

FILE COPY

*Site Control
Control Co.*

Robert Marino - Room 220
C. Branagh, Region 7
PALL TRINITY MICRO (PTM) 712008

July 19, 1991

Attached is the material Carl Cuipyo sent down previously as the correct listing information on the subject project.

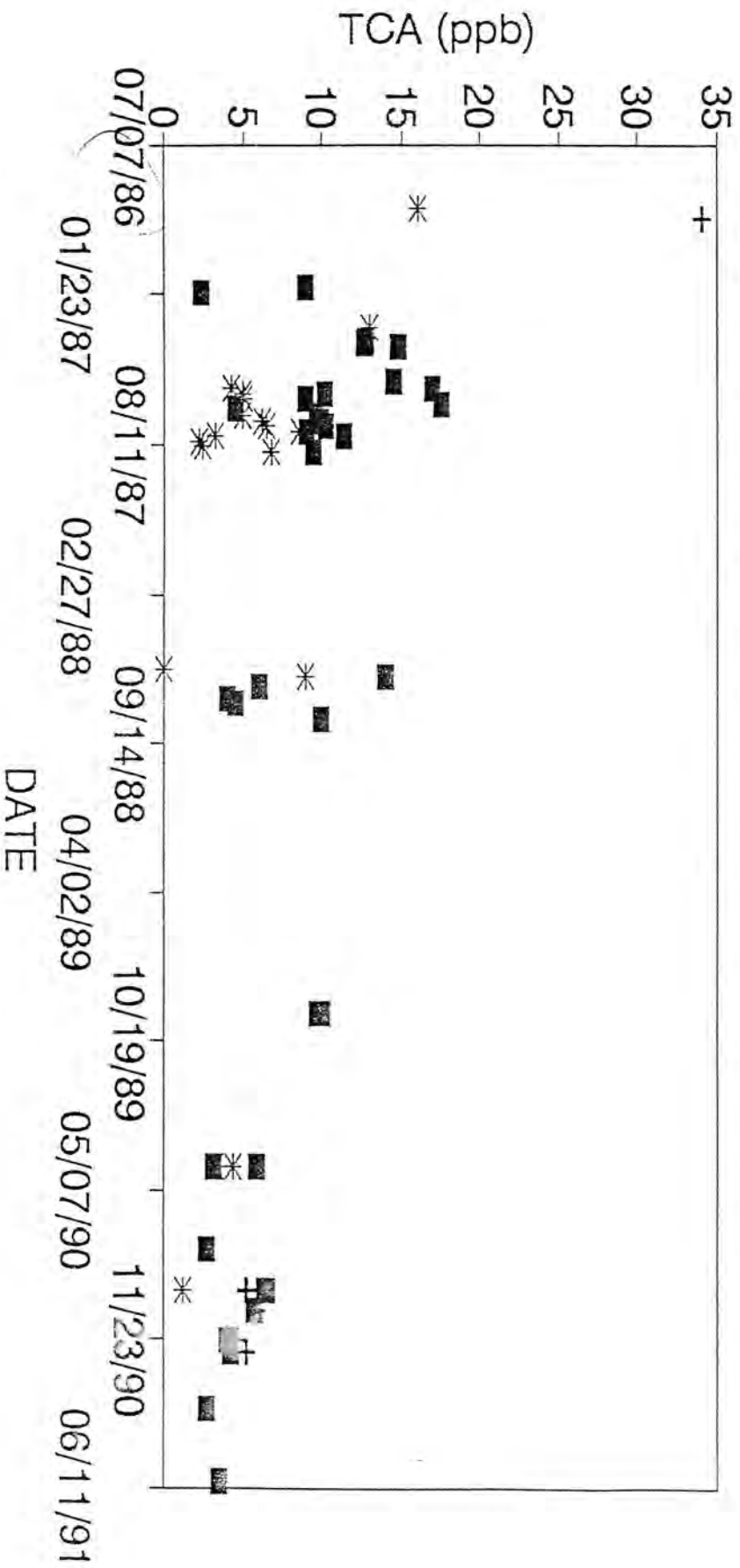
The site description in the current registry appears essentially correct except for the two levels of TCA reported.

Please have Tom Koch call Carl so the TCA levels will be corrected to the proper numbers.

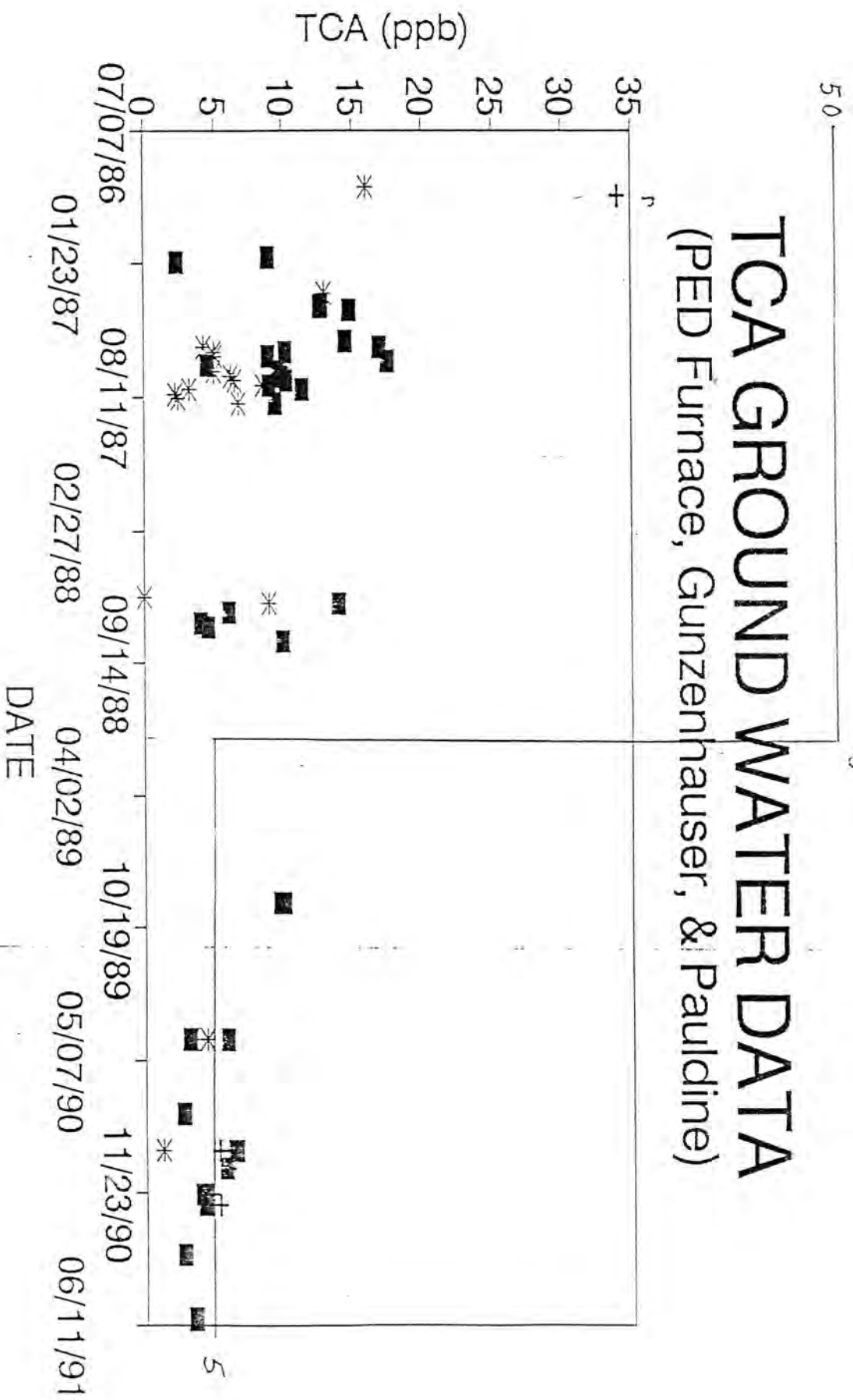
Thanks.

cc: C. Cuipyo - wo/attach.
T. Koch - w/attach.
K. Lacey

(PED Furnace, Gunzenhauser, & Pauline)



TCA GROUND WATER DATA (PED Furnace, Gunzenhauser, & Pauldine)



■ PED Furnace Well + Gunzenhauser Barn * Pauldine

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by: Date & Location

SAMPLE DATE	LOCATION: I.D.	DESCRIPTION	TCA		DEPTH (H2O)	ELEVAT'N (H2O tbl)	COMMENTS	c-DCE	t-DCE	TCE	PCE	Chloro -form
			CONC (ppb)	MIN/ MAX								
04/29/86	WR#3643N/S	PTM Process Water We	1.0									
04/30/86	WR#3643N/S	PTM Process Water We	1.0									
05/28/86	WR#3643N/S	PTM Process Water We	1.0									
06/04/86	WR#3643N/S	PTM Process Water We	1.0									
07/28/86	WR#3643N/S	PTM Process Water We	1.0									
08/26/86	WR#3643N/S	PTM Process Water We	1.0									
09/24/86	WR#276	281 Bowl	0.0	<1			Cort Cty Health Dept	<1	<1			<1
09/24/86	WR#3862	Kellogg Auto	0.0	<1			Cort Cty Health Dept	<1	<1			<1
09/29/86	WR#3718	Edwards	10.0				Cort Cty Health Dept		2.0	1.0		<1
09/29/86	WR#3726	Masterpaul	12.0				Cort Cty Health Dept		1.0	3.0		<1
09/29/86	WR#3734	Musci	15.0				Cort Cty Health Dept		2.0	4.0		<1
09/29/86	WR#3746	Pauldine	16.0				Cort Cty Health Dept		6.0	6.0		<1
09/29/86	WR#3744	Stone	17.0				Cort Cty Health Dept		4.0	5.0		<1
09/29/86	WR#3748	Waters	13.0				Cort Cty Health Dept		3.0	4.0		<1
10/10/86	WR#3643N/S	PTM Process Water We	1.0									
10/14/86	WR#3707B	Gunzenhauser Barn	34.0						5.0	18.0		<1
10/14/86	WR#3608	Thomas	0.0							<1		
10/23/86	WR#3845	Valley Motors	0.0	<1			Cort Cty Health Dept	<1	<1			<1
10/24/86	WR#3643N/S	PTM Process Water We	1.0									
10/31/86	WR#3643N/S	PTM Process Water We	1.0									
11/04/86	WR#3794	Berlew	5.0				Cort Cty Health Dept		2.0	2.0		<1
11/06/86	WR#3901	Ames Chevrolet	0.0	<1			Upstate Labs		<1	<1		<1
11/07/86	WR#3643N/S	PTM Process Water We	1.0									
11/17/86	WR#3643N/S	PTM Process Water We	2.0									
11/26/86	WR#3794	Berlew	8.0				Upstate Labs		<1	2.0		<1
12/03/86	WR#3643N/S	PTM Process Water We	0.0	<1								
12/03/86	CT-4D	Waterworks @ Gunz.	4.0				DEC test					
12/04/86	MW-5	City Waterworks	1.6									
12/05/86	WR#3643SUB	PTM Elec Substation	1.0									
12/05/86	WR#3643N/S	PTM Process Water We	0.0	<1								
12/11/86	WR#3643N/S	PTM Process Water We	0.0	<1								
01/14/87	WR#3669	PED Furnace Well	9.0									
01/14/87	WR#3643SUB	PTM Elec Substation	0.0									
01/14/87	WR#3643N/S	PTM Process Water We	0.0									
01/21/87	WR#3669	PED Furnace Well	2.3									
01/21/87	WR#3643N/S	PTM Process Water We	0.7									
02/04/87	MW-5	City Waterworks	1.0									
02/04/87	WR#3643N/S	PTM Process Water We	0.4									
02/11/87	MW-5	City Waterworks	0.9									
02/11/87	SPCA	Cortland SPCA, McLea	1.4									
02/11/87	WR#3643N/S	PTM Process Water We	1.3									
02/18/87	WR#3643N/S	PTM Process Water We	1.0									
03/09/87	SPCA	Cortland SPCA, McLea	1.0									
03/09/87	WR#3746	Pauldine	13.0				Cort Cty Health Dept		7.0	10.0		<1
03/20/87	WR#3643N/S	PTM Process Water We	1.4									
03/25/87	WR#4033	Sampson	0.0	<1						<1		
03/27/87	WR#3669	PED Furnace Well	12.8									
03/27/87	WR#3643N/S	PTM Process Water We	1.5									
03/30/87	WR#3669	PED Furnace Well	12.7									

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[illegible]

by: Date & Location

SAMPLE DATE	LOCATION: I.D.	DESCRIPTION	TCA			ELEVAT'N (H2O tbl)	COMMENTS					Chloro -form
			CONC (ppb)	MIN/ MAX	DEPTH (H2O)			c-DCE	t-DCE	TCE	PCE	
09/18/90	RIVEST	????????????????	0									
09/18/90	RIVEST	????????????????	0									
09/18/90	OLD ?	????????????????	42.5									
09/18/90	OLD ?	????????????????	0.3									
09/18/90	KELLY RD	????????????????	13.8									
09/18/90	AMES	Ames Parking Lot (Mo	0.02						0.2	0.1		
09/18/90	AMES	Ames Parking Lot (Mo	0									
09/18/90	MW-3D	City Waterworks	3.2									
09/18/90	MW-1	City Waterworks	0.5									
09/18/90	MW-3	City Waterworks	0.8									
09/18/90	SPCA	Cortland SPCA, McLea	0.01				Dr. P. Jeffers	6.9		30.5		
09/18/90	SPCA	Cortland SPCA, McLea	0.3				Dr. P. Jeffers	14.6		52.5		
09/18/90	SPCA	Cortland SPCA, McLea	0.04				Dr. P. Jeffers	16.0		62.8		
09/18/90	PW-4	Cortland Waterworks	0				BAD SAMPLE					
09/18/90	T-103	Cortlandville PWS	0									
09/18/90	GUNZEN 2	Gunzen Gravel Pit, W	0				Dr. P. Jeffers					
09/18/90	GUNZEN 1	Gunzen Gravel Pit, S	0.04				Dr. P. Jeffers		0.2			
09/18/90	WR#3707B	Gunzenhauser Barn	5.2				Dr. P. Jeffers		6.9	17.4		
09/18/90	WR#3707B	Gunzenhauser Barn	6.1				Dr. P. Jeffers		6.8	17.0		
09/18/90	CT-21	Lamont Circle	0.2									
09/18/90	CT-22	Lime Hollow @ Stupke	0.05									
09/18/90	CT-5D	Otter Creek @ Gutche	0									
09/18/90	CT-5S	Otter Creek @ Gutche	0									
09/18/90	WR#3669	PED Furnace Well	6.5				Dr. P. Jeffers	12.5		43.2	3.1	
09/18/90	WR#3669	PED Furnace Well	6.3				Dr. P. Jeffers	10.9		37.4	2.0	
09/18/90	WR#3643SUB	PTM Elec Substation	0.2				Dr. P. Jeffers	15.4		37.3		
09/18/90	WR#3643SUB	PTM Elec Substation	0.4				Dr. P. Jeffers	15.4		49.6		
09/18/90	WR#3643N/S	PTM Process Water We	0.5					11.0		30.6		
09/18/90	WR#3643N/S	PTM Process Water We	0.2									
09/18/90	WR#3746	Pauldine	1.2				Dr. P. Jeffers	5.1		6.9		
09/18/90	USGS 90-6S	USGS - ???	0.35									
09/18/90	USGS 90-7	USGS - ???	0									
09/18/90	USGS 90-10	USGS - ???	0.4									
09/18/90	USGS 90-2	USGS - ???	2.7									
09/18/90	USGS 90-6D	USGS - ???	0									
09/18/90	USGS 90-3	USGS - ???	0									
09/18/90	USGS 90-9D	USGS - ???	0									
09/18/90	USGS 89-1	USGS - ???	0									
09/18/90	USGS 90-11	USGS - ???	2.4									
09/18/90	USGS 90-1S	USGS - ???	107.5									
09/18/90	USGS 90-9S	USGS - ???	<.1									
09/18/90	USGS 90-5	USGS - ???	1.4									
09/18/90	USGS 89-2S	USGS - Airport @ 281	0									
09/18/90	ELM B	USGS MW Elm Street @	1.5									
09/18/90	CT-4S	Waterworks @ Gunz.	1									
09/18/90	CT-4D	Waterworks @ Gunz.	0.3									
10/12/90	PW-4	Cortland Waterworks	0.6									
10/15/90	WR#3707B	Gunzenhauser Barn	5.7				Dr. P. Jeffers		7.1	44.0	2.0	
10/15/90	WR#3669	PED Furnace Well	5.7				Dr. P. Jeffers		14.2	44.0	2.0	

by: Date & Location

SAMPLE DATE	LOCATION: I.D.	DESCRIPTION	TCA			ELEVAT'N (H2O tbl)	COMMENTS					Chloro -form
			CONC (ppb)	MIN/ MAX	DEPTH (H2O)			c-DCE	t-DCE	TCE	PCE	
10/15/90	WR#3643SUB	PTM Elec Substation	0.5				Dr. P. Jeffers		14.2	49.6	0.0	
10/15/90	WR#3643N/S	PTM Process Water We	0.5				Dr. P. Jeffers		10.9	30.6	0.0	
10/16/90	WR#3707B	Gunzenhauser Barn	5.8				Dr. P. Jeffers		7.1	17.1	0.3	
11/24/90	SPCA	Cortland SPCA, McLea	0.0					11.3		63.2		
11/26/90	WR#3707B	Gunzenhauser Barn	4.6					7.9		16.9		
11/26/90	WR#3669	PED Furnace Well	4.0					9.2		42.5	2.0	
11/26/90	WR#3643SUB	PTM Elec Substation	0.5					15.0		45.0		
11/26/90	WR#3643N/S	PTM Process Water We	0.0					9.9		31.5		
12/11/90	WR#3707B	Gunzenhauser Barn	5.2					7.2		17.6	0.6	
12/11/90	WR#3669	PED Furnace Well	4.2					11.0		39.8	2.9	
12/11/90	WR#3643SUB	PTM Elec Substation	0.3					15.4		44.6		
12/11/90	WR#3643N/S	PTM Process Water We	0.6					11.5		31.3		
12/11/90	WR#3643WPT	PTM West Valve Pit	0.0				Trace of TCA & c-D	0.0		1.3		
01/29/91	WR#3669-ES3D	PED Gunzen	0.1				Date is appox.	0.1		1.5	0.2	
01/29/91	WR#3669-1D	PED H2 Pad	2.3				Date is appox.	1.0		5.5	2.9	
02/25/91	WR#3669	PED Furnace Well	2.7									
02/25/91	WR#3669-1D	PED H2 Pad	5.9									
02/25/91	WR#3669-1S	PED H2 Pad	3.6									
02/25/91	WR#3669-5	PED North Corner Bld	0.6									
02/25/91	WR#3669-ES2	PED West Field	3.7									
02/25/91	WR#3643N/S	PTM Process Water We	0.5									
06/04/91	SPCA	Cortland SPCA, McLea	0.0									
06/04/91	WR#3669	PED Furnace Well	3.5									
06/04/91	WR#3643N/S	PTM Process Water We	0.0									
06/12/91	WR#3669-ES3S	PED Gunzen	4.2					4.3		5.9	0.3	
06/12/91	WR#3669-1S	PED H2 Pad	2.8					4.7		7.7	1.7	
06/12/91	WR#3669-1D	PED H2 Pad	4.7					4.2		7.9	1.1	
06/12/91	WR#3669-5	PED North Corner Bld	5.6					7.2		8.4	0.6	
06/12/91	WR#3669-ES4	PED North Front Lawn	0.0					4.2		0.7	0.1	
06/12/91	WR#3669-6	PED South Front Lawn	1.3					3.8		3.3	0.2	
06/12/91	WR#3669-ES2	PED West Field	2.3					5.6		10.5	0.1	

GROUND WATER TCA DATA [TCA DATA.W01]

SAMPLE DATE	LOCATION: I.D.	DESCRIPTION	TCA		DEPTH (H2O)	ELEVAT'N (H2O tbl)	COMMENTS	c-DCE	t-DCE	TCE	PCE	Chloro -form
			CONC (ppb)	MIN/ MAX								
03/28/90	AMES	Ames Parking Lot (Mobil MW#13)			17.45	1152.86	GWM Record# 3877					
09/18/90	AMES	Ames Parking Lot (Mo 0										
09/18/90	AMES	Ames Parking Lot (Mo 0.02							0.2	0.1		
03/28/90	C-102	????????????????????			0.00	0.00	GWM Record# 3866					
03/28/90	CP-1	????????????????????			55.27	1203.43	GWM Record# 3859					
03/28/90	CP-13	????????????????????			3.33	1113.27	GWM Record# 3864					
03/28/90	CP-4	Cortlandville @ Starr Rd			23.36	1150.09	GWM Record# 3861					
03/28/90	CP-5	Otter Creek @ Gutches			16.20	1156.44	GWM Record# 3862					
09/18/90	CT-21	Lamont Circle 0.2										
09/18/90	CT-22	Lime Hollow @ Stupke 0.05										
12/03/86	CT-40	Waterworks @ Gunz. 4.0					DEC test					
03/28/90	CT-40	Waterworks @ Gunz.			7.18	1144.97	GWM Record# 3844					
04/04/90	CT-40	Waterworks @ Gunz. 0.4					& 4/3/90					
09/18/90	CT-40	Waterworks @ Gunz. 0.3										
03/28/90	CT-4S	Waterworks @ Gunz.			7.43	1144.79	GWM Record# 3843					
09/18/90	CT-4S	Waterworks @ Gunz. 1										
03/28/90	CT-5D	Otter Creek @ Gutches			10.83	1159.17	GWM Record# 3846					
09/18/90	CT-5D	Otter Creek @ Gutche 0										
03/28/90	CT-5S	Otter Creek @ Gutches			13.12	1159.08	GWM Record# 3845					
09/18/90	CT-5S	Otter Creek @ Gutche 0										
03/28/90	CT-9	????????????????????			61.44	1181.36	GWM Record# 3852					
05/19/87	CVILLE3	Cortlandville (MW#3) 0.1										
06/04/87	CVILLE3	Cortlandville (MW#3) 0.2										
06/11/87	CVILLE3	Cortlandville (MW#3) 0.3										
04/04/90	CVILLE3	Cortlandville (MW#3) 0.0					& 4/3/90					
09/18/90	ELM B	USGS MW Elm Street @ 1.5										
03/28/90	GUNZEN 1	Gunzen Gravel Pit, South			61.63	1175.74	GWM Record# 3879					
09/18/90	GUNZEN 1	Gunzen Gravel Pit, S 0.04					Dr. P. Jeffers		0.2			
03/28/90	GUNZEN 2	Gunzen Gravel Pit, North			54.64	1170.00	GWM Record# 3880					
09/18/90	GUNZEN 2	Gunzen Gravel Pit, N 0					Dr. P. Jeffers					
03/28/90	KELLOGG	????????????????????			4.50	1091.44	GWM Record# 3874					
09/18/90	KELLY RD	???????????????????? 13.8										
04/04/90	MW-1	City Waterworks 0.5					& 4/3/90					
04/04/90	MW-1	City Waterworks 0.4					& 4/3/90					
09/18/90	MW-1	City Waterworks 0.5										
04/04/90	MW-2	City Waterworks 1.1					& 4/3/90					
04/04/90	MW-2	City Waterworks 1.5					& 4/3/90					</

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SAMPLE DATE	LOCATION: I.D.	DESCRIPTION	TCA	MIN/ MAX	DEPTH (H2O)	ELEVAT'N (H2O tbl)	COMMENTS	c-DCE	t-DCE	TCE	PCE	Chloro
			(ppb)									-form
06/11/87	MW-5	City Waterworks	0.9									
06/18/87	MW-5	City Waterworks	1.1									
07/03/87	MW-5	City Waterworks	1.0									
07/10/87	MW-5	City Waterworks	1.3									
07/17/87	MW-5	City Waterworks	1.1									
07/24/87	MW-5	City Waterworks	1.3									
07/31/87	MW-5	City Waterworks	1.0									
08/07/87	MW-5	City Waterworks	1.2									
08/14/87	MW-5	City Waterworks	1.2									
08/21/87	MW-5	City Waterworks	1.4									
09/18/90	OLD ?	?????????????????	42.5									
09/18/90	OLD ?	?????????????????	0.3									
09/18/90	PW-4	Cortland Waterworks	0				BAD SAMPLE					
10/12/90	PW-4	Cortland Waterworks	0.6									
09/18/90	RIVEST	?????????????????	0									
09/18/90	RIVEST	?????????????????	0									
02/11/87	SPCA	Cortland SPCA, McLea	1.4									
03/09/87	SPCA	Cortland SPCA, McLea	1.0									
05/19/87	SPCA	Cortland SPCA, McLea	1.4									
05/28/87	SPCA	Cortland SPCA, McLea	1.9									
06/04/87	SPCA	Cortland SPCA, McLea	1.1									
06/26/87	SPCA	Cortland SPCA, McLea	1.7									
07/03/87	SPCA	Cortland SPCA, McLea	1.9									
07/10/87	SPCA	Cortland SPCA, McLea	1.4									
07/17/87	SPCA	Cortland SPCA, McLea	1.5									
07/24/87	SPCA	Cortland SPCA, McLea	1.4									
07/31/87	SPCA	Cortland SPCA, McLea	1.2									
08/07/87	SPCA	Cortland SPCA, McLea	1.7									
08/14/87	SPCA	Cortland SPCA, McLea	1.6									
08/21/87	SPCA	Cortland SPCA, McLea	1.7									
06/17/88	SPCA	Cortland SPCA, McLea	0.0									
06/28/88	SPCA	Cortland SPCA, McLea	0.0									
07/15/88	SPCA	Cortland SPCA, McLea	0.0									
07/20/88	SPCA	Cortland SPCA, McLea	0.0									
08/10/88	SPCA	Cortland SPCA, McLea	0.0									
04/04/90	SPCA	Cortland SPCA, McLea	0.0				& 4/3/90					
09/18/90	SPCA	Cortland SPCA, McLea	0.3				Dr. P. Jeffers	14.6		52.5		
09/18/90	SPCA	Cortland SPCA, McLea	0.01				Dr. P. Jeffers	6.9		30.5		
09/18/90	SPCA	Cortland SPCA, McLea	0.04				Dr. P. Jeffers	16.0		62.8		
11/24/90	SPCA	Cortland SPCA, McLea	0.0					11.3		63.2		
06/04/91	SPCA	Cortland SPCA, McLea	0.0									
07/17/87	T-103	Cortlandville PWS	0.3									
07/24/87	T-103	Cortlandville PWS	0.1									
07/31/87	T-103	Cortlandville PWS	0.8									
08/07/87	T-103	Cortlandville PWS	0.8									
08/14/87	T-103	Cortlandville PWS	0.4									
08/21/87	T-103	Cortlandville PWS	0.4									
04/04/90	T-103	Cortlandville PWS	0.2									

by: Location & Date

SAMPLE DATE	LOCATION: I.D.	DESCRIPTION	TCA		DEPTH (H2O)	ELEVAT'N (H2O tbl)	COMMENTS	c-DCE	t-DCE	TCE	PCE	Chloro -form
			CONC (ppb)	MIN/ MAX								
05/19/87	WR#3669	PED Furnace Well	14.5									
05/28/87	WR#3669	PED Furnace Well	16.9									
06/04/87	WR#3669	PED Furnace Well	10.2									
06/11/87	WR#3669	PED Furnace Well	9.0									
06/18/87	WR#3669	PED Furnace Well	17.6									
06/26/87	WR#3669	PED Furnace Well	4.5									
07/03/87	WR#3669	PED Furnace Well	9.7									
07/10/87	WR#3669	PED Furnace Well	10.0									
07/17/87	WR#3669	PED Furnace Well	10.3									
07/24/87	WR#3669	PED Furnace Well	9.1									
07/31/87	WR#3669	PED Furnace Well	11.4									
08/21/87	WR#3669	PED Furnace Well	9.5									
06/15/88	WR#3669	PED Furnace Well	14.0									
06/28/88	WR#3669	PED Furnace Well	6.0									
07/15/88	WR#3669	PED Furnace Well	4.0									
07/21/88	WR#3669	PED Furnace Well	4.5									
08/10/88	WR#3669	PED Furnace Well	10.0									
09/11/89	WR#3669	PED Furnace Well	10.1									
09/11/89	WR#3669	PED Furnace Well	9.8						9.2	48.6		
04/04/90	WR#3669	PED Furnace Well	3.1 min				& 4/3/90					
04/04/90	WR#3669	PED Furnace Well	5.8 max				& 4/3/90					
07/25/90	WR#3669	PED Furnace Well	2.7				also PCE=1.6		12.3	28.8	4.3	
09/18/90	WR#3669	PED Furnace Well	6.5				Dr. P. Jeffers	12.5		43.2	3.1	
09/18/90	WR#3669	PED Furnace Well	6.3				Dr. P. Jeffers	10.9		37.4	2.0	
10/15/90	WR#3669	PED Furnace Well	5.7				Dr. P. Jeffers		14.2	44.0	2.0	
11/26/90	WR#3669	PED Furnace Well	4.0					9.2		42.5	2.0	
12/11/90	WR#3669	PED Furnace Well	4.2					11.0		39.8	2.9	
02/25/91	WR#3669	PED Furnace Well	2.7									
06/04/91	WR#3669	PED Furnace Well	3.5									
01/29/91	WR#3669-1D	PED H2 Pad	2.3				Date is approx.	1.0		5.5	2.9	
02/25/91	WR#3669-1D	PED H2 Pad	5.9									
06/12/91	WR#3669-1D	PED H2 Pad	4.7					4.2		7.9	1.1	
02/25/91	WR#3669-1S	PED H2 Pad	3.6									
06/12/91	WR#3669-1S	PED H2 Pad	2.8					4.7		7.7	1.7	
02/25/91	WR#3669-5	PED North Corner Bld	0.6									
06/12/91	WR#3669-5	PED North Corner Bld	5.6					7.2		8.4	0.6	
06/12/91	WR#3669-6	PED South Front Lawn	1.3					3.8		3.3	0.2	
02/25/91	WR#3669-ES2	PED West Field	3.7									
06/12/91	WR#3669-ES2	PED West Field	2.3					5.6		10.5	0.1	
01/29/91	WR#3669-ES3D	PED Gunzen	0.1				Date is approx.	0.1		1.5	0.2	
06/12/91	WR#3669-ES3S	PED Gunzen	4.2					4.3		5.9	0.3	
06/12/91	WR#3669-ES4	PED North Front Lawn	0.0					4.2		0.7	0.1	
10/14/86	WR#3707B	Gunzenhauser Barn	34.0						5.0	18.0		<1
09/18/90	WR#3707B	Gunzenhauser Barn	6.1				Dr. P. Jeffers		6.8	17.0		
09/18/90	WR#3707B	Gunzenhauser Barn	5.2				Dr. P. Jeffers		6.9	17.4		
10/15/90	WR#3707B	Gunzenhauser Barn	5.7				Dr. P. Jeffers		7.1	44.0	2.0	
10/16/90	WR#3707B	Gunzenhauser Barn	5.8				Dr. P. Jeffers		7.1	17.1	0.3	
11/26/90	WR#3707B	Gunzenhauser Barn	4.6					7.9		16.9		
12/11/90	WR#3707B	Gunzenhauser Barn	5.2					7.2		17.6	0.6	

09-Jul-91

GROUND WATER TCA DATA [TCA_DATA.WQ1]

6

by: Location & Date

SAMPLE DATE	LOCATION: I.D.	DESCRIPTION	TCA		DEPTH (H2O)	ELEVAT'N (H2O tbl)	COMMENTS	c-DCE	t-DCE	TCE	PCE	Chloro -form
			CONC (ppb)	MIN/ MAX								
09/29/86	WR#3718	Edwards	10.0				Cort Cty Health Dept		2.0	1.0		<1
09/29/86	WR#3726	Masterpaul	12.0				Cort Cty Health Dept		1.0	3.0		<1
09/29/86	WR#3734	Musci	15.0				Cort Cty Health Dept		2.0	4.0		<1
09/29/86	WR#3744	Stone	17.0				Cort Cty Health Dept		4.0	5.0		<1
09/29/86	WR#3746	Pauldine	16.0				Cort Cty Health Dept		6.0	6.0		<1
03/09/87	WR#3746	Pauldine	13.0				Cort Cty Health Dept		7.0	10.0		<1
05/28/87	WR#3746	Pauldine	4.2									
06/04/87	WR#3746	Pauldine	4.9									
06/11/87	WR#3746	Pauldine	5.0									
07/03/87	WR#3746	Pauldine	4.9									
07/10/87	WR#3746	Pauldine	6.1									
07/17/87	WR#3746	Pauldine	6.4									
07/24/87	WR#3746	Pauldine	8.5									
07/31/87	WR#3746	Pauldine	3.2									
08/07/87	WR#3746	Pauldine	2.2									
08/14/87	WR#3746	Pauldine	2.4									
08/21/87	WR#3746	Pauldine	6.7									
06/07/88	WR#3746	Pauldine	0.0									
06/15/88	WR#3746	Pauldine	9.0									
04/04/90	WR#3746	Pauldine	3.2				& 4/3/90					
04/04/90	WR#3746	Pauldine	4.3				& 4/3/90					
09/18/90	WR#3746	Pauldine	1.2				Dr. P. Jeffers	5.1		6.9		
09/29/86	WR#3748	Waters	13.0				Cort Cty Health Dept		3.0	4.0		<1
11/04/86	WR#3794	Berlew	5.0				Cort Cty Health Dept		2.0	2.0		<1
11/26/86	WR#3794	Berlew	8.0				Upstate Labs		<1	2.0		<1
10/23/86	WR#3845	Valley Motors	0.0	<1			Cort Cty Health Dept		<1	<1		<1
09/24/86	WR#3862	Kellogg Auto	0.0	<1			Cort Cty Health Dept		<1	<1		<1
11/06/86	WR#3901	Ames Chevrolet	0.0	<1			Upstate Labs		<1	<1		<1
03/25/87	WR#4033	Sampson	0.0	<1						<1		
03/28/90	YAMAN A	????????????????????			8.94	1089.42	GWM Record# 3875					
03/28/90	YAMAN B	????????????????????			14.11	1089.16	GWM Record# 3876					

09-Jul-91

GROUND WATER STUDY LEGEND [TCA_DATA.WQ1]

AGENCY CODE	DESCRIPTION	PTM CODE	STUDY
28-21	Kellog Road	28-21	
3838WEST	3838 West Road	WR#3838	
89-2-S	USGS Monitoring Well Airport @ 281	USGS 89-2-S	
AMES	(Mobil MW #13) Ames Parking Lot	AMES	TCA
C-102	?	C-102	
CCOB	Former Supply Well, Cortland Co. Office Building	CCOB	
CP-1	?	CP-1	
CP-10	?	CP-10	
CP-11	?	CP-11	
CP-12	?	CP-12	
CP-13	?	CP-13	
CP-14	Fisher Avenue @ DEC	CP-14	
CP-2	?	CP-2	
CP-3	?	CP-3	
CP-4	Town of Cortlandville Wells @ Starr Road	CP-4	TCA
CP-5	Luker Road	CP-5	TCA
CP-6	Fer Cor Drive @ Airport	CP-6	
CP-7	?	CP-7	
CP-8	?	CP-8	
CP-9	?	CP-9	
CT-100	Lime Hollow Road @ Guardrail	CT-100	
CT-10S	Lime Hollow Road @ Guardrail	CT-10S	
CT-11	Tompkins Street @ Barry School	CT-11	
CT-12	?	CT-12	
CT-13	?	CT-13	
CT-14	?	CT-14	
CT-15	?	CT-15	
CT-16	?	CT-16	
CT-17	?	CT-17	
CT-18	?	CT-18	
CT-19	?	CT-19	
CT-1D	Near Dry Creek @ Salvation Army	CT-1D	
CT-1S	Near Dry Creek @ Salvation Army	CT-1S	
CT-20	?	CT-20	
CT-21	Lamont Circle	CT-21	
CT-22	Lime Hollow/Stupke Road	CT-22	
CT-2D	Glenn Street	CT-2D	
CT-2S	Glenn Street	CT-2S	
CT-30	Beaudry Park	CT-30	
CT-3S	Beaudry Park	CT-3S	
CT-4D	City Waterworks Near Gunzenhauser Farm	CT-4D	TCA
CT-4S	City Waterworks Near Gunzenhauser Farm	CT-4S	TCA
CT-5D	Near Otter Creek @ Gutches Lumber	CT-5D	TCA
CT-5S	Near Otter Creek @ Gutches Lumber	CT-5S	TCA
CT-6D	Stupke Road @ Stone Barn	CT-6D	
CT-6S	Stupke Road @ Stone Barn	CT-6S	
CT-7	Bennie Road	CT-7	
CT-8	Webb Road	CT-8	
CT-9	?	CT-9	

AGENCY CODE	DESCRIPTION	PTM CODE	STUDY
CVILLE3	Cortlandville MW3	CVILLE3	TCA
DOT	(Mobil MW #14-S)	DOT	TCA
DOWZER1	Dowzer Electric @ Main Street	DOWZER1	
DOWZER2	Dowzer Electric (Rear of Building)	DOWZER2	
ELECTRIC SUB-STA.	Electric Sub-station @ PTM	WR#3643SUB	TCA
ELMB	USGS MW Elm Street @ River	ELMB	
FITTS	Fitts Residence, 811 Pheasant Run	FITTS	
GREENBUSH	53 Greenbush Street, Cortland	GREENBUSH	
GUNZEN1	Gunzenhauser Gravel Pit (South)	GUNZEN1	
GUNZEN2	Gunzenhauser Gravel Pit (North)	GUNZEN2	
JEBBETT	3 Stupke Road	JEBBETT	
MOBIL	(Mobil MW #3, near Friendly's)	MOBIL	TCA
MW#1	MW#1 City Waterworks	MW#1	TCA
MW#2	MW#2 City Waterworks	MW#2	TCA
MW#3D	MW#3D City Waterworks	MW#3D	TCA
MW#3S	MW#3S City Waterworks	MW#3S	TCA
OLDHESS	Old Hess Station, Port Watson St.	OLDHESS	
OVERHEAD	?	OVERHEAD	TCA
OVERHEAD DOOR	Overhead Door @ PTM	WR#3669	TCA
PACE	Pace Residence, 802 Pheasant Run	PACE	
PAULDINE	Pauldine Residence, 3746 West Road/Rte 281	WR#3746	TCA
PETRELLA	Petrella Bros. Body Shop, Luker Road	PETRELLA	
PTM	Pall Trinity Micro Corp.	WR#3643N/S	TCA
PW3	Cortland Waterworks	PW3	TCA
PW4	Cortland Waterworks	PW4	TCA
SPACE FARM	?	SPACE FARM	
SPCA	Cortland SPCA, McLean Road (USGS 90-6 S #D)	SPCA	TCA
STUPKE	Paul Stupke residence, Stupke Road	STUPKE	
T-103	Cortlandville PWS	T-103	TCA
USGS89-1	MW#1 Town of Cortlandville Water Supply, Lime Hollow Road	USGS 89-1	
{none}	Pall Trinity Micro - PED (old Overhead Door property), We	WR#3669-ES2	TCA
{none}	Pall Trinity Micro - PED (old Overhead Door property), Gu	WR#3669-ES3S/3D	TCA
{none}	Gunzenhauser Barn, 3707 West Road	WR#3707B	
{none}	Pall Trinity Micro - PED (old Overhead Door property), Bl	WR#3669-5	TCA
{none}	Pall Trinity Micro - PED (old Overhead Door property), Fr	WR#3669-ES4	TCA
{none}	Pall Trinity Micro - PED (old Overhead Door property), H2	WR#3669-1S/1D	TCA
{none}	Pall Trinity Micro - PED (old Overhead Door property), Fr	WR#3669-6	TCA



P.O. Box 67, Cortland, NY 13045
Telephone: 607-756-8820

February 22, 1991

Mr. Peter M. O'Connell
Facilities Engineering Manager
Pall Trinity Micro Corporation
P.O. Box 2030
Cortland, NY 13045

Re: Piezometer Installation
Pall Trinity Micro Corp., North Facility
3669 West Road, Cortland, New York

Dear Mr. O'Connell:

Enclosed you will find an original and two copies of our letter report of February 15, 1991, prepared in connection with work performed on the referenced project.

Also enclosed is our invoice, supporting documentation and acceptance copy of the purchase order for this work. Please note that we have extended a substantial discount for prompt payment and would hope that you take advantage of it.

If you should have any questions or require additional information, please feel free to contact me. It was a pleasure working with you on this project and we look forward to the opportunity to be of service in the future.

Sincerely,

NORTH STAR DRILLING COMPANY

Jeff Thew

JJT:mt

Encs.



P.O. Box 67, Cortland, NY 13045
Telephone: 607-756-8820

February 15, 1991

Mr. Peter M. O'Connell
Facilities Engineering Manager
Pall Trinity Micro Corporation
P.O. Box 2030
Cortland, NY 13045

Re: Piezometer Installation
Pall Trinity Micro Corp., North Facility
3669 West Road, Cortland, New York

Dear Mr. O'Connell:

Introduction

This letter report will serve as the formal record of work performed in connection with the referenced project during the period of January 7 to 23, 1991. The work was performed in accordance with a request by Pall Trinity Micro Corporation (PTM) and recommendations made by various regulatory agencies and consultants from the academic and private sectors. Following is a general description of the methodology and protocol employed by North Star Drilling Company (NSD) in performance of this work.

Location

The approximate piezometer locations were staked by PTM based on an in-house site plan. The piezometers were identified as PTM-1S and 1D (couplet), ES-2, ES-3S and 3D (couplet), ES-4, PTM-5 and PTM-6. The exact as-installed piezometer locations and elevations are to be established by PTM using survey methods.

Drilling

A Central Mine Equipment Model 55, truck mounted, hydraulic-rotary test drilling rig was utilized to conduct the work and was operated by a Senior Drilling Technician with 10 years of experience in hydrogeological and geotechnical investigations.

Overburden drilling by eccentric casing (ODEX) methods were employed to advance the borehole due to the loose, unconsolidated, glacial outwash formation which underlies the site. In general, the procedure consists of a down-the-hole air hammer fitted with a pilot and eccentric bit and guide device. This combination facilitates simultaneous drilling, under-reaming and driving of HW (4" I.D. X 4½" O.D.) threaded, flush joint drill casing.

No organic or hydrocarbon based coolants or lubricants were used on any down-the hole tooling. Small quantities of potable water obtained from an on site source was used routinely to aid in dust suppression, cooling and cutting removal.

Sampling

Recovery of in-situ soil samples was not a part of this program. However, the Drilling Technician monitored the ejection of drill cuttings, drill action and other factors in an attempt to detect a reported interbedded glacial till layer within the outwash deposit and a lacustrine unit underlying the outwash deposit. No evidence of either formation was observed. The materials encountered would be classified generically as a silty, sand and gravel, with scattered cobbles and boulders.

Ground water samples were collected from the ODEX discharge hose while advancing the casing through the saturated zone on the deep piezometer borings. Samples were collected at 10 foot intervals from 25 to 55 feet in PTM-1D and from 20 to 60 feet in ES-3D. Sample bottles were supplied by PTM and the samples were returned to PTM custody on completion of the boring.

Piezometers

Open end pipe piezometers were constructed from 21 foot lengths of 2" Ø, schedule 40, threaded and coupled, prime grade, black steel pipe. The pipe was mechanically cut and assembled and installed to the specified depth through the drill casing. The casing was then pulled back allowing the formation to cave naturally around the permanent piezometer pipe. The remaining borehole, generally from the water table elevation to the surface, was filled with a bentonite/cement grout. A sloped concrete cap was formed around the pipe at the surface. 2½ feet of pipe was extended above grade and fitted with a threaded, steel, hinged, locking cap with keyed-alike padlock. The external portion of the pipe above grade was painted fluorescent orange and the piezometer number was affixed by painted stencil. Several copies of the padlock key were delivered to PTM on completion.

Decontamination

The black steel pipe and fittings used to construct the piezometers were obtained through a local plumbing supply warehouse and were not considered suitable for immediate use due to the unknown origin. The material was delivered to the NSD Cortland facility for an extensive decontamination prior to use. The procedure consisted of a thorough internal and external cleaning by initially swabbing with hexane, followed by high pressure steam cleaning with potable water and concluded with a distilled water rinse. A blank sample of the distilled water and 3 samples of the rinse water were collected at equal intervals during the rinse process. Sample bottles were supplied by PTM and the samples were returned to PTM custody on completion of the process. All decontaminated materials were wrapped in new, clean, 6 mil polyethylene and transported to the PTM jobsite where they remained under cover until removed for installation.

All down-the-hole drilling tools were decontaminated at the NSD facility prior to commencing the work and on site at the completion of each boring by steam cleaning with potable water in accordance with normally accepted industry practices.

Data

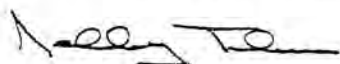
The enclosed Table 1 presents specific construction details for each piezometer location and initial ground water observations. All data is referenced to existing grade. It should be noted that the ground water levels may not represent a static condition and, of course, will be expected to vary seasonally, with climatic conditions and due to other influences.

Conclusion

If you should have any questions or require additional information regarding this report, please do not hesitate to contact the undersigned. It was a pleasure working with you on this project and we thank you for the opportunity to be of continuing service to Pall Trinity Micro Corporation.

Sincerely,

NORTH STAR DRILLING COMPANY



Jeffrey Thew

JJT:mt

Enc.

Piezometer Installation
Pall Trinity Micro Corp., North Facility
3669 West Road, Cortland, New York

TABLE 1

<u>Piezometer I.D. Number</u>	<u>Installed Length</u>	<u>Bottom Depth</u>	<u>Ground Water Depth</u>	<u>Submerged Length</u>
PTM-1S	32.5'	30.0'	12.7'	17.3'
PTM-1D	63.0'	60.5'	14.4'	46.1'
ES-2	32.0'	29.5'	11.6'	17.9'
ES-3S	30.5'	28.0'	9.4'	18.6'
ES-3D	63.0'	60.5'	12.0'	48.5'
ES-4	31.5'	29.0'	12.1'	16.9'
PTM-5	31.0'	28.5'	12.8'	15.7'
PTM-6	31.5'	29.0'	13.3'	15.7'

Note: Depths are in "feet below grade"