒

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Sulfate:

Equipment: HACH DR-850 Colorimeter
Program No.: KS ~~or~~ 92
Concentration: 24 mg/L
Notes:

18 X 1.33 = 23.94 MG/L

Analysis Time: 1624
Filtered: ☐

Manganese:

Equipment: HACH DR-850 Colorimeter
Program No.: 41
Concentration: 1.8 mg/L
Notes:

Analysis Time: 1639
Filtered: ☐

Nitrite:

Equipment: HACH DR-850 Colorimeter
Program No.: 62
Concentration: 0.004 mg/L
Notes:

Analysis Time: 1725
Reagent Blank Correction: ☐
Standard Solution: ☐ Results:

Nitrate:

Equipment: HACH DR-850 Colorimeter
Program No.: 55
Concentration: 0.05 mg/L

Analysis Time: 1835
Nitrite Interference Treatment: ☑ YES
Reagent Blank Correction: ☐
Standard Solution: ☐ Results:
Standard Additions: ☐ Digits Required: 0.1ml:____ 0.2ml:____ 0.3ml:____
Notes:

JKS

DUP.

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NSB NLON, CT

Project No.: CT 312

Sampled By: DON W.

Sample ID No.: S3 2DMW25S 01

Sample Location: 2DMW25S

Duplicate: ☐

SAMPLING DATA:

	Color (Visual)	pH (SU)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (Meter, mg/l)	Sal. (%)	ORP mV
Date: 7.22.00								
Time: 1235								
Method: GRUNDFOS	CLEAR	5.35	0.241	20.9	3.6	0.78	0	169

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Divalent Iron

Equipment: HACH IR-18C

Analysis Time: 1236

Concentration: 0.2 mg/L

Notes: @ WELL HEAD

Carbon Dioxide:

Equipment: Chemetrics Test Kit

Analysis Time: 1248

Range Used:	Range	Concentration ppm
☒	10 to 100 ppm	55
☐	100 to 1000 ppm	
☐	250 to 2500 ppm	

Concentration: 55 ppm

Notes: @ WELL HEAD

Dissolved Oxygen

Equipment: Chemetrics Test Kit

Analysis Time: 1242

Range Used:	Range	Concentration ppm
☒	0 to 1 ppm	1
☒	1 to 12 ppm	<1

Concentration: 0.9 ppm

Notes:

Hydrogen Sulfide

Equipment: HACH HS-C

Analysis Time: 1228

Concentration: 0 mg/L

Notes: @ WELL HEAD

KSS

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NSB NLON, CT

Project No.: CTO 312

Sampled By: DON W.

Sample ID No.: S3 2DMW25S 01

Sample Location: 2DMW25S

Duplicate: ☐

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Sulfate:

Equipment: HACH DR-850 Colorimeter

Program No.: KS ~~or~~ 92

Concentration: 5 mg/L

4 X 1.33 = 5.32 mg/L

Analysis Time: 1412

Filtered: ☐

Notes:

CORRECTION FACTOR = 1.33

Manganese:

Equipment: HACH DR-850 Colorimeter

Program No.: 41

Concentration: 0 mg/L

Analysis Time: 1428

Filtered: ☐

Notes:

Nitrite:

Equipment: HACH DR-850 Colorimeter

Program No.: 62

Concentration: 0 mg/L

Analysis Time: 1443

Reagent Blank Correction: ☐

Standard Solution: ☐ Results: _____

Notes:

Nitrate:

Equipment: HACH DR-850 Colorimeter

Program No.: 55

Concentration: 0.02 mg/L

Analysis Time: 1521

Nitrite Interference Treatment: ☐

Standard Solution: ☐ Results: _____

Reagent Blank Correction: ☐

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

KSP

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NSB NLON, CT

Project No.: CT 312

Sampled By: FRANK W.

Sample ID No.: S3 20MW250 01

Sample Location: 20MW250

Duplicate: ☐

SAMPLING DATA:

	Color (Visual)	pH (SU)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (Meter, mg/l)	Sal. (%)	ORP mV
Date: 7.22.00 Time: KS ~~1235~~ 1155								
Method: GRUNDFUS	CLEAR	6.39	0.291	16.0	11	0.60	0	-113

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Divalent Iron

Equipment: HACH IR-18C

Analysis Time: 1202

Concentration: 5.9 mg/L

Notes: @ WELL HEAD

Carbon Dioxide:

Equipment: Chemetrics Test Kit

Analysis Time: 1211

Range Used:	Range	Concentration ppm
☒	10 to 100 ppm	40
☐	100 to 1000 ppm	
☐	250 to 2500 ppm	

Concentration: 40 ppm

Notes: @ WELL HEAD

Dissolved Oxygen

Equipment: Chemetrics Test Kit

Analysis Time: 1205

Range Used:	Range	Concentration ppm
☒	0 to 1 ppm	0.05
☐	1 to 12 ppm	

Concentration: 0.05 ppm

Notes:

Hydrogen Sulfide

Equipment: HACH HS-C

Analysis Time: 1158

Concentration: 0 mg/L

Notes: @ WELL HEAD

7K 8

Tetra Tech NUS, Inc.

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Project Site Name: NSB NLON, CT

Project No.: CTO 312

Sampled By: FRANK W.

Sample ID No.: S3 20MW250 01

Sample Location: 20 MW250

Duplicate: ☐

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Sulfate:

Equipment: HACH DR-850 Colorimeter

Program No.: KS ~~or~~ 92

5 x 1.33 = 6.65 mg/L

Analysis Time: 1420

Concentration: 7 mg/L

Filtered: ☐

Notes:

CORRECTION FACTOR

Manganese:

Equipment: HACH DR-850 Colorimeter

Analysis Time: 1435

Program No.: 41

Concentration: 0.5 mg/L

Filtered: ☐

Notes:

Nitrite:

Equipment: HACH DR-850 Colorimeter

Analysis Time: 1505

Program No.: 62

Concentration: 0.001 mg/L

Reagent Blank Correction: ☐

Standard Solution: ☐ Results: _____

Notes:

Nitrate:

Equipment: HACH DR-850 Colorimeter

Analysis Time: 1550

Program No.: 55

Concentration: 0.06 mg/L

Nitrite Interference Treatment: ☐

Standard Solution: ☐ Results: _____

Reagent Blank Correction: ☐

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

TK ES

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NSB NLON, CT

Project No.: CT 312

Sampled By: DON W.

Sample ID No.: S3 20MW265 01

Sample Location: 20MW265

Duplicate: ☐

SAMPLING DATA:

	Color (Visual)	pH (SU)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (Meter, mg/l)	Sal. (%)	ORP mV
Date: 7.22.00								
Time: 1645								
Method: GRUNDFOS	CLEAR	5.71	0.299	17.6	1.2	4.17	0	143

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Divalent Iron

Equipment: HACH IR-18C

Analysis Time: 1651

Concentration: 0 mg/L

Notes: @ WELL HEAD

Carbon Dioxide:

Equipment: Chemetrics Test Kit

Analysis Time: 1658

Range Used:	Range	Concentration ppm
☒	10 to 100 ppm	60
☐	100 to 1000 ppm	
☐	250 to 2500 ppm	

Concentration: 60 ppm

Notes: @ WELL HEAD

Dissolved Oxygen

Equipment: Chemetrics Test Kit

Analysis Time: 1655

Range Used:	Range	Concentration ppm
☐	0 to 1 ppm	
☒	1 to 12 ppm	3.5

Concentration: 3.5 ppm

Notes:

Hydrogen Sulfide

Equipment: HACH HS-C

Analysis Time: 1647

Concentration: 0 mg/L

Notes: @ WELL HEAD

7/5/8

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NSB NLON, CT

Project No.: CTO 312

Sampled By: DON W.

Sample ID No.: S3 2DMW26S 01

Sample Location: 2DMW26S

Duplicate: ☐

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Sulfate:

Equipment: HACH DR-850 Colorimeter

Program No.: KS ~~or~~ 92

14X 1.33 = 18.62 mg/L

Analysis Time: 1736

Concentration: 19 mg/L

Filtered: ☐

Notes:

KS ~~[illegible]~~ CORRECTION FACTOR = 1.33

Manganese:

Equipment: HACH DR-850 Colorimeter

Analysis Time: 1743

Program No.: 41

Concentration: 0.3 mg/L

Filtered: ☐

Notes:

Nitrite:

Equipment: HACH DR-850 Colorimeter

Analysis Time: 1750

Program No.: 62

Concentration: 0 mg/L

Reagent Blank Correction: ☐

Standard Solution: ☐ Results: _____

Notes:

Nitrate:

Equipment: HACH DR-850 Colorimeter

Analysis Time: 1808

Program No.: 55

Concentration: 0.35 mg/L

Nitrite Interference Treatment: ☐

Standard Solution: ☐ Results: _____

Reagent Blank Correction: ☐

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

KSS

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NSB NLON, CT
Project No.: CT 312
Sampled By: FRANK W.

Sample ID No.: S3 2DMW26D 01
Sample Location: 2DMW26D
Duplicate: ☐

SAMPLING DATA:

	Color (Visual)	pH (SU)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (Meter, mg/l)	Sal. (%)	ORP mV
Date: 7-22-00								
Time: 1755								
Method: GRUNDFOS	Clear	6.90	0.484	17.5	0	0.27	0.0	-171

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Divalent Iron

Equipment: HACH IR-18C

Analysis Time: 1807

Concentration: 4.2 mg/L

Notes: @ WELL HEAD

Carbon Dioxide:

Equipment: Chemetrics Test Kit

Analysis Time: 1813

Range Used:	Range	Concentration ppm
☑	10 to 100 ppm	26
☐	100 to 1000 ppm	
☐	250 to 2500 ppm	

Concentration: 26 ppm

Notes: @ WELL HEAD

Dissolved Oxygen

Equipment: Chemetrics Test Kit

Analysis Time: 1808

Range Used:	Range	Concentration ppm
☑	0 to 1 ppm	0
☐	1 to 12 ppm	

Concentration: 0 ppm

Notes: @ WELL HEAD

Hydrogen Sulfide

Equipment: HACH HS-C

Analysis Time: 1801

Concentration: 0.0 mg/L

Notes: @ WELL HEAD

F W

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NSB NLON, CT

Project No.: CTO 312

Sampled By: FRANK W.

Sample ID No.: S32DMW26D 01

Sample Location: 2DMW26D

Duplicate: ☐

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Sulfate:

Equipment: HACH DR-850 Colorimeter

Program No.: KS ~~or~~ 92

Concentration: 17 mg/L

13 X 1.33 = 17.29 mg/L

Analysis Time: 1833

Filtered: ☐

Notes:

CORRECTION FACTOR = 1.33

Manganese:

Equipment: HACH DR-850 Colorimeter

Program No.: 41

Concentration: 1.0 mg/L

Analysis Time: 1839

Filtered: ☐

Notes:

Nitrite:

Equipment: HACH DR-850 Colorimeter

Program No.: 62

Concentration: 0 mg/L

Analysis Time: 1850

Reagent Blank Correction: ☐

Standard Solution: ☐ Results: _____

Notes:

Nitrate:

Equipment: HACH DR-850 Colorimeter

Program No.: 55

Concentration: 0.05 mg/L

Analysis Time: 1908

Nitrite Interference Treatment: ☐

Standard Solution: ☐ Results: _____

Reagent Blank Correction: ☐

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

K Sd

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NSB NLON, CT
Project No.: CT 312
Sampled By: DON W. / CHUCK M.

Sample ID No.: S3 2DMW27D 01
Sample Location: 2DMW27D
Duplicate: ☐

SAMPLING DATA:

Date: 8 3 00	Color (Visual)	pH (SU)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (Meter, mg/l)	Sal. (%)	ORP mV
Time: 1215								
Method: GRUNDFOS	CLEAR	7.88	0.318	22.1	4.8	10.49	0	62

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Divalent Iron

Equipment: HACH IR-18C

Analysis Time: 1215

Concentration: 0.8 mg/L

Notes: @ WELL

Carbon Dioxide:

Equipment: Chemetrics Test Kit

Analysis Time: 1230

Range Used:	Range	Concentration ppm
☒	10 to 100 ppm	<10
☒	100 to 1000 ppm	—
☒	250 to 2500 ppm	—

Concentration: <10 ppm

Notes: @ WELL

Dissolved Oxygen

Equipment: Chemetrics Test Kit

Analysis Time: 1226

Range Used:	Range	Concentration ppm
☐	0 to 1 ppm	
☒	1 to 12 ppm	8

Concentration: 8 ppm

Notes: @ WELL

Hydrogen Sulfide

Equipment: HACH HS-C

Analysis Time: 1218

Concentration: 0 mg/L

Notes: @ WELL

C. M.

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NSB NLON, CT

Project No.: CTO 312

Sampled By: DW / CM

Sample ID No.: S3 2DMW27D 01

Sample Location: 2DMW27D

Duplicate: ☐

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Sulfate:

Equipment: HACH DR-850 Colorimeter

Analysis Time: 1346

Program No.: KS ~~or~~ 92

7 X 1.33 = 9.31 mg/L

Concentration: 9 mg/L

Filtered: ☐

Notes:

CORRECTION FACTOR = 1.33

Manganese:

Equipment: HACH DR-850 Colorimeter

Analysis Time: 1358

Program No.: 41

Concentration: 0.3 mg/L

Filtered: ☐

Notes:

Nitrite:

Equipment: HACH DR-850 Colorimeter

Analysis Time: 1410

Program No.: 62

Concentration: 0.002 mg/L

Reagent Blank Correction: ☐

Standard Solution: ☐ Results: _____

Notes:

Nitrate:

Equipment: HACH DR-850 Colorimeter

Analysis Time: 1420

Program No.: 55

Concentration: 0.04 mg/L

Nitrite Interference Treatment: ☑ YES

Standard Solution: ☐ Results: _____

Reagent Blank Correction: ☐

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

JK 5-8

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NSB NLON, CT
Project No.: CT 312
Sampled By: DON W.

Sample ID No.: S3 2DMW28S 01
Sample Location: 2DMW28S
Duplicate: ☐

SAMPLING DATA:

Date: 7-23-00	Color	pH	S.C.	Temp.	Turbidity	DO	Sal.	ORP
Time: 1105	(Visual)	(SU)	(mS/cm)	(°C)	(NTU)	(Meter, mg/l)	(%)	mV
Method: GRUNDFOS	Clear	6.15	1.01	15.6	1.9	4.35	0.0	139

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Divalent Iron

Equipment: HACH IR-18C

Analysis Time: 1110

Concentration: <0.2 mg/L

Notes: @ WELL HEAD

Carbon Dioxide:

Equipment: Chemetrics Test Kit

Analysis Time: ~~1114~~ (FW) 1118

Range Used:	Range	Concentration ppm
☑	10 to 100 ppm	15
☐	100 to 1000 ppm	
☐	250 to 2500 ppm	~~0~~ (FW)

Concentration: ~~0~~ (FW) 15 ppm

Notes: @ WELL HEAD

Dissolved Oxygen

Equipment: Chemetrics Test Kit

Analysis Time: 1114

Range Used:	Range	Concentration ppm
☐	0 to 1 ppm	
☑	1 to 12 ppm	6

Concentration: 6 ppm

Notes: @ WELL HEAD

Hydrogen Sulfide

Equipment: HACH HS-C

Analysis Time: 1108

Concentration: 0.0 mg/L

Notes: @ WELL HEAD

FW

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NSB NLON, CT

Project No.: CTO 312

Sampled By: DON W.

Sample ID No.: S3 2DMW28S 01

Sample Location: 2DMW28S

Duplicate: ☐

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Sulfate:

Equipment: HACH DR-850 Colorimeter

Program No.: KS ~~or~~ 92

9 X 1.33 = 11.97 mg/L

Analysis Time: 1159

Concentration: 12 mg/L

Filtered: ☐

Notes:

CORRECTION FACTOR = 1.33

Manganese:

Equipment: HACH DR-850 Colorimeter

Analysis Time: 1207

Program No.: 41

Concentration: 0.3 mg/L

Filtered: ☐

Notes:

Nitrite:

Equipment: HACH DR-850 Colorimeter

Analysis Time: 1211

Program No.: 62

Concentration: 0.005 mg/L

Reagent Blank Correction: ☐

Standard Solution: ☐ Results: _____

Notes:

Nitrate:

Equipment: HACH DR-850 Colorimeter

Analysis Time: 1430

Program No.: 55

Concentration: >0.55 mg/L (LIMIT OF METER)

Nitrite Interference Treatment: ☑ YES

Standard Solution: ☐ Results: _____

Reagent Blank Correction: ☐

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

KSS

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NSB NLON, CT

Project No.: CT 312

Sampled By: FRANK W.

Sample ID No.: S3 2DMW28D 01

Sample Location: 2DMW28D

Duplicate: ☐

SAMPLING DATA:

	Color (Visual)	pH (SU)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (Meter, mg/l)	Sal. (%)	ORP mV
Date: 7·23·00								
Time: 1020								
Method: GRUNDFOS	CLEAR	6.72	0.453	14.7	18	0.34	0	-147

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Divalent Iron

Equipment: HACH IR-18C

Analysis Time: 1028

Concentration: 4.0 mg/L

Notes: @ WELL HEAD

Carbon Dioxide:

Equipment: Chemetrics Test Kit

Analysis Time: 1040

Range Used:	Range	Concentration ppm
☒	10 to 100 ppm	35
☐	100 to 1000 ppm	
☐	250 to 2500 ppm	

Concentration: 35 ppm

Notes: @ WELL HEAD

Dissolved Oxygen

Equipment: Chemetrics Test Kit

Analysis Time: 1034

Range Used:	Range	Concentration ppm
☒	0 to 1 ppm	1
☒	1 to 12 ppm	<1

Concentration: 1 ppm

Notes: @ WELL HEAD

Hydrogen Sulfide

Equipment: HACH HS-C

Analysis Time: 1023

Concentration: 0 mg/L

Notes: @ WELL HEAD

7K 5 8

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NSB NLON, CT

Project No.: CTO 312

Sampled By: FRANK W.

Sample ID No.: S3 2DMW28D 01

Sample Location: 2DMW28D

Duplicate: ☐

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Sulfate:

Equipment: HACH DR-850 Colorimeter

Analysis Time: 1109

Program No.: KS ~~or~~ 92

10 X 1.33 = 13.30 mg/L

Concentration: 13 mg/L

Filtered: ☐

Notes:

CORRECTION FACTOR = 1.33

Manganese:

Equipment: HACH DR-850 Colorimeter

Analysis Time: 1114

Program No.: 41

Concentration: 5.8 mg/L

Filtered: ☐

Notes:

Nitrite:

Equipment: HACH DR-850 Colorimeter

Analysis Time: 1120

Program No.: 62

Concentration: 0 mg/L

Reagent Blank Correction: ☐

Standard Solution: ☐ Results: _____

Notes:

Nitrate:

Equipment: HACH DR-850 Colorimeter

Analysis Time: 1142

Program No.: 55

Concentration: 0 mg/L

Nitrite Interference Treatment: ☐

Standard Solution: ☐ Results: _____

Reagent Blank Correction: ☐

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

KES

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NSB NLON, CT

Project No.: CT 312

Sampled By: MATT W.

Sample ID No.: 2S32DMW29S04

Sample Location: 2DMW29S

Duplicate: ☐

SAMPLING DATA:

	Color (Visual)	pH (SU)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (Meter, mg/l)	Sal. (%)	ORP mV
Date: 7.12.00								
Time: 1010								
Method: GRUNDFOS	CLEAR	5.73	0.496	18.3	2.8	0.86	0	81

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Divalent Iron

Equipment: HACH IR-18C

Analysis Time: 1036

Concentration: 3 mg/L

Notes: @ WELL HEAD

Carbon Dioxide:

Equipment: Chemetrics Test Kit

Analysis Time: 1050

Range Used:	Range	Concentration ppm
☒	10 to 100 ppm	40
☐	100 to 1000 ppm	
☐	250 to 2500 ppm	

Concentration: 40 ppm

Notes: @ WELL HEAD

Dissolved Oxygen

Equipment: Chemetrics Test Kit

Analysis Time: 1047

Range Used:	Range	Concentration ppm
☐	0 to 1 ppm	
☒	1 to 12 ppm	2

Concentration: 2 ppm

Notes: @ WELL HEAD

Hydrogen Sulfide

Equipment: HACH HS-C

Analysis Time: 1040

Concentration: 0 mg/L

Notes: @ WEL HEAD

TK SS

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NSB NLON, CT

Project No.: CTO 312

Sampled By: MATT W.

Sample ID No.: 532DMW29S04

Sample Location: 2DMW29S

Duplicate: ☐

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Sulfate:

Equipment: HACH DR-850 Colorimeter

Program No.: KS ~~or~~ 92

Concentration: 19 mg/L

14 X 1.33 = 18.62 mg/L

Analysis Time: 1128

Filtered: ☐

Notes:

CORRECTION FACTOR = 1.33

Manganese:

Equipment: HACH DR-850 Colorimeter

Program No.: 41

Concentration: 0.4 mg/L

Analysis Time: 1141

Filtered: ☐

Notes:

Nitrite:

Equipment: HACH DR-850 Colorimeter

Program No.: 62

Concentration: 0 mg/L

Analysis Time: 1312

Reagent Blank Correction: ☐

Standard Solution: ☐ Results: _____

Notes:

Nitrate:

Equipment: HACH DR-850 Colorimeter

Program No.: 55

Concentration: 0.02 mg/L

Analysis Time: 1350

Nitrite Interference Treatment: ☐

Standard Solution: ☐ Results: _____

Reagent Blank Correction: ☐

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

TK SS

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NSB NLON, CT
Project No.: CT 312
Sampled By: DAVE C.

Sample ID No.: S3 2DMW30S01
Sample Location: 2DMW30S
Duplicate: ☐

SAMPLING DATA:

	Color (Visual)	pH (SU)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (Meter, mg/l)	Sal. (%)	ORP mV
Date: 7.12.00								
Time: 1050								
Method: GRUNDFUS	CLEAR	5.77	0.472	17.8	26	0.80	0	25

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Divalent Iron

Equipment: HACH IR-18C

Analysis Time: 1055

Concentration: 1.5 mg/L

Notes: @ WELL HEAD

Carbon Dioxide:

Equipment: Chemetrics Test Kit

Analysis Time: 1100

Range Used:	Range	Concentration ppm
☒	10 to 100 ppm	53
☐	100 to 1000 ppm	
☐	250 to 2500 ppm	

Concentration: 53 ppm

Notes: @ WELL HEAD

Dissolved Oxygen

Equipment: Chemetrics Test Kit

Analysis Time: 1059

Range Used:	Range	Concentration ppm
☒	0 to 1 ppm	0.8
☐	1 to 12 ppm	

Concentration: 0.8 ppm

Notes:

Hydrogen Sulfide

Equipment: HACH HS-C

Analysis Time: 1057

Concentration: 0 mg/L

Notes: @ WELL HEAD

RES

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NSB NLON, CT

Project No.: CTO 312

Sampled By: KS/DC/MW

Sample ID No.: S3 20MW30S 01

Sample Location: 20MW30S

Duplicate: ☐

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Sulfate:

Equipment: HACH DR-850 Colorimeter

Analysis Time: 1135

Program No.: KS ~~or~~ 92

19 X1.33 = 25.27 mg/L

Concentration: 25 mg/L

Filtered: ☐

Notes:

CORRECTION FACTOR = 1.33

Manganese:

Equipment: HACH DR-850 Colorimeter

Analysis Time: 1148

Program No.: 41

Concentration: 0 mg/L

Filtered: ☐

Notes:

Nitrite:

Equipment: HACH DR-850 Colorimeter

Analysis Time: 1333

Program No.: 62

Concentration: 0.016 mg/L

Reagent Blank Correction: ☐

Standard Solution: ☐ Results: _____

Notes:

Nitrate:

Equipment: HACH DR-850 Colorimeter

Analysis Time: 1438

Program No.: 55

Concentration: 0.10 mg/L

Nitrite Interference Treatment: ☐

Standard Solution: ☐ Results: _____

Reagent Blank Correction: ☐

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

KSJ

SITE 7 - TORPEDO SHOPS - NATURAL ATTENUATION

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NSB NLON, CT
Project No.: CT 312
Sampled By: K. SIMPSON

Sample ID No.: S7TW08 01
Sample Location: 7TW8
Duplicate: ☐

SAMPLING DATA:

Date: 6-24-00	Color	pH	S.C.	Temp.	Turbidity	DO	Sal.	ORP
Time: 1000	(Visual)	(SU)	(mS/cm)	(°C)	(NTU)	(Meter, mg/l)	(%)	mV
Method: PERISTALTIC PUMP	CLEAR	6.13	0.557	17.7	14	0.89	0	-151

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Divalent Iron

Equipment: HACH IR-18C

Analysis Time: 1412

Concentration: 3.0 mg/L

Notes:

Carbon Dioxide:

Equipment: Chemetrics Test Kit

Analysis Time: 1033

Range Used:	Range	Concentration ppm
☑	10 to 100 ppm	40
☐	100 to 1000 ppm	—
☐	250 to 2500 ppm	—

Concentration: 40 ppm

Notes: @ WELL HEAD

Dissolved Oxygen

Equipment: Chemetrics Test Kit

Analysis Time: 1024

Range Used:	Range	Concentration ppm
☑	0 to 1 ppm	0.25
☐	1 to 12 ppm	—

Concentration: 0.25 ppm

Notes: @ WELL HEAD

Hydrogen Sulfide

Equipment: HACH HS-C

Analysis Time: 1039

Concentration: 0 mg/L

Notes: @ WELL HEAD

NA SAMPLE COLLECTED @ 1030
FOR PARAMETERS @ TRAILER

K ES

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NSB NLON, CT

Project No.: CTO 312

Sampled By: K. SIMPSON

Sample ID No.: S7TW08 01

Sample Location: 7TW8

Duplicate: ☐

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Sulfate:

Equipment: HACH DR-850 Colorimeter

Analysis Time: 1426

Program No.: ~~91~~ 92

Concentration: 29 mg/L

22 X 1.33 = 29.3 mg/L

Filtered: ☐

Notes:

CORRECTION FACTOR 1.33

Manganese:

Equipment: HACH DR-850 Colorimeter

Analysis Time: 1456

Program No.: 41

Concentration: 0.8 mg/L

Filtered: ☐

Notes:

Nitrite:

Equipment: HACH DR-850 Colorimeter

Analysis Time: 1540

Program No.: 62

Concentration: 0 mg/L

Reagent Blank Correction: ☐

Standard Solution: ☐ Results: _____

Notes:

Nitrate:

Equipment: HACH DR-850 Colorimeter

Analysis Time: 1700

Program No.: 55

Concentration: 0.01 mg/L

Nitrite Interference Treatment: ☐

Standard Solution: ☐ Results: _____

Reagent Blank Correction: ☐

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

KSS

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NSB NLON, CT
Project No.: CT 312
Sampled By: R. SIMPSON

Sample ID No.: S7TW09 01
Sample Location: 7TW9
Duplicate: ☐

SAMPLING DATA:

Date: 6-24-00 / Time:	Color (Visual)	pH (SU)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (Meter, mg/l)	Sal. (%)	ORP mV
Method: PERISTALTIC PUMP	CLEAR	6.09	0.516	19.8	47	1.85	0	13

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Divalent Iron

Equipment: HACH IR-18C

Analysis Time: 1400

Concentration: 1.4 mg/L

Notes:

Carbon Dioxide:

Equipment: Chemetrics Test Kit

Analysis Time: 1237

Range Used:	Range	Concentration ppm
☑	10 to 100 ppm	35
☐	100 to 1000 ppm	—
☐	250 to 2500 ppm	—

Concentration: 35 ppm

Notes: @ WELL HEAD

Dissolved Oxygen

Equipment: Chemetrics Test Kit

Analysis Time: 1239

Range Used:	Range	Concentration ppm
☐	0 to 1 ppm	
☑	1 to 12 ppm	2

Concentration: 2.0 ppm

Notes: @ WELL HEAD

Hydrogen Sulfide

Equipment: HACH HS-C

Analysis Time: 1245

Concentration: 0 mg/L

Notes: @ WELL HEAD

Tetra Tech NUS, Inc.

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Project Site Name: NSB NLON, CT
Project No.: CTO 312
Sampled By: K. SIMPSON

Sample ID No.: S7TW0901
Sample Location: 7TW9
Duplicate: ☐

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Sulfate:

Equipment: HACH DR-850 Colorimeter
Analysis Time: 1438
Program No.: ~~91~~ 125 92
Concentration: 36 mg/L
27 X1.33 = 35.9 mg/L
Filtered: ☐
Notes:
CORRECTION FACTOR = 1.33

Manganese:

Equipment: HACH DR-850 Colorimeter
Analysis Time: 1500
Program No.: 41
Concentration: 0.3 mg/L
Filtered: ☐
Notes:

Nitrite:

Equipment: HACH DR-850 Colorimeter
Analysis Time: 1600
Program No.: 62
Concentration: 0.004 mg/L
Reagent Blank Correction: ☐
Standard Solution: ☐ Results: _____
Notes:

Nitrate:

Equipment: HACH DR-850 Colorimeter
Analysis Time: 1630
Program No.: 55
Concentration: 0.02 mg/L
Nitrite Interference Treatment: ☐
Reagent Blank Correction: ☐
Standard Solution: ☐ Results: _____
Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____
Notes:

KSS

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NSB NLON, CT

Project No.: CT 312

Sampled By: K. SIMPSON

Sample ID No.: S7TW1001

Sample Location: 7TW10

Duplicate: ☐

SAMPLING DATA:

Date: / Time:	Color (Visual)	pH (SU)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (Meter, mg/l)	Sal. (%)	ORP mV
Method: PERISTALTIC	CLEAR	6.46	0.331	19.8	4.5	7.96	0	9

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Divalent Iron

Equipment: HACH IR-18C

Analysis Time: 1110

Concentration: 0.6 mg/L

Notes:

Carbon Dioxide:

Equipment: Chemetrics Test Kit

Analysis Time: 0950

Range Used:	Range	Concentration ppm
☑	10 to 100 ppm	18
☐	100 to 1000 ppm	
☐	250 to 2500 ppm	

Concentration: 18 ppm

Notes: @ WELL HEAD

Dissolved Oxygen

Equipment: Chemetrics Test Kit

Analysis Time: 0937

Range Used:	Range	Concentration ppm
☐	0 to 1 ppm	
☑	1 to 12 ppm	6

Concentration: 6.0 ppm

Notes: @ WELL HEAD

Hydrogen Sulfide

Equipment: HACH HS-C

Analysis Time: 0930

Concentration: 0.2 mg/L

Notes: @ WELL HEAD

7K58

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NSB NLON, CT

Project No.: CTO 312

Sampled By: K. SIMPSON

Sample ID No.: S7TW10 01

Sample Location: 7TW10

Duplicate: ☐

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Sulfate: SO_4

Equipment: HACH DR-850 Colorimeter

Analysis Time: 1115

Program No.: KS ~~91~~ 92

Concentration: 11 mg/L

8 X 1.33 = 10.64 mg/L

Filtered: ☐

Notes:

CORRECTION FACTOR = 1.33

Manganese:

Equipment: HACH DR-850 Colorimeter

Analysis Time: 1124

Program No.: 41

Concentration: 0.5 mg/L

Filtered: ☐

Notes:

Nitrite:

Equipment: HACH DR-850 Colorimeter

Analysis Time: 1142

Program No.: 62

Concentration: 0 mg/L

Reagent Blank Correction: ☐

Standard Solution: ☐ Results: _____

Notes:

Nitrate:

Equipment: HACH DR-850 Colorimeter

Analysis Time: 1150

Program No.: 55

Concentration: 0.03 mg/L

Nitrite Interference Treatment: ☐

Standard Solution: ☐ Results: _____

Reagent Blank Correction: ☐

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

KSS

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NSB NLON, CT

Project No.: CT 312

Sampled By: K. S. & D.C.

Sample ID No.: 57MW01D 01

Sample Location: 7MW1D

Duplicate: ☐

SAMPLING DATA:

	Color (Visual)	pH (SU)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (Meter, mg/l)	Sal. (%)	ORP mV
Date: 7.7.00								
Time: 1530								
Method: GRUNDFOS	CLEAR	6.26	0.145	14.0	5	5.34	0	119

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Divalent Iron @ WELL HEAD

Equipment: HACH IR-18C

Analysis Time: 1536

Concentration: 0 mg/L

Notes:

Carbon Dioxide: @ WELL HEAD

Equipment: Chemetrics Test Kit

Analysis Time: 1547

Range Used:	Range	Concentration ppm
☒	10 to 100 ppm	17
☐	100 to 1000 ppm	
☐	250 to 2500 ppm	

Concentration: 17 ppm

Notes:

Dissolved Oxygen @ WELL HEAD

Equipment: Chemetrics Test Kit

Analysis Time: 1543

Range Used:	Range	Concentration ppm
☐	0 to 1 ppm	
☒	1 to 12 ppm	3

Concentration: 3.0 ppm

Notes:

Hydrogen Sulfide @ WELL HEAD

Equipment: HACH HS-C

Analysis Time: 1531

Concentration: 0 mg/L

Notes:

K. S.

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NSB NLON, CT

Project No.: CTO 312

Sampled By: KS / DS

Sample ID No.: S7MW01D 01

Sample Location: 7MW1D

Duplicate: ☐

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Sulfate:

Equipment: HACH DR-850 Colorimeter

Analysis Time: 1643

Program No.: KS ~~91~~ 92

7 x 1.33 = 9.3 mg/L

Concentration: 9 mg/L

Filtered: ☐

Notes:

CORRECTION FACTOR = 1.33

Manganese:

Equipment: HACH DR-850 Colorimeter

Analysis Time: 1651

Program No.: 41

Concentration: 0 mg/L

Filtered: ☐

Notes:

Nitrite:

Equipment: HACH DR-850 Colorimeter

Analysis Time: 1700

Program No.: 62

Concentration: 0 mg/L

Reagent Blank Correction: ☐

Standard Solution: ☐ Results: _____

Notes:

Nitrate:

Equipment: HACH DR-850 Colorimeter

Analysis Time: 1720

Program No.: 55

Concentration: 2.08 mg/L

Nitrite Interference Treatment: ☐ NA

Standard Solution: ☐ Results: _____

Reagent Blank Correction: ☐

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

KEP

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NSB NLON, CT
Project No.: CT 312
Sampled By: DAVE C.

Sample ID No.: 57MW25 01
Sample Location: 7MW25
Duplicate: ☐

SAMPLING DATA:

	Color (Visual)	pH (SU)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (Meter, mg/l)	Sal. (%)	ORP mV
Date: 7.8.00								
Time: 1440								
Method: GRUND FOS	CLEAR	5.79	0.132	12.4	2	0.24	0	-46

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Divalent Iron

@ WELL HEAD

Equipment: HACH IR-18C

Analysis Time: 1440

Concentration: 3.5 mg/L

Notes:

Carbon Dioxide:

Equipment: Chemetrics Test Kit

Analysis Time: 1455

Range Used:	Range	Concentration ppm
☒	10 to 100 ppm	35
☐	100 to 1000 ppm	
☐	250 to 2500 ppm	

Concentration: 35 ppm

Notes: @ WELL HEAD

Dissolved Oxygen

Equipment: Chemetrics Test Kit

Analysis Time: 1452

Range Used:	Range	Concentration ppm
☒	0 to 1 ppm	0.6
☐	1 to 12 ppm	

Concentration: 0.6 ppm

Notes: @ WELL HEAD

Hydrogen Sulfide

Equipment: HACH HS-C

Analysis Time: 1446

Concentration: 0 mg/L

Notes: @ WELL HEAD

7K 5d

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NSB NLON, CT

Project No.: CTO 312

Sampled By: D. CERCONE

Sample ID No.: 57MW2S01

Sample Location: 7MW2S

Duplicate: ☐

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Sulfate:

Equipment: HACH DR-850 Colorimeter

Analysis Time: 1518

Program No.: KS ~~or~~ 92

Concentration: ~~10.6~~ KS mg/L

8 X 1.33 = 10.6 MG/L

Filtered: ☐

Notes: 11

CORRECTION FACTOR = 1.33

Manganese:

Equipment: HACH DR-850 Colorimeter

Analysis Time: 1533

Program No.: 41

Concentration: 0.3 mg/L

Filtered: ☐

Notes:

Nitrite:

Equipment: HACH DR-850 Colorimeter

Analysis Time: 1603

Program No.: 62

Concentration: 0.001 mg/L

Reagent Blank Correction: ☐

Standard Solution: ☐ Results: _____

Notes:

Nitrate:

Equipment: HACH DR-850 Colorimeter

Analysis Time: 1630

Program No.: 55

Concentration: 0.14 mg/L

Nitrite Interference Treatment: ☑ YES

Standard Solution: ☐ Results: _____

Reagent Blank Correction: ☐

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

KES

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NSB NLON, CT

Project No.: CT 312

Sampled By: MATT W.

Sample ID No.: S7MW2D 01

Sample Location: 7MW2D

Duplicate: ☐

SAMPLING DATA:

Date: 7.8.00	Color	pH	S.C.	Temp.	Turbidity	DO	Sal.	ORP
Time: 1355	(Visual)	(SU)	(mS/cm)	(°C)	(NTU)	(Meter, mg/l)	(%)	mV
Method: GRUNDFOS	CLEAR	6.00	0.113	18.2	0.2	1.71	0	132

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Divalent Iron

Equipment: HACH IR-18C

Analysis Time: 1404

Concentration: 0 mg/L

Notes: @ WELL HEAD

Carbon Dioxide:

Equipment: Chemetrics Test Kit

Analysis Time: 1421

Range Used:	Range	Concentration ppm
☒	10 to 100 ppm	18
☐	100 to 1000 ppm	
☐	250 to 2500 ppm	

Concentration: 18 ppm

Notes: @ WELL HEAD

Dissolved Oxygen

Equipment: Chemetrics Test Kit

Analysis Time: 1417

Range Used:	Range	Concentration ppm
☐	0 to 1 ppm	
☒	1 to 12 ppm	1.5

Concentration: 1.5 ppm

Notes: @ WELL HEAD

Hydrogen Sulfide

Equipment: HACH HS-C

Analysis Time: 1411

Concentration: 0 mg/L

Notes: @ WELL HEAD

TK Ed

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NSB NLON, CT

Project No.: CTO 312

Sampled By: MATT W.

Sample ID No.: S7MW2D 01

Sample Location: 7MW2D

Duplicate: ☐

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Sulfate:

Equipment: HACH DR-850 Colorimeter

Analysis Time: 1526

Program No.: KS ~~91~~ 92

Concentration: ~~6.7~~ KS 7 mg/L

5 x 1.33 KS ~~mg/L~~ = 6.65 mg/L

Filtered: ☐

Notes:

CORRECTION FACTOR = 1.33

Manganese:

Equipment: HACH DR-850 Colorimeter

Analysis Time: 1547

Program No.: 41

Concentration: 0.1 mg/L

Filtered: ☐

Notes:

Nitrite:

Equipment: HACH DR-850 Colorimeter

Analysis Time: 1610

Program No.: 62

Concentration: 0.003 mg/L

Reagent Blank Correction: ☐

Standard Solution: ☐ Results: _____

Notes:

Nitrate:

Equipment: HACH DR-850 Colorimeter

Analysis Time: 1707

Program No.: 55

Concentration: 0.29 mg/L

Nitrite Interference Treatment: ☐

Standard Solution: ☐ Results: _____

Reagent Blank Correction: ☐

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

KES

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NSB NLON, CT

Project No.: CT 312

Sampled By: DAVE CERCONE

Sample ID No.: S7MW03S 01

Sample Location: 7MW3S

Duplicate: ☐

SAMPLING DATA:

	Color (Visual)	pH (SU)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (Meter, mg/l)	Sal. (%)	ORP mV
Date: 7.11.00								
Time: 0900								
Method GRUNDFOS	CLEAR	7.23	0.590	16.6	0.32	0.48	0	97

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Divalent Iron

Equipment: HACH IR-18C

Analysis Time: 0856

Concentration: 0 mg/L

Notes: @ WELL HEAD

Carbon Dioxide:

Equipment: Chemetrics Test Kit

Analysis Time: 0914

Range Used:	Range	Concentration ppm
☒	10 to 100 ppm	45
☐	100 to 1000 ppm	
☐	250 to 2500 ppm	

Concentration: 45 ppm

Notes: @ WELL HEAD

Dissolved Oxygen

Equipment: Chemetrics Test Kit

Analysis Time: 0910

Range Used:	Range	Concentration ppm
☒	0 to 1 ppm	0.2
☐	1 to 12 ppm	

Concentration: 0.2 ppm

Notes: @ WELL HEAD

Hydrogen Sulfide

Equipment: HACH HS-C

Analysis Time: 0902

Concentration: 0 mg/L

Notes: @ WELL HEAD

KSP

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NSB NLON, CT

Project No.: CTO 312

Sampled By: DAVE CERONE

Sample ID No.: 57MW03S 01

Sample Location: 7MW3S

Duplicate: ☐

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Sulfate:

Equipment: HACH DR-850 Colorimeter

Analysis Time: 0936

Program No.: KS ~~or~~ 92

40 X1.33=53.2 mg/L

Concentration: 53 mg/L

Filtered: ☐

Notes:

CORRECTION FACTOR = 1.33

Manganese:

Equipment: HACH DR-850 Colorimeter

Analysis Time: 0952

Program No.: 41

Concentration: 0.7 mg/L

Filtered: ☐

Notes:

Nitrite:

Equipment: HACH DR-850 Colorimeter

Analysis Time: 1007

Program No.: 62

Concentration: 0.004 mg/L

Reagent Blank Correction: ☐

Standard Solution: ☐ Results: _____

Notes:

Nitrate:

Equipment: HACH DR-850 Colorimeter

Analysis Time: 1044

Program No.: 55

Concentration: 0.03 mg/L

Nitrite Interference Treatment: ☑ YES

Standard Solution: ☐ Results: _____

Reagent Blank Correction: ☐

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

K ES

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NSB NLON, CT

Project No.: CT 312

Sampled By: Cercone / Simpson

Sample ID No.: S7 MW03D 01

Sample Location: 7 MW3D

Duplicate: ☐

SAMPLING DATA:

Date: 6-24-00	Color	pH	S.C.	Temp.	Turbidity	DO	Sal.	ORP
Time: 1245	(Visual)	(SU)	(mS/cm)	(°C)	(NTU)	(Meter, mg/l)	(%)	mV
Method: Grundfos	CLEAR	6.29	0.68	18.2	14	0.27	0	112

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Divalent Iron

Equipment: HACH IR-18C

Analysis Time: 1420

Concentration: 0 mg/L

Notes:

Carbon Dioxide:

Equipment: Chemetrics Test Kit

Analysis Time: 1301

Range Used:	Range	Concentration ppm
☑	10 to 100 ppm	40
☐	100 to 1000 ppm	
☐	250 to 2500 ppm	

Concentration: 40 ppm

Notes: @ WELL HEAD

Dissolved Oxygen

Equipment: Chemetrics Test Kit

Analysis Time: 1259

Range Used:	Range	Concentration ppm
☑	0 to 1 ppm	0.3
☐	1 to 12 ppm	

Concentration: 0.3 ppm

Notes: @ WELL HEAD

Hydrogen Sulfide

Equipment: HACH HS-C

Analysis Time: 1256

Concentration: 0.1 mg/L

Notes: @ WELL HEAD

KEB

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NSB NLON, CT

Project No.: CTO 312

Sampled By: D. CERCONE

Sample ID No.: S7MW03D 01

Sample Location: 7MW3D

Duplicate: ☐

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Sulfate:

Equipment: HACH DR-850 Colorimeter

Analysis Time: 1447

Program No.: HS ~~94~~ 92

Concentration: 92 mg/L

69 X1.33 = 91.77 mg/L

Filtered: ☐

Notes:

CORRECTION FACTOR = 1.33

Manganese:

Equipment: HACH DR-850 Colorimeter

Analysis Time: 1508

Program No.: 41

Concentration: 0.3 mg/L

Filtered: ☐

Notes:

Nitrite:

Equipment: HACH DR-850 Colorimeter

Analysis Time: 1511

Program No.: 62

Concentration: 0 mg/L

Reagent Blank Correction: ☐

Standard Solution: ☐ Results: _____

Notes:

NO2-N

Nitrate:

Equipment: HACH DR-850 Colorimeter

Analysis Time: _____

Program No.: 55

Concentration: 0.20 mg/L

Nitrite Interference Treatment: ☐

Standard Solution: ☐ Results: _____

Reagent Blank Correction: ☐

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

KSS

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NSB NLON, CT
Project No.: CT 312
Sampled By: MATT. W.

Sample ID No.: S7MW04S 01
Sample Location: S7MW4S
Duplicate: ☐

SAMPLING DATA:

Date: 7.9.00	Color	pH	S.C.	Temp.	Turbidity	DO	Sal.	ORP
Time: 0945	(Visual)	(SU)	(mS/cm)	(°C)	(NTU)	(Meter, mg/l)	(%)	mV
Method: GRUNDFOS	CLEAR	6.58	0.735	21.4	1.5	2.73	0	89

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Divalent Iron

Equipment: HACH IR-18C

Analysis Time: 0950

Concentration: 0 mg/L

Notes: @ WELL HEAD

Carbon Dioxide:

Equipment: Chemetrics Test Kit

Analysis Time: 1000

Range Used:	Range	Concentration ppm
☒	10 to 100 ppm	33
☐	100 to 1000 ppm	
☐	250 to 2500 ppm	

Concentration: 33 ppm

Notes: @ WELL HEAD

Dissolved Oxygen

Equipment: Chemetrics Test Kit

Analysis Time: 0956

Range Used:	Range	Concentration ppm
☐	0 to 1 ppm	
☒	1 to 12 ppm	3

Concentration: 3 ppm

Notes: @ WELL HEAD

Hydrogen Sulfide

Equipment: HACH HS-C

Analysis Time: 0952

Concentration: 0 mg/L

Notes: @ WELL HEAD

KEB

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NSB NLON, CT

Project No.: CTO 312

Sampled By:

Sample ID No.: S7MW04S 01

Sample Location: S7MW4S

Duplicate: ☐

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Sulfate:

Equipment: HACH DR-850 Colorimeter

Analysis Time: 1109

Program No.: KS ~~9+92~~

42 X 1.33 = 55.86 MG/L

Concentration: 56 mg/L

Filtered: ☐

Notes:

CORRECTION FACTOR = 1.33

Manganese:

Equipment: HACH DR-850 Colorimeter

Analysis Time: 1125

Program No.: 41

Concentration: 0.2 mg/L

Filtered: ☐

Notes:

Nitrite:

Equipment: HACH DR-850 Colorimeter

Analysis Time: 1152

Program No.: 62

Concentration: 0.007 mg/L

Reagent Blank Correction: ☐

Standard Solution: ☐ Results:

Notes:

Nitrate:

Equipment: HACH DR-850 Colorimeter

Analysis Time: KS ~~1212~~ 1235

Program No.: 55

Concentration: 0.13 mg/L

Nitrite Interference Treatment: ☑ YES

Standard Solution: ☐ Results:

Reagent Blank Correction: ☐

Standard Additions: ☐ Digits Required: 0.1ml:____ 0.2ml:____ 0.3ml:____

Notes:

KSB

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NSB NLON, CT
Project No.: CT 312
Sampled By: MATT W.

Sample ID No.: S7MW05S01
Sample Location: 7MW5S
Duplicate: ☐

SAMPLING DATA:

Date: 7.10.00	Color (Visual)	pH (SU)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (Meter, mg/l)	Sal. (%)	ORP mV
Time: 1655								
Method GRUNDFOS	CLEAR	6.04	0.111	18.2	1.4	8.05	0	14

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Divalent Iron

Equipment: HACH IR-18C

Analysis Time: 1702

Concentration: 0 mg/L

Notes: @ WELL HEAD

Carbon Dioxide:

Equipment: Chemetrics Test Kit

Analysis Time: 1713

Range Used:	Range	Concentration ppm
☒	10 to 100 ppm	10
☐	100 to 1000 ppm	
☐	250 to 2500 ppm	

Concentration: 10 ppm

Notes: @ WELL HEAD

Dissolved Oxygen

Equipment: Chemetrics Test Kit

Analysis Time: 1710

Range Used:	Range	Concentration ppm
☐	0 to 1 ppm	
☒	1 to 12 ppm	6

Concentration: 6 ppm

Notes: @ WELL HEAD

Hydrogen Sulfide

Equipment: HACH HS-C

Analysis Time: 1704

Concentration: 0 mg/L

Notes: @ WELL HEAD

KEB

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NSB NLON, CT

Project No.: CTO 312

Sampled By: MATT W.

Sample ID No.: S7MW05S 01

Sample Location: 7MW5S

Duplicate: ☐

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Sulfate:

Equipment: HACH DR-850 Colorimeter

Program No.: KS ~~or~~ 92

Concentration: 5 KS mg/L

Notes: 7 MG/L

5 X 1.33 = 6.65 MG/L

CORRECTION FACTOR = 1.33

Analysis Time: 1739

Filtered: ☐

Manganese:

Equipment: HACH DR-850 Colorimeter

Program No.: 41

Concentration: 0 mg/L

Notes:

Analysis Time: 1755

Filtered: ☐

Nitrite:

Equipment: HACH DR-850 Colorimeter

Program No.: 62

Concentration: 0.001 mg/L

Notes:

Analysis Time: 1812

Reagent Blank Correction: ☐

Standard Solution: ☐ Results: 1807

Nitrate:

Equipment: HACH DR-850 Colorimeter

Program No.: 55

Concentration: 0.24 mg/L

Analysis Time: 1842

Nitrite Interference Treatment: ☐

Standard Solution: ☐ Results: _____

Reagent Blank Correction: ☐

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

7/28

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

DUP

Tetra Tech NUS, Inc.

Project Site Name: NSB NLON, CT
Project No.: CT 312
Sampled By:

Sample ID No.: FD071000 1
Sample Location: 7MW5S
Duplicate: ☒

SAMPLING DATA:

Date: 7.10.00 Time: 0000	Color (Visual)	pH (SU)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (Meter, mg/l)	Sal. (%)	ORP mV
Method: GRUNDFOS	CLEAR	6.04	0.111	18.2	1.4	8.05	0	141

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Divalent Iron

Equipment: HACH IR-18C

Analysis Time: 1700

Concentration: 0 mg/L

Notes: @ WELL HEAD

Carbon Dioxide:

Equipment: Chemetrics Test Kit

Analysis Time: 1716

Range Used:	Range	Concentration ppm
☑	10 to 100 ppm	10.5
☐	100 to 1000 ppm	
☐	250 to 2500 ppm	

Concentration: 10.5 ppm

Notes: @ WELL HEAD

Dissolved Oxygen

Equipment: Chemetrics Test Kit

Analysis Time: 1720

Range Used:	Range	Concentration ppm
☐	0 to 1 ppm	
☒	1 to 12 ppm	7

Concentration: 7 ppm

Notes: @ WELL HEAD

Hydrogen Sulfide

Equipment: HACH HS-C

Analysis Time: 1707

Concentration: 0 mg/L

Notes: @ WELL HEAD

RSS

DUP

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NSB NLON, CT

Project No.: CTO 312

Sampled By:

Sample ID No.: FD 0710001

Sample Location: 7MW55

Duplicate: ☒

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Sulfate:

Equipment: HACH DR-850 Colorimeter

Program No.: KS ~~or~~ 92

Concentration: 8 mg/L

6 X 1.33 = 7.98 mg/L

Analysis Time: 1749

Filtered: ☐

Notes:

CORRECTION FACTOR = 1.33

Manganese:

Equipment: HACH DR-850 Colorimeter

Program No.: 41

Concentration: 0 mg/L

Analysis Time: 1800

Filtered: ☐

Notes:

Nitrite:

Equipment: HACH DR-850 Colorimeter

Program No.: 62

Concentration: 0.001 mg/L

Analysis Time: 1829

Reagent Blank Correction: ☐

Standard Solution: ☐ Results: _____

Notes:

Nitrate:

Equipment: HACH DR-850 Colorimeter

Program No.: 55

Concentration: 0.22 mg/L

Analysis Time: 1912

Nitrite Interference Treatment: ☐

Reagent Blank Correction: ☐

Standard Solution: ☐ Results: _____

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

K 98

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NSB NLON, CT

Project No.: CT 312

Sampled By: MATT WOOLFORD

Sample ID No.: S7MW05D 01

Sample Location: 7MW5D

Duplicate: ☐

SAMPLING DATA:

Date: 7·11·00 / Time: 0750	Color (Visual)	pH (SU)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (Meter, mg/l)	Sal. (%)	ORP mV
Method: GRUNDFOS	CLEAR	7.17	0.820	14.2	16.9	3.51	0	33

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Divalent Iron

Equipment: HACH IR-18C

Analysis Time: 0821

Concentration: 0 mg/L

Notes:

Carbon Dioxide:

Equipment: Chemetrics Test Kit

Analysis Time: 0815

Range Used:	Range	Concentration ppm
☒	10 to 100 ppm	<10
☐	100 to 1000 ppm	
☐	250 to 2500 ppm	

Concentration: <10 ppm

Notes:

Dissolved Oxygen

Equipment: Chemetrics Test Kit

Analysis Time: 0812

Range Used:	Range	Concentration ppm
☐	0 to 1 ppm	
☒	1 to 12 ppm	3

Concentration: 3 ppm

Notes:

Hydrogen Sulfide

Equipment: HACH HS-C

Analysis Time: 0818

Concentration: 0 mg/L

Notes:

ANALYSIS (ON THIS PG)
WERE RUN FOR A 500 ML PE BOTTLE
@ THE WELL, NOT FROM PUMP DISCHARGE.
THIS WAS DUE TO THE WELL GOING DRY.
SEE FIELD NOTES ON SAMPLE SHEET

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NSB NLON, CT
Project No.: CTO 312
Sampled By: M. W.

Sample ID No.: 57MW05D 01
Sample Location: 7MW5D
Duplicate: ☐

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Sulfate:

Equipment: HACH DR-850 Colorimeter
Analysis Time: 0943
Program No.: KS ~~or~~ 92
Concentration: 81 mg/L
61 x1.33 = 81.13 mg/L
Filtered: ☐
Notes:
CORRECTION FACTOR = 1.33

Manganese:

Equipment: HACH DR-850 Colorimeter
Analysis Time: 0955
Program No.: 41
Concentration: 0 mg/L
Filtered: ☐
Notes:

Nitrite:

Equipment: HACH DR-850 Colorimeter
Analysis Time: 1025
Program No.: 62
Concentration: 0.006 mg/L
Reagent Blank Correction: ☐
Standard Solution: ☐ Results:
Notes:

Nitrate:

Equipment: HACH DR-850 Colorimeter
Analysis Time: 1110
Program No.: 55
Concentration: 0.16 mg/L
Nitrite Interference Treatment: ☑ YES
Standard Solution: ☐ Results:
Reagent Blank Correction: ☐
Standard Additions: ☐ Digits Required: 0.1ml:____ 0.2ml:____ 0.3ml:____
Notes:

KES

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NSB NLON, CT

Project No.: CT 312

Sampled By: DAVE C.

Sample ID No.: S7MW06S01

Sample Location: 7MW6S

Duplicate: ☐

SAMPLING DATA:

	Color (Visual)	pH (SU)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (Meter, mg/l)	Sal. (%)	ORP mV
Date: 1205-7.11.00								
Time: 1205								
Method: GRUNDFOS	CLEAR	6.11	0.426	23.5	2.0	0.43	0	-76

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Divalent Iron

Equipment: HACH IR-18C

Analysis Time: 1237

Concentration: 2 mg/L

Notes: @ WELL HEAD

Carbon Dioxide:

Equipment: Chemetrics Test Kit

Analysis Time: 1243

Range Used:	Range	Concentration ppm
☒	10 to 100 ppm	45
☐	100 to 1000 ppm	
☐	250 to 2500 ppm	

Concentration: 45 ppm

Notes: @ WELL HEAD

Dissolved Oxygen

Equipment: Chemetrics Test Kit

Analysis Time: 1241

Range Used:	Range	Concentration ppm
☒	0 to 1 ppm	0.05
☐	1 to 12 ppm	

Concentration: 0.05 ppm

Notes: @ WELL HEAD

Hydrogen Sulfide

Equipment: HACH HS-C

Analysis Time: 1239

Concentration: 0 mg/L

Notes: @ WELL HEAD

KES

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NSB NLON, CT

Project No.: CTO 312

Sampled By: DAVE CERCONE

Sample ID No.: 57MW06S01

Sample Location: 7MW6S

Duplicate: ☐

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Sulfate:

Equipment: HACH DR-850 Colorimeter

Analysis Time: 1325

Program No.: KS ~~or~~ 92

Concentration: 44 mg/L

33 X 1.33 = 43.89 mg/L

Filtered: ☐

Notes:

CORRECTION FACTOR = 1.33

Manganese:

Equipment: HACH DR-850 Colorimeter

Analysis Time: 1343

Program No.: 41

Concentration: 0.5 mg/L

Filtered: ☐

Notes:

Nitrite:

Equipment: HACH DR-850 Colorimeter

Analysis Time: 1410

Program No.: 62

Concentration: 0.002 mg/L

Reagent Blank Correction: ☐

Standard Solution: ☐ Results: _____

Notes:

Nitrate:

Equipment: HACH DR-850 Colorimeter

Analysis Time: 1502

Program No.: 55

Concentration: 0.02 mg/L

Nitrite Interference Treatment: ☑ YES

Standard Solution: ☐ Results: _____

Reagent Blank Correction: ☐

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

KES

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NSB NLON, CT

Project No.: CT 312

Sampled By: MATT W.

Sample ID No.: 57MW07S 01

Sample Location: 7MW7S

Duplicate: ☐

SAMPLING DATA:

	Color (Visual)	pH (SU)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (Meter, mg/l)	Sal. (%)	ORP mV
Date: 7.10.00								
Time: 0910								
Method: GRUNDFOS	CLEAR	6.61	0.375	21.3	1.2	2.40	0	99

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Divalent Iron

Equipment: HACH IR-18C

Analysis Time: 0915

Concentration: 0 mg/L

Notes: @ WELL HEAD

Carbon Dioxide:

Equipment: Chemetrics Test Kit

Analysis Time: 0924

Range Used:	Range	Concentration ppm
☒	10 to 100 ppm	17
☐	100 to 1000 ppm	
☐	250 to 2500 ppm	

Concentration: 17 ppm

Notes: @ WELL HEAD

Dissolved Oxygen

Equipment: Chemetrics Test Kit

Analysis Time: 0928

Range Used:	Range	Concentration ppm
☐	0 to 1 ppm	
☒	1 to 12 ppm	2.5

Concentration: 2.5 ppm

Notes: @ WELL HEAD

Hydrogen Sulfide

Equipment: HACH HS-C

Analysis Time: 0921

Concentration: 0 mg/L

Notes: @ WELL HEAD

KSD

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NSB NLON, CT

Project No.: CTO 312

Sampled By: MATT W.

Sample ID No.: S7MW07S 01

Sample Location: 7MW7S

Duplicate: ☐

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Sulfate:

Equipment: HACH DR-850 Colorimeter

Analysis Time: 1050

Program No.: 125 ~~91~~ 92

Concentration: 19 mg/L

14 x 1.33 = 18.62 mg/L

Filtered: ☐

Notes:

CORRECTION = 1.33

Manganese:

Equipment: HACH DR-850 Colorimeter

Analysis Time: 1102

Program No.: 41

Concentration: 0 mg/L

Filtered: ☐

Notes:

Nitrite:

Equipment: HACH DR-850 Colorimeter

Analysis Time: 1130

Program No.: 62

Concentration: 0.005 mg/L

Reagent Blank Correction: ☐

Standard Solution: ☐ Results: _____

Notes:

Nitrate:

Equipment: HACH DR-850 Colorimeter

Analysis Time: 1210

Program No.: 55

Concentration: 0.05 mg/L

Nitrite Interference Treatment: ☑ YES

Standard Solution: ☐ Results: _____

Reagent Blank Correction: ☐

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

K E S

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NSB NLON, CT

Project No.: CT 312

Sampled By: M.W. / K.S.

Sample ID No.: S7MW8S 01

Sample Location: 7MW8S

Duplicate: ☐

SAMPLING DATA:

Date: 7.9.00	Color (Visual)	pH (SU)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (Meter, mg/l)	Sal. (%)	ORP mV
Time:								
Method: GRUNDFOS	CLEAR	6.42	0.189	22.0	3.7	0.35	0	-36

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Divalent Iron @ WELL HEAD

Equipment: HACH IR-18C

Analysis Time: 1011

Concentration: 2.0 mg/L

Notes:

Carbon Dioxide: @ WELL HEAD

Equipment: Chemetrics Test Kit

Analysis Time: 1033

Range Used:	Range	Concentration ppm
☒	10 to 100 ppm	27
☐	100 to 1000 ppm	
☐	250 to 2500 ppm	

Concentration: 27 ppm

Notes:

Dissolved Oxygen @ WELL HEAD

Equipment: Chemetrics Test Kit

Analysis Time: 1029

Range Used:	Range	Concentration ppm
☒	0 to 1 ppm	0.2
☐	1 to 12 ppm	

Concentration: 0.2 ppm

Notes:

Hydrogen Sulfide @ WELL HEAD

Equipment: HACH HS-C

Analysis Time: 1018

Concentration: 0 mg/L

Notes:

KS

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NSB NLON, CT
Project No.: CTO 312
Sampled By: MW / KS

Sample ID No.: S7MW08S 01
Sample Location: 7MW08S
Duplicate: ☐

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Sulfate:

Equipment: HACH DR-850 Colorimeter
Analysis Time: 1225
Program No.: KS ~~9~~92
0 X 1.33 = 0 mg/L
Concentration: 0 mg/L
Filtered: ☐
Notes:
CORRECTION FACTOR = 1.33

Manganese:

Equipment: HACH DR-850 Colorimeter
Analysis Time: 1230
Program No.: 41
Concentration: 0 mg/L
Filtered: ☐
Notes:

Nitrite:

Equipment: HACH DR-850 Colorimeter
Analysis Time: 1245
Program No.: 62
Concentration: 0.001 mg/L
Reagent Blank Correction: ☐
Standard Solution: ☐ Results: _____
Notes:

Nitrate:

Equipment: HACH DR-850 Colorimeter
Analysis Time: 1255
Program No.: 55
Concentration: 0.01 mg/L
Nitrite Interference Treatment: ☐ NO 0.001
Standard Solution: ☐ Results: _____
Reagent Blank Correction: ☐
Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____
Notes:

KS

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NSB NLON, CT
Project No.: CT 312
Sampled By: M. W.

Sample ID No.: S7MW09S 01
Sample Location: 7MW9S
Duplicate: ☐

SAMPLING DATA:

	Color (Visual)	pH (SU)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (Meter, mg/l)	Sal. (%)	ORP mV
Date: 7·11·00								
Time: 1200								
Method: GRUNDFOS	CLEAR	5.88	0.580	17.8	2.2	1.06	0	55

SAMPLE COLLECTION/ANALYSIS INFORMATION:

→ TO LT. TEA COLOR

Divalent Iron

Equipment: HACH IR-18C

Analysis Time: 1218

Concentration: 0 mg/L

Notes: @ WELL HEAD

Carbon Dioxide:

Equipment: Chemetrics Test Kit

Analysis Time: 1227

Range Used:	Range	Concentration ppm
☒	10 to 100 ppm	50
☐	100 to 1000 ppm	
☐	250 to 2500 ppm	

Concentration: 50 ppm

Notes: @ WELL HEAD

Dissolved Oxygen

Equipment: Chemetrics Test Kit

Analysis Time: 1224

Range Used:	Range	Concentration ppm
☐	0 to 1 ppm	
☒	1 to 12 ppm	3

Concentration: 3 ppm

Notes: @ WELL HEAD

Hydrogen Sulfide

Equipment: HACH HS-C

Analysis Time: 1222

Concentration: 0 mg/L

Notes: @ WELL HEAD

SAMPLE LITE TEA COLOR

KEB

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NSB NLON, CT
Project No.: CTO 312
Sampled By: MATT W.

Sample ID No.: 57MW09S 01
Sample Location: 7MW9S
Duplicate: ☐

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Sulfate:

Equipment: HACH DR-850 Colorimeter
Analysis Time: 1315
Program No.: KS ~~or~~ 92
22 X 1.33 = 29.26 MG/L
Concentration: 29 mg/L
Filtered: ☐
Notes:
CORRECTION FACTOR = 1.33

Manganese:

Equipment: HACH DR-850 Colorimeter
Analysis Time: 1337
Program No.: 41
Concentration: 0.5 mg/L
Filtered: ☐
Notes:

Nitrite:

Equipment: HACH DR-850 Colorimeter
Analysis Time: 1350
Program No.: 62
Concentration: 0 mg/L
Reagent Blank Correction: ☐
Standard Solution: ☐ Results: _____
Notes:

Nitrate:

Equipment: HACH DR-850 Colorimeter
Analysis Time: 1430
Program No.: 55
Concentration: 0 mg/L
Nitrite Interference Treatment: ☐
Standard Solution: ☐ Results: _____
Reagent Blank Correction: ☐
Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____
Notes:

KSS

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NSB NLON, CT
Project No.: CT 312
Sampled By: K. SIMPSON

Sample ID No.: S7MW10S 01
Sample Location: 7MW10S
Duplicate: ☐

SAMPLING DATA:

	Color (Visual)	pH (SU)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (Meter, mg/l)	Sal. (%) KS	ORP mV
Date: 7-7-00								
Time: 1130								
Method: GRUNDFOS	CLEAR	6.10	0.459	17.0	0	5.25	~~162~~ 0	162

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Divalent Iron @ WELL HEAD

Equipment: HACH IR-18C

Analysis Time: 1202

Concentration: 0 mg/L

Notes:

Carbon Dioxide:

Equipment: Chemetrics Test Kit

Analysis Time: 1217

Range Used:	Range	Concentration ppm
☐	10 to 100 ppm	
☒	100 to 1000 ppm	
☐	250 to 2500 ppm	

Concentration: 28 ppm

Notes:

Dissolved Oxygen @ WELL HEAD

Equipment: Chemetrics Test Kit

Analysis Time: 1208

Range Used:	Range	Concentration ppm
☐	0 to 1 ppm	
☒	1 to 12 ppm	2

Concentration: 2.0 ppm

Notes:

Hydrogen Sulfide @ WELL HEAD

Equipment: HACH HS-C

Analysis Time: 1153

Concentration: 0 mg/L

Notes:

KS

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NSB NLON, CT

Project No.: CTO 312

Sampled By: K. SIMPSON

Sample ID No.: S7MW10S 01

Sample Location: 7MW10S

Duplicate: ☐

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Sulfate:

Equipment: HACH DR-850 Colorimeter

Program No.: KS ~~or~~ 92

28 X 1.33 = 37.3 mg/L

Analysis Time: 1345

Concentration: 37 mg/L

Filtered: ☐

Notes:

CORRECTION FACTOR = 1.33

Manganese:

Equipment: HACH DR-850 Colorimeter

Analysis Time: 1400

Program No.: 41

Concentration: 0.2 mg/L

Filtered: ☐

Notes:

Nitrite:

Equipment: HACH DR-850 Colorimeter

Analysis Time: 1418

Program No.: 62

Concentration: 0.001 mg/L

Reagent Blank Correction: ☐

Standard Solution: ☐ Results: _____

Notes:

Nitrate:

Equipment: HACH DR-850 Colorimeter

Analysis Time: 1508

Program No.: 55

Concentration: 0.43 mg/L

Nitrite Interference Treatment: ☑ Yes

Standard Solution: ☐ Results: _____

Reagent Blank Correction: ☐

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

KSP

DUP

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NSB NLON, CT

Project No.: CT 312

Sampled By: K. SIMPSON

Sample ID No.: FD 070700 01

Sample Location: 7MW10S

Duplicate: ☒

SAMPLING DATA:

	Color (Visual)	pH (SU)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (Meter, mg/l)	Sal. (%)	ORP mV
Date: 7.7.00								
Time: 1130								
Method: GRUND FOS	CLEAR	6.10	0.459	17.0	0	5.25	0	162

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Divalent Iron

@ WELL HEAD

Equipment: HACH IR-18C

Analysis Time: 1158

Concentration: 0 mg/L

Notes:

Carbon Dioxide:

Equipment: Chemetrics Test Kit

Analysis Time: 1215

Range Used:	Range	Concentration ppm
☐	10 to 100 ppm	
☒	100 to 1000 ppm	25
☐	250 to 2500 ppm	

Concentration: 25 ppm

Notes:

Dissolved Oxygen

@ WELL HEAD

Equipment: Chemetrics Test Kit

Analysis Time: 1205

Range Used:	Range	Concentration ppm
☒ LS	0 to 1 ppm	
☒	1 to 12 ppm	2

Concentration: 2.0 ppm

Notes:

Hydrogen Sulfide

@ WELL HEAD

Equipment: HACH HS-C

Analysis Time: 1150

Concentration: 0 mg/L

Notes:

KEJ

DUP

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NSB NLON, CT

Project No.: CTO 312

Sampled By: K. SIMPSON

Sample ID No.: FD070700-01

Sample Location: 7MW10S

Duplicate: ☒

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Sulfate:

Equipment: HACH DR-850 Colorimeter

Analysis Time: 1351

Program No.: KS ~~or~~ 92

Concentration: 37 mg/L

28 x 1.33 = 37.3 mg/L

Filtered: ☐

Notes:

CORRECTION FACTOR = 1.33

Manganese:

Equipment: HACH DR-850 Colorimeter

Analysis Time: 1403

Program No.: 41

Concentration: 0.1 mg/L

Filtered: ☐

Notes:

Nitrite:

Equipment: HACH DR-850 Colorimeter

Analysis Time: 1426

Program No.: 62

Concentration: 0.008 mg/L

Reagent Blank Correction: ☐

Standard Solution: ☐ Results: _____

Notes:

Nitrate:

Equipment: HACH DR-850 Colorimeter

Analysis Time: 1625

Program No.: 55

Concentration: 0.21 mg/L

Nitrite Interference Treatment: ☑ YES

Standard Solution: ☐ Results: _____

Reagent Blank Correction: ☐

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

REP

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NSB NLON, CT

Project No.: CT 312

Sampled By: MATT WOOLFORD

Sample ID No.: S7MW11S 01

Sample Location: 7MW11S

Duplicate: ☐

SAMPLING DATA:

	Color (Visual)	pH (SU)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (Meter, mg/l)	Sal. (%)	ORP mV
Date: 7.11.00								
Time: 1525								
Method: GRUNDFOS	CLEAR	6.14	0.547	24.2	0.3	0.45	0	11

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Divalent Iron

Equipment: HACH IR-18C

Analysis Time: 1526

Concentration: 0.6 mg/L

Notes: @ WELL HEAD

Carbon Dioxide:

Equipment: Chemetrics Test Kit

Analysis Time: 1538

Range Used:	Range	Concentration ppm
☒	10 to 100 ppm	42
☐	100 to 1000 ppm	
☐	250 to 2500 ppm	

Concentration: 42 ppm

Notes: @ WELL HEAD

Dissolved Oxygen

Equipment: Chemetrics Test Kit

Analysis Time: 1535

Range Used:	Range	Concentration ppm
☒	0 to 1 ppm	0.2
☐	1 to 12 ppm	

Concentration: 0.2 ppm

Notes: @ WELL HEAD

Hydrogen Sulfide

Equipment: HACH HS-C

Analysis Time: 1531

Concentration: 0 mg/L

Notes: @ WELL HEAD

KEB

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NSB NLON, CT

Project No.: CTO 312

Sampled By: M. W.

Sample ID No.: S7MW11S 01

Sample Location: 7MW11S

Duplicate: ☐

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Sulfate:

Equipment: HACH DR-850 Colorimeter

Program No.: KS ~~or~~ 92

Concentration: 41 mg/L

31 X1.33 = 41.23 mg/L

Analysis Time: 1618

Filtered: ☐

Notes:

CORRECTION FACTOR = 1.33

Manganese:

Equipment: HACH DR-850 Colorimeter

Program No.: 41

Concentration: 0.5 mg/L

Analysis Time: 1626

Filtered: ☐

Notes:

Nitrite:

Equipment: HACH DR-850 Colorimeter

Program No.: 62

Concentration: 0 mg/L

Analysis Time: 1640

Reagent Blank Correction: ☐

Standard Solution: ☐ Results: _____

Notes:

Nitrate:

Equipment: HACH DR-850 Colorimeter

Program No.: 55

Concentration: >0.55 mg/L

Analysis Time: 1707

Nitrite Interference Treatment: ☐

Standard Solution: ☐ Results: _____

Reagent Blank Correction: ☐

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes: @ METER LIMIT

KES

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NSB NLON, CT

Project No.: CT 312

Sampled By: DAVE C.

Sample ID No.: S7 B325MW0101

Sample Location: B325 MW1

Duplicate: ☐

SAMPLING DATA:

	Color (Visual)	pH (SU)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (Meter, mg/l)	Sal. (%)	ORP mV
Date: 7.9.00 Time: 0950								
Method: GRUNDFOS	CLEAR	6.26	0.618	20.5	0.7	1.13	0	141

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Divalent Iron

Equipment: HACH IR-18C

Analysis Time: 1010

Concentration: 0 mg/L

Notes: @ WELL HEAD

Carbon Dioxide:

Equipment: Chemetrics Test Kit

Analysis Time: 1024

Range Used:	Range	Concentration ppm
☒	10 to 100 ppm	33
☐	100 to 1000 ppm	
☐	250 to 2500 ppm	

Concentration: 33 ppm

Notes: @ WELL HEAD

Dissolved Oxygen

Equipment: Chemetrics Test Kit

Analysis Time: 1022

Range Used:	Range	Concentration ppm
☒	0 to 1 ppm	0.6
☐	1 to 12 ppm	

Concentration: 0.6 ppm

Notes:

Hydrogen Sulfide

Equipment: HACH HS-C

Analysis Time: 1015

Concentration: 0 mg/L

Notes: @ WELL HEAD

7K 5-8

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NSB NLON, CT

Project No.: CTO 312

Sampled By: DAVE C.

Sample ID No.: 57B325MW01 01

Sample Location: B325MW01

Duplicate: ☐

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Sulfate:

Equipment: HACH DR-850 Colorimeter

Analysis Time: 1105

Program No.: KS ~~or~~ 92

Concentration: 55 mg/L

41 X 1.33 = 54.53 mg/L

Filtered: ☐

Notes:

CORRECTION FACTOR = 1.33

Manganese:

Equipment: HACH DR-850 Colorimeter

Analysis Time: 1117

Program No.: 41

Concentration: 0 mg/L

Filtered: ☐

Notes:

Nitrite:

Equipment: HACH DR-850 Colorimeter

Analysis Time: 1140

Program No.: 62

Concentration: 0.005 mg/L

Reagent Blank Correction: ☐

Standard Solution: ☐ Results: _____

Notes:

Nitrate:

Equipment: HACH DR-850 Colorimeter

Analysis Time: 1212

Program No.: 55

Concentration: 0.13 mg/L

Nitrite Interference Treatment: ☑ YES

Standard Solution: ☐ Results: _____

Reagent Blank Correction: ☐

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NSB NLON, CT
Project No.: CT 312
Sampled By: MATT W.

Sample ID No.: 57B325MW03 01
Sample Location: B325MW3
Duplicate: ☐

SAMPLING DATA:

	Color (Visual)	pH (SU)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (Meter, mg/l)	Sal. (%)	ORP mV
Date: 7-9-00								
Time: 1530								
Method: GRUNDFOS	CLEAR	6.29	0.538	21.8	5	0.76	0	94

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Divalent Iron

Equipment: HACH IR-18C

Analysis Time: 1541

Concentration: 0 mg/L

Notes: @ WELL HEAD

Carbon Dioxide:

Equipment: Chemetrics Test Kit

Analysis Time: 1549

Range Used:	Range	Concentration ppm
☒	10 to 100 ppm	40
☐	100 to 1000 ppm	
☐	250 to 2500 ppm	

Concentration: 40 ppm

Notes: @ WELL HEAD

Dissolved Oxygen

Equipment: Chemetrics Test Kit

Analysis Time: 1545

Range Used:	Range	Concentration ppm
☒	0 to 1 ppm	0.35
☐	1 to 12 ppm	

Concentration: 0.35 ppm

Notes: @ WELL HEAD

Hydrogen Sulfide

Equipment: HACH HS-C

Analysis Time: 1537

Concentration: 0 mg/L

Notes: @ WELL HEAD

TK SS

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NSB NLON, CT

Project No.: CTO 312

Sampled By: MATT W.

Sample ID No.: 57B325MW03d

Sample Location: B325 MW 3

Duplicate: ☐

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Sulfate:

Equipment: HACH DR-850 Colorimeter

Program No.: KS ~~01~~ 92

Concentration: 41 mg/L

31 X 1.33 = 41.23 mg/L

Analysis Time: 1634

Filtered: ☐

Notes:

CORRECTION FACTOR = 1.33

Manganese:

Equipment: HACH DR-850 Colorimeter

Program No.: 41

Concentration: 0 mg/L

Analysis Time: 1642

Filtered: ☐

Notes:

Nitrite:

Equipment: HACH DR-850 Colorimeter

Program No.: 62

Concentration: 0.005 mg/L

Analysis Time: 1655

Reagent Blank Correction: ☐

Standard Solution: ☐ Results: _____

Notes:

Nitrate:

Equipment: HACH DR-850 Colorimeter

Program No.: 55

Concentration: 0.38 mg/L

Analysis Time: 1710

Nitrite Interference Treatment: ☑ YES

Standard Solution: ☐ Results: _____

Reagent Blank Correction: ☐

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

Kirk S. Simp

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NSB NLON, CT
Project No.: CT 312
Sampled By: DAVE CERCONE

Sample ID No.: S7B325MW04 01
Sample Location: B325 MW4
Duplicate: ☐

SAMPLING DATA:

Date: 7.10.00	Color	pH	S.C.	Temp.	Turbidity	DO	Sal.	ORP
Time:	(Visual)	(SU)	(mS/cm)	(°C)	(NTU)	(Meter, mg/l)	(%)	mV
Method: GRUNDFOS	CLEAR	6.64	0.415	22.3	4.4	2.48	0	101

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Divalent Iron

Equipment: HACH IR-18C

Analysis Time: 0958

Concentration: 0 mg/L

Notes: @ WELL HEAD

Carbon Dioxide:

Equipment: Chemetrics Test Kit

Analysis Time: 1012

Range Used:	Range	Concentration ppm
☒	10 to 100 ppm	26
☐	100 to 1000 ppm	
☐	250 to 2500 ppm	

Concentration: 26 ppm

Notes: @ WELL HEAD

Dissolved Oxygen

Equipment: Chemetrics Test Kit

Analysis Time: 1007

Range Used:	Range	Concentration ppm
☐	0 to 1 ppm	
☒	1 to 12 ppm	2

Concentration: 2 ppm

Notes: @ WELL HEAD

Hydrogen Sulfide

Equipment: HACH HS-C

Analysis Time: 1004

Concentration: 0 mg/L

Notes: @ WELL HEAD

PURGE/DEV. WELL ON 7.9.00
PURGE/SAMPLED ON 7.10.00

TKS

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NSB NLON, CT
Project No.: CTO 312
Sampled By: DAVE CERCONE

Sample ID No.: S7B325MW0401
Sample Location: B325MW4
Duplicate: ☐

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Sulfate:

Equipment: HACH DR-850 Colorimeter
Analysis Time: 1043
Program No.: KS ~~or~~ 92
14 X1.33 = 18.62 mg/L
Concentration: 19 mg/L
Filtered: ☐
Notes:
CORRECTION FACTOR = 1.33

Manganese:

Equipment: HACH DR-850 Colorimeter
Analysis Time: 1058
Program No.: 41
Concentration: 0 mg/L
Filtered: ☐
Notes:

Nitrite:

Equipment: HACH DR-850 Colorimeter
Analysis Time: 1108
Program No.: 62
Concentration: 0.002 mg/L
Reagent Blank Correction: ☐
Standard Solution: ☐ Results: _____
Notes:

Nitrate:

Equipment: HACH DR-850 Colorimeter
Analysis Time: 1145
Program No.: 55
Concentration: 0.16 mg/L
Nitrite Interference Treatment: ☑ YES
Standard Solution: ☐ Results: _____
Reagent Blank Correction: ☐
Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____
Notes:

KEB

SITE 23 - TANK FARM
NATURAL ATTENUATION

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NSB NLON, CT

Project No.: CT 312

Sampled By: DON W

Sample ID No.: S23 MW025 01

Sample Location: S23 MW025

Duplicate: ☐

SAMPLING DATA:

	Color (Visual)	pH (SU)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (Meter, mg/l)	Sal. (%)	ORP mV
Date: 8.6.00								
Time: 1525								
Method: GRUNDFOS	CLOUDY	6.23	0.653	20.2	30	2.48	0	-39

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Divalent Iron

Equipment: HACH IR-18C

Analysis Time: 1533

Concentration: 5.9 mg/L

Notes: @ WELL

Carbon Dioxide:

Equipment: Chemetrics Test Kit

Analysis Time: 1537

Range Used:	Range	Concentration ppm
☒	10 to 100 ppm	100+
☒	100 to 1000 ppm	200
☐	250 to 2500 ppm	

Concentration: 200 ppm

Notes: @ WELL

Dissolved Oxygen

Equipment: Chemetrics Test Kit

Analysis Time: 1534

Range Used:	Range	Concentration ppm
☒	0 to 1 ppm	0.3
☐	1 to 12 ppm	

Concentration: 0.3 ppm

Notes: @ WELL

Hydrogen Sulfide

Equipment: HACH HS-C

Analysis Time: 1528

Concentration: 0 mg/L

Notes: @ WELL

7K 5-8

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NSB NLON, CT

Project No.: CTO 312

Sampled By: DON W.

Sample ID No.: S23MW02S 01

Sample Location: S23MW02S

Duplicate: ☐

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Sulfate:

Equipment: HACH DR-850 Colorimeter

Program No.: KS ~~or~~ 92

Concentration: 7 mg/L

5 X 1.33 = 6.65 mg/L

Analysis Time: 1721

Filtered: ☐

Notes:

CORRECTION FACTOR = 1.33

Manganese:

Equipment: HACH DR-850 Colorimeter

Program No.: 41

Concentration: 7.2 mg/L

Analysis Time: 1724

Filtered: ☐

Notes:

Nitrite:

Equipment: HACH DR-850 Colorimeter

Program No.: 62

Concentration: 0 mg/L

Analysis Time: 1730

Reagent Blank Correction: ☐

Standard Solution: ☐ Results: _____

Notes:

Nitrate:

Equipment: HACH DR-850 Colorimeter

Program No.: 55

Concentration: 0 mg/L

Analysis Time: 1748

Nitrite Interference Treatment: ☐

Reagent Blank Correction: ☐

Standard Solution: ☐ Results: _____

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

TK SP

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NSB NLON, CT

Project No.: CT 312

Sampled By: CHUCK M.

Sample ID No.: S23MW02D 01

Sample Location: S23MW2D

Duplicate: ☐

SAMPLING DATA:

Date: 8-6-00	Color (Visual)	pH (SU)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (Meter, mg/l)	Sal. (%)	ORP mV
Time: 1100								
Method: GRUNDFOS	CLEAR	6.05	0.119	17.2	15	6.43	0	53

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Divalent Iron

Equipment: HACH IR-18C

Analysis Time: 1056

Concentration: 1 mg/L

Notes: @ WELL

Carbon Dioxide:

Equipment: Chemetrics Test Kit

Analysis Time: 1113

Range Used:	Range	Concentration ppm
☒	10 to 100 ppm	25
☐	100 to 1000 ppm	
☐	250 to 2500 ppm	

Concentration: 25 ppm

Notes: @ WELL

Dissolved Oxygen

Equipment: Chemetrics Test Kit

Analysis Time: 1104

Range Used:	Range	Concentration ppm
☐	0 to 1 ppm	
☒	1 to 12 ppm	4

Concentration: 4 ppm

Notes: @ WELL

Hydrogen Sulfide

Equipment: HACH HS-C

Analysis Time: 1052

Concentration: 0 mg/L

Notes: @ WELL

7/5/8

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NSB NLON, CT

Project No.: CTO 312

Sampled By: CHUCK M.

Sample ID No.: S23MW02D01

Sample Location: S23MW02D

Duplicate: ☐

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Sulfate:

Equipment: HACH DR-850 Colorimeter

Analysis Time: 1126

Program No.: KS ~~or~~ 92

7 X 1.33 = 9.31 MG/L

Concentration: 9 mg/L

Filtered: ☐

Notes:

CORRECT FACTOR = 1.33

Manganese:

Equipment: HACH DR-850 Colorimeter

Analysis Time: 1131

Program No.: 41

Concentration: 0 mg/L

Filtered: ☐

Notes:

Nitrite:

Equipment: HACH DR-850 Colorimeter

Analysis Time: 1147

Program No.: 62

Concentration: 0.002 mg/L

Reagent Blank Correction: ☐

Standard Solution: ☐ Results: _____

Notes:

Nitrate:

Equipment: HACH DR-850 Colorimeter

Analysis Time: 1200

Program No.: 55

Concentration: 0.26 mg/L

Nitrite Interference Treatment: ☑ YES

Standard Solution: ☐ Results: _____

Reagent Blank Correction: ☐

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

7 58

DUP.

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NSB NLON, CT

Project No.: CT 312

Sampled By: CHUCK M.

Sample ID No.: FD 080600 1

Sample Location: S23MW2D

Duplicate: ☒

SAMPLING DATA:

	Color (Visual)	pH (SU)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (Meter, mg/l)	Sal. (%)	ORP mV
Date: 8 6 00								
Time: 0000								
Method: GRUNDFOS								

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Divalent Iron

Equipment: HACH IR-18C

Analysis Time: 1100

Concentration: i mg/L

Notes: @ WELL

Carbon Dioxide:

Equipment: Chemetrics Test Kit

Analysis Time: 1116

Range Used:	Range	Concentration ppm
☒	10 to 100 ppm	28
☐	100 to 1000 ppm	
☐	250 to 2500 ppm	

Concentration: 28 ppm

Notes: @ WELL

Dissolved Oxygen

Equipment: Chemetrics Test Kit

Analysis Time: 1106

Range Used:	Range	Concentration ppm
☐	0 to 1 ppm	
☒	1 to 12 ppm	

Concentration: 4 ppm

Notes: @ WELL

Hydrogen Sulfide

Equipment: HACH HS-C

Analysis Time: 1054

Concentration: 0 mg/L

Notes: @ WELL

SAMPLE ID: S23MW02D 01

KES

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NSB NLON, CT

Project No.: CTO 312

Sampled By: CHUCK M.

Sample ID No.: FD 080600 1

Sample Location: S23MW2D

Duplicate: ☒

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Sulfate:

Equipment: HACH DR-850 Colorimeter

Program No.: KS ~~or~~ 92

Concentration: 6 mg/L

6 X 1.33 = 7.98 mg/L

Analysis Time: 1127

Filtered: ☐

Notes:

CORRECTION FACTOR = 1.33

Manganese:

Equipment: HACH DR-850 Colorimeter

Program No.: 41

Concentration: 0 mg/L

Analysis Time: 1136

Filtered: ☐

Notes:

Nitrite:

Equipment: HACH DR-850 Colorimeter

Program No.: 62

Concentration: 0.005 mg/L

Analysis Time: 1150

Reagent Blank Correction: ☐

Standard Solution: ☐ Results: _____

Notes:

Nitrate:

Equipment: HACH DR-850 Colorimeter

Program No.: 55

Concentration: 0.18 mg/L

Analysis Time: 1225

Nitrite Interference Treatment: ☑ YES

Standard Solution: ☐ Results: _____

Reagent Blank Correction: ☐

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

KSJ

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NSB NLON, CT

Project No.: CT 312

Sampled By: CHUCK M.

Sample ID No. S23MW03D 01

Sample Location: 23MW03D

Duplicate: ☐

SAMPLING DATA:

Date: 8·6·00	Color	pH	S.C.	Temp.	Turbidity	DO	Sal.	ORP
Time: 1555	(Visual)	(SU)	(mS/cm)	(°C)	(NTU)	(Meter, mg/l)	(%)	mV
Method: GRUNDFOS	CLEAR	11.72	1.23	17.9	4.1	5.22	0.1	-122

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Divalent Iron

Equipment: HACH IR-18C

Analysis Time: 1559

Concentration: 0 mg/L

Notes: @ WELL

Carbon Dioxide:

Equipment: Chemetrics Test Kit

Analysis Time: 1602

Range Used:	Range	Concentration ppm
☒	10 to 100 ppm	> 10
☒	100 to 1000 ppm	> 1000
☒	250 to 2500 ppm	> 2500

Concentration: > 2500 ppm ?

HIGH PH IN SAMPLE MAY HAVE INTERFERED WITH TEST

Notes: @ WELL

Dissolved Oxygen

Equipment: Chemetrics Test Kit

Analysis Time: 1600

Range Used:	Range	Concentration ppm
☐	0 to 1 ppm	
☒	1 to 12 ppm	4

Concentration: 4 ppm

Notes: @ WELL

Hydrogen Sulfide

Equipment: HACH HS-C

Analysis Time: 1554

Concentration: 0 mg/L

Notes: @ WELL

KSS

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NSB NLON, CT

Project No.: CTO 312

Sampled By: CHUCK M.

Sample ID No.: S23MW03D 01

Sample Location: 23MW03D

Duplicate: ☐

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Sulfate:

Equipment: HACH DR-850 Colorimeter

Program No.: KS ~~or~~ 92

14 X 1.33 = 18.62 mg/L

Analysis Time: 1626

Concentration: 19 mg/L

Filtered: ☐

Notes:

CORRECTION FACTOR = 1.33

Manganese:

Equipment: HACH DR-850 Colorimeter

Analysis Time: 1631

Program No.: 41

Concentration: 0 mg/L

Filtered: ☐

Notes:

Nitrite:

Equipment: HACH DR-850 Colorimeter

Analysis Time: 1640

Program No.: 62

Concentration: 0.022 mg/L

Reagent Blank Correction: ☐

Standard Solution: ☐ Results: _____

Notes:

Nitrate:

Equipment: HACH DR-850 Colorimeter

Analysis Time: 1453

Program No.: 55

Concentration: 0.04 mg/L

Nitrite Interference Treatment: ☑ YES

Standard Solution: ☐ Results: _____

Reagent Blank Correction: ☐

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

KSf

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NSB NLON, CT
Project No.: CT 312
Sampled By: D. CERCONE - K. SIMPSON

Sample ID No.: S23MW045 01
Sample Location: 23MW045
Duplicate: ☐

SAMPLING DATA:

Date: 6-25/26-00	Color	pH	S.C.	Temp.	Turbidity	DO	Sal.	ORP
Time: 1400 (6-26-00)	(Visual)	(SU)	(mS/cm)	(°C)	(NTU)	(Meter, mg/l)	(%)	mV
Method: PERISTALTIC	CLEAR	6.74	0.204	19.8	26	2.69	0	59

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Divalent Iron

Equipment: HACH IR-18C

Analysis Time: 1400

Concentration: 0 mg/L

Notes: @ WELL

Carbon Dioxide:

Equipment: Chemetrics Test Kit

Analysis Time: 1418

Range Used:	Range	Concentration ppm
☑	10 to 100 ppm	12
☐	100 to 1000 ppm	
☐	250 to 2500 ppm	

Concentration: 12 ppm

Notes: @ WELL

Dissolved Oxygen

Equipment: Chemetrics Test Kit

Analysis Time: 1407

Range Used:	Range	Concentration ppm
☐	0 to 1 ppm	
☑	1 to 12 ppm	2.0

Concentration: 2 ppm

Notes: @ WELL

Hydrogen Sulfide

Equipment: HACH HS-C

Analysis Time: 1403

Concentration: 0 mg/L

Notes: @ WELL

WL = 7.26 @ 1345
PURGED ≈ 1 QT THEN STARTED SAMPLING/TEST
SAMPLE @ 1400

KEP

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NSB NLON, CT

Project No.: CTO 312

Sampled By: D. CERCONE/R. SIMPSON

Sample ID No.: 523MW04S01

Sample Location: 23MW04

Duplicate: ☐

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Sulfate:

Equipment: HACH DR-850 Colorimeter

Analysis Time: 1441

Program No.: KS ~~or~~ 92

8 X 1.33 = 10.64

Concentration: 11 mg/L

Filtered: ☐

Notes:

CORRECTION FACTOR = 1.33

Manganese:

Equipment: HACH DR-850 Colorimeter

Analysis Time: 1500

Program No.: 41

Concentration: 0.2 mg/L

Filtered: ☐

Notes:

Nitrite:

Equipment: HACH DR-850 Colorimeter

Analysis Time: 1518

Program No.: 62

Concentration: 0.028 mg/L

Reagent Blank Correction: ☐

Standard Solution: ☐ Results: _____

Notes:

Nitrate:

Equipment: HACH DR-850 Colorimeter

0.440 METER READING
− 0.028 NITRITE
0.412

Analysis Time: 1530

Program No.: 55

Concentration: 0.412 mg/L

Nitrite Interference Treatment: ☑ @1528

Standard Solution: ☐ Results: _____

Reagent Blank Correction: ☐

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

KSP

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NSB NLON, CT
Project No.: CT 312
Sampled By: DON W.

Sample ID No.: S23MW04D01
Sample Location: 2BMW4D
Duplicate: ☐

SAMPLING DATA:

	Color (Visual)	pH (SU)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (Meter, mg/l)	Sal. (%)	ORP mV
Date: 8.4.00								
Time: 1725								
Method: GRUNDFOS	CLEAR	6.64	0.128	16.0	7.3	7.88	0	49

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Divalent Iron

Equipment: HACH IR-18C

Analysis Time: 1724

Concentration: 0 mg/L

Notes: @ WELL

Carbon Dioxide:

Equipment: Chemetrics Test Kit

Analysis Time: 1728

Range Used:	Range	Concentration ppm
☒	10 to 100 ppm	<10
☐	100 to 1000 ppm	
☐	250 to 2500 ppm	

Concentration: <10 ppm

Notes: @ WELL

Dissolved Oxygen

Equipment: Chemetrics Test Kit

Analysis Time: 1726

Range Used:	Range	Concentration ppm
☐	0 to 1 ppm	
☒	1 to 12 ppm	5

Concentration: 5 ppm

Notes: @ WELL

Hydrogen Sulfide

Equipment: HACH HS-C

Analysis Time: 1721

Concentration: 0 mg/L

Notes: @ WELL

7K SS

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NSB NLON, CT

Project No.: CTO 312

Sampled By: DON W.

Sample ID No.: 523MW04D 01

Sample Location: 23MW04D

Duplicate: ☐

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Sulfate:

Equipment: HACH DR-850 Colorimeter

Program No.: KS ~~or~~ 92

Concentration: 8 mg/L

6 x 1.33 = 7.98 mg/L

Analysis Time: 1742

Filtered: ☐

Notes:

CORRECTION FACTOR = 1.33

Manganese:

Equipment: HACH DR-850 Colorimeter

Program No.: 41

Concentration: 0 mg/L

Analysis Time: 1746

Filtered: ☐

Notes:

Nitrite:

Equipment: HACH DR-850 Colorimeter

Program No.: 62

Concentration: 0.005 mg/L

Analysis Time: 1753

Reagent Blank Correction: ☐

Standard Solution: ☐ Results: _____

Notes:

Nitrate:

Equipment: HACH DR-850 Colorimeter

Program No.: 55

Concentration: 0.29 mg/L

Analysis Time: 1812

Nitrite Interference Treatment: ☑ YES

Standard Solution: ☐ Results: _____

Reagent Blank Correction: ☐

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

7/58

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NSB NLON, CT

Project No.: CT 312

Sampled By: CHUCK M.

Sample ID No.: S23 HNUS 2 01

Sample Location: HNUS 2

Duplicate: ☐

SAMPLING DATA:

	Color (Visual)	pH (SU)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (Meter, mg/l)	Sal. (%)	ORP mV
Date: 8.4.00								
Time: 1058								
Method: GRUNDFUS	CLEAR	6.63	0.555	21.2	4.4	0.61	0	-108

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Divalent Iron

Equipment: HACH IR-18C

Analysis Time: 1118

Concentration: 3.2 mg/L

Notes: @ WELL

Carbon Dioxide:

Equipment: Chemetrics Test Kit

Analysis Time: 1126

Range Used:	Range	Concentration ppm
☒	10 to 100 ppm	75
☐	100 to 1000 ppm	
☐	250 to 2500 ppm	

Concentration: 75 ppm

Notes: @ WELL

Dissolved Oxygen

Equipment: Chemetrics Test Kit

Analysis Time: 1124

Range Used:	Range	Concentration ppm
☒	0 to 1 ppm	0.7
☐	1 to 12 ppm	

Concentration: 0.7 ppm

Notes: @ WELL

Hydrogen Sulfide

Equipment: HACH HS-C

Analysis Time: 1112

Concentration: 0 mg/L

Notes: @ WELL

7K 5-8

Tetra Tech NUS, Inc.

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Project Site Name: NSB NLON, CT

Project No.: CTO 312

Sampled By: CHUCK M.

Sample ID No.: S23 HNUS 201

Sample Location: HNUS 2

Duplicate: ☐

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Sulfate:

Equipment: HACH DR-850 Colorimeter

Program No.: KS ~~or~~ 92

Concentration: 11 mg/L

8 x1.33 = 10.64 mg/l

Analysis Time: 1316

Filtered: ☐

Notes:

CORRECTION FACTOR = 1.33

Manganese:

Equipment: HACH DR-850 Colorimeter

Program No.: 41

Concentration: 2.9 mg/L

Analysis Time: 1324

Filtered: ☐

Notes:

Nitrite:

Equipment: HACH DR-850 Colorimeter

Program No.: 62

Concentration: 0 mg/L

Analysis Time: 1335

Reagent Blank Correction: ☐

Standard Solution: ☐ Results: _____

Notes:

Nitrate:

Equipment: HACH DR-850 Colorimeter

Program No.: 55

Concentration: 0 mg/L

Analysis Time: 1355

Nitrite Interference Treatment: ☐

Standard Solution: ☐ Results: _____

Reagent Blank Correction: ☐

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

7(5.8

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NSB NLON, CT
Project No.: CT 312
Sampled By: DON W.

Sample ID No.: S23 HNUS5 01
Sample Location: HNUS 5
Duplicate: ☐

SAMPLING DATA:

	Color (Visual)	pH (SU)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (Meter, mg/l)	Sal. (%)	ORP mV
Date: 8-3-00 Time: 1640								
Method: GRUNDFUS	CLEAR	6.31	0.310	23.6	3.2	0.50	0	-30

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Divalent Iron

Equipment: HACH IR-18C

Analysis Time: 1647

Concentration: 1 mg/L

Notes: @ WELL

Carbon Dioxide:

Equipment: Chemetrics Test Kit

Analysis Time: 1653

Range Used:	Range	Concentration ppm
☒	10 to 100 ppm	55
☐	100 to 1000 ppm	
☐	250 to 2500 ppm	

Concentration: 55 ppm

Notes: @ WELL

Dissolved Oxygen

Equipment: Chemetrics Test Kit

Analysis Time: 1651

Range Used:	Range	Concentration ppm
☒	0 to 1 ppm	0.6
☐	1 to 12 ppm	

Concentration: 0.6 ppm

Notes: @ WELL

Hydrogen Sulfide

Equipment: HACH HS-C

Analysis Time: 1643

Concentration: 1 mg/L

Notes: @ WELL

7 K S 8

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NSB NLON, CT

Project No.: CTO 312

Sampled By:

Sample ID No.: S23 HNUS 5 01

Sample Location: HNUS 5

Duplicate: ☐

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Sulfate:

Equipment: HACH DR-850 Colorimeter

Program No.: KS ~~01~~ 92

8 X 1.33 = 10.64 mg/L

Analysis Time: 1713

Concentration: 11 mg/L

Filtered: ☐

Notes:

CORRECTION FACTOR = 1.33

Manganese:

Equipment: HACH DR-850 Colorimeter

Analysis Time: 1721

Program No.: 41

Concentration: 0.5 mg/L

Filtered: ☐

Notes:

Nitrite:

Equipment: HACH DR-850 Colorimeter

Analysis Time: 1734

Program No.: 62

Concentration: 0 mg/L

Reagent Blank Correction: ☐

Standard Solution: ☐ Results: _____

Notes:

Nitrate:

Equipment: HACH DR-850 Colorimeter

Analysis Time: 1748

Program No.: 55

Concentration: >0.55 mg/L LIMIT

Nitrite Interference Treatment: ☐

Standard Solution: ☐ Results: _____

Reagent Blank Correction: ☐

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

K SJ

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NSB NLON, CT

Project No.: CT 312

Sampled By: DON W.

Sample ID No.: 523 HNUS11 01

Sample Location: 523 HNUS 11

Duplicate: ☐

SAMPLING DATA:

	Color (Visual)	pH (SU)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (Meter, mg/l)	Sal. (%)	ORP mV
Date: 8-6-00								
Time: 1335								
Method: GRUNDFOS	CLEAR	6.57	0.764	17.0	4.7	0.51	0	-117

SAMPLE COLLECTION/ANALYSIS INFORMATION: 0.764

Divalent Iron

Equipment: HACH IR-18C

Analysis Time: 13.55

Concentration: 6.2 mg/L

Notes: @ WELL

Carbon Dioxide:

Equipment: Chemetrics Test Kit

Analysis Time: 1400

Range Used:	Range	Concentration ppm
☒	10 to 100 ppm	80
☐	100 to 1000 ppm	
☐	250 to 2500 ppm	

Concentration: 80 ppm

Notes: @ WELL

Dissolved Oxygen

Equipment: Chemetrics Test Kit

Analysis Time: 1358

Range Used:	Range	Concentration ppm
☒	0 to 1 ppm	0
☐	1 to 12 ppm	

Concentration: 0 ppm

Notes: @ WELL

Hydrogen Sulfide

Equipment: HACH HS-C

Analysis Time: 1354

Concentration: 0 mg/L

Notes: @ WELL

7K 8-8

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NSB NLON, CT

Project No.: CTO 312

Sampled By: DON W.

Sample ID No.: S23 HNUS11 01

Sample Location: HNUS 11

Duplicate: ☐

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Sulfate:

Equipment: HACH DR-850 Colorimeter

Program No.: KS ~~or~~ 92

Concentration: 1.33 mg/L

Notes: 1 mg/L

1 X 1.33 = 1.33 = mg/L

CONNECTION FACTOR = 1.33

Analysis Time: 1409

Filtered: ☐

Manganese:

Equipment: HACH DR-850 Colorimeter

Program No.: 41

Concentration: 5.7 mg/L

Notes:

Analysis Time: 1415

Filtered: ☐

Nitrite:

Equipment: HACH DR-850 Colorimeter

Program No.: 62

Concentration: 0 mg/L

Notes:

Analysis Time: 1430

Reagent Blank Correction: ☐

Standard Solution: ☐ Results: _____

Nitrate:

Equipment: HACH DR-850 Colorimeter

Program No.: 55

Concentration: 0 mg/L

Standard Solution: ☐ Results: _____

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

Analysis Time: 1450

Nitrite Interference Treatment: ☐

Reagent Blank Correction: ☐

K ES

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NSB NLON, CT

Project No.: CT 312

Sampled By: DON W.

Sample ID No.: S23 HNUS 13 01

Sample Location: HNUS 13

Duplicate: ☐

SAMPLING DATA:

	Color (Visual)	pH (SU)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (Meter, mg/l)	Sal. (%)	ORP mV
Date: 8.7.00								
Time: 1025								
Method: GRUNDFOS	CLEAR	5.56	0.274	22.9	1.1	0.27	0	122

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Divalent Iron

Equipment: HACH IR-18C

Analysis Time: 1031

Concentration: 0.7 mg/L

Notes: @ WELL

Carbon Dioxide:

Equipment: Chemetrics Test Kit

Analysis Time: 1038

Range Used:	Range	Concentration ppm
☒	10 to 100 ppm	75
☐	100 to 1000 ppm	
☐	250 to 2500 ppm	

Concentration: 75 ppm

Notes: @ WELL

Dissolved Oxygen

Equipment: Chemetrics Test Kit

Analysis Time: 1033

Range Used:	Range	Concentration ppm
☒	0 to 1 ppm	0.1
☐	1 to 12 ppm	

Concentration: 0.1 ppm

Notes: @ WELL

Hydrogen Sulfide

Equipment: HACH HS-C

Analysis Time: 1027

Concentration: 0 mg/L

Notes: @ WELL

7/58

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NSB NLON, CT

Project No.: CTO 312

Sampled By: DON W.

Sample ID No.: S23 HNUS 13 01

Sample Location: HNUS 13

Duplicate: ☐

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Sulfate:

Equipment: HACH DR-850 Colorimeter

Program No.: KS ~~01~~ 92

6 X 1.33 = 7.98 MS/L

Analysis Time: 1120

Concentration: 7.98 mg/L

Filtered: ☐

Notes: 8

CORRECT FACTOR = 1.33

Manganese:

Equipment: HACH DR-850 Colorimeter

Analysis Time: 1130

Program No.: 41

Concentration: 0.5 mg/L

Filtered: ☐

Notes:

Nitrite:

Equipment: HACH DR-850 Colorimeter

Analysis Time: 1148

Program No.: 62

Concentration: 0 mg/L

Reagent Blank Correction: ☐

Standard Solution: ☐ Results: _____

Notes:

Nitrate:

Equipment: HACH DR-850 Colorimeter

Analysis Time: 1214

Program No.: 55

Concentration: 0.05 mg/L

Nitrite Interference Treatment: ☐

Standard Solution: ☐ Results: _____

Reagent Blank Correction: ☐

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

7 58

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NSB NLON, CT
Project No.: CT 312
Sampled By: DON W.

Sample ID No.: 523 HNUS 20 01
Sample Location: HNUS 20
Duplicate: ☐

SAMPLING DATA:

Date: 8-5-00	Color	pH	S.C.	Temp.	Turbidity	DO	Sal.	ORP
Time: 1620	(Visual)	(SU)	(mS/cm)	(°C)	(NTU)	(Meter, mg/l)	(%)	mV
Method: GRUNDFOS	CLEAR							

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Divalent Iron

Equipment: HACH IR-18C

Analysis Time: 1620

Concentration: 0 mg/L

Notes: @ WELL

Carbon Dioxide:

Equipment: Chemetrics Test Kit

Analysis Time: 1624

Range Used:	Range	Concentration ppm
☒	10 to 100 ppm	85
☐	100 to 1000 ppm	
☐	250 to 2500 ppm	

Concentration: 85 ppm

Notes: @ WELL

Dissolved Oxygen

Equipment: Chemetrics Test Kit

Analysis Time: 1622

Range Used:	Range	Concentration ppm
☐	0 to 1 ppm	
☒	1 to 12 ppm	3

Concentration: 3 ppm

Notes: @ WELL

Hydrogen Sulfide

Equipment: HACH HS-C

Analysis Time: 1617

Concentration: 0 mg/L

Notes: @ WELL

TK EJ

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NSB NLON, CT

Project No.: CTO 312

Sampled By: DON W.

Sample ID No.: S23 HNUS 20 01

Sample Location: HNUS 20

Duplicate: ☐

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Sulfate:

Equipment: HACH DR-850 Colorimeter

Program No.: KS ~~ST~~ 92

36 X 1.33 = 47.88 MG/L

Analysis Time: 1641

Concentration: 48 mg/L

Filtered: ☐

Notes:

CORRECTION FACTOR = 1.33

Manganese:

Equipment: HACH DR-850 Colorimeter

Analysis Time: 1648

Program No.: 41

Concentration: 0.2 mg/L

Filtered: ☐

Notes:

Nitrite:

Equipment: HACH DR-850 Colorimeter

Analysis Time: 1700

Program No.: 62

Concentration: 0.011 mg/L

Reagent Blank Correction: ☐

Standard Solution: ☐ Results: _____

Notes:

Nitrate:

Equipment: HACH DR-850 Colorimeter

Analysis Time: 1715

Program No.: 55

Concentration: >0.55 mg/L LIMIT

Nitrite Interference Treatment: ☑ YES

Standard Solution: ☐ Results: _____

Reagent Blank Correction: ☐

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

KSB

QUALITY ASSURANCE DATA
NATURAL ATTENUATION

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NSB NLON, CT

Project No.: CT 312

Sampled By: R. SIMPSON

Sample ID No.: STANDARD

Sample Location:

Duplicate: ☐

SAMPLING DATA:

Date: 6·22·00	Color	pH	S.C.	Temp.	Turbidity	DO	Sal.	ORP
Time: Q A	(Visual)	(SU)	(mS/cm)	(°C)	(NTU)	(Meter. mg/l)	(%)	mV
Method:								

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Divalent Iron

Equipment: HACH IR-18C

Analysis Time: _____

Concentration: _____ mg/L

NA

Notes:

Carbon Dioxide:

Equipment: Chemetrics Test Kit

Analysis Time: _____

Range Used:	Range	Concentration ppm
☐	10 to 100 ppm	
☐	100 to 1000 ppm	
☐	250 to 2500 ppm	

Concentration: _____ ppm

NA

Notes:

Dissolved Oxygen

Equipment: Chemetrics Test Kit

Analysis Time: _____

Range Used:	Range	Concentration ppm
☐	0 to 1 ppm	
☐	1 to 12 ppm	

Concentration: _____ ppm

Notes:

Hydrogen Sulfide

Equipment: HACH HS-C

Analysis Time: _____

Concentration: _____ mg/L

NA

Notes:

SEE PG 2

Tetra Tech NUS, Inc.

SAMPLE LOG SHEET
NATURAL ATTENUATION PARAMETERS

Project Site Name: NSB NLON, CT

Project No.: CTO 312

Sampled By: KEITH SIMPSON

Sample ID No.: STANDARD

Sample Location:

Duplicate: ☐

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Sulfate: STANDARD = 50 mg/L

1) 40 mg/L
2) 38
3) 35

50 ÷ 37.67 = 1.33

Equipment: HACH DR-850 Colorimeter

Analysis Time: 1400

Program No.: KS ~~ST~~ 92

Concentration: 37.67 mg/L

Filtered: ☐

Notes:

READ X 1.33 (LOT CORRECTION FACTOR) = RESULT IN mg/L

Manganese: STANDARD = 5.0 mg/L

1) 5.2 mg/L
2) 5.2
3) 5.2

Equipment: HACH DR-850 Colorimeter

Analysis Time: 1530

Program No.: 41

Concentration: 5.2 mg/L

Filtered: ☐

Notes:

OK IN RANGE

Nitrite: STANDARD = 0.100 mg/L

Equipment: HACH DR-850 Colorimeter

Analysis Time: 1700

Program No.: 62

Concentration: 0.092 mg/L

Reagent Blank Correction: ☐

Standard Solution: ☐ Results: _____

Notes:

ACCEPTABLE RANGE 0.090 → 0.110

Nitrate: STANDARD = 0.20 mg/L

Equipment: HACH DR-850 Colorimeter

Analysis Time: 1810

Program No.: 55

Concentration: 0.19 mg/L

Nitrite Interference Treatment: ☐

Standard Solution: ☐ Results: _____

Reagent Blank Correction: ☐

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

ACCEPTABLE

SEE ALSO LOG BOOK # 2490

PGS. 100, 101, 102, 103

TITLE ;B-NION
6.22.00

PROJECT NO. 7856
BOOK 2490

Work continued from Page

NATURAL ATTENUATION
PARAMETERS

— HACH —

ACCURACY TEST OF SULFATE: SULFA VER 4 SULFATE REAGENT USING SULFATE STAND. SOL. 50.0 ± 0.5 mg/L AS SO_4 LOT A0112
USING PRG 92

RAN 3 TEST
1) 40 mg/L
2) 38 mg/L
3) 35 mg/L
} AVG = 37.67

S/B 50 mg/L

CALL HACH FOR TECH ASSISTANCE AND WAS TOLD TO DIV 37.67 INTO 50 = 1.33 THIS IS THE MULT. FOR

SULFATE RESULTS FOR LOT A0119 OF ACCUVAC VIALS.
ALSO SEE PG 330 IN METER HANDBOOK
HACH DR/850 COLORIMETER
S/N 980950003985

Work continued to Page

SCIENTIFIC BINDERY PRODUCTIONS CHICAGO 60605

SIGNATURE
WITNESS
DATE 6.22.00
DATE

TITLE NSB-NION
6.22.00

PROJECT NO. 7856
BOOK 2490

Work continued from Page

MANGANESE:
ACCURACY TEST USING A 5.0 mg/L SOLUTION PREPARED FROM HACH MANGANESE STANDARD SOLUTION 1000 ± 10 mg/L AS Mn^{+2}
CAT # 12791-42
LOT A0117

RAN 3 TEST USING PRGM 41
RESULTS =
1) 5.2 mg/L
2) 5.2 mg/L
3) 5.2 mg/L

REAGENTS: BUFFER POWDER PILLOWS CITRATE TYPE CAT# 21076-69
LOT M9120
SODIUM PERIODATE POWDER PILLOWS
CAT # 21077-69
LOT A9160

SEE ALSO PG 175 IN METER HANDBOOK

Work continued to Page

SCIENTIFIC BINDERY PRODUCTIONS CHICAGO 60605

SIGNATURE
WITNESS
DATE 6.22.00
DATE

TITLE NSB-NLON 6-22-00 PROJECT NO. 7856 BOOK 2490

Work continued from Page

NITRITE: ACCURACY CHECK
PREPARED A 0.100 MG/L NO_2-N
STANDARD
USING NITRITE STANDARD
SOLUTION 250 µg/mL
CAT # 23402-49
LOT 0125
EX DATE 8/00
RAN DR/850 PRGM 62
WITH NITRIVER 3 NITRITE
REAGENT (ACCUVAC) LOT A0091

RESULT = 0.092 MG/L ✓

ACCEPTABLE RANGE = 0.090 TO 0.110 MG/L

SEE ALSO PG 200 OF METER HANDBOOK

SCIENTIFIC BINDERY PRODUCTIONS CHICAGO 60605

Work continued to Page

SIGNATURE [signature] DATE 6-22-00
WITNESS DATE

TITLE NSB-NLON 6-22-00 PROJECT NO. 7856 BOOK 2490

Work continued from Page

NITRATE: ACCURACY CHECK
PREPARED A 0.20 MG/L ~~NO_3~~ KNO_3 N
STANDARD SOLUTION
HACH CAT # 307-49
LOT A0112

RAN DR/850 PRGM 55
WITH NITRAVER 6 NITRATE REAGENT
POWDER PILLOWS, CAT # 21072-49
LOT A9246 AND NITRIVER
3 NITRITE REAGENT POWDER PILLOWS
CAT # 21071-69 LOT A9155

RESULT = 0.19 MG/L ✓ NO3-N

FERROUS IRON KIT HACH Fe^{2+}
CAT # 26672-00 0-10 MG/L
MODEL IR-18C
FERROUS IRON REAGENTS
POWDER PILLOWS
CAT # 1037-69 LOT M8303

SCIENTIFIC BINDERY PRODUCTIONS CHICAGO 60605

Work continued to Page

SIGNATURE [signature] DATE 6-22-00
WITNESS DATE

NSB NLON
Natural Attenuation
Field Test

Parameter	Test Kit & Brand	Cat. No.	Range	No. of Samples
Dissolved Oxygen (DO) HR	Chemetrics test kit	K-7512	0-12 ppm	60
Dissolved Oxygen (DO) LR	Chemetrics test kit	K-7501	0-1 ppm	60
Nitrate	DR/850 - HACH	24298-45	0-0.5 mg/l	80
Nitrite	DR/850 - HACH	25120-25	0-0.35 mg/l	80
Sulfate	DR/850 - HACH	25090-25	0-70 mg/l	80
Manganese Mn^{+2}	DR/850 - HACH	24300-00	0-20 mg/l	80
Carbon Dioxide (dissolved)	Chemetrics test kit	K-1910, K-1920, K-1925	10-2500	80
Hydrogen Sulfide	HS-C - HACH	25378-00	0-5 mg/l	80
Divalent iron	IR-18C - HACH	26672-00	0-10 mg/l	80
REDOX (ORP)	Multi Parameter Meter	Field Meter	± 1999mV	All Wells
pH	Multi Parameter Meter	Field Meter	0-14 SU	All Wells
Salinity	Multi Parameter Meter	Field Meter	0-4 %	All Wells
Temp.	Multi Parameter Meter	Field Meter	0-55 ^{o} C	All Wells
Specific Conductivity	Multi Parameter Meter	Field Meter	0-9.99 S/m	All Wells
DO	Multi Parameter Meter	Field Meter	0-19.99 mg/l	All Wells
Turbidity	LaMotte 2020	Field Meter	0-1100 ntu	All Wells

Field meter range based on Horiba model U-22

HACH DR/850 will be used

Divalent Iron = Ferrous Iron

Note: NA parameters Ethene, Ethane, Ammonia, Sulfide, Methane, Chloride, TOC, Alkalinity and Hardness will be run at a fixed-base lab.

No. of Samples: for reagent ordering purposes includes additional supplies for QA and sample reruns.

TITLE NSB-NION NA PARAMETERS (FIELD) **PROJECT NO.** 7856 **BOOK** 2490

Work continued from Page

SAMPLE ID	DATE	mg/L DIVALENT IRON	PPM CO_2	PPM O_2
S7TW08	6.24.00	3.0	40	0.25
S7TW09	6.24.00	1.4	35	2.0
S7NW03D	6.24.00	0	40	0.3
S7TW10	6.25.00	0.6	18	6
S23MW04S	6.26.00	0	12	2
S7NW10S	7.7.00	0	28	2
FD070700-01	7.7.00	0	25	2
S7NW01D	7.7.00	0	17	3
S7NW8S	7.8.00	2.0	27	0.2
S7NW2S	7.8.00	3.5	35	0.6
S7NW2D	7.8.00	0	18	1.5
S7B325NW01	7.9.00	0	33	0.6
S7NW04S	7.9.00	0	33	3
S7B325NW03	7.9.00	0	40	0.35
S7B325NW04	7.10.00	0	26	2
S7NW07S	7.10.00	0	17	2.5
S7NW05S	7.10.00	0	10	6
FD071000	7.10.00	0	10.5	7
S7NW03S	7.11.00	0	45	0.2
S7NW05D	7.11.00	0	<10	3
S7NW6S	7.11.00	2	45	0.05
S7NW9S	7.11.00	0	50	3

SCIENTIFIC BINDERY PRODUCTIONS CHICAGO 60605

Work continued to Page

SIGNATURE K. E. Simp DATE

WITNESS DATE

ALSO S. FIELD FORMS

TITLE NSB-NION NA PARAMETERS **PROJECT NO.** 7856 **BOOK** 2490

Work continued from Page

mg/L HYDROGEN SULFIDE	mg/L SULFATE	mg/L MN	mg/L NITRITE	mg/L NITRATE
0	29	0.8	0	0.01
0	36	0.3	0.004	0.02
0.1	92	0.3	0	0.20
0.2	11	0.5	0	0.03
0	11	0.2	0.028	0.412
0	37	0.2	0.001	0.43
0	37	0.1	0.008	0.21
0	9	0	0	0.08
0	0	0	0.001	0.01
0	(11) 10.6	0.3	0.001	0.14
0	(7) 6.7	0.1	0.003	0.29
0	55	0	0.005	0.13
0	56	0.2	0.007	0.13
0	41	0	0.005	0.38
0	19	0	0.002	0.16
0	19	0	0.005	0.05
0	7	0	0.001	0.24
0	8	0	0.001	0.22
0	53	0.7	0.004	0.03
0	81	0	0.006	0.16
0	44	0.5	0.002	0.02
0	29	0.5	0	0

SCIENTIFIC BINDERY PRODUCTIONS CHICAGO 60605

Work continued to Page

SIGNATURE K. E. Simp DATE

WITNESS DATE

TITLE ISB-NION NA PARAMETERS (FIELD) PROJECT NO. 7050 BOOK 2490

Work continued from Page

SAMPLE ID	DATE	MG/L DIVALENT IRON	PPM CO_2	PPM O_2
S7MW11S	7-11-00	0.6	42	0.2
S320DMW29S	7-12-00	3	40	2
S320DMW30S	7-12-00	1.5	53	0.8
S320DMW25S	7-22-00	0.2	55	0.9
S320DMW25D	7-22-00	5.9	40	0.05
S320DMW26S	7-22-00	0	60	3.5
S320DMW26D	7-22-00	4.2	26	0
S320DMW28D	7-23-00	4.0	35	1
S320DMW28S	7-23-00	<0.2	15	6
S3MW14S	7-25-00	0	22	8
S320DMW23D	7-25-00	0	32	6.5
S320DMW16S	7-31-00	0.8	32	0.3
S320DMW16D	7-31-00	6.0	60	0.1
S320DMW24S	8-2-00	5	60	0
S320DMW24D	8-2-00	4.2	48	0.4
S320DMW10D	8-2-00	3.2	30	1
S320DMW15D	8-2-00	4	140	0
S320DMW27D	8-3-00	0.8	<10	8
S23HNW5S	8-3-00	1	55	0.6
FD080200 1	8-2-00	4.2	45	0.4
S23HNW5 2	8-4-00	3.2	75	7
S23MW04D	8-4-00	0	<10	5

SCIENTIFIC BINDERY PRODUCTIONS CHICAGO 60605

Work continued to Page

SIGNATURE DATE

WITNESS DATE

DUP OF 2DMW240

TITLE ISB-NION PROJECT NO. 7050 BOOK 2490

Work continued from Page

MG/L HYDROGEN SULFIDE	MG/L SULFATE	MG/L MN	MG/L NITRITE	MG/L NITRATE
0	41	0.5	0	>0.55
0	19	0.4	0	0.02
0	25	0	0.016	0.10
0	5	0	0	0.02
0	7	0.5	0.001	0.06
0	19	0.3	0	0.35
0	17	1.0	0	0.05
0	13	5.8	0	0
0	12	0.3	0.005	>0.55
0	21	0.7	0.005	>0.55
0	9	0	0	0.02
0	15	1.8	0.003	0.06
0	100	>47.5	0	0
0	13	2.8	0	0
0	21	2.1	0.001	0.03
0	7	0.6	0	0.03
0	48	3.0	0	0.01
0	9	0.3	0.002	0.04
0	11	0.5	0	>0.55
0	24	1.8	0.004	0.05
0	11	2.9	0	0
0	8	0	0.005	0.29

SCIENTIFIC BINDERY PRODUCTIONS CHICAGO 60605

Work continued to Page

SIGNATURE DATE

WITNESS DATE

TITLE NSB-NLUN NA PARAMETERS

PROJECT NO. 1052

BOOK 2490

Work continued from Page

SAMPLE ID	DATE	mg/L DIVALENT IRON	PPM CO_2	PPM O_2
S32DMW11S	8.5.00	0	45	0.4
S23HNUS20	8.5.00	0	85	3
S23MW02D	8.6.00	1	25	4
FD080600 1	8.6.00	1	28	4
S23 HNUS 11	8.6.00	6.2	80	0
S23MW03D	8.6.00	0	>2500?	4
S23MW02S	8.6.00	5.9	200	0.3
S23HNUS13	8.7.00	0.7	75	0.1

SCIENTIFIC BINDERY PRODUCTIONS CHICAGO 60605

Work continued to Page

SIGNATURE K-1 S. Simpi

DATE

WITNESS

DATE

TITLE NSB NLUN NA PARAMETERS

PROJECT NO. 1052

BOOK 2490

Work continued from Page

mg/L HYDROGEN SULFIDE	mg/L SULFATE	mg/L MN	mg/L NITRITE	mg/L NITRATE
0	93	1.9	0.005	0.17
0	48	0.2	0.01	>0.55
0	9	0	0.002	0.26
0	8	0	0.005	0.18
0	1	5.7	0	0
0	19	0	0.022	0.04
0	7	7.2	0	0
0	8	0.5	0	0.05

SCIENTIFIC BINDERY PRODUCTIONS CHICAGO 60605

Work continued to Page

SIGNATURE K-1 S. Simpi

DATE

WITNESS

DATE