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RCRA FACILITY INVESTIGATION PHASE I VOLUME II OF II APPENDICES A, B, C, D AND E
NS MAYPORT FL
11/1/1992
NS MAYPORT

RCRA FACILITY INVESTIGATION
PHASE I
VOLUME II OF II
APPENDICES A, B, C, D, AND E

U.S. NAVAL STATION
MAYPORT, FLORIDA

NAVY CLEAN - DISTRICT I
CONTRACT NO. N62467-89-D-0317

NOVEMBER 1992

SOUTHERN DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
CHARLESTON, SOUTH CAROLINA
29411-0068

PRINTED ON RECYCLED PAPER

APPENDIX A

BORING LOGS (GTGS BORING LOGS)

[illegible]	BORING NO. MRT-[illegible]
	PROJECT NO: 8087-04
C[illegible] STA[illegible] 1/8/87	COMPLETE: 8/4/87
[illegible]	[illegible]TE [illegible]TION LEVEL: [illegible]
[illegible]	[illegible]PTH TO [illegible]
[illegible]	SITE: #1

[illegible]	SOIL DESCRIPTION	SAMPLE NUMBER	SAMPLE TYPE	BLOWS/6-IN	[illegible]
	[illegible]	[illegible]		5,7,16,18	
	[illegible]			[illegible]	
	[illegible]			[illegible]	
	[illegible]			[illegible]	
	[illegible]			[illegible]	
	[illegible]			[illegible]	
	[illegible]			[illegible]	

[illegible] ENVIRONMENTAL SERVICES, INC.

TITLE: Mayport Naval Station, Mayport, Fl.	**LOG of WELL:** MPT-1-1		**BORING NO.** MPT-1-1
CLIENT: SOUTHERN DIVISION, NAVFACENGCOM			**PROJECT NO:** 5097-04
CONTRACTOR: MONITOR TESTING		**DATE STARTED:** 9/9/87	**COMPLTD:** 9/9/87
METHOD: H.S.A.	**CASE SIZE:** 2"	**SCREEN INT.:** 5-15'	**PROTECTION LEVEL:** D
TOC ELEV.: 17.01 FT.	**MONITOR INST.:** Hnu	**TOT DPTH:** 15FT.	**DPTH TO ▽** 7 FT.
LOGGED BY: R. M. Nugent	**WELL DEVELOPMENT DATE:** 9/9/87		**SITE:** #1.

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN
		SS1	1.8/2'	3.3	Sand-fine to coarse, brown, moist, some organic matter		SP	3,7,18,18
		SS2	1.8/2'	3.0	Sand-as above, gray with some shell fragments Sand-as above, 2" brown layer at 1.2' of spoon			2,21,28,30
		SS3	1.5/2'	8.5	Sand-fine, dark brown, moist Sand-fine to medium, gray, some shell fragments			9,19,23,29
5	YES	SS4	1/2'	2.8	Sand-as above Clay-stiff, saturated at bottom		CL	10,11,8,9
		SS5		7.2	Sand-light tan to gray, saturated, small shell fragments		SP	7,7,18,18
10								
		SS6	2/2'	3.5	Sand-light gray, saturated with some shell fragments			5,29,50,+
15								
20								
25								
30								

WELL DATA

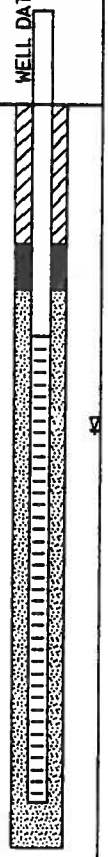


 ABB ENVIRONMENTAL SERVICES, INC.

TITLE: Mayport Naval Station, Mayport, FL.q	**LOG of WELL:** MPT-1-2	**BORING NO.** MPT-1-2
CLIENT: SOUTHERN DIVISION, NAVFACENGCOM		**PROJECT NO:** 5097-04
CONTRACTOR: MONITOR TESTING	**DATE STARTED:** 10/9/87	**COMPLTD:** 10/9/87
METHOD: H.S.A.	**CASE SIZE:** 2" **SCREEN INT.:** 5-15'	**PROTECTION LEVEL:** D
TOC ELEV.: 18.93 FT.	**MONITOR INST.:** Hnu **TOT DPTH:** 15.0FT.	**DPTH TO ∇** 5.00 FT.
LOGGED BY: R. M. Nugent	**WELL DEVELOPMENT DATE:** 10/10/87	**SITE:** #1,

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN
		SS1	1.3/2'	10.0	Fill-gravel, dark brown, moist Sand-fine, lt. brown to lt. gray, moist, few shell fragments		SP	22,22,37,31
5	YES	SS2	1.3/2'	4.8	Sand-fine, gray, moist, few shell fragments, trade gravel			24,25,17,22
10		SS3	2.0/2'	13.5	Sand-fine, brown to gray, saturated, few shell fragments, with a 0.4' fine clay layer, dark gray, saturated, high plasticity		CL SP	8,2
15		SS4	2.0/2'	2.8	Sand-fine, light grey, few shells and shell fragments, saturated			12,32,51+
20								
25								
30								

WELL DATA

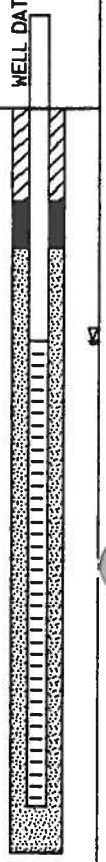


ABB ENVIRONMENTAL SERVICES, INC.

TITLE: Mayport Naval Station, Mayport, Fl.	**LOG of WELL:** MPT1-P1	**BORING NO.** MPT1-P1
CLIENT: SOUTHERN DIVISION, NAVFACENGCOM		**PROJECT NO:** 7633-81
CONTRACTOR: GROUNDWATER PROTECTION, INC.	**DATE STARTED:** 1/18/92	**COMPLTD:** 1/18/92
METHOD: H.S.A.	**CASE SIZE:** 2" / **SCREEN INT.:** 5-10'	**PROTECTION LEVEL:** D
TOC ELEV.: 7.11 FT.	**MONITOR INST.:** OVA / **TOT DPTH:** 10FT.	**DPTH TO ∇** 5.00 FT.
LOGGED BY: Pat Craine	**WELL DEVELOPMENT DATE:** N/A	**SITE:** #1

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
					SAND-very fine to medium, lt.brown w/ abundance of shell fragaments		SP		
5			2/2	N/A	SAND-as above, saturated below 5'			6,6,6,7	
10									
15									
20									
25									
30									

ABB ENVIRONMENTAL SERVICES, INC.

TITLE: Mayport Naval Station, Mayport, Fl.	**LOG of WELL:** MPT1-P2	**BORING NO.** MPT1-P2
CLIENT: SOUTHERN DIVISION, NAVFACENGCOM		**PROJECT NO:** 7533-61
CONTRACTOR: GROUNDWATER PROTECTION, INC.	**DATE STARTED:** 1/18/92	**COMPLTD:** 1/18/92
METHOD: H.S.A.	**CASE SIZE:** 2" / **SCREEN INT.:** 10-15'	**PROTECTION LEVEL:** D
TOC ELEV.: 11.77 FT.	**MONITOR INST.:** FID / **TOT DPTH:** 15FT.	**DPTH TO ∇** 10.0 FT.
LOGGED BY: Pat Craine	**WELL DEVELOPMENT DATE:** N/A	**SITE:** #1

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
					SAND-fine to silty, tan, w/ some shell fragaments		SM		
5			2/2	0	Same as above			4,5,4,5	
10			2/2	0	SAND-fine to silty, gray, saturated			6,8,6,5	
15					Boring terminated @ 15'				
20									
25									
30									

 ABB ENVIRONMENTAL SERVICES, INC.

TITLE: fayport Naval Station, Mayport, Fl.		**LOG of WELL:** MPT1-P3	**BORING NO.** MPT1-P3
CLIENT: SOUTHERN DIVISION, NAVFACENGCOM			**PROJECT NO:** 7533-81
CONTRACTOR: GROUNDWATER PROTECTION, INC.		**DATE STARTED:** 1/18/92	**COMPLTD:** 1/18/92
METHOD: H.S.A.	**CASE SIZE:** 2"	**SCREEN INT.:** 10-15'	**PROTECTION LEVEL:** D
TOC ELEV.: 11.04 FT.	**MONITOR INST.:** FID	**TOT DPTH:** 15FT.	**DPTH TO ∇** 7.00 FT.
LOGGED BY: Pat Craine	**WELL DEVELOPMENT DATE:** N/A		**SITE:** #1

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
					SAND-very fine to medium, tan, w/ some shell fragments		SP		
5			2/2	0	Same as above, dry			10,10,7,8	
			1.7/2	0	SAND-very fine to silty, tan, saturated		SM	6,8,7,8	
10									
15					Boring terminated @ 15'				
20									
25									
30									

ABB ENVIRONMENTAL SERVICES, INC.

TITLE: Mayport Naval Station, Mayport, Fl.	**LOG of WELL:** MPT-2-1	**BORING NO.** MPT-2-1
CLIENT: SOUTHERN DIVISION, NAVFACENGCOM		**PROJECT NO:** 5097
CONTRACTOR: MONITOR TESTING	**DATE STARTED:** 9/22/87	**COMPLTD:** 9/22/87
METHOD: H.S.A.	**CASE SIZE:** 2" / **SCREEN INT.:** 3-10'	**PROTECTION LEVEL:** D
TOC ELEV.: 8.43 FT.	**MONITOR INST.:** Hnu / **TOT DPTH:** 10.0FT.	**DPTH TO ∇** 4.00 FT.
LOGGED BY: R. M. Nugent	**WELL DEVELOPMENT DATE:** 9/22/87	**SITE:** #2

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN
		SS1	1.5/2'	93.1	Sand-fine to medium sand, dark brown, dry		SP	13,14,18,28
					Sand-fine, tan, dry, trade shell			
	YES	SS2	1.8/2'	35.7	Sand-fine, tan, dry			7,13,13,14
					Sand-fine, tan, moist, few shell fragments, bottom saturated			
5		SS3	0.7/2'	10.4	Sand-fine to medium, gray, few shell fragments, saturated			16,12,5,4
10		SS4	2.0/2'	0				11,10,1,2
15								
20								
25								
30								

WELL DATA

 ABB ENVIRONMENTAL SERVICES, INC.

TITLE: Mayport Naval Station, Mayport, Fl.	**LOG of WELL:** MPT-2-2		**BORING NO.** MPT-2-2
CLIENT: SOUTHERN DIVISION, NAVFACENGCOM			**PROJECT NO:** 5097
CONTRACTOR: MONITOR TESTING		**DATE STARTED:** 9/22/87	**COMPLTD:** 9/22/87
METHOD: H.S.A.	**CASE SIZE:** 2"	**SCREEN INT.:** 3-10'	**PROTECTION LEVEL:** D
TOC ELEV.: 7.58 FT.	**MONITOR INST.:** Hnu	**TOT DPTH:** 10.0FT.	**DPTH TO ∇** 4.00 FT.
LOGGED BY: R. M. Nugent	**WELL DEVELOPMENT DATE:** 9/22/87		**SITE:** #2.

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN
		SS1	1.8/2'	0	Sand - Top (0.2') fine, dark brown, dry / Middle (0.7') fine, tan, moist / Bottom clayey, dark brown to black, moist, trade shell, stiff		SP SC SP	4,13,14,14
	YES	SS2	1.5/2'	0	Sand- Top (0.5') as above / Middle (0.5') fine to medium, gray moist / Bottom as above, saturated			13,17,29,30
5		SS3	1.9/2'	0	Sand-fine to medium, dry, silt, few shell fragments with a clay lens (0.5')			11,6,2,1
10		SS4	0.5/2'	0	Clay - dry, olive		CL	5
15								
20								
25								
30								

WELL DATA

 ABB ENVIRONMENTAL SERVICES, INC.

TITLE: Mayport Naval Station, Mayport, Fl.	**LOG of WELL:** MPT-2-3	**BORING NO.** MPT-2-3
CLIENT: SOUTHERN DIVISION, NAVFACENGCOM		**PROJECT NO:** 5097
CONTRACTOR: MONITOR TESTING	**DATE STARTED:** 9/11/87	**COMPLTD:** 9/14/87
METHOD: H.S.A.	**CASE SIZE:** 2" / **SCREEN INT.:** 5-15'	**PROTECTION LEVEL:** D
TOC ELEV.: 17.34 FT.	**MONITOR INST.:** Hnu / **TOT DPTH:** 15.0FT.	**DPTH TO ∇** 7.00 FT.
LOGGED BY: R. M. Nugent	**WELL DEVELOPMENT DATE:** 9/11/87	**SITE:** #2.

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN
		SS1	1.4/2'	0	Sand-Top (0.4') / fine to medium, top soil, dark brown, dry, trade shell, Bottom / fine, brown, few shell fragments decreaseing with depth		SP	6,15,8,9
		SS2	1.7/2'	34.4	Sand-fine, tan, dry, incesing moisture with depth			24,35,30,13
5		SS3	1.5/2'	6.7	Sand-fine to medium, gray, moist, few shell fragments, trade coarse sand concretion			23,36,29,35
	YES	SS4	1.4/2'	0				7,9,8,9
10		SS5	2.0/2'	17	Sand-fine, gray, saturated, few shell fragments, trade gravel size sand concretions			5,14,28,55
					Clay-		CL	
15		SS6	2.0/2'	7	Sand-fine, grey, saturated, few shell fragments		SP	7,50
20								
25								
30								

WELL DATA

 ABB ENVIRONMENTAL SERVICES, INC.

TITLE: Mayport Naval Station, Mayport, Fl.		**LOG of WELL:** MPT-2-4	**BORING NO.** MPT-2-4
CLIENT: SOUTHERN DIVISION, NAVFACENGCOM			**PROJECT NO:** 5087-04
CONTRACTOR: MONITOR TESTING		**DATE STARTED:** 8/11/87	**COMPLTD:** 8/11/87
METHOD: H.S.A.	**CASE SIZE:** 2"	**SCREEN INT.:** 3-13'	**PROTECTION LEVEL:** D
TOC ELEV.: 8.28 FT.	**MONITOR INST.:** Hnu	**TOT DPTH:** 15.0FT.	**DPTH TO ∇** 5.10 FT.
LOGGED BY: M. C. Dibiin	**WELL DEVELOPMENT DATE:** 8/11/87		**SITE:** #2.

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN
		SS1	1.5/2'		Sand-fine to medium with top soil, vegitation, gravel, small shell fragments with a layer (0.5') of clayey sand, orange, moist at 1' depth		SP SC SP	4,12,17,20
5	YES	SS2	1.3/2'		Sand-fine, light grey, small shell fragments, saturated			8,11,5,10
10		SS3	2.0/2'		Clay-uniform, olive, decomposed organics		CL	4,5,9,10
15		SS4	1.5/2'		Clay-same as above Sand- top (0.4') very fine, greenish grey, bottom interbedded with sand and clay		SP SC	3,6,11,18
20								
25								
30								

WELL DATA

 ABB ENVIRONMENTAL SERVICES, INC.

TITLE: Mayport Naval Station, Mayport, Fl.		**LOG of WELL:** MPT-2-5	**BORING NO.** MPT-2-5
CLIENT: SOUTHERN DIVISION, NAVFACENGCOM			**PROJECT NO:** 5097-04
CONTRACTOR: MONITOR TESTING		**DATE STARTED:** 9/23/87	**COMPLTD:** 9/23/87
METHOD: H.S.A.	**CASE SIZE:** 2"	**SCREEN INT.:** 3-10'	**PROTECTION LEVEL:** D
TOC ELEV.: 9.81 FT.	**MONITOR INST.:** Hnu	**TOT DPTH:** 10.0FT.	**DPTH TO ∇** 3.0 FT.
LOGGED BY: M. C. Dibiin	**WELL DEVELOPMENT DATE:** 9/23/87		**SITE:** #2

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
	YES	SS1	1.8/2'		Sand-top (0.5') fine to medium sand, top soil, dark brown, dry/ bottom (1.1') light to dark grey, trace coarse sand and shell fragments, dry to moist		SP	17,23,30,S	
5		SS2	1.4/2'	36.2	Sand-fine to coarse, light grey, few shell fragments, saturated			1,7,10,9	
10		SS3	0.7/1'		Clay-dark, olive, saturated		CL SP	11,13	
15									
20									
25									
30									

 ABB ENVIRONMENTAL SERVICES, INC.

TITLE: Mayport Naval Station, Mayport, Fl.		**LOG of WELL:** MPT-2-6	**BORING NO.** MPT-2-6
CLIENT: SOUTHERN DIVISION, NAVFACENGCOM			**PROJECT NO:** 5097-04
CONTRACTOR: MONITOR TESTING		**DATE STARTED:** 9/22/87	**COMPLTD:** 9/22/87
METHOD: H.S.A.	**CASE SIZE:** 2"	**SCREEN INT.:** 3-10'	**PROTECTION LEVEL:** D
TOC ELEV.: 9.429 FT.	**MONITOR INST.:** Hnu	**TOT DPTH:** 10.0FT.	**DPTH TO ∇** 4.0 FT.
LOGGED BY: R. M. Nugent	**WELL DEVELOPMENT DATE:** 9/22/87		**SITE:** #2

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN
	YES	SS1	1.8/2'	0	Sand-top (0.4') fine, top soil, dark brown, dry/ middle (0.4') fine to medium, light tan, dry, few shell fragments/ bottom same as above, trade gravel, moist with a clay layer (0.4') interbedded with some sand, some shell		SP	14,31,35,41
							CL	
		SS2	1.5/2'	0			SP	19,27,26,28
5		SS3	1.5/2'	0	Sand-fine to medium, gray, saturated, few shell fragments			2,5,7,12
10		SS4	1.8/2'	0	Clay-dark olive, organic		CL	4,5,5,10
15								
20								
25								
30								

WELL DATA

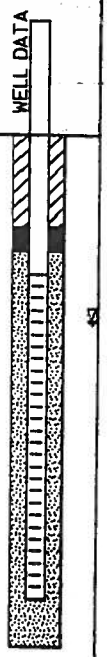


 ABB ENVIRONMENTAL SERVICES, INC.

TITLE: Mayport Naval Station, Mayport, Fl.	**LOG of WELL:** MPT-2-90	**BORING NO.** MPT-2-90
CLIENT: SOUTHERN DIVISION, NAVFACENGCOM		**PROJECT NO:** 5087-04
CONTRACTOR: MONITOR TESTING	**DATE STARTED:** 9/22/87	**COMPLTD:** 9/22/87
METHOD: H.S.A.	**CASE SIZE:** 2" / **SCREEN INT.:** 15-25'	**PROTECTION LEVEL:** D
TOC ELEV.: 10.58 FT.	**MONITOR INST.:** Hnu / **TOT DPTH:** 25.0FT.	**DPTH TO ∇** 7.0 FT.
LOGGED BY: M. C. Diblin	**WELL DEVELOPMENT DATE:** 9/23/87	**SITE:** #2

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN
	YES	SS1	1.8/2'	3.5	Sand-fine to medium, dark brown, dry		SP	8,9,27,30
			1.85/2'		Sand-fine to medium, light brown, dry, few shell fragments			
5		SS2	1.8/2'	78.3	Sand-as above			19,28,30,21
			2.0/2'		Sand-fine, gray, moist, trade shell fragments, bottom saturated			
		SS3	2/2'	2.3				2,2,3,4
10		SS4	1.5/2'	13.0	Clay-dark olive, saturated		CL	8,8,37,22
		SS5	1.3/2'	8.7	Sand-fine, light brown, saturated, bottom gray with few shell fragments		SP	?
15		SS6	2.0/2'	0.8	Sand-as above			9,15,31,?
20		SS7	1.3/2'	11.2	Sand-as above			?
25		SS8	-	14.5	Sand-fine, gray, saturated, some shell fragments in the bottom			?
30								

WELL DATA

 ABB ENVIRONMENTAL SERVICES, INC.

TITLE: Mayport Naval Station, Mayport, Fl.		**LOG of WELL:** MPT-2-10	**BORING NO.** MPT-2-10
CLIENT: SOUTHERN DIVISION, NAVFACENGCOM			**PROJECT NO:** 5 97-04
CONTRACTOR: MONITOR TESTING		**DATE STARTED:** 9/10/87	**COMPLTD:** 9/10/87
METHOD: H.S.A.	**CASE SIZE:** 2"	**SCREEN INT.:** 5-10'	**PROTECTION LEVEL:** D
TOC ELEV.: 10.3 FT.	**MONITOR INST.:** Hnu	**TOT DPTH:** 15.0FT.	**DPTH TO ∇** 5.8 FT.
LOGGED BY: M. C. Diblin	**WELL DEVELOPMENT DATE:** 9/17/87		**SITE:** #2

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN
		SS1	1.5/2'	7.1	Sand-fine to medium, light gray, shell fragments, well sorted with a top sandy clay layer, slightly moist		SP	40,34,40,34
5	YES	SS2	-	15.3	Sand-fine to medium, shells and fragments, very moist			9,21,18,13
			-					
10		SS3		5.1	Silty Clay-dark olive to black, decomposed organic matter, very moist		OL	5,4,4,7
15		SS4	-	5.3	Sand-fine, light tan, organic matter, saturated		SP	8,9,11,17
20								
25								
30								

WELL DATA

 ABB ENVIRONMENTAL SERVICES, INC.

TITLE: Mayport Naval Station, Mayport, Fl.	**LOG of WELL:** MPT2-MW-11S		**BORING NO.** MPT2-MW-11S
CLIENT: SOUTHERN DIVISION, NAVFACENGCOM			**PROJECT NO:** 7533-61
CONTRACTOR: GROUNDWATER PROTECTION, INC.		**DATE STARTED:** 1/21/92	**COMPLTD:** 1/21/92
METHOD: H.S.A.	**CASE SIZE:** 2"	**SCREEN INT.:** 2-12'	**PROTECTION LEVEL:** D
TOC ELEV.: 5.73 FT.	**MONITOR INST.:** PORTA-FID	**TOT DPTH:** 12FT.	**DPTH TO ∇** 2.00 FT.
LOGGED BY: Randy Holloway	**WELL DEVELOPMENT DATE:** 1/28/92		**SITE:** #2

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
	MPT-2-11-1.5-1	☒	N/A	0	SAND-very fine to fine, grey Note: Resampled on 1/24/92 utilizing a stainless steel hand auger		SP	3,4,3,4	
5			1.7/2	0	CLAY-dark brown, highly organic		OH	1,2,1,-	
10									
					Boring terminated @ 12'				
15									
20									
25									
30									

ABB ENVIRONMENTAL SERVICES, INC.

TITLE: Mayport Naval Station, Mayport, Fl.		**LOG of WELL:** MPT2-MW-12S	**BORING NO.** MPT2-MW-12S
CLIENT: SOUTHERN DIVISION, NAVFACENGCOM			**PROJECT NO:** 7533-81
CONTRACTOR: GROUNDWATER PROTECTION, INC.		**DATE STARTED:** 1/24/92	**COMPLTD:** 1/24/92
METHOD: H.S.A.	**CASE SIZE:** 2"	**SCREEN INT.:** 2-12'	**PROTECTION LEVEL:** D
TOC ELEV.: 5.51 FT.	**MONITOR INST.:** FID	**TOT DPTH:** 12FT.	**DPTH TO ∇** 3.00 FT.
LOGGED BY: Larry Smith	**WELL DEVELOPMENT DATE:** 1/28/92		**SITE:** #2

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
	MPT-2-12-2.5-1	☒		0	SAND-fine, tan Note: Sample obtained with stainless steel hand auger		SP		
5				0	SAND-fine, dk. brown, high clay content w/ organics		SC		
10				0	CLAY-dk. brown, highly organic		OL		
					Boring terminated @ 12'				
15									
20									
25									
30									

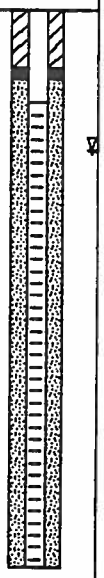


 ABB ENVIRONMENTAL SERVICES, INC.

TITLE: Mayport Naval Station, Mayport, Fl.	**LOG of WELL:** MPT2-MW-12D	**BORING NO.** MPT2-MW-12D
CLIENT: SOUTHERN DIVISION, NAVFACENGCOM		**PROJECT NO:** 7533-81
CONTRACTOR: GROUNDWATER PROTECTION, INC.	**DATE STARTED:** 1/27/92	**COMPLTD:** 1/27/92
METHOD: H.S.A.	**CASE SIZE:** 2" / **SCREEN INT.:** 14-24'	**PROTECTION LEVEL:** D
TOC ELEV.: 5.42 FT.	**MONITOR INST.:** FID / **TOT DPTH:** 24.5FT.	**DPTH TO ∇** 5.00 FT.
LOGGED BY: Randy Holloway	**WELL DEVELOPMENT DATE:** 1/28/92	**SITE:** #2

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN
					SAND-fine, tan		SP	
5					SAND-fine, dk. brown, high clay content w/ organics		SC	
10					CLAY-dark brown, highly organic		OL	
15			1.8/2	5.5	SAND-very fine to silty, dark grey, saturated		SM	1,1,2,6
20			0.5/2	1.2	GRAVEL SIZE SHELL FRAGMENTS		GP	6,5,6,6
			2/2	2.4	SAND-very fine to silty, grey, w/ abundance of shell fragments .		SP	4,5,6,8
25					Boring terminated @ 25'			
30								

WELL DATA

 ABB ENVIRONMENTAL SERVICES, INC.

TITLE: Mayport Naval Station, Mayport, Fl.	**LOG of WELL:** MPT-2-15SR	**BORING NO.** MPT-2-15SR
CLIENT: SOUTHERN DIVISION, NAVFACENGCOM		**PROJECT NO:** 5097-04
CONTRACTOR: MONITOR TESTING	**DATE STARTED:** 9/14/87	**COMPLTD:** 9/14/87
METHOD: H.S.A.	**CASE SIZE:** 2" **SCREEN INT.:** 5-15'	**PROTECTION LEVEL:** D
TOC ELEV.: 8.65 FT.	**MONITOR INST.:** Hnu **TOT DPTH:** 15.0FT.	**DPTH TO ∇** 4.0 FT.
LOGGED BY: M. C. Diblin	**WELL DEVELOPMENT DATE:** 9/14/87	**SITE:** #2

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN
		SS1	1.1/2'	2.7	Clayey Sand-with vegitation		SP	11,17,20,28
	YES	SS2	1.85/2'	0	Sand- top (0.4-0.8')/ fine, uniform, tan, shell fragments, middle (0.8-0.7')/ dark brownn clay with some sand bottom/ fine to medium, mottled greyish brown, poorly sorted			9,10,18,20
5					Sand- top (0.4')/ fine to medium, light gray to tan, dry middle (0.4-1.0)/ medium to coarse, dark to light gray bottom (1.0-1.85)/ light grey to tan, with a layer of plastic clay interbedded with sand, Fe Oxide bands			
			2.0/2'					
10		SS3		4.1	Sandy clay-fine to medium, dark brown, dry		SC	1,2,2,2
					Clay-light gray, moist, bottom/ dark green to olive with organic material, plastic, moist		CL	
15		SS5	2.0/2'	4.3	Clay-green/brown to olive, organic matter, moist			4,9,20,13
					Clayey Sand-very fine, light grey, moist		SP	
20								
25								
30								

WELL DATA

ABB ENVIRONMENTAL SERVICES, INC.

TITLE: Mayport Naval Station, Mayport, Fl.		**LOG of WELL:** MPT-2-15DR	**BORING NO.** MPT-2-15DR
CLIENT: SOUTHERN DIVISION, NAVFACENGCOM			**PROJECT NO:** 5087-04
CONTRACTOR: MONITOR TESTING		**DATE STARTED:** 9/23/87	**COMPLTD:** 9/23/87
METHOD: H.S.A.	**CASE SIZE:** 2"	**SCREEN INT.:** 15-25'	**PROTECTION LEVEL:** D
TOC ELEV.: 8.88 FT.	**MONITOR INST.:** Hnu	**TOT DPTH:** 25.0FT.	**DPTH TO ∇** 7.4 FT.
LOGGED BY: M. C. Diblin	**WELL DEVELOPMENT DATE:** 9/23/87		**SITE:** #2

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN
					Clay-dark olive, saturated, some organic matter		SP	
					Sand - top (0.4-0.8') fine, uniform, tan, shell fragments, middle (0.8-0.7') dark brown clay with some sand bottom/ fine to medium, mottled grayish brown, poorly sorted			
					Sand - top (0.4') fine to medium, light gray to tan, dry middle (0.4-1.0) medium to coarse, dark to light gray bottom (1.0-1.85) light gray to tan, with a layer of plastic clay interbedded with sand, Fe Oxide bands			
5								
10		SS1	2.0/2'	0	Sandy clay- fine to medium, dark brown, dry		SC	1,1,3,3
					Clay- light gray, moist, bottom/ dark green to olive with organic material, plastic, moist		CL	
	YES	SS2	2.0/2'	0				10,3,7,4
					Clayey Sand-dark grey Clayey Sand-with vegitation		SC	
					Sand- top (0.4-0.8')/ fine, uniform, tan, shell fragments, middle (0.8-0.7')/ dark brownn clay with some sand bottom/ fine to medium, matteled greyish brown, poorly sorted			
15		SS3	0.8/2'	8.8			SP	6,8,13,15
					Sand- top (0.4')/ fine to medium, light gray to tan, dry middle (0.4-1.0)/ medium to coarse, dark to light gray bottom (1.0-1.85)/ light grey to tan, with a layer of plastic clay interbedded with sand, Fe Oxide bands			
20					Sandy clay-fine to medium, dark brown, dry			
					Clay-light gray, moist, bottom/ dark green to olive with organic material, plastic, moist			
					Clay-green/brown to olive, organic matter, moist			
					Clayey Sand-very fine, light grey, moist			
25		SS4	2.0/2'	2.8				6,9,8,4
30								

WELL DATA

ABB ENVIRONMENTAL SERVICES, INC.

TITLE: Mayport Naval Station, Mayport, Fl.		**LOG of WELL:** MPT2-MW-16S	**BORING NO.** MPT2-MW-16S
CLIENT: SOUTHERN DIVISION, NAVFACENGCOM			**PROJECT NO:** 7533-81
CONTRACTOR: GROUNDWATER PROTECTION, INC.		**DATE STARTED:** 1/21/92	**COMPLTD:** 1/21/92
METHOD: H.S.A.	**CASE SIZE:** 2"	**SCREEN INT.:** 2-12'	**PROTECTION LEVEL:** D
TOC ELEV.: 5.51 FT.	**MONITOR INST.:** PID	**TOT DPTH:** 12FT.	**DPTH TO ∇** 4.00 FT.
LOGGED BY: Randy Holloway	**WELL DEVELOPMENT DATE:** 1/22/92		**SITE:** #2

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
					Sandy brown fill w/ shell fragments		SP		
	MPT-2-16-2-1	☒			No sample recovered				
			0/2		Note: Resampled 1/24/92 utilizing stainless steel hand auger			22,14,14,12	
5									
					SAND-fine, grey, saturated				
10			2/2	1.0	CLAY-dark brown, highly organic		PT	6,4,3,4	
					Boring terminated @ 12'				
15									
20									
25									
30									

 ABB ENVIRONMENTAL SERVICES, INC.

TITLE: Mayport Naval Station, Mayport, Fl.		**LOG of WELL:** MPT2-MW-16DD	**BORING NO.** MPT2-MW-16DD
CLIENT: SOUTHERN DIVISION, NAVFACENGCOM			**PROJECT NO:** 7533-61
CONTRACTOR: GROUNDWATER PROTECTION, INC.		**DATE STARTED:** 1/17/92	**COMPLTD:** 1/20/92
METHOD: Mud Rotary	**CASE SIZE:** 4"	**SCREEN INT.:** 90-100'	**PROTECTION LEVEL:** D
TOC ELEV.: 6.69 FT.	**MONITOR INST.:** FID	**TOT DPTH:** 100FT.	**DPTH TO ∇** 3.5 FT.
LOGGED BY: Pat Craine	**WELL DEVELOPMENT DATE:** 2/14/92		**SITE:** #2

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
					SAND-fine, brown, w/ shell fragments		SP		
5			1/2	0				3,5,14,10	
			1.7/2	1.0	CLAY-silty, dk. brown, some organics, soft		OL	N/A	
10									
			0.7/2	0	SAND-fine to medium, dk. brown, saturated		SP	1,1,3,4	
15									
			1.8/2	0.3	SAND-very fine to fine, gray, w/ shell fragments			1,1,4,3	
20									
			N/A	0.7	SAND-very fine to silty, gray, trace shell fragments		SM	1,2,2,3	
25									
			1.8/2	N/A	SAND-clayey, fine to medium, olive green, w/ shell fragments		SC	2,4,5,4	
30									

 ABB ENVIRONMENTAL SERVICES, INC.

TITLE: Mayport Naval Station, Mayport, Fl.		**LOG of WELL:** MPT2-MW-16DD	**BORING NO.** MPT2-MW-16DD
CLIENT: SOUTHERN DIVISION, NAVFACENGCOM			**PROJECT NO:** 7533-81
CONTRACTOR: GROUNDWATER PROTECTION, INC.		**DATE STARTED:** 1/17/92	**COMPLTD:** 1/20/92
METHOD: Mud Rotary	**CASE SIZE:** 4"	**SCREEN INT.:** 90-100'	**PROTECTION LEVEL:** D
TOC ELEV.: 8.89 FT.	**MONITOR INST.:** FID	**TOT DPTH:** 100FT.	**DPTH TO ▽** 3.5 FT.
LOGGED BY: Pat Craine	**WELL DEVELOPMENT DATE:** 2/14/92		**SITE:** #2

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
					Continued from PAGE 1				
			1.8/2				SC		
35			1/2	N/A				3,3,4,4	
							GC		
					CLAY-olive green, stiff, good plasticity (21") over		CH		
40			1.8/2	N/A	SAND-fine to medium, silty, gray (3")		SM	5,4,11,22	
45			1/2	N/A				15,18,27,33	
50			1.2/2	N/A	SAND-silty, gray, w/ small clay lenses 1" thick every 4"		SC	15,21,34,50	
			1.2/2	N/A	SAND-very fine to fine, w/ some silt, tan, tight, wet		SM	15,28,21,37	
55									
60			1.2/2	N/A				15,10,20,22	

 ABB ENVIRONMENTAL SERVICES, INC.

TITLE: Mayport Naval Station, Mayport, Fl.		**LOG of WELL:** MPT2-MW-16D	**BORING NO.** MPT2-MW-16D
CLIENT: SOUTHERN DIVISION, NAVFACENGCOM			**PROJECT NO:** 7533-81
CONTRACTOR: GROUNDWATER PROTECTION, INC.		**DATE STARTED:** 1/17/92	**COMPLTD:** 1/20/92
METHOD: Mud Rotary	**CASE SIZE:** 4"	**SCREEN INT.:** 90-100'	**PROTECTION LEVEL:** D
TOC ELEV.: 8.89 FT.	**MONITOR INST.:** FID	**TOT DPTH:** 100FT.	**DPTH TO ∇** 3.5 FT.
LOGGED BY: Pat Craine	**WELL DEVELOPMENT DATE:** 2/14/92		**SITE:** #2

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
					Continued from PAGE 2				
65			2/2	0	SAND-as above (3") over Gravel size shell fragments and quartz, loose (1") over SAND-as above (3")		SM GC SM	15,29,41,32	
70			1/2	1.0	CLAY-silty, olive green, some interbedded limestone fragments		CL	8,8,22,25	
75			1.2/2	1.2	CLAY-as above			24,8,8,8	
80			1.8/2	0	CLAY-as above			19,29,50,-	
85			1.8/2	0	CLAY-as above			15,25,29,33	
90			1.8/2	0	CLAY-as above			12,18,17,19	

 ABB ENVIRONMENTAL SERVICES, INC.

TITLE: Mayport Naval Station, Mayport, Fl.		**LOG of WELL:** MPT2-MW-160D	**BORING NO.** MPT2-MW-160D
CLIENT: SOUTHERN DIVISION, NAVFACENGCOM			**PROJECT NO:** 7533-81
CONTRACTOR: GROUNDWATER PROTECTION, INC.		**DATE STARTED:** 1/17/92	**COMPLTD:** 1/20/92
METHOD: Mud Rotary	**CASE SIZE:** 4"	**SCREEN INT.:** 90-100'	**PROTECTION LEVEL:** D
TOC ELEV.: 8.89 FT.	**MONITOR INST.:** FID	**TOT DPTH:** 100FT.	**DPTH TO ∇** 3.5 FT.
LOGGED BY: Pat Craine	**WELL DEVELOPMENT DATE:** 2/14/92		**SITE:** #2

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
					Continued from PAGE 3				
			1.8/2				CL		
95			1.5/2	1.8	CLAY-as above (6") over SAND-fine, gray, wet			27,33,50,-	
			1.2/2	3.7	SAND-as above (1") over CLAY-as above (3")		SM		
							CL	18,22,22,35	
100					Boring terminated @ 100'				
105									
110									
115									
120									

 ABB ENVIRONMENTAL SERVICES, INC.

TITLE: Mayport Naval Station, Mayport, Fl.	**LOG of WELL:** MPT2-MW-17S	**BORING NO.** MPT2-MW-17S
CLIENT: SOUTHERN DIVISION, NAVFACENGCOM		**PROJECT NO:** 7533-81
CONTRACTOR: GROUNDWATER PROTECTION, INC.	**DATE STARTED:** 1/21/92	**COMPLTD:** 1/21/92
METHOD: H.S.A.	**CASE SIZE:** 2" / **SCREEN INT.:** 3-13'	**PROTECTION LEVEL:** D
TOC ELEV.: 7.73 FT.	**MONITOR INST.:** PID / **TOT DPTH:** 13FT.	**DPTH TO ∇** 5.00 FT.
LOGGED BY: Randy Holloway	**WELL DEVELOPMENT DATE:** 2/12/92	**SITE:** #2

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
					SAND-fine, tan, shell fragments		SP		
			N/A	0	No sampled recovered			4,2,1,1	
5			1.5/2	0	SAND-fine, gray, shell fragments, saturated			1,1,1,-	
10									
15					Boring terminated @ 13'				
20									
25									
30									

 ABB ENVIRONMENTAL SERVICES, INC.

TITLE: Mayport Naval Station, Mayport, Fl.		**LOG of WELL:** MPT2-MW-17DD	**BORING NO.** MPT2-MW-17DD
CLIENT: SOUTHERN DIVISION, NAVFACENGCOM			**PROJECT NO:** 7533-81
CONTRACTOR: GROUNDWATER PROTECTION, INC.		**DATE STARTED:** 1/21/92	**COMPLTD:** 1/29/92
METHOD: Mud Rotary	**CASE SIZE:** 4"	**SCREEN INT.:** 115-125'	**PROTECTION LEVEL:** D
TOC ELEV.: 7.78 FT.	**MONITOR INST.:** PID	**TOT DPTH:** 125FT.	**DPTH TO ∇** 4.00 FT.
LOGGED BY: Randy Holloway	**WELL DEVELOPMENT DATE:** 2/12/92		**SITE:** #2

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
					SAND-fine, tan, shell fragments		SP		
5					SAND-fine, fine, gray, shell fragments, saturated				
10									
15			1.8/2	0	SAND-as above			4,3,2,2	
20			1.8/2	0.2	SAND-as above, w/ abundance of shell fragments			5,5,7,8	
							CL		
25			2/2	0	CLAY-very silty, olive green			2,2,3,4	
							SM		
30			1/2	0.3				7,8,18,25	

 ABB ENVIRONMENTAL SERVICES, INC.

TITLE: Mayport Naval Station, Mayport, Fl.		**LOG of WELL:** MPT2-MW-17DD	**BORING NO.** MPT2-MW-17DD
CLIENT: SOUTHERN DIVISION, NAVFACENGCOM			**PROJECT NO:** 7533-61
CONTRACTOR: GROUNDWATER PROTECTION, INC.		**DATE STARTED:** 1/21/92	**COMPLTD:** 1/29/92
METHOD: Mud Rotary	**CASE SIZE:** 4"	**SCREEN INT.:** 115-125'	**PROTECTION LEVEL:** D
TOC ELEV.: 7.79 FT.	**MONITOR INST.:** PID	**TOT DPTH:** 125FT.	**DPTH TO ∇** 4.00 FT.
LOGGED BY: Randy Holloway	**WELL DEVELOPMENT DATE:** 2/12/92		**SITE:** #2

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
					Continued from PAGE 1				
			1/2		SAND-very fine to silty, saturated		SM		
35			1.5/2	0.2	SAND-fine to medium, tan, w/ some shell fragments (1') over SAND-very fine to silty, w/ abundance of shell fragments (6")			39,31,30,32	
							SP		
40			0.8/2	0.2	SAND-very fine to fine, gray, w/ some shell fragments, wet			38,50,-,-	
45			0.8/2	1.3	SAND-as above			14,19,24,21	
50			0.5/2	0	SAND-as above			10,18,25,22	
							CL		
55			0.5/2	0	CLAY-silty, gray			6,10,10,14	
60							SM		

ABB ENVIRONMENTAL SERVICES, INC.

TITLE: Mayport Naval Station, Mayport, Fl.		**LOG of WELL:** MPT2-MW-17DD	**BORING NO.** MPT2-MW-17DD
CLIENT: SOUTHERN DIVISION, NAVFACENGCOM			**PROJECT NO:** 7533-81
CONTRACTOR: GROUNDWATER PROTECTION, INC.		**DATE STARTED:** 1/21/92	**COMPLTD:** 1/29/92
METHOD: Mud Rotary	**CASE SIZE:** 4"	**SCREEN INT.:** 115-125'	**PROTECTION LEVEL:** D
TOC ELEV.: 7.79 FT.	**MONITOR INST.:** PID	**TOT DPTH:** 125FT.	**DPTH TO ∇** 4.00 FT.
LOGGED BY: Randy Holloway	**WELL DEVELOPMENT DATE:** 2/12/92		**SITE:** #2

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
					Continued from PAGE 2				
65			2/2	0.4	SAND-very fine to silty, tan, w/ a few shell fragments + 1" bands of clay every 4"		SM	24,18,14,27	
70			1.5/2	0.3	SAND-very fine, gray, hard, w/ some shell fragments		SP	24,42,50,-	
75			2/2	0.2	SAND-as above, w/ phosphate nodules			4,18,29,28	
80			2/2	0.2	SAND-fine to medium, olive green, wet (9") over CLAY-sandy, olive green, hard (15")		CL	10,11,8,22	
85			2/2	0.3	SAND-very fine to silty, olive green, moist, w/ black phosphate nodules		SM	5,5,8,11	
90									

 ABB ENVIRONMENTAL SERVICES, INC.

TITLE: Mayport Naval Station, Mayport, Fl.		**LOG of WELL:** MPT2-MW-17DD	**BORING NO.** MPT2-MW-17DD
CLIENT: SOUTHERN DIVISION, NAVFACENGCOM			**PROJECT NO:** 7533-81
CONTRACTOR: GROUNDWATER PROTECTION, INC.		**DATE STARTED:** 1/21/92	**COMPLTD:** 1/29/92
METHOD: Mud Rotary	**CASE SIZE:** 4"	**SCREEN INT.:** 115-125'	**PROTECTION LEVEL:** D
TOC ELEV.: 7.79 FT.	**MONITOR INST.:** PID	**TOT DPTH:** 125FT.	**DPTH TO ∇** 4.00 FT.
LOGGED BY: Randy Holloway	**WELL DEVELOPMENT DATE:** 2/12/92		**SITE:** #2

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
					Continued from PAGE 3				
			2/2	0.2	SAND-as above		SM	4,8,8,8	
95			2/2	0.2	SAND-as above			5,8,14,18	
100			2/2	0.3	SAND-as above			9,11,17,17	
105			2/2	0.8	SAND-as above		SC	14,21,20,30	
110			2/2	0.2	SAND-as above, w/ higher clay content			12,10,18,20	
115			2/2	0.2	CLAYEY SAND- as above			14,12,18,21	
120			1/2	0.2				12,18,17,21	

 ABB ENVIRONMENTAL SERVICES, INC.

TITLE: Mayport Naval Station, Mayport, Fl.		**LOG of WELL:** MPT2-MW-17DD	**BORING NO.** MPT2-MW-17DD
CLIENT: SOUTHERN DIVISION, NAVFACENGCOM			**PROJECT NO:** 7533-81
CONTRACTOR: GROUNDWATER PROTECTION, INC.		**DATE STARTED:** 1/21/92	**COMPLTD:** 1/29/92
METHOD: Mud Rotary	**CASE SIZE:** 4"	**SCREEN INT.:** 115-125'	**PROTECTION LEVEL:** D
TOC ELEV.: 7.79 FT.	**MONITOR INST.:** PID	**TOT DPTH:** 125FT.	**DPTH TO ∇** 4.00 FT.
LOGGED BY: Randy Holloway	**WELL DEVELOPMENT DATE:** 2/12/92		**SITE:** #2

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
					Continued from PAGE 4				
			1/2		CLAYEY SAND- as above		SC		
125			1.5/2	0.2	CLAYEY SAND- as above			3,4,7,10	
					Boring terminated @ 125'				
130									
135									
140									
145									
150									

TITLE: Mayport Naval Station, Mayport, Fl.		**LOG of WELL:** MPT2-P1	**BORING NO.** MPT2-P1
CLIENT: SOUTHERN DIVISION, NAVFACENGCOM			**PROJECT NO:** 7533-61
CONTRACTOR: GROUNDWATER PROTECTION, INC.		**DATE STARTED:** 1/14/92	**COMPLTD:** 1/14/92
METHOD: H.S.A.	**CASE SIZE:** 2"	**SCREEN INT.:** 3-8'	**PROTECTION LEVEL:** D
TOC ELEV.: 7.75 FT.	**MONITOR INST.:** PID	**TOT DPTH:** 8FT.	**DPTH TO ∇** 3.00 FT.
LOGGED BY: Pat Craine	**WELL DEVELOPMENT DATE:** N/A		**SITE:** #2

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
							SP		
5			1.8/2	100	SAND-fine to medium, silty, olive green, w/ shell fragaments			3,3,3,3	
					Boring terminated @ 8'				
10									
15									
20									
25									
30									

ABB ENVIRONMENTAL SERVICES, INC.

TITLE: Mayport Naval Station, Mayport, Fl.	**LOG of WELL:** MPT2-P2	**BORING NO.** MPT2-P2
CLIENT: SOUTHERN DIVISION, NAVFACENGCOM		**PROJECT NO:** 7533-81
CONTRACTOR: GROUNDWATER PROTECTION, INC.	**DATE STARTED:** 1/14/92	**COMPLTD:** 1/14/92
METHOD: H.S.A.	**CASE SIZE:** 2" / **SCREEN INT.:** 4-9'	**PROTECTION LEVEL:** D
TOC ELEV.: 7.97 FT.	**MONITOR INST.:** FID / **TOT DPTH:** 9FT.	**DPTH TO ∇** N/A FT.
LOGGED BY: PAT CRAINE	**WELL DEVELOPMENT DATE:** N/A	**SITE:** #2

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
							SP		
5			1.8/2	0.2	SAND-fine to medium, olive green to gray, w/ shell fragments			8,8,4,5	
10					Boring terminated @ 9'				
15									
20									
25									
30									

ABB ENVIRONMENTAL SERVICES, INC.

TITLE: Mayport Naval Station, Mayport, Fl.	**LOG of WELL:** MPT2-P3	**BORING NO.** MPT2-P3
CLIENT: SOUTHERN DIVISION, NAVFACENGCOM		**PROJECT NO:** 7533-61
CONTRACTOR: GROUNDWATER PROTECTION, INC.	**DATE STARTED:** 1/14/92	**COMPLTD:** 1/14/92
METHOD: H.S.A.	**CASE SIZE:** 2" / **SCREEN INT.:** 27-32'	**PROTECTION LEVEL:** D
TOC ELEV.: 31.93 FT.	**MONITOR INST.:** FID / **TOT DPTH:** 32FT.	**DPTH TO ∇** 28 FT.
LOGGED BY: Randy Holloway	**WELL DEVELOPMENT DATE:** N/A	**SITE:** #2

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
					SAND-very fine to fine, tan, w/ shell fragments		SP		
5				4	SAND-very fine to fine, olive green, w/ shell fragments, moist				
10				12	SAND-fine, tan, moist				
15				7	SAND-as above				
20				7	SAND-as above				
25				9.6	SAND-very fine to fine, olive green, moist				
30			1.8/2	30	SAND-very fine, olive green, w/ shell fragments, saturated			4,7,7,7	
					Boring terminated @ 32'				
35									
40									

 ABB ENVIRONMENTAL SERVICES, INC.

TITLE: Mayport Naval Station, Mayport, Fl.	**LOG of WELL:** MPT2-P4	**BORING NO.** MPT2-P4
CLIENT: SOUTHERN DIVISION, NAVFACENGCOM		**PROJECT NO:** 7533-81
CONTRACTOR: GROUNDWATER PROTECTION, INC.	**DATE STARTED:** 1/14/92	**COMPLTD:** 1/15/92
METHOD: H.S.A.	**CASE SIZE:** 2" / **SCREEN INT.:** 30-35'	**PROTECTION LEVEL:** D
TOC ELEV.: 32.74 FT.	**MONITOR INST.:** PID / **TOT DPTH:** 35FT.	**DPTH TO ∇** 28 FT.
LOGGED BY: Randy Holloway	**WELL DEVELOPMENT DATE:** N/A	**SITE:** #2

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
				2.0	SAND-very fine to fine, tan, loose		SP		
5									
10				10	SAND-very fine to fine, lt. brown, loose				
15									
20				8.0	SAND-as above				
25									
30			1.8/2	20	CLAY-silty, black, organic, moist		OL	8,7,4,4	
35									
					Boring terminated @ 35'				
40									

ABB ENVIRONMENTAL SERVICES, INC.

TITLE: Mayport Naval Station, Mayport, Fl.	**LOG of WELL:** MPT2-P5		**BORING NO.** MPT2-P5
CLIENT: SOUTHERN DIVISION, NAVFACENGCOM			**PROJECT NO:** 7533-81
CONTRACTOR: GROUNDWATER PROTECTION, INC.		**DATE STARTED:** 1/15/92	**COMPLTD:** 1/15/92
METHOD: H.S.A.	**CASE SIZE:** 2"	**SCREEN INT.:** 8-11'	**PROTECTION LEVEL:** D
TOC ELEV.: 7.15 FT.	**MONITOR INST.:** PID	**TOT DPTH:** 11FT.	**DPTH TO ∇** 5.50 FT.
LOGGED BY: Randy Holloway	**WELL DEVELOPMENT DATE:** N/A		**SITE:** #2

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
					SAND-very fine to fine, tan, w/ abundance of shell fragments		SP		
5			1.7/2	7.8	SAND-very fine to fine, gray, w/ shell fragments, saturated			4,5,7,8	
10									
					Boring terminated @ 11'				
15									
20									
25									
30									

 ABB ENVIRONMENTAL SERVICES, INC.

TITLE: Mayport Naval Station, Mayport, Fl.	**LOG of WELL:** MPT2-P6		**BORING NO.** MPT2-P6
CLIENT: SOUTHERN DIVISION, NAVFACENGCOM			**PROJECT NO:** 7533-61
CONTRACTOR: GROUNDWATER PROTECTION, INC.		**DATE STARTED:** 1/15/92	**COMPLTD:** 1/15/92
METHOD: H.S.A.	**CASE SIZE:** 2"	**SCREEN INT.:** 5-10'	**PROTECTION LEVEL:** D
TOC ELEV.: 5.09 FT.	**MONITOR INST.:** PID	**TOT DPTH:** 10FT.	**DPTH TO ∇** 3.5 FT.
LOGGED BY: R.W. HOLLOWAY	**WELL DEVELOPMENT DATE:** N/A		**SITE:** #2

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
					Black sandy top soil		SP		
5			1.8/2	58.8	SAND-fine to very fine, grey, saturated, trace organics			1,2,1,-	
					SAND-silty, gray, saturated		SM		
10					Boring terminated @ 10'				
15									
20									
25									
30									

ABB ENVIRONMENTAL SERVICES, INC.

TITLE: Mayport Naval Station, Mayport, Fl.	**LOG of WELL:** MPT2-P7	**BORING NO.** MPT2-P7
CLIENT: SOUTHERN DIVISION, NAVFACENGCOM		**PROJECT NO:** 7533-81
CONTRACTOR: GROUNDWATER PROTECTION, INC.	**DATE STARTED:** 1/18/92	**COMPLTD:** 1/18/92
METHOD: H.S.A.	**CASE SIZE:** 2" / **SCREEN INT.:** 5-10'	**PROTECTION LEVEL:** D
TOC ELEV.: 7.95 FT.	**MONITOR INST.:** PID / **TOT DPTH:** 10FT.	**DPTH TO ∇** 5.00 FT.
LOGGED BY: R.W. HOLLOWAY	**WELL DEVELOPMENT DATE:** N/A	**SITE:** #2

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
					Black sandy top soil		SP		
					SAND-very fine to fine, tan, loose				
5			1.2/2	22	SAND-fine to very fine, grey, abundance of shell fragments			6,4,5,4	
10									
					Boring terminated @ 10'				
15									
20									
25									
30									

 ABB ENVIRONMENTAL SERVICES, INC.

TITLE: Mayport Naval Station, Mayport, Fl.		**LOG of WELL:** MPT2-P8	**BORING NO.** MPT2-P8
CLIENT: SOUTHERN DIVISION, NAVFACENGCOM			**PROJECT NO:** 7533-61
CONTRACTOR: GROUNDWATER PROTECTION, INC.		**DATE STARTED:** 1/16/92	**COMPLTD:** 1/16/92
METHOD: H.S.A.	**CASE SIZE:** 2"	**SCREEN INT.:** 5-10'	**PROTECTION LEVEL:** D
TOC ELEV.: 6.35 FT.	**MONITOR INST.:** PID	**TOT DPTH:** 10FT.	**DPTH TO ∇** 4 FT.
LOGGED BY: R.W. HOLLOWAY	**WELL DEVELOPMENT DATE:** N/A		**SITE:** #2

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
				18.8	CLAY-silty, organic, dk. brown, w/ some shell fragments		CL		
							SP	1,-	
5			2/2		SAND-fine to very fine, grey, abundance of shell fragments				
				50.2	CLAY-organic, dk. brown, moist		OL		
10					Boring terminated @ 10'				
15									
20									
25									
30									

ABB ENVIRONMENTAL SERVICES, INC.

TITLE: Mayport Naval Station, Mayport, Fl.	**LOG of WELL:** MPT2-P9	**BORING NO.** MPT2-P9
CLIENT: SOUTHERN DIVISION, NAVFACENGCOM		**PROJECT NO:** 7533-61
CONTRACTOR: GROUNDWATER PROTECTION, INC.	**DATE STARTED:** 1/16/92	**COMPLTD:** 1/16/92
METHOD: H.S.A.	**CASE SIZE:** 2" / **SCREEN INT.:** 30-35'	**PROTECTION LEVEL:** D
TOC ELEV.: 32.18 FT.	**MONITOR INST.:** PID / **TOT DPTH:** 35FT.	**DPTH TO ∇** 28.5 FT.
LOGGED BY: Randy Holloway	**WELL DEVELOPMENT DATE:** N/A	**SITE:** #2

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
					SAND-very fine to fine, tan, loose, few shell fragments		SP		
5				2.3	SAND-as above				
10				11.8	SAND-as above				
15				2.3	SAND-as above				
20				3.1	SAND-as above				
25									
30			0.5/2	4.0	SAND-very fine to fine, gray, saturated			7,9,8,8	
35									
					Boring terminated @ 35'				
40									

 ABB ENVIRONMENTAL SERVICES, INC.

TITLE: Mayport Naval Station, Mayport, Fl.		**LOG of WELL:** MPT2-P10	**BORING NO.** MPT2-P10
CLIENT: SOUTHERN DIVISION, NAVFACENGCOM			**PROJECT NO:** 7533-81
CONTRACTOR: GROUNDWATER PROTECTION, INC.		**DATE STARTED:** 1/18/92	**COMPLTD:** 1/18/92
METHOD: H.S.A.	**CASE SIZE:** 2"	**SCREEN INT.:** 30-35'	**PROTECTION LEVEL:** D
TOC ELEV.: 32.02 FT.	**MONITOR INST.:** PID	**TOT DPTH:** 35FT.	**DPTH TO ∇** 27 FT.
LOGGED BY: Randy Holloway	**WELL DEVELOPMENT DATE:** N/A		**SITE:** #2

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
					SAND-very fine to fine, tan, loose, few shell fragments		SP		
5					NOTE: Split-spoon sampling was not performed while penetrating material used to construct berm.				
10									
15									
20									
25									
30			1.2/2	4.0	SAND-very fine to fine, grey, saturated, over 6" of clay, silty dark grey, low plasticity		CL	6,5,6,8	
35					Boring terminated at 35'				
40									

 ABB ENVIRONMENTAL SERVICES, INC.

TITLE: Mayport Naval Station, Mayport, Fl.	**LOG of WELL:** MPT2-P11	**BORING NO.** MPT2-P11
CLIENT: SOUTHERN DIVISION, NAVFACENGCOM		**PROJECT NO:** 7533-61
CONTRACTOR: GROUNDWATER PROTECTION, INC.	**DATE STARTED:** 1/18/92	**COMPLTD:** 1/18/92
METHOD: H.S.A.	**CASE SIZE:** 2" / **SCREEN INT.:** 30-35'	**PROTECTION LEVEL:** D
TOC ELEV.: 31.85 FT.	**MONITOR INST.:** N/A / **TOT DPTH:** 35FT.	**DPTH TO ∇** 28 FT.
LOGGED BY: Randy Holloway	**WELL DEVELOPMENT DATE:** N/A	**SITE:** #2

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
					SAND-very fine to fine, tan, w/ some shell fragments		SP		
5									
10									
15					SAND-very fine to silty, gray, w/ shell fragments		SM		
20									
25									
30			0.9/2	5.2	SAND-as above, saturated			15,14,18,16	
35									
					Boring terminated @ 35'				
40									

 ABB ENVIRONMENTAL SERVICES, INC.

TITLE: Mayport Naval Station, Mayport, Fl.	**LOG of WELL:** MPT2-P12	**BORING NO.** MPT2-P12
CLIENT: SOUTHERN DIVISION, NAVFACENGCOM		**PROJECT NO:** 7533-81
CONTRACTOR: GROUNDWATER PROTECTION, INC.	**DATE STARTED:** 1/18/92	**COMPLTD:** 1/18/92
METHOD: H.S.A.	**CASE SIZE:** 2" / **SCREEN INT.:** 25-30'	**PROTECTION LEVEL:** D
TOC ELEV.: 32.75 FT.	**MONITOR INST.:** N/A / **TOT DPTH:** 30FT.	**DPTH TO ∇** 25 FT.
LOGGED BY: Randy Holloway	**WELL DEVELOPMENT DATE:** N/A	**SITE:** #2

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
					SAND-fine, tan, w/ some shell fragments		SP		
5									
10									
15									
20									
25									∇
30			1.5/2	0.5	SAND-fine, gray, saturated, over 1' CLAY-black, highly organic		OH	1,2,4,6	
					Boring terminated @ 31'				
35									
40									

ABB ENVIRONMENTAL SERVICES, INC.

TITLE: Mayport Naval Station, Mayport, Fl.	**LOG of WELL:** MPT2-P13	**BORING NO.** MPT2-P13
CLIENT: SOUTHERN DIVISION, NAVFACENGCOM		**PROJECT NO:** 7533-81
CONTRACTOR: GROUNDWATER PROTECTION, INC.	**DATE STARTED:** 1/23/92	**COMPLTD:** 1/23/92
METHOD: H.S.A.	**CASE SIZE:** 2"	**SCREEN INT.:** 5-10'	**PROTECTION LEVEL:** D
TOC ELEV.: 11.87 FT.	**MONITOR INST.:** FID	**TOT DPTH:** 10FT.	**DPTH TO ∇** 2.0 FT.
LOGGED BY: Larry Smith	**WELL DEVELOPMENT DATE:** N/A	**SITE:** #2

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
					SAND-clayey, lt. gray, organic, w/ shell fragments		SC		
			1.5/2	0.2				4,3,2,3	
					CLAY-dark gray, plastic, minor silt & sand		CL		
5									
					CLAY-same as above, grading to higher sand content				
10									
					Boring terminated @ 10'				
15									
20									
25									
30									

 ABB ENVIRONMENTAL SERVICES, INC.

TITLE: Mayport Naval Station, Mayport, Fl.		**LOG of WELL:** MPT-8-1	**BORING NO.** MPT-8-1
CLIENT: SOUTHERN DIVISION, NAVFACENGCOM			**PROJECT NO:** 5097-04
CONTRACTOR: MONITOR TESTING		**DATE STARTED:** 9/17/87	**COMPLTD:** 9/17/87
METHOD: H.S.A.	**CASE SIZE:** 2"	**SCREEN INT.:** 5-16.5'	**PROTECTION LEVEL:** D
TOC ELEV.: 15.74 FT.	**MONITOR INST.:** Hnu	**TOT DPTH:** 17.0FT.	**DPTH TO ∇** 9.0 FT.
LOGGED BY: M. C. Dibiin	**WELL DEVELOPMENT DATE:** 9/17/87		**SITE:** #8

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN
		SS1	1.8/2'	0.8	Sand-uniform, light tan, dry with dark brown to black top soil		SP	5,5,24,38
5		SS2	1.8/2'	188	Sand- top/ fine, dark brown, organic sandy soil, middle/ light brown bottom/ fine to medium, light grey			16,17,33,41
	YES	SS3	1.1/2'		Sand-fine to medium, few shell fragments			8,9,8,2
10		SS4	2.0/2'	140	Sand-top/ fine to medium, dark gray with black silty sand layers bottom/ light grey, with clay lens			1,3,1,2
15		SS5	1.7/2'	52.3	Sand-fine, uniform, with small clay, a clay, a layer (0.15') uniform, plastic, grey , some shell fragments at the bottom			7,16,17,8
20								
25								
30								

WELL DATA

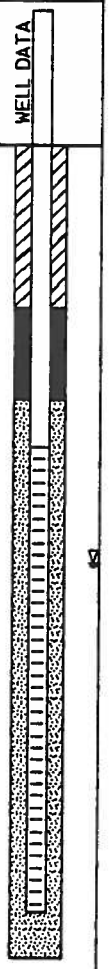


 ABB ENVIRONMENTAL SERVICES, INC.

TITLE: Mayport Naval Station, Mayport, Fl.	**LOG of WELL:** MPT-8-2		**BORING NO.** MPT-8-2
CLIENT: SOUTHERN DIVISION, NAVFACENGCOM			**PROJECT NO:** 5097-04
CONTRACTOR: MONITOR TESTING		**DATE STARTED:** 9/17/87	**COMPLTD:** 9/17/87
METHOD: H.S.A.	**CASE SIZE:** 2"	**SCREEN INT.:** 5-17'	**PROTECTION LEVEL:** D
TOC ELEV.: 14.00 FT.	**MONITOR INST.:** Hnu	**TOT DPTH:** 15.0FT.	**DPTH TO ∇** 9.50 FT.
LOGGED BY: M. C. Dibiin	**WELL DEVELOPMENT DATE:** 9/17/87		**SITE:** #8

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN
		SS1	2.0/2'		Sand-fine to medium, tan, few shell fragments, dry, bottom/ tan to grey, many shells		SP	13,20,22,38
5		SS2	1.7/2'		Sand-same as above, dark brown on the top, light grey at the bottom			17,21,30,58
	YES	SS3	1.1/2'		Sand-same as above			12,13,20,22
10		SS4	1.1/2'		Sand-fine to medium, grey, shells and fragments, grading to fine sand			6,9,13,19
15		SS5	2.0/2'		Sand-same as abov, light grey, with many shells			4,7,9,13
20								
25								
30								

WELL DATA

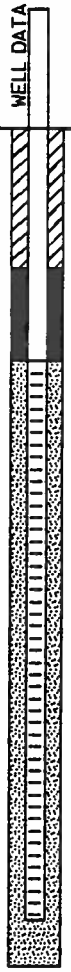


 ABB ENVIRONMENTAL SERVICES, INC.

TITLE: Mayport Naval Station, Mayport, Fl.		**LOG of WELL:** MPT-8-3	**BORING NO.** MPT-8-3
CLIENT: SOUTHERN DIVISION, NAVFACENGCOM			**PROJECT NO:** 5097F04
CONTRACTOR: MONITOR TESTING		**DATE STARTED:** 9/16/87	**COMPLTD:** 9/16/87
METHOD: H.S.A.	**CASE SIZE:** 2"	**SCREEN INT.:** 5-15'	**PROTECTION LEVEL:** D
TOC ELEV.: 14.10 FT.	**MONITOR INST.:** Hnu	**TOT DPTH:** 15.0FT.	**DPTH TO ∇** 9.50 FT.
LOGGED BY: M. C. Dibiin	**WELL DEVELOPMENT DATE:** 9/16/87		**SITE:** #8

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN
		SS1	1.4/2'		Sand-fine to medium, light tan, shell fragments, dry		SP	7,13,20,29
5		SS2	1.1/2'		Sand-same as above, interbedded with dark brown shells			13,14,16,7
	YES	SS3	1.8/2'		Sand-same as above, some dark brown Sand-top (0.5')/ fine, tan, shells, middle (0.5-0.55')/ blue shells bottom/ fine to medium, graded to light grey, shells			10,10,12,8
10		SS4	1.4/2'		Sand-fine to medium, grey, shells and fragments, grading to fine sand			17,17,15,7
15		SS5	2.0/2'		Sand-same as abov, many shells and fragments			17,21,21,37
20								
25								
30								

WELL DATA

 ABB ENVIRONMENTAL SERVICES, INC.

TITLE: Mayport Naval Station, Mayport, Fl.	**LOG of WELL:** MPT8D-P1	**BORING NO.** MPT8D-P1
CLIENT: SOUTHERN DIVISION, NAVFACENGCOM		**PROJECT NO:** 7533-81
CONTRACTOR: GROUNDWATER PROTECTION, INC.	**DATE STARTED:** 1/23/92	**COMPLTD:** 1/23/92
METHOD: H.S.A.	**CASE SIZE:** 2" / **SCREEN INT.:** 10-15'	**PROTECTION LEVEL:** D
TOC ELEV.: 12.88 FT.	**MONITOR INST.:** FID / **TOT DPTH:** 15FT.	**DPTH TO ∇** 9.00 FT.
LOGGED BY: Randy Holloway	**WELL DEVELOPMENT DATE:** N/A	**SITE:** #8D

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
					SAND-fine, gray, w/ a few shell fragaments		SP		
5			2/2	7.5	SAND-as above			11,12,11,14	
10			1/2	8.5	SAND-as above, saturated			8,7,7,3	
15					Boring terminated @ 15'				
20									
25									
30									

 ABB ENVIRONMENTAL SERVICES, INC.

TITLE: Mayport Naval Station, Mayport, Fl.	**LOG of WELL:** MPT-9-1	**BORING NO.** MPT-9-1
CLIENT: SOUTHERN DIVISION, NAVFACENGCOM		**PROJECT NO:** 5097-04
CONTRACTOR: MONITOR TESTING	**DATE STARTED:** 9/15/87	**COMPLTD:** 9/15/87
METHOD: H.S.A.	**CASE SIZE:** 2" / **SCREEN INT.:** 8-18'	**PROTECTION LEVEL:** D
TOC ELEV.: 14.39 FT.	**MONITOR INST.:** Hnu / **TOT DPTH:** 20.0FT.	**DPTH TO ∇** 11.00 FT.
LOGGED BY: M. C. Diblin	**WELL DEVELOPMENT DATE:** 9/15/87	**SITE:** #9

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN
		SS1	1.55/2'		Sand-top (0.8')/ medium to coarse, light to dark grey, shell fragments bottom/ fine to medium, light tan, shell fragments		SP	7,11,21,27
		SS2	1.2/2'		Sand-same as above			
5		SS3	1.7/2'		Sand-same as above, bottom dark brown, dry			20,22,29,31
	YES	SS4	1.3/2'		Sand-top (0.8')/ same as above			7,13,14,19
					Clay-uniform, plastic, grey mottled with brown		CL	
		SS5	1.8/2'		stringers of clay, dry middle (1-1.4')/ fine to medium, white, shell fragments		SC	16,21,27,17
					Sandy Clay-grey, plastic, moist			
10								
15		SS6	2.0/2'		Sand-fine to medium sand, light gray, shells		SP	8,32,50/ST
20								
25								
30								

WELL DATA

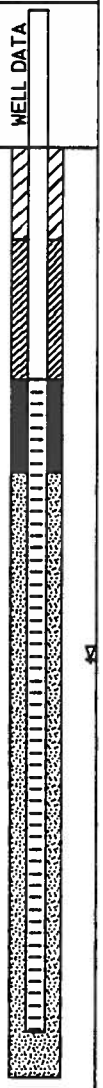


 ABB ENVIRONMENTAL SERVICES, INC.

TITLE: Mayport Naval Station, Mayport, Fl.	**LOG of WELL:** MPT-9-2	**BORING NO.** MPT-9-2
CLIENT: SOUTHERN DIVISION, NAVFACENGCOM		**PROJECT NO:** 5097-04
CONTRACTOR: MONITOR TESTING	**DATE STARTED:** 9/18/87	**COMPLTD:** 9/18/87
METHOD: H.S.A.	**CASE SIZE:** 2"	**SCREEN INT.:** 5-15'	**PROTECTION LEVEL:** D
TOC ELEV.: 13.38 FT.	**MONITOR INST.:** Hnu	**TOT DPTH:** 15.0FT.	**DPTH TO ∇** 9.00 FT.
LOGGED BY: M. C. Diblin	**WELL DEVELOPMENT DATE:** 9/18/87	**SITE:** #9

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN
		SS1	1.3/2'				SP	12,12,15,13
5		SS2	1.5/2'		Sand-same as above			17,9,8,8
	YES	SS3	1.3/2'		Sand-top (0.5')/ fine, tan, shells, middle (0.5-0.55')/ blue shells bottom/ fine to medium, graded to light grey, shells			7,9,12,3
10		SS4	1.5/2'		Sand-fine to medium, light grey, shells and fragments, saturated			4,8,12,13
15		SS5	0.4/2'		Sand-same as above			2,12,50/
20								
25								
30								

WELL DATA

ABB ENVIRONMENTAL SERVICES, INC.

TITLE: Mayport Naval Station, Mayport, Fl.		**LOG of WELL:** MPT-9-3	**BORING NO.** MPT-9-3
CLIENT: SOUTHERN DIVISION, NAVFACENGCOM			**PROJECT NO:** 5097-04
CONTRACTOR: MONITOR TESTING		**DATE STARTED:** 9/18/87	**COMPLTD:** 9/18/87
METHOD: H.S.A.	**CASE SIZE:** 2"	**SCREEN INT.:** 5-15'	**PROTECTION LEVEL:** D
TOC ELEV.: 11.49 FT.	**MONITOR INST.:** Hnu	**TOT DPTH:** 15.0FT.	**DPTH TO ∇** 9.00 FT.
LOGGED BY: M. C. Diblin	**WELL DEVELOPMENT DATE:** 9/18/87		**SITE:** #9

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN
		SS1	1.5/2'		Sand-fine to medium, uniform, with 0.4' top organic soil and vegitation, bottom/ light tan, shell fragments		SP	4,13,27,29
		SS2	1.8/2'		Sand-same as above, 0.1' thick clayey sand layer, dry			18,20,20,19
5		SS3	1.5/2'		Sand-same as above, 0.35' thick layer of interbedded brown clay, red sand with shells			22,13,11,12
	YES	SS4	1.55/2'					12,8,8,7
			1.8/2'		Sand-fine to medium, tan, 50 % shelly, grading very fine, light tan sand at the bottom			
10		SS5						7,22,22,35
15		SS6	2.0/2'		Sand-fine to medium, grey, many shells and fragments			7,11,22,30
20								
25								
30								

WELL DATA

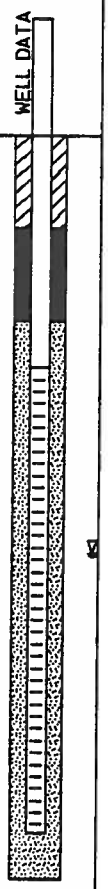


ABB ENVIRONMENTAL SERVICES, INC.

TITLE: Mayport Naval Station, Mayport, Fl.	**LOG of WELL:** MPT9-P1		**BORING NO.** MPT9-P1
CLIENT: SOUTHERN DIVISION, NAVFACENGCOM			**PROJECT NO:** 7533-81
CONTRACTOR: GROUNDWATER PROTECTION, INC.		**DATE STARTED:** 1/23/92	**COMPLTD:** 1/23/92
METHOD: H.S.A.	**CASE SIZE:** 2"	**SCREEN INT.:** 12-17'	**PROTECTION LEVEL:** D
TOC ELEV.: 12.22 FT.	**MONITOR INST.:** FID	**TOT DPTH:** 17.0FT.	**DPTH TO ∇** 12 FT.
LOGGED BY: Larry Smith	**WELL DEVELOPMENT DATE:** N/A		**SITE:** #9

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
					SAND-fine, dk. brown, w/ a few shell fragaments		SP		
5			2/2	80	SAND-fine, gray			7,7,7,10	
			2/2	N/A	SAND-as above			11,10,11,12	
10			2/2	N/A	Sand-as above			11,14,11,12	
15			2/2	0.2	SAND-as above, wet			3,4,6,11	
20					Boring terminated @ 17'				
25									
30									

 ABB ENVIRONMENTAL SERVICES, INC.

TITLE: Mayport Naval Station, Mayport, Fl.	**LOG of WELL:** MPT10-P1		**BORING NO.** MPT10-P1
CLIENT: SOUTHERN DIVISION, NAVFACENGCOM			**PROJECT NO:** 7533-81
CONTRACTOR: GROUNDWATER PROTECTION, INC.		**DATE STARTED:** 1/28/92	**COMPLTD:** 1/28/92
METHOD: H.S.A.	**CASE SIZE:** 2"	**SCREEN INT.:** 10-15'	**PROTECTION LEVEL:** D
TOC ELEV.: 10.88 FT.	**MONITOR INST.:** FID	**TOT DPTH:** 15FT.	**DPTH TO ∇** 8.0 FT.
LOGGED BY: Randy Holloway	**WELL DEVELOPMENT DATE:** N/A		**SITE:** #10

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
					SAND-fine, tan, shell fragments		SP		
5			1.8/2	0.2	SAND-as above			7,6,7,9	
10			2/2	0.8	SAND-as above, saturated			4,3,4,4	
15					Boring terminated @ 15'				
20									
25									
30									

 ABB ENVIRONMENTAL SERVICES, INC.

TITLE: Mayport Naval Station, Mayport, Fl.	**LOG of WELL:** MPT11-MW-3	**BORING NO.** MPT11-MW-3
CLIENT: SOUTHERN DIVISION, NAVFACENGCOM		**PROJECT NO:** 7533-81
CONTRACTOR: GROUNDWATER PROTECTION, INC.	**DATE STARTED:** 1/24/92	**COMPLTD:** 1/24/92
METHOD: H.S.A.	**CASE SIZE:** 2" / **SCREEN INT.:** 7-17'	**PROTECTION LEVEL:** D
TOC ELEV.: 9.97 FT.	**MONITOR INST.:** N/A / **TOT DPTH:** 17FT.	**DPTH TO ∇** 9.0 FT.
LOGGED BY: Larry Smith	**WELL DEVELOPMENT DATE:** N/A	**SITE:** #14

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
					SAND-fine to medium, lt. gray, w/ shell fragments		SP		
5									
10					SAND-fine to medium, lt. green, saturated				
15									
					Boring terminated @ 17'				
20									
25									
30									

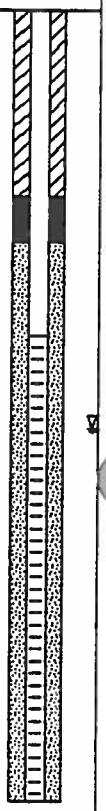


ABB ENVIRONMENTAL SERVICES, INC.

TITLE: Mayport Naval Station, Mayport, Fl.		**LOG of WELL:** MPT-13-3	**BORING NO.** MPT-13-3
CLIENT: SOUTHERN DIVISION, NAVFACENGCOM			**PROJECT NO:** 5097-04
CONTRACTOR: MONITOR TESTING		**DATE STARTED:** 9/18/87	**COMPLTD:** 9/18/87
METHOD: H.S.A.	**CASE SIZE:** 2"	**SCREEN INT.:** 3-10'	**PROTECTION LEVEL:** D
TOC ELEV.: 10.45 FT.	**MONITOR INST.:** Hnu	**TOT DPTH:** 10.0FT.	**DPTH TO ∇** 3.0 FT.
LOGGED BY: M. C. Diblin	**WELL DEVELOPMENT DATE:** 9/18/87		**SITE:** #13

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN
		SS1	1.4/2'		Sand- top (0.25')/ dark brown, top soil, middle (2.5-0.9')/ fine to medium, light tan, shells, Fe Oxide layer at 0.9'		SP	40,40,50,30+
5		SS3	1.4/2'	30.2	Sand-top (0.5')/ fine, dark grey, shells middle (0.5-0.9')/ same as above, light grey bottom/ fine, uniform, no shells, saturated			13,15,26,40
10		SS4	2.0/2'	5.1	Clayey Sand- very fine, grey		SC	1,1,1,2
					Clay- (0.8-1.1') dark brown, decomposed vegitation / (1.1-1.5') firm, uniform, dark olive / (1.5-2.0) medium plastisity, grey		CL	
15								
20								
25								
30								

WELL DATA

 ABB ENVIRONMENTAL SERVICES, INC.

TITLE: Mayport Naval Station, Mayport, Fl.	**LOG of WELL:** MPT13-MW-4	**BORING NO.** MPT13-MW-4
CLIENT: SOUTHERN DIVISION, NAVFACENGCOM		**PROJECT NO:** 7533-81
CONTRACTOR: GROUNDWATER PROTECTION, INC.	**DATE STARTED:** 1/24/92	**COMPLTD:** 1/24/92
METHOD: H.S.A.	**CASE SIZE:** 2" / **SCREEN INT.:** 2-12'	**PROTECTION LEVEL:** D
TOC ELEV.: 9.88 FT.	**MONITOR INST.:** FID / **TOT DPTH:** 12FT.	**DPTH TO ∇** 4.00 FT.
LOGGED BY: Randy Holloway	**WELL DEVELOPMENT DATE:** 1/28/92	**SITE:** #13

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
					SAND-fine, brown, loose, very few shell fragments		SP		
	MPT-13 -4-3-1	☒			Note: Sample and MS & MSD obtained above water table, 2.5-3.5'				
5			1.2/2	0	SAND-fine, tan, w/ shell fragments, saturated			9,10,9,14	
10			2/2	0	SAND-very fine, gray, saturated			11,12,8,6	
					Boring terminated @ 12'				
15									
20									
25									
30									

ABB ENVIRONMENTAL SERVICES, INC.

TITLE: Mayport Naval Station, Mayportf Fl.		**LOG of WELL:** MPT-13-1	**BORING NO.** MPT-13-1
CLIENT: SOUTHERN DIVISION, NAVFACENGCOM			**PROJECT NO:** 5097-04
CONTRACTOR: MONITOR TESTING		**DATE STARTED:** 9/18/87	**COMPLTD:** 9/18/87
METHOD: H.S.A.	**CASE SIZE:** 2"	**SCREEN INT.:** 3-10'	**PROTECTION LEVEL:** D
TOC ELEV.: 13.03 FT.	**MONITOR INST.:** Hnu	**TOT DPTH:** 10.0FT.	**DPTH TO ∇** 3.0 FT.
LOGGED BY: M. C. Diblin	**WELL DEVELOPMENT DATE:** 9/18/87		**SITE:** #13

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN
	YES	SS1	1.4/2'	79.9	Sand-fine to medium, well graded, light tan, shell fragments, dry		SW	33,42,43,50
5		SS3	1.4/2'	132	Sand-top (0.15')/ very fine, brown, shell fragments, bottom (0.15-1.4')/ fine, uniform, light grey, few shells, saturated		SP	7,9,14,9
10		SS4		70.1	Clayey Sand- top (1')/ very fine interbedded, medium plastic, grey middle (1-1.2')/ uniform, medium plastic, grey		SC	1,2,2,2
							CL	
					Sand-very fine, brown, saturated		SP	
15								
20								
25								
30								

WELL DATA

 ABB ENVIRONMENTAL SERVICES, INC.

TITLE: Mayport Naval Station, Mayport, Fl.	**LOG of WELL:** MPT-13-2	**BORING NO.** MPT-13-2
CLIENT: SOUTHERN DIVISION, NAVFACENGCOM		**PROJECT NO:** 5097-04
CONTRACTOR: MONITOR TESTING	**DATE STARTED:** 9/15/87	**COMPLTD:** 9/15/87
METHOD: H.S.A.	**CASE SIZE:** 2" / **SCREEN INT.:** 3-10'	**PROTECTION LEVEL:** D
TOC ELEV.: 12.77 FT.	**MONITOR INST.:** Hnu / **TOT DPTH:** 10.0FT.	**DPTH TO ▽** 3.0 FT.
LOGGED BY: M. C. Diblin	**WELL DEVELOPMENT DATE:** 9/15/87	**SITE:** #13

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN
		SS1		1.4	Sand- top (0.25')/ dark brown, top soil, bottom /fine to medium, shell fragments		SP	
	YES	SS2	1.2/2'		Sand-same as above, middle (0.2-0.5')/ medium, tan, many shell fragments (coquina), bottom/ fine, well sorted, uniform, grey		SW	17,31,50/
							SP	
5		SS3	1.3/2'	1.0	Sand-top (0.2')/ fine to medium, light grey, shell fragments, middle (0.2-0.45')/ dark brown sandy peat, saturated, (0.45-0.9')/fine, light grey, with shell fragments, bottom/ fine, uniform, no shells			9,12,22,27
10		SS4	2.0/2'	1.5	Sand-same as above			4,4,8,8
					Clay- (0.3-1')/ soft, plastic, uniform, grey, (1-1.8')/ stiff, dark brown, with mud dump vegitation, bottom/ stiff, uniform, dark olive		CL	
15								
20								
25								
30								

WELL DATA

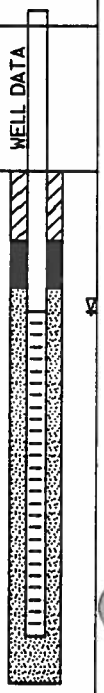


 ABB ENVIRONMENTAL SERVICES, INC.

TITLE: Mayport Naval Station, Mayport, Fl.	**LOG of WELL:** MPT13-MW-5	**BORING NO.** MPT13-MW-5
CLIENT: SOUTHERN DIVISION, NAVFACENGCOM		**PROJECT NO:** 7533-81
CONTRACTOR: GROUNDWATER PROTECTION, INC.	**DATE STARTED:** 1/24/92	**COMPLTD:** 1/24/92
METHOD: H.S.A.	**CASE SIZE:** 2" / **SCREEN INT.:** 3-13'	**PROTECTION LEVEL:** D
TOC ELEV.: 10.04 FT.	**MONITOR INST.:** FID / **TOT DPTH:** 13FT.	**DPTH TO ∇** 5.00 FT.
LOGGED BY: Randy Holloway	**WELL DEVELOPMENT DATE:** 1/28/92	**SITE:** #13

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
					SAND-fine, tan, w/ shell fragments		SP		
	MPT-13 -5-3-1	☒			Note: Sampled approximately 3.5'				
5			2/2	20	SAND-fine, gray, w/ shell fragments, saturated			4,3,2,3	∇
10			2/2	N/A				3,2,3,3	
					CLAY-black, organic, low plasticity		OL		
15					Boring terminated				
20									
25									
30									

ABB ENVIRONMENTAL SERVICES, INC.

TITLE: Mayport Naval Station, Mayport, Fl.		**LOG of WELL:** MPT13-MW-6	**BORING NO.** MPT13-MW-6
CLIENT: SOUTHERN DIVISION, NAVFACENGCOM			**PROJECT NO:** 7533-61
CONTRACTOR: GROUNDWATER PROTECTION, INC.		**DATE STARTED:** 1/24/92	**COMPLTD:** 1/24/92
METHOD: H.S.A.	**CASE SIZE:** 2"	**SCREEN INT.:** 2-12'	**PROTECTION LEVEL:** D
TOC ELEV.: 9.66 FT.	**MONITOR INST.:** FID	**TOT DPTH:** 12FT.	**DPTH TO ∇** N/A FT.
LOGGED BY: Larry Smith	**WELL DEVELOPMENT DATE:** 1/28/92		**SITE:** #13

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
	MPT-13 6-2.5-1	☒			SAND-very fine to fine, tan to gray, w/ shell fragments Note: Sampled by hand with decontaminated stainless steel spoon @ 2.5' Due to location of well on the flight ramp and active flight operation , samples were not obtained. Observation of drill cuttings indicate saturated fine tan to gray sands to 12'.		SP		
					Boring terminated @ 12'				

 ABB ENVIRONMENTAL SERVICES, INC.

TITLE: Mayport Naval Station, Mayport, Fl.		**LOG of WELL:** MPT13-P1	**BORING NO.** MPT13-P1
CLIENT: SOUTHERN DIVISION, NAVFACENGCOM			**PROJECT NO:** 7533-81
CONTRACTOR: GROUNDWATER PROTECTION, INC.		**DATE STARTED:** 1/18/92	**COMPLTD:** 1/18/92
METHOD: H.S.A.	**CASE SIZE:** 2"	**SCREEN INT.:** 5-10'	**PROTECTION LEVEL:** D
TOC ELEV.: 11.03 FT.	**MONITOR INST.:** FID	**TOT DPTH:** 10FT.	**DPTH TO ∇** 5.00 FT.
LOGGED BY: Randy Holloway	**WELL DEVELOPMENT DATE:** N/A		**SITE:** #13

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
					SAND-fine, tan, w/ shell fragaments		SM		
5			1.7/2	4.0	SAND-fine, tan, saturated over 1' of SAND-very fine to silty, gray, w/ shell fragments			4,2,1,-	
10									
					Boring terminated @ 10'				
15									
20									
25									
30									

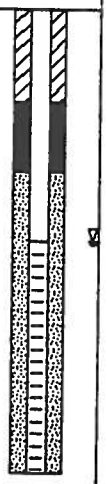


 ABB ENVIRONMENTAL SERVICES, INC.

TITLE: Mayport Naval Station, Mayport, Fl.	**LOG of WELL:** MPT13-P3		**BORING NO.** MPT13-P3
CLIENT: SOUTHERN DIVISION, NAVFACENGCOM			**PROJECT NO:** 7533-61
CONTRACTOR: GROUNDWATER PROTECTION, INC.		**DATE STARTED:** 1/18/92	**COMPLTD:** 1/18/92
METHOD: H.S.A.	**CASE SIZE:** 2"	**SCREEN INT.:** 5-10'	**PROTECTION LEVEL:** D
TOC ELEV.: 10.18 FT.	**MONITOR INST.:** FID	**TOT DPTH:** 10FT.	**DPTH TO ∇** 5.0 FT.
LOGGED BY: Randy Holloway	**WELL DEVELOPMENT DATE:** N/A		**SITE:** #13

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
					SAND-very fine to fine, tan, w/ coarse shell fragaments		SP		
5			2/2	22	SAND-silty, gray, w/ a trace of shell fragments		SM	4,4,2,2	∇
10									
					Boring terminated @ 10'				
15									
20									
25									
30									

 ABB ENVIRONMENTAL SERVICES, INC.

TITLE: Mayport Naval Station, Mayport, Fl.		**LOG of WELL:** MPT13-P4	**BORING NO.** MPT13-P4
CLIENT: SOUTHERN DIVISION, NAVFACENGCOM			**PROJECT NO:** 7533-81
CONTRACTOR: GROUNDWATER PROTECTION, INC.		**DATE STARTED:** 1/18/92	**COMPLTD:** 1/18/92
METHOD: H.S.A.	**CASE SIZE:** 2"	**SCREEN INT.:** 5-10'	**PROTECTION LEVEL:** D
TOC ELEV.: 9.31 FT.	**MONITOR INST.:** FID	**TOT DPTH:** 10FT.	**DPTH TO ∇** 5.0 FT.
LOGGED BY: Randy Holloway	**WELL DEVELOPMENT DATE:** N/A		**SITE:** #13

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
					SAND-fine, black, organic		ML		
					SAND-very fine to fine, tan, w/ abundance of shell fragaments		SP		
5			1.2/2	8.0	SAND-very fine to fine, gray, saturated			6,5,5,6	
10									
					Boring terminated @ 10'				
15									
20									
25									
30									

 ABB ENVIRONMENTAL SERVICES, INC.

TITLE: Mayport Naval Station, Mayport, Fl.	**LOG of WELL:** MPT13-P5	**BORING NO.** MPT13-P5
CLIENT: SOUTHERN DIVISION, NAVFACENGCOM		**PROJECT NO:** 7533-81
CONTRACTOR: GROUNDWATER PROTECTION, INC.	**DATE STARTED:** 1/18/92	**COMPLTD:** 1/18/92
METHOD: H.S.A.	**CASE SIZE:** 2"	**SCREEN INT.:** 5-10'	**PROTECTION LEVEL:** D
TOC ELEV.: 8.45 FT.	**MONITOR INST.:** PID	**TOT DPTH:** 10FT.	**DPTH TO ∇** 4.0 FT.
LOGGED BY: Randy Holloway	**WELL DEVELOPMENT DATE:** N/A	**SITE:** #13

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
					SAND-fine, tan, w/ shell fragaments		SP		
5			1.0/2	0.3	SAND-very fine to silty, gray, w/ shell fragments, saturated		SM	10,2,1,2	
10					Boring terminated @ 10'				
15									
20									
25									
30									

 ABB ENVIRONMENTAL SERVICES, INC.

TITLE: Mayport Naval Station, Mayport, Fl.		**LOG of WELL:** MPT13-P6	**BORING NO.** MPT13-P6
CLIENT: SOUTHERN DIVISION, NAVFACENGCOM			**PROJECT NO:** 7533-61
CONTRACTOR: GROUNDWATER PROTECTION, INC.		**DATE STARTED:** 1/18/92	**COMPLTD:** 1/18/92
METHOD: H.S.A.	**CASE SIZE:** 2"	**SCREEN INT.:** 5-10'	**PROTECTION LEVEL:** D
TOC ELEV.: 10.16 FT.	**MONITOR INST.:** FID	**TOT DPTH:** 10FT.	**DPTH TO ∇** 3.50 FT.
LOGGED BY: Randy Holloway	**WELL DEVELOPMENT DATE:** N/A		**SITE:** #13

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
					SAND-fine, gray, abundant shell fragments		SP		
5			1.3/2	0	SAND-fine, gray, abundant shell fragments, saturated			9,15,16,16	
10					boring terminated @10'				
15									
20									
25									
30									

 ABB ENVIRONMENTAL SERVICES, INC.

TITLE: Mayport Naval Station, Mayport, Fl.	**LOG of WELL:** MPT-14-1		**BORING NO.** MPT-14-1
CLIENT: SOUTHERN DIVISION, NAVFACENGCOM			**PROJECT NO:** 5087-04
CONTRACTOR: MONITOR TESTING		**DATE STARTED:** 9/17/87	**COMPLTD:** 9/17/87
METHOD: H.S.A.	**CASE SIZE:** 2"	**SCREEN INT.:** 3-12'	**PROTECTION LEVEL:** D
TOC ELEV.: 7.41 FT.	**MONITOR INST.:** Hnu	**TOT DPTH:** 13.0FT.	**DPTH TO ∇** 3.0 FT.
LOGGED BY: M. C. Diblin	**WELL DEVELOPMENT DATE:** 9/17/87		**SITE:** #14

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN
	YES	SS1	1.4/2'		Sand-fine to medium, light tan, with few shell fragments, visible layering, dry		SP	7,14,20,28
5		SS3	1.4/2'	180	Sand-same as above, saturated			9,18,31,50
10		SS4	2.0/2'	141	Sand-fine to medium, uniform sand with shell fragments, saturated			7,23,50/5in
15								
20								
25								
30								

WELL DATA

 ABB ENVIRONMENTAL SERVICES, INC.

TITLE: Mayport Naval Station, Mayport, Fl.	**LOG of WELL:** MPT-14-2	**BORING NO.** MPT-14-2
CLIENT: SOUTHERN DIVISION, NAVFACENGCOM		**PROJECT NO:** 5097-04
CONTRACTOR: MONITOR TESTING	**DATE STARTED:** 9/17/87	**COMPLTD:** 9/17/87
METHOD: H.S.A.	**CASE SIZE:** 2" / **SCREEN INT.:** 3-13'	**PROTECTION LEVEL:** D
TOC ELEV.: 8.47 FT.	**MONITOR INST.:** Hnu / **TOT DPTH:** 12.0FT.	**DPTH TO ∇** 3.0 FT.
LOGGED BY: M. C. Diblin	**WELL DEVELOPMENT DATE:** 9/17/87	**SITE:** #14

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN
		SS1	1.8/2'	80.2	Sand-fine, uniform with layering, light tan bottom/ dark tan, some shell fragments, visible bedding		SP	7,12,20,30
	YES	SS2	1.5/2'	49.7	Sand-fine, uniform, light tan, dry, bottom/ some shell fragments			7,20,25,27
5		SS3	1.5/2'	59.8	Sand-fine, uniform, light grey, middle/ shelly, gravelly sand, saturated, bottom/ fine to medium, light grey, saturated			5,18,28,50
10		SS4	1.8/2'	4.8	Sand-fine to medium, light gray, saturated, shell fragments			11,31,50/3cm
15								
20								
25								
30								

WELL DATA

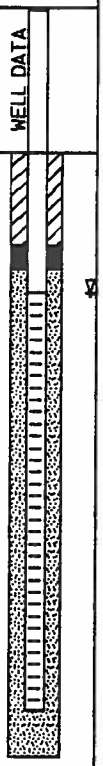


 ABB ENVIRONMENTAL SERVICES, INC.

TITLE: Mayport Naval Station, Mayport, Fl.		**LOG of WELL:** MPT14-P1	**BORING NO.** MPT14-P1
CLIENT: SOUTHERN DIVISION, NAVFACENGCOM			**PROJECT NO:** 7533-81
CONTRACTOR: GROUNDWATER PROTECTION, INC.		**DATE STARTED:** 1/18/92	**COMPLTD:** 1/18/92
METHOD: H.S.A.	**CASE SIZE:** 2"	**SCREEN INT.:** 5-10'	**PROTECTION LEVEL:** D
TOC ELEV.: 8.50 FT.	**MONITOR INST.:** FID	**TOT DPTH:** 10FT.	**DPTH TO ∇** 5.00 FT.
LOGGED BY: Pat Craine	**WELL DEVELOPMENT DATE:** N/A		**SITE:** #13

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
					SAND-fine to coarse, brown to tan, loose		SP		
5			2/2	2	CLAY-olive green, high water content, first 6" over SAND-very fine to fine, gray		CL SP	12,9,8,10	∇
10					Boring terminated @ 10'				
15									
20									
25									
30									

 ABB ENVIRONMENTAL SERVICES, INC.

TITLE: Mayport Naval Station, Mayport, Fl.		**LOG of WELL:** MPT14-P2	**BORING NO.** MPT14-P2
CLIENT: SOUTHERN DIVISION, NAVFACENGCOM			**PROJECT NO:** 7533-81
CONTRACTOR: GROUNDWATER PROTECTION, INC.		**DATE STARTED:** 1/18/92	**COMPLTD:** 1/18/92
METHOD: H.S.A.	**CASE SIZE:** 2"	**SCREEN INT.:** 8-11'	**PROTECTION LEVEL:** D
TOC ELEV.: 5.71 FT.	**MONITOR INST.:** FID	**TOT DPTH:** 11FT.	**DPTH TO ∇** 4.00 FT.
LOGGED BY: Pat Craine	**WELL DEVELOPMENT DATE:** N/A		**SITE:** #13

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
					SAND-very fine to silty, tan, w/ large pieces of glass		SM		
5			2/2	N/A	SAND-very fine to silty, tan, some shell fragments, saturated			7,7,8,20	∇
					SAND-very fine to silty, tan, w/ trace CLAY, olive green		SC		
10									
					Boring terminated @ 11'				
15									
20									
25									
30									

 ABB ENVIRONMENTAL SERVICES, INC.

TITLE: Mayport Naval Station, Mayport, Fl.	**LOG of WELL:** MPT15-P1	**BORING NO.** MPT15-P1
CLIENT: SOUTHERN DIVISION, NAVFACENGCOM		**PROJECT NO:** 7533-61
CONTRACTOR: GROUNDWATER PROTECTION, INC.	**DATE STARTED:** 1/28/92	**COMPLTD:** 1/28/92
METHOD: H.S.A.	**CASE SIZE:** 2" / **SCREEN INT.:** 10-15'	**PROTECTION LEVEL:** D
TOC ELEV.: 13.28 FT.	**MONITOR INST.:** FID / **TOT DPTH:** 15FT.	**DPTH TO ∇** 9.5 FT.
LOGGED BY: Randy Holloway	**WELL DEVELOPMENT DATE:** N/A	**SITE:** #15

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
							SP		
5			1.5/2	1.2	SAND-fine, tan, loose w/ shell fragments			4,12,10,11	
							SM		
10			2/2	0.8	SAND-fine to silty, dk. gray, a few shell fragments, saturated			3,4,8,8	∇
15					Boring terminated @ 15'				
20									
25									
30									

 ABB ENVIRONMENTAL SERVICES, INC.

TITLE: Mayport Naval Station, Mayport, Fl.	**LOG of WELL:** MPT17-P1		**BORING NO.** MPT17-P1
CLIENT: SOUTHERN DIVISION, NAVFACENGCOM			**PROJECT NO:** 7533-81
CONTRACTOR: GROUNDWATER PROTECTION, INC.		**DATE STARTED:** 1/28/92	**COMPLTD:** 1/28/92
METHOD: H.S.A.	**CASE SIZE:** 2"	**SCREEN INT.:** 5-10'	**PROTECTION LEVEL:** D
TOC ELEV.: 7.97 FT.	**MONITOR INST.:** FID	**TOT DPTH:** 10FT.	**DPTH TO ∇** 4.00 FT.
LOGGED BY: Randy Holloway	**WELL DEVELOPMENT DATE:** N/A		**SITE:** #17

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
					SAND-fine, tan, loose		SP		
5			1.5/2	1.2	Shell fragments w/ approx. 20% SAND-fine, tan, wet		SP	3,5,9,14	
10					Boring terminated @ 10'				
15									
20									
25									
30									

ABB ENVIRONMENTAL SERVICES, INC.

TITLE: Mayport Naval Station, Mayport, Fl.		**LOG of WELL:** MPT17-P2	**BORING NO.** MPT17-P2
CLIENT: SOUTHERN DIVISION, NAVFACENGCOM			**PROJECT NO:** 7533-61
CONTRACTOR: GROUNDWATER PROTECTION, INC.		**DATE STARTED:** 1/28/92	**COMPLTD:** 1/28/92
METHOD: H.S.A.	**CASE SIZE:** 2"	**SCREEN INT.:** 7-12'	**PROTECTION LEVEL:** D
TOC ELEV.: 7.72 FT.	**MONITOR INST.:** FID	**TOT DPTH:** 12FT.	**DPTH TO ∇** 7.00 FT.
LOGGED BY: Randy Holloway	**WELL DEVELOPMENT DATE:** N/A		**SITE:** #17

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
							SP		
					SAND-fine, brown, loose, w/ some shell fragments				
5			1.5/2	0.2				10,8,8,6	
					SAND-fine, brown, w/ shell fragments, saturated				
			1.9/2	0.2				8,7,8,6	
10									
					Boring terminated @ 12'				
15									
20									
25									
30									

 ABB ENVIRONMENTAL SERVICES, INC.

TITLE: Mayport Naval Station, Mayport, Fl.	**LOG of WELL:** MPT22-MW-IS	**BORING NO.** MPT22-MW-IS
CLIENT: SOUTHERN DIVISION, NAVFACENGCOM		**PROJECT NO:** 7533-81
CONTRACTOR: GROUNDWATER PROTECTION, INC.	**DATE STARTED:** 1/24/92	**COMPLTD:** 1/24/92
METHOD: H.S.A.	**CASE SIZE:** 2" / **SCREEN INT.:** 2-12'	**PROTECTION LEVEL:** D
TOC ELEV.: 7.15 FT.	**MONITOR INST.:** FID / **TOT DPTH:** 12FT.	**DPTH TO ∇** 2.5 FT.
LOGGED BY: Larry Smith	**WELL DEVELOPMENT DATE:** 1/28/92	**SITE:** #22

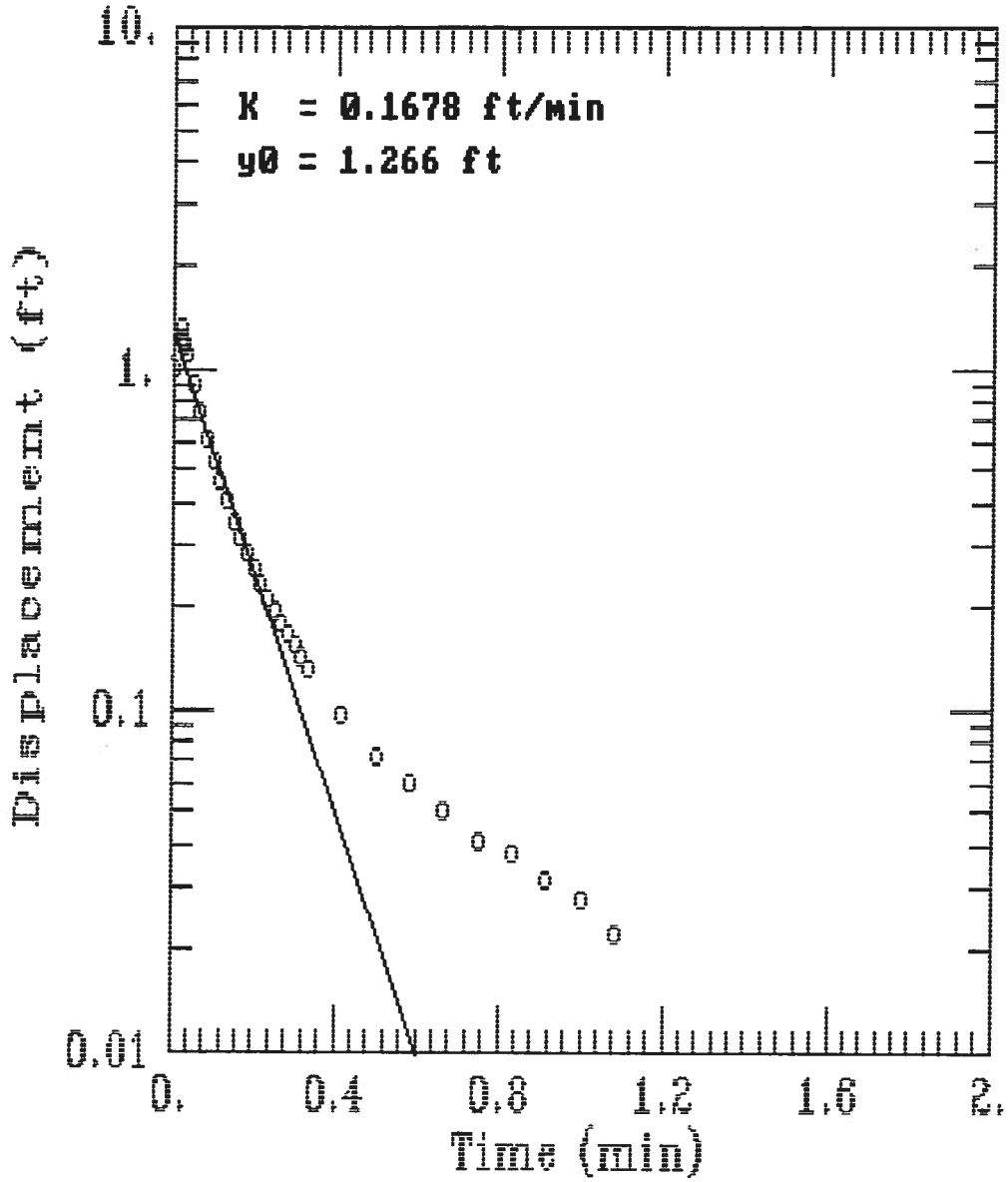
DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
					SAND-fine to medium, lt. gray to tan, numerous shell fragments		SP		
5									
					CLAY-sandy, silty, gray to dk. green, organics, some shell fragments		CL		
10									
					Boring terminated @ 12'				
15									
20									
25									
30									

ABB ENVIRONMENTAL SERVICES, INC.

APPENDIX B

HYDROLOGICAL DATA
(SLUG TEST DATA AND GROUNDWATER ELEVATIONS DATA)

MAYPORT NAVAL STATION MPT-1-P1-S1



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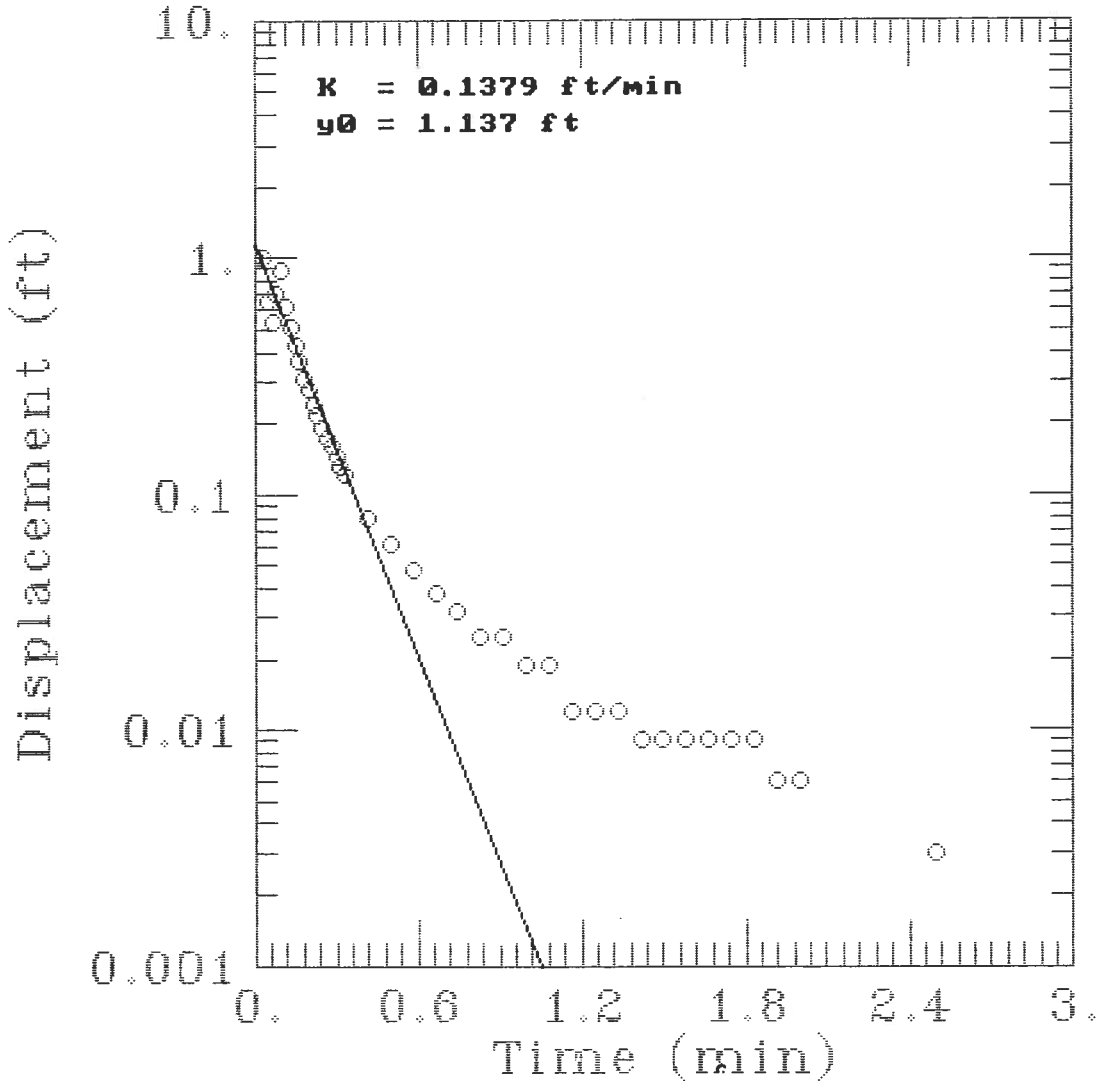
Modeling Group

mayport naval station mpt-1-p1-s2



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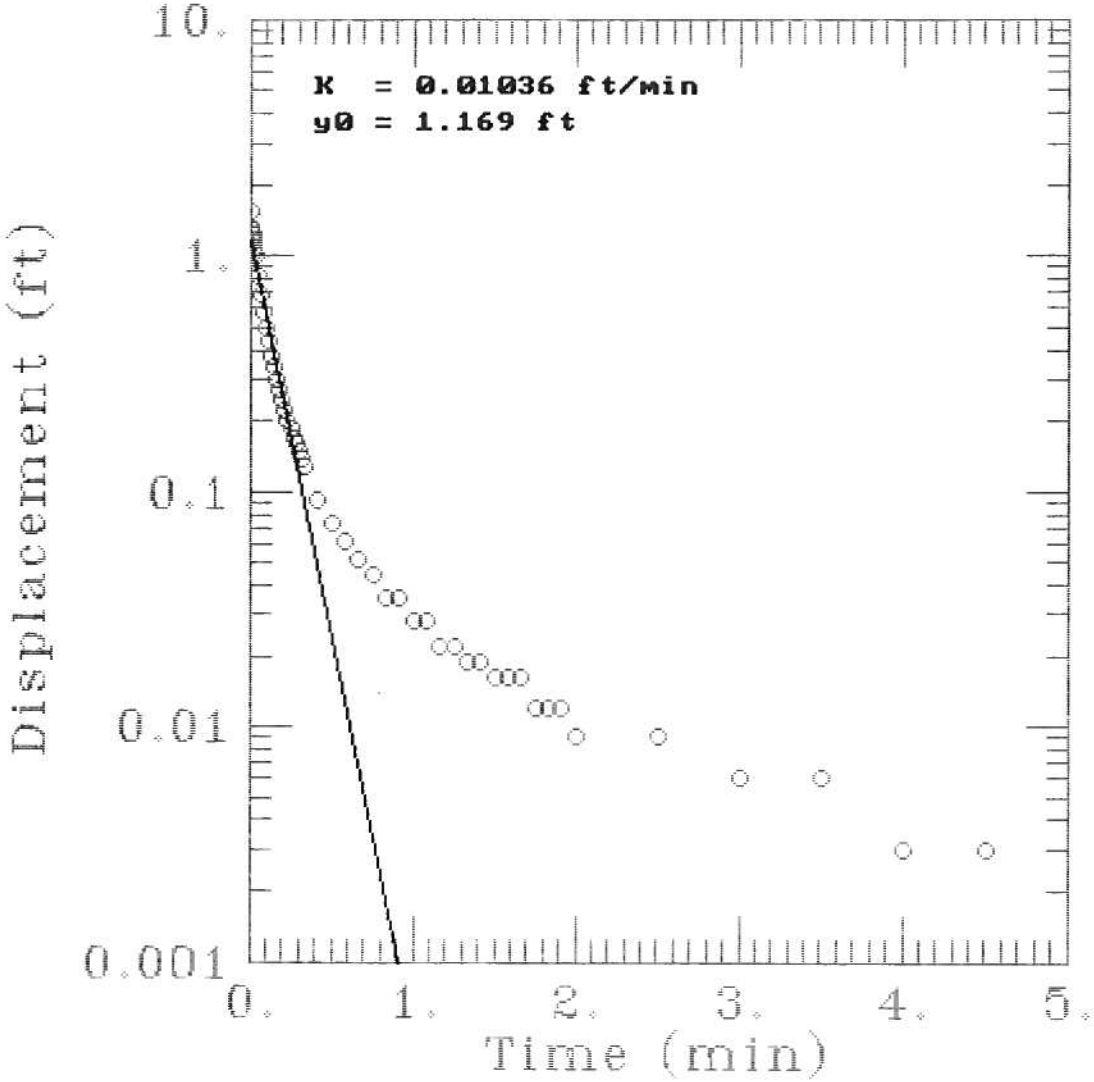
Modeling Group

MAYPORT NAVAL STATION MPT-1-P1-S3



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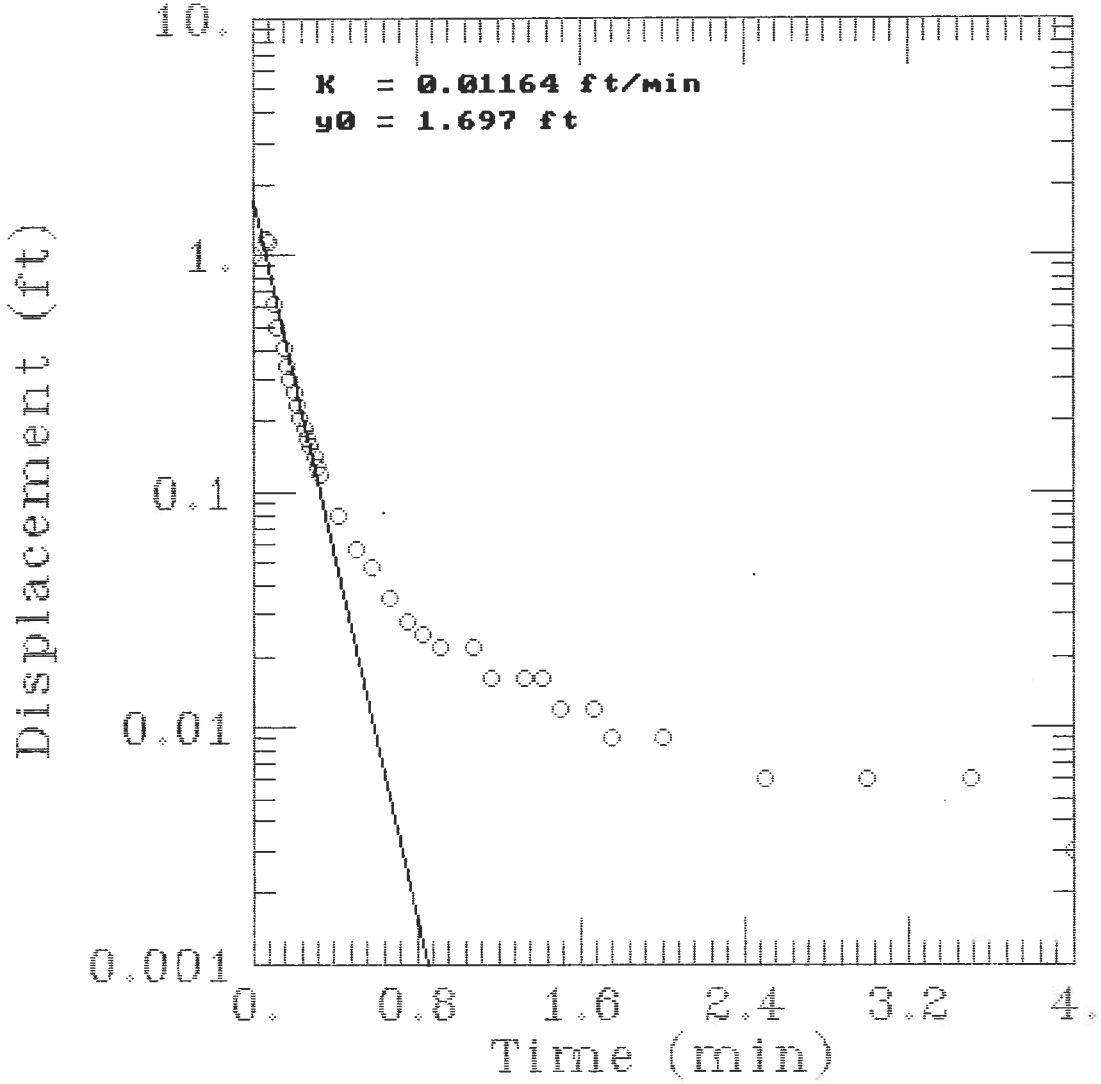
MAYPORT NAVAL STATION MPT-1-P1-S4



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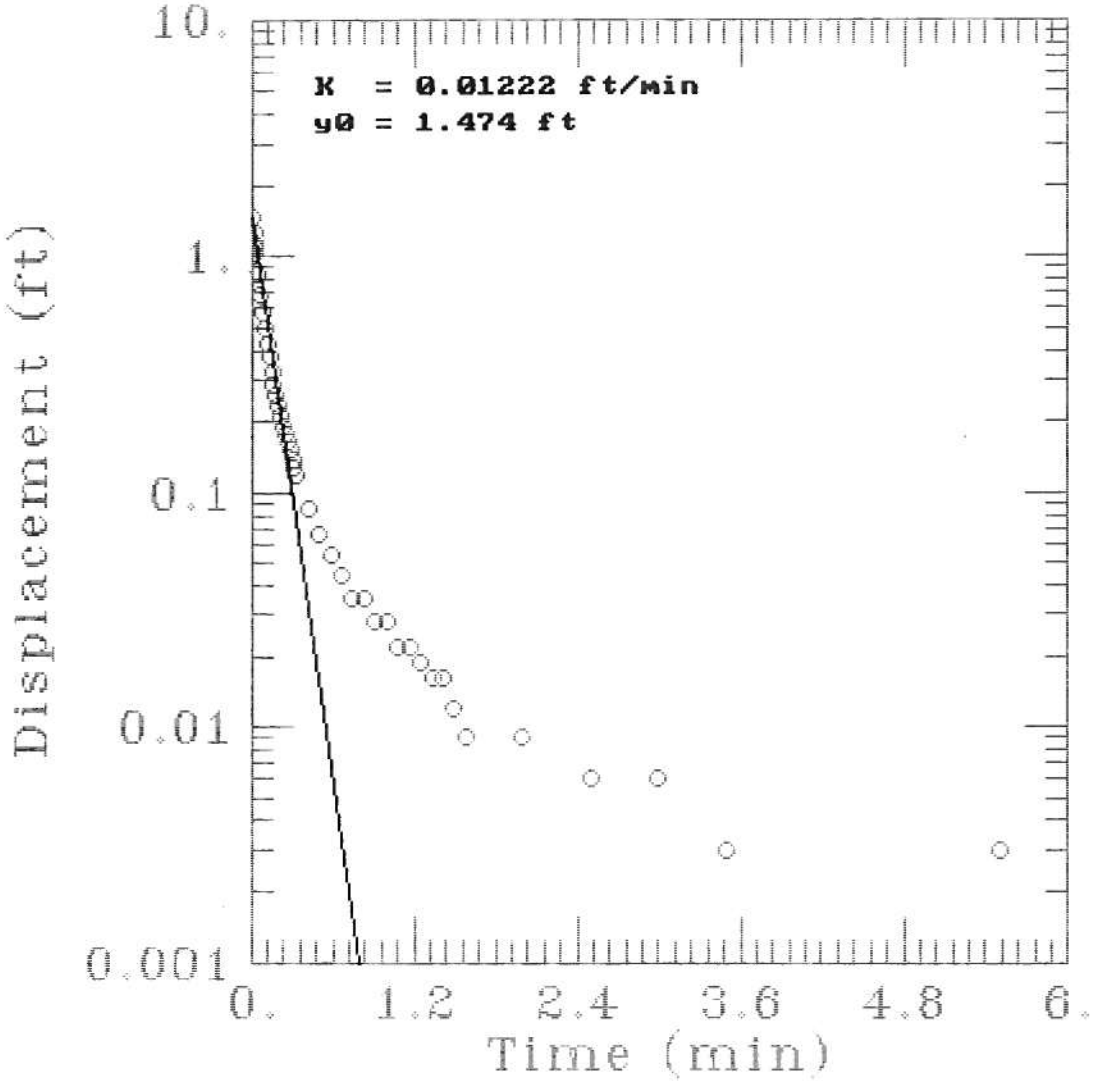

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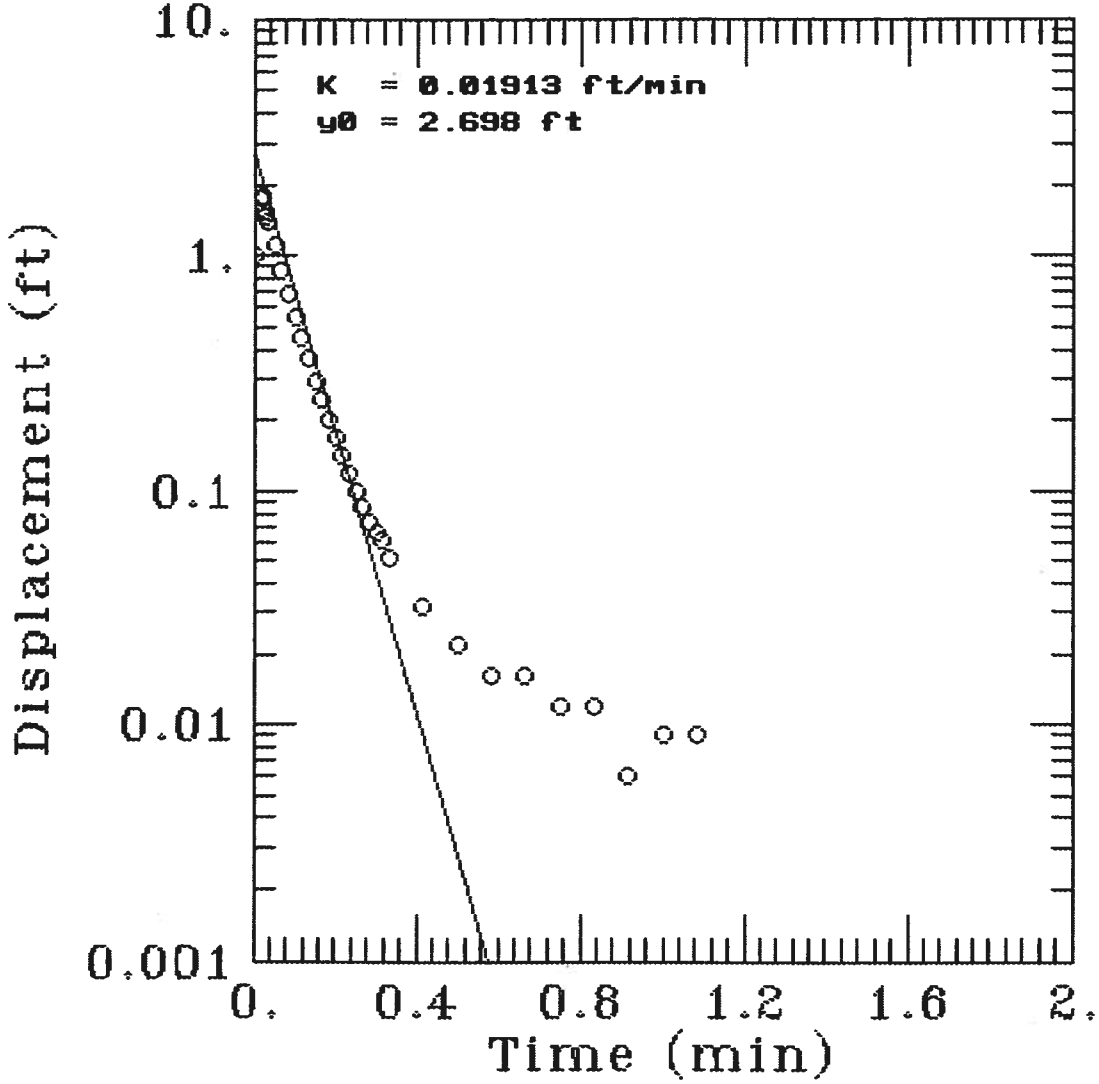
MAYPORT NAVAL STATION MPT-1-P2-S1



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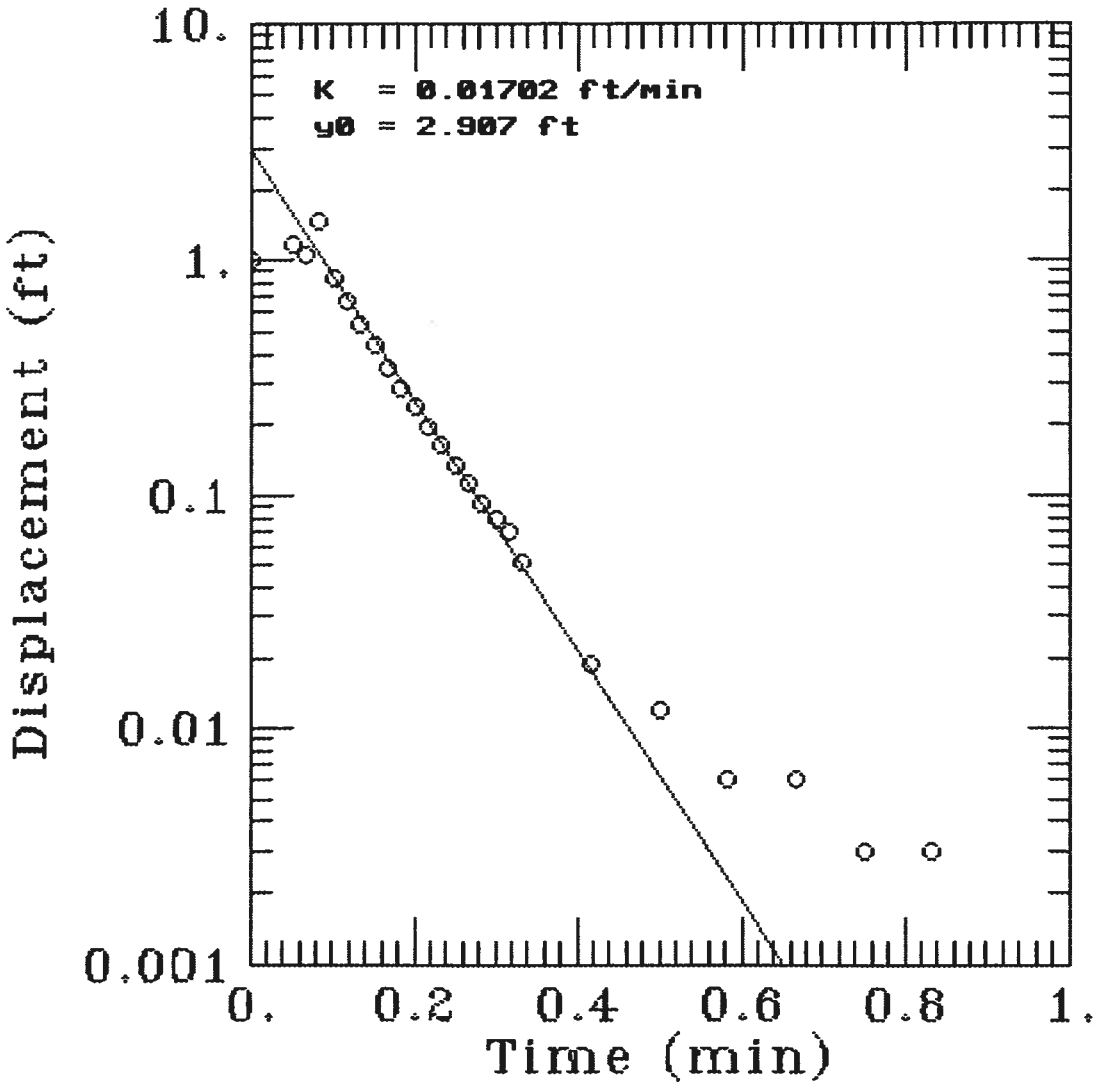

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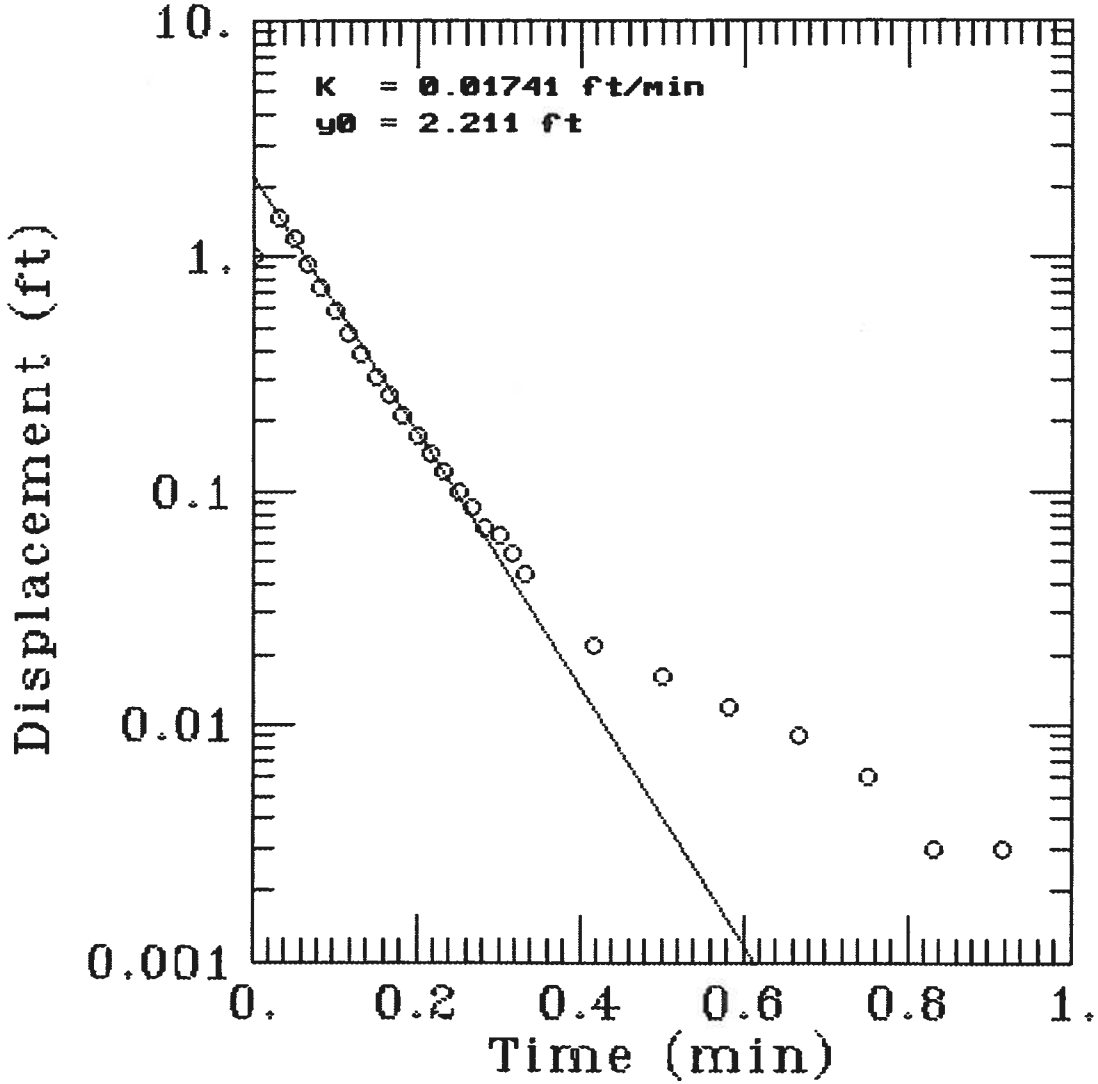

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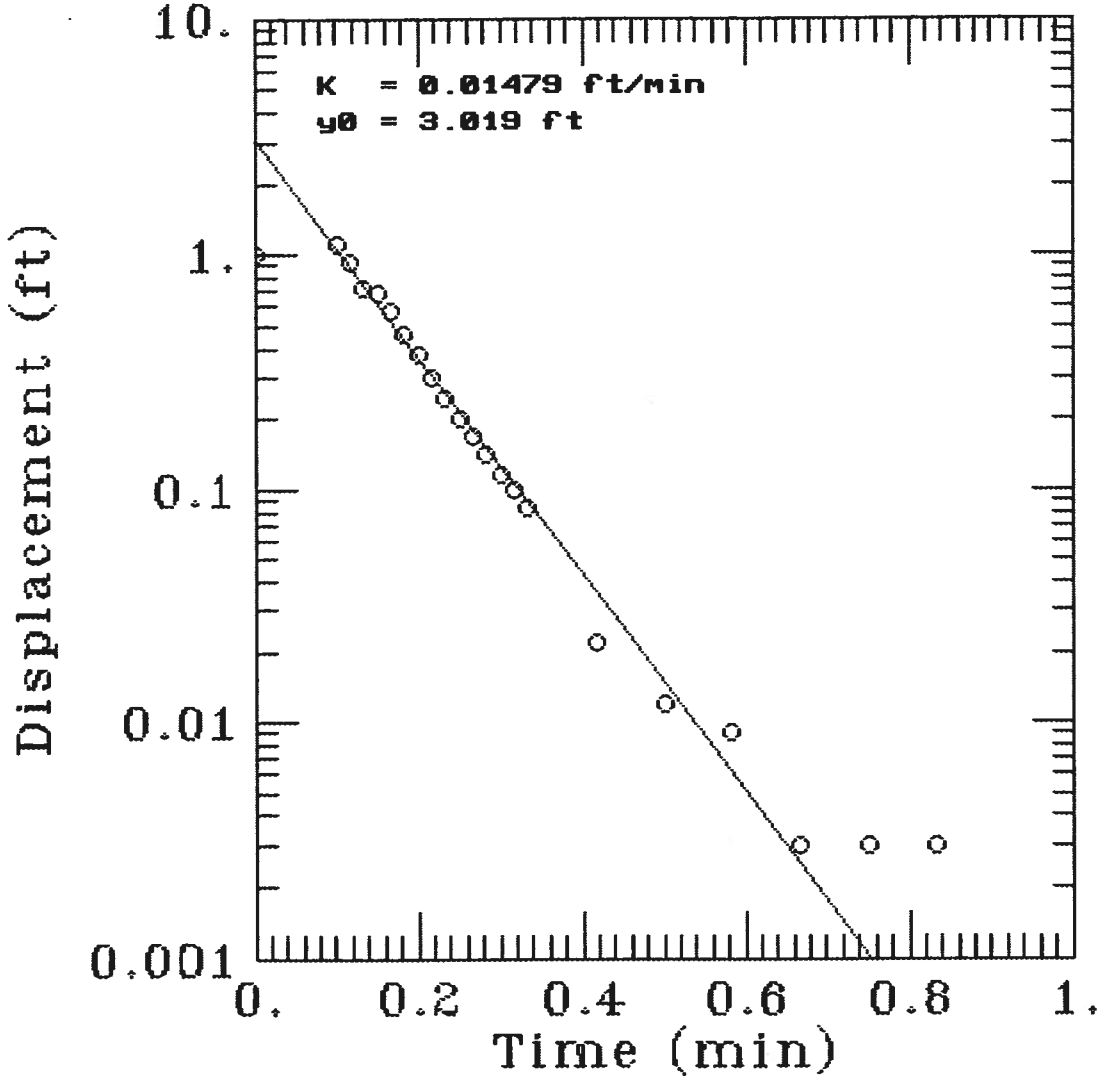

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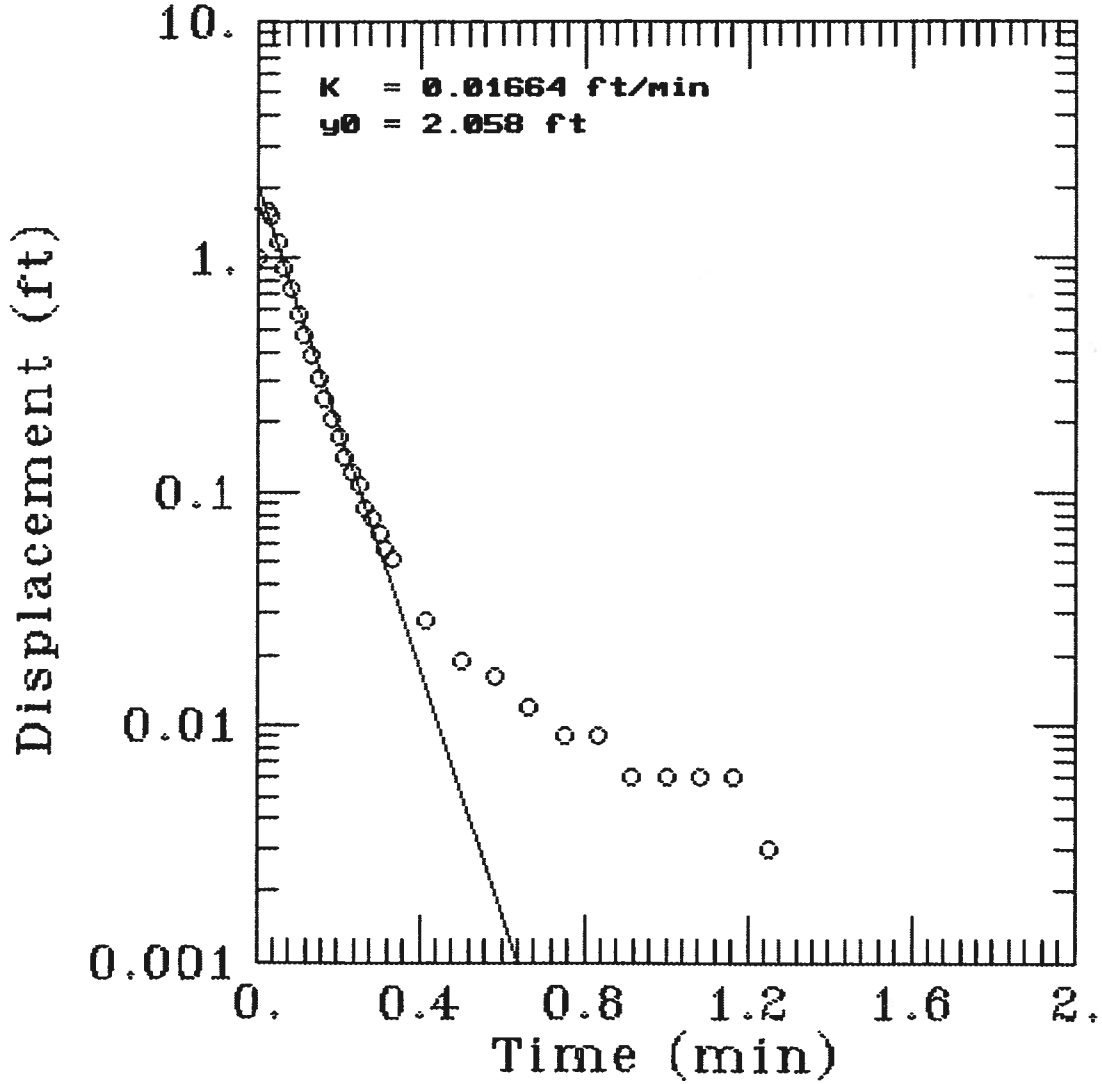

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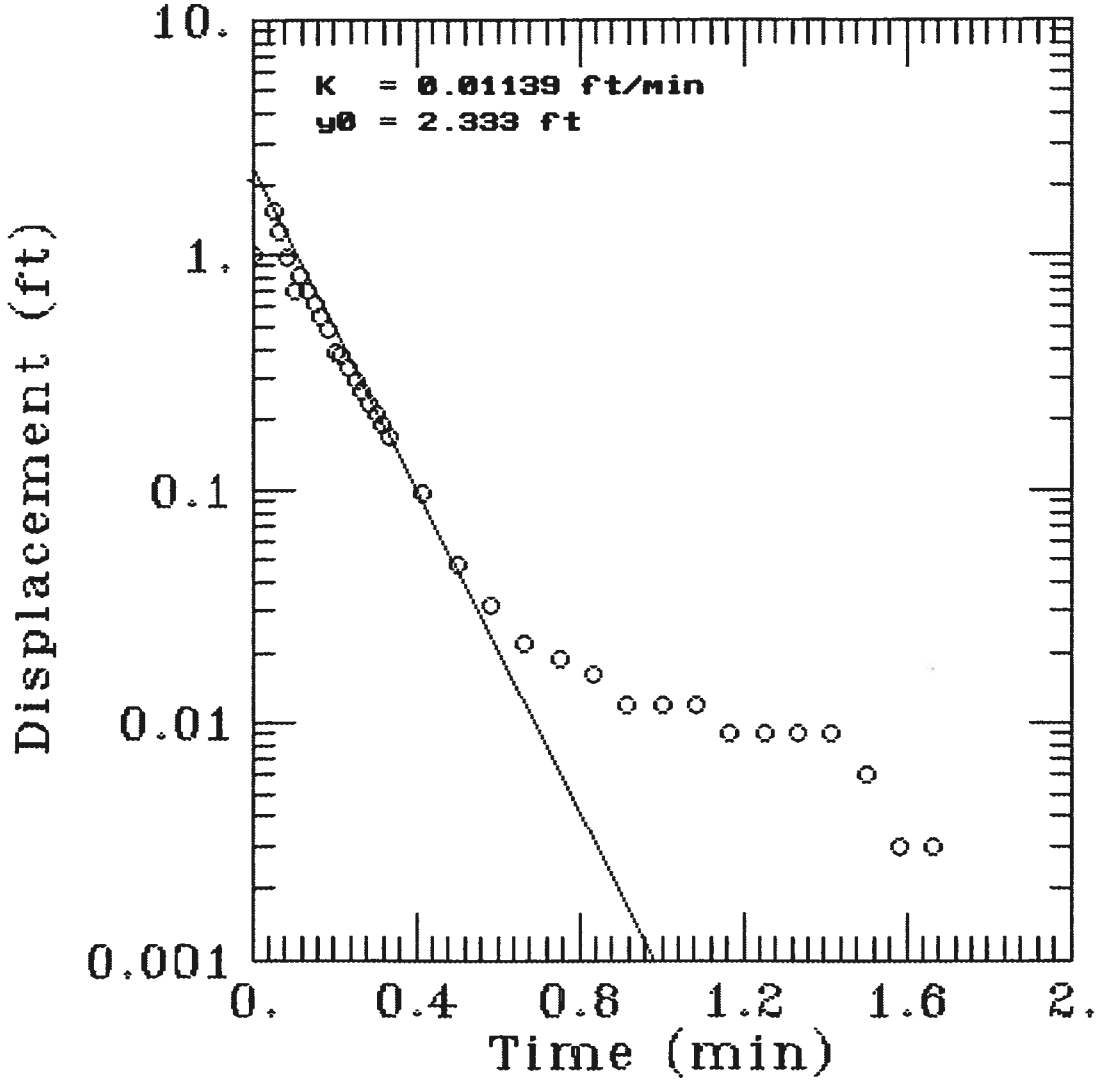

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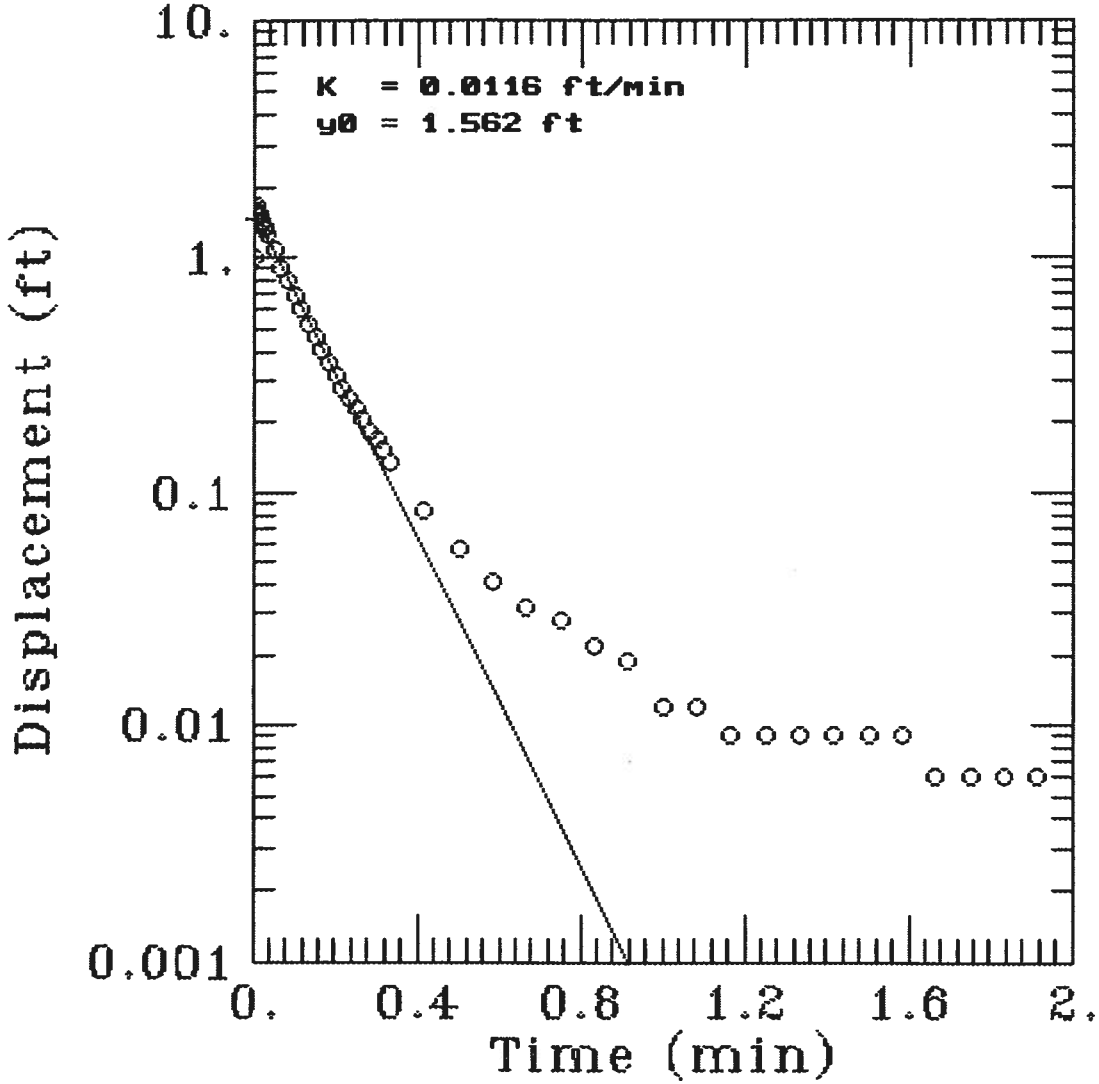

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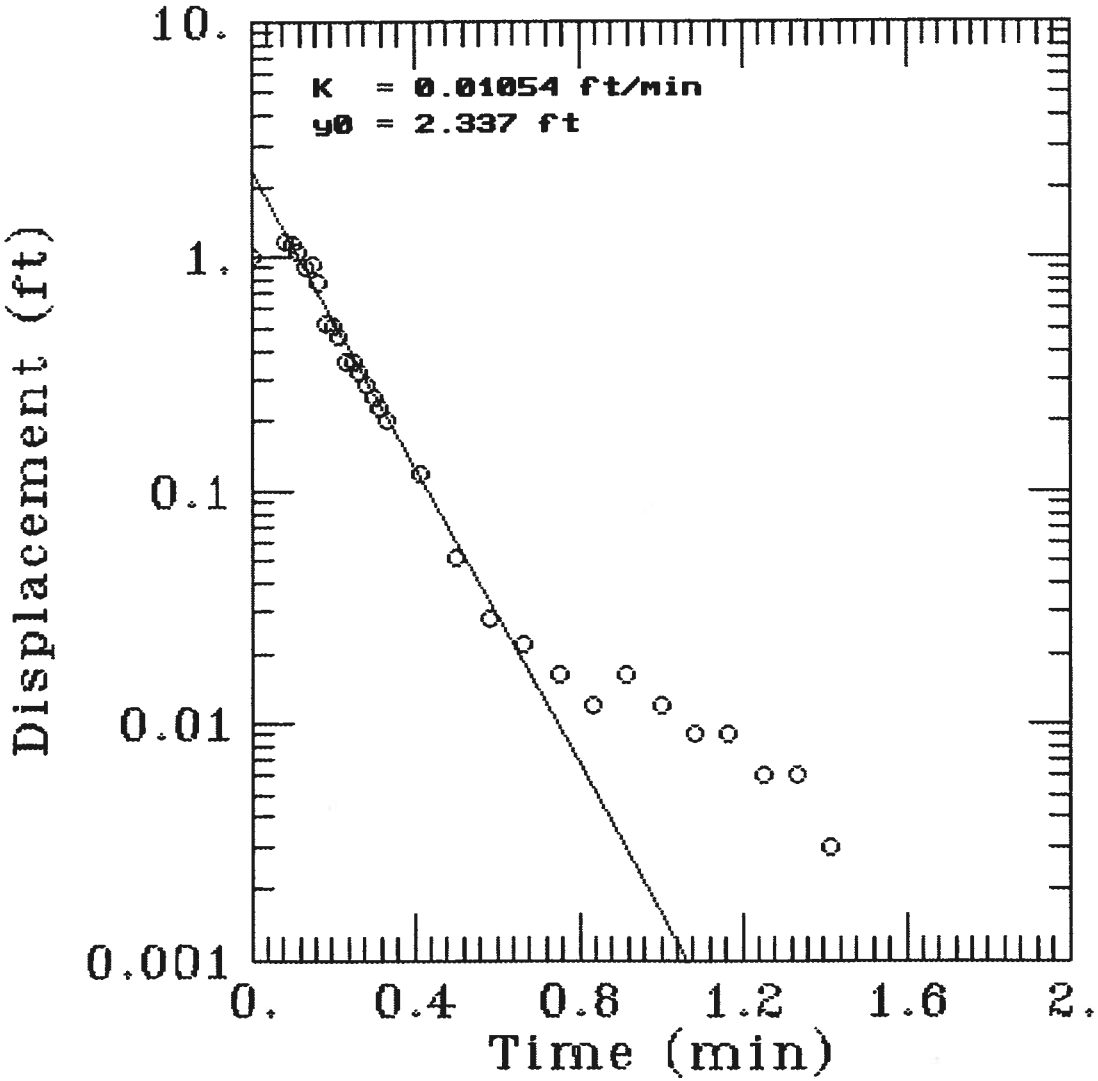

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Modeling Group

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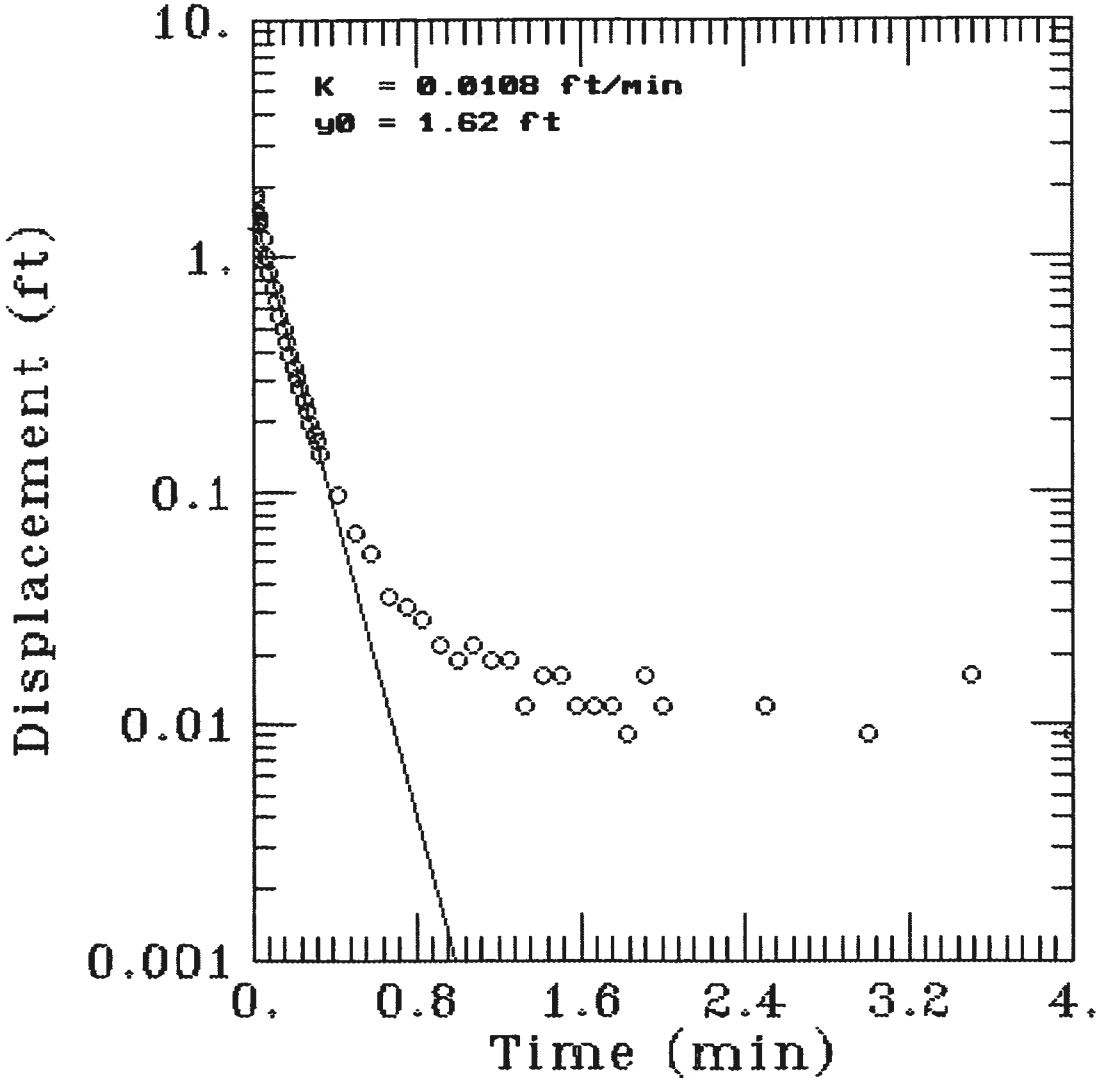

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Modeling Group

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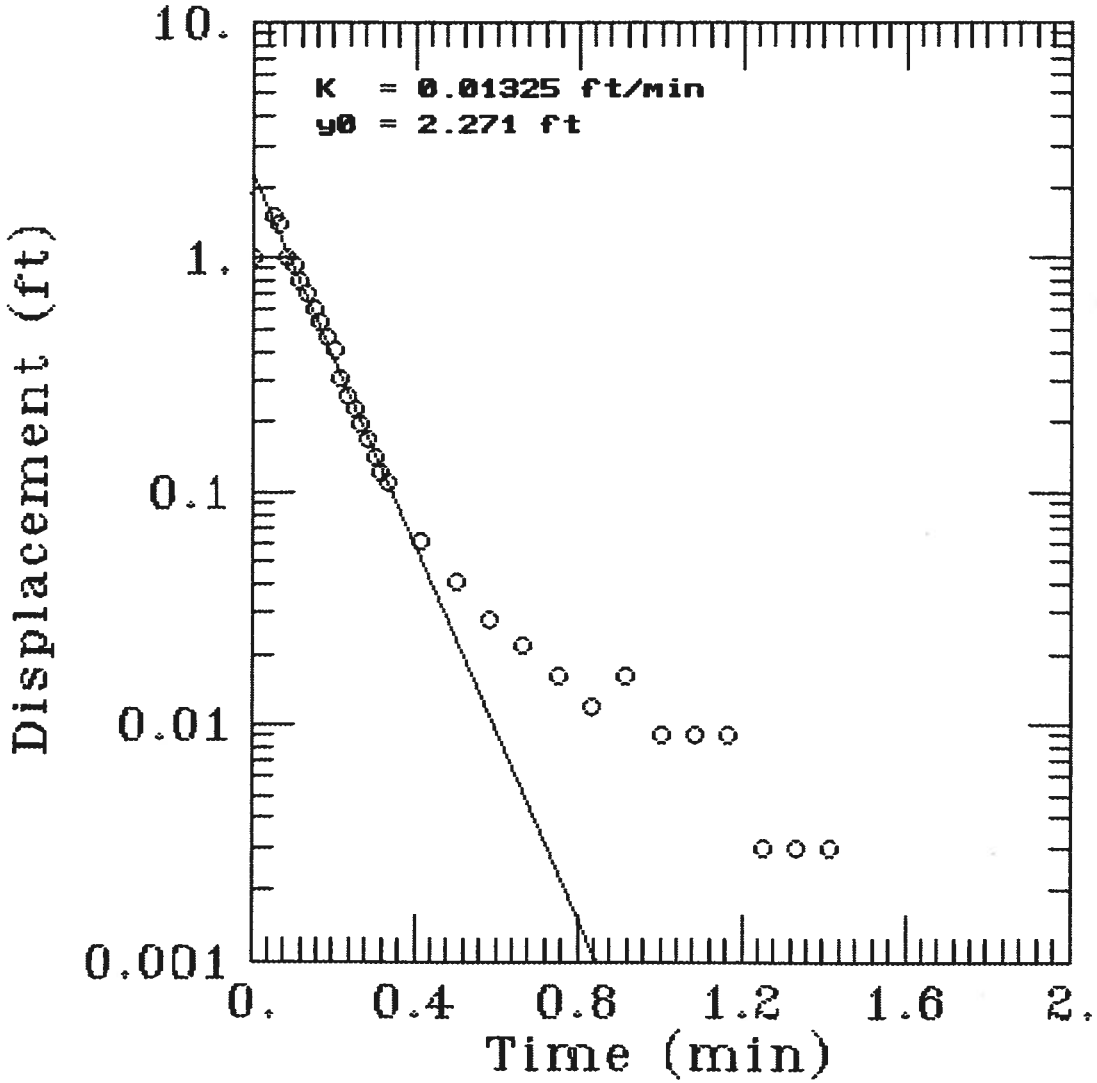

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Modeling Group

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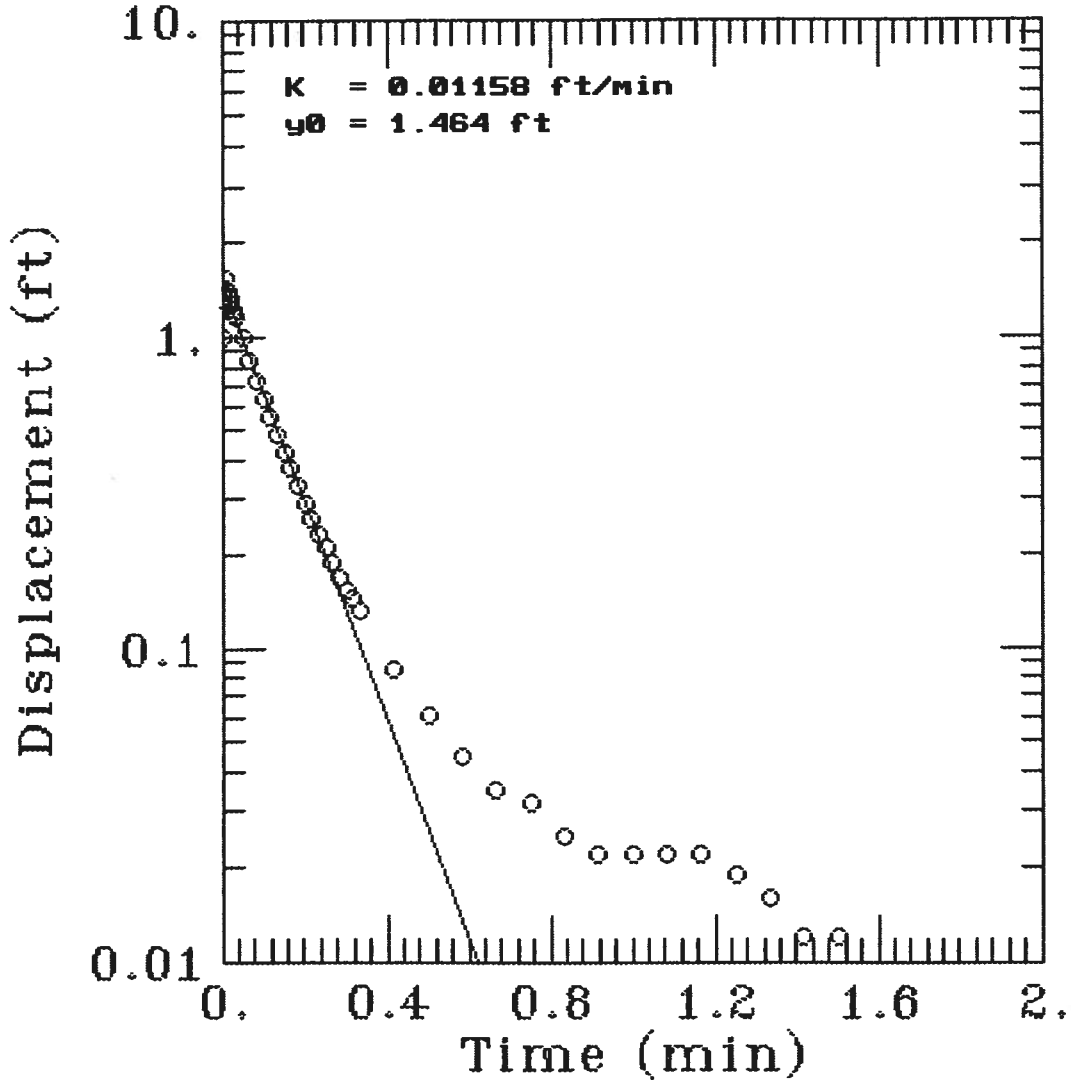

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Modeling Group

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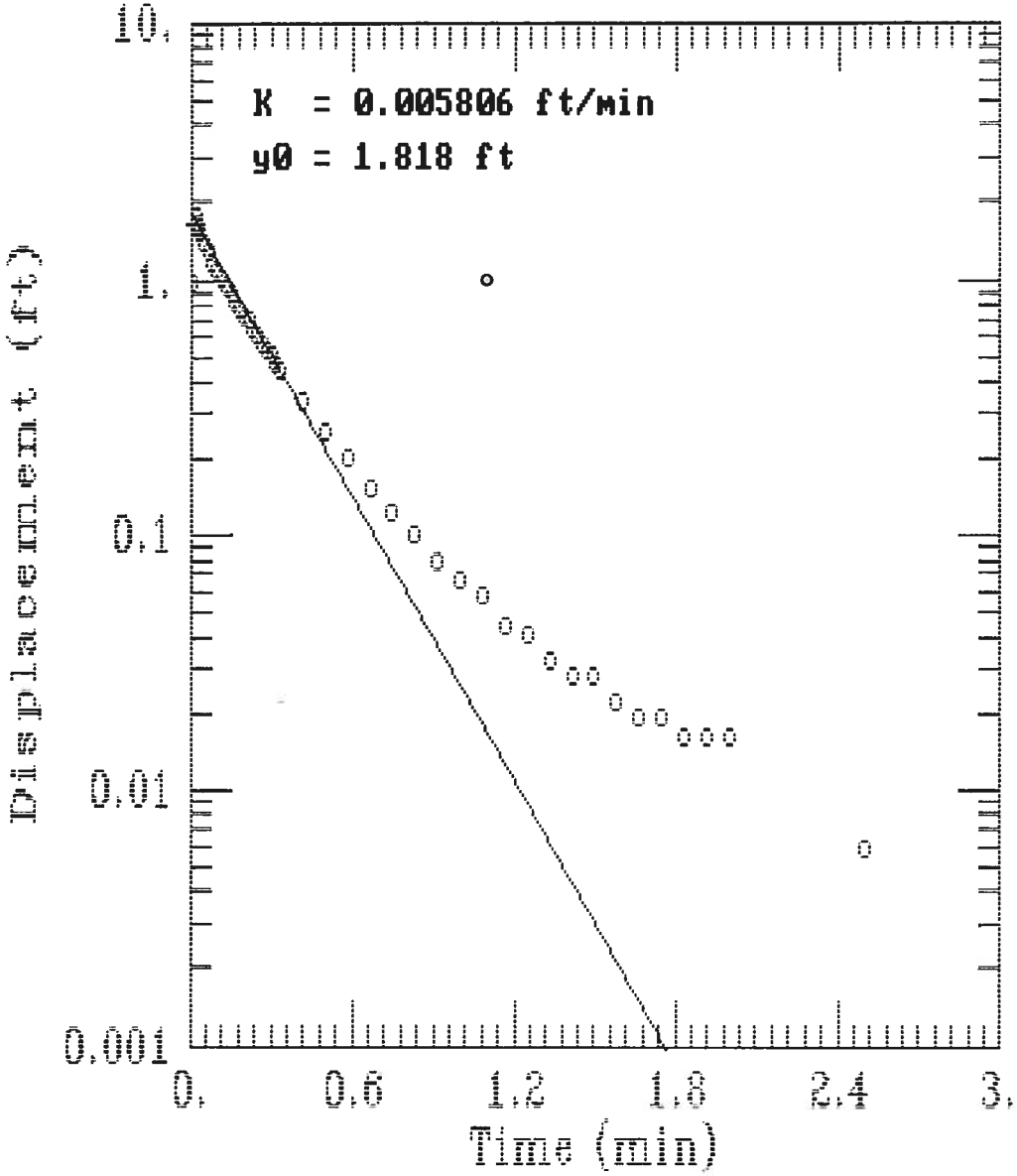

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Modeling Group

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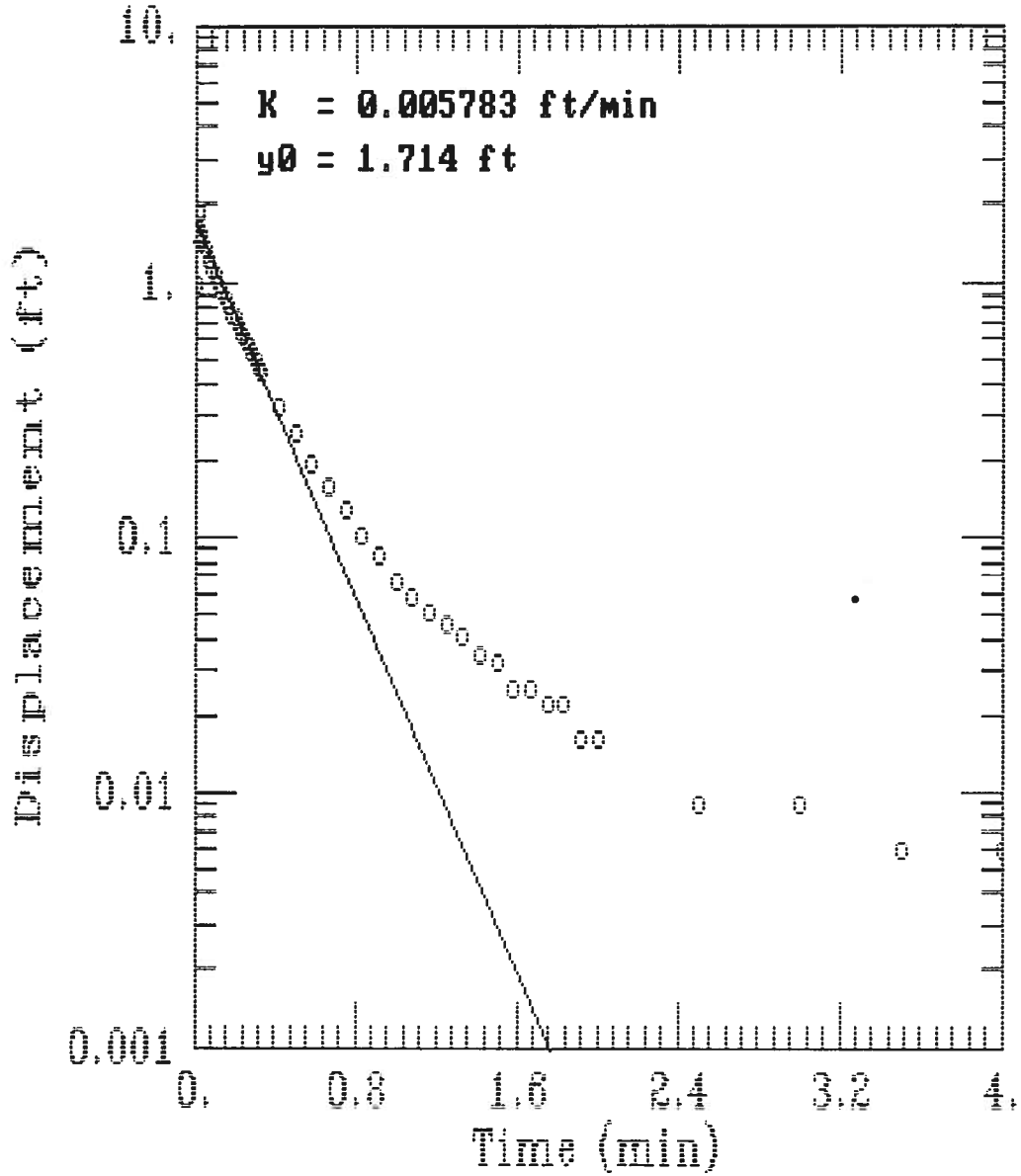

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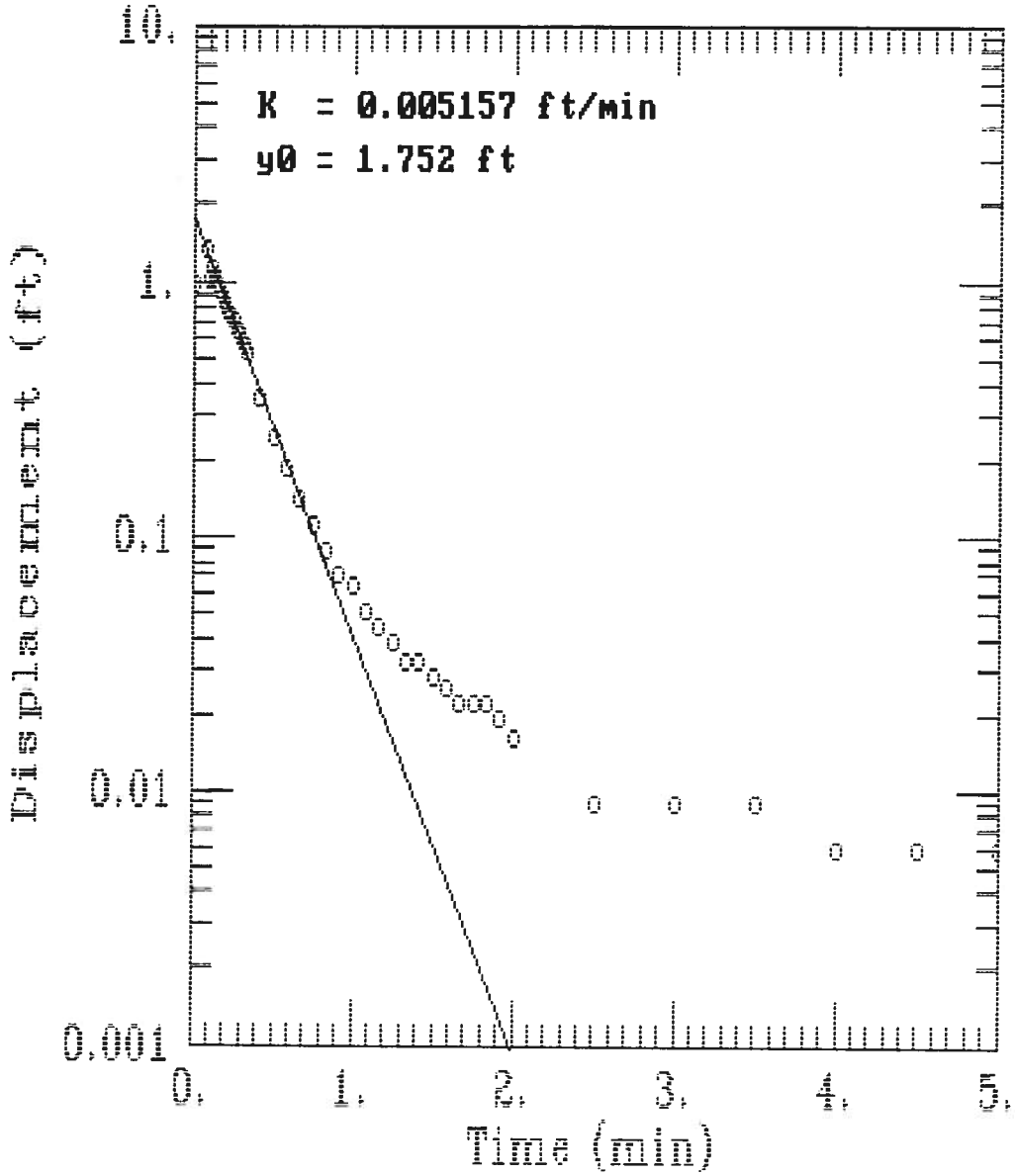
Modeling Group

MAYPORT NAVAL STATION MPT-2-P2-S4



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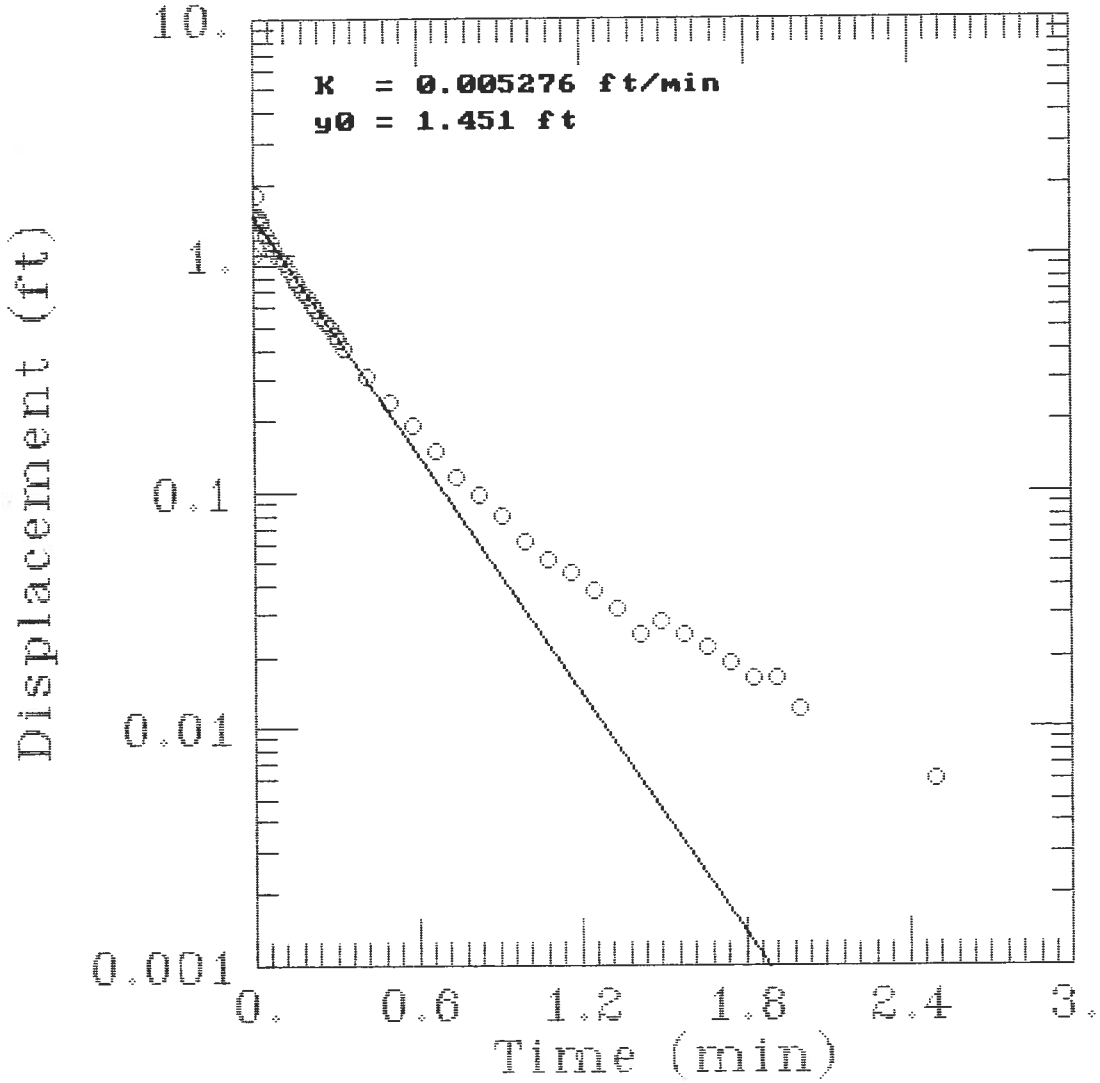
Modeling Group

MAYPORT NAVAL STATION MPT-2-P2-S5



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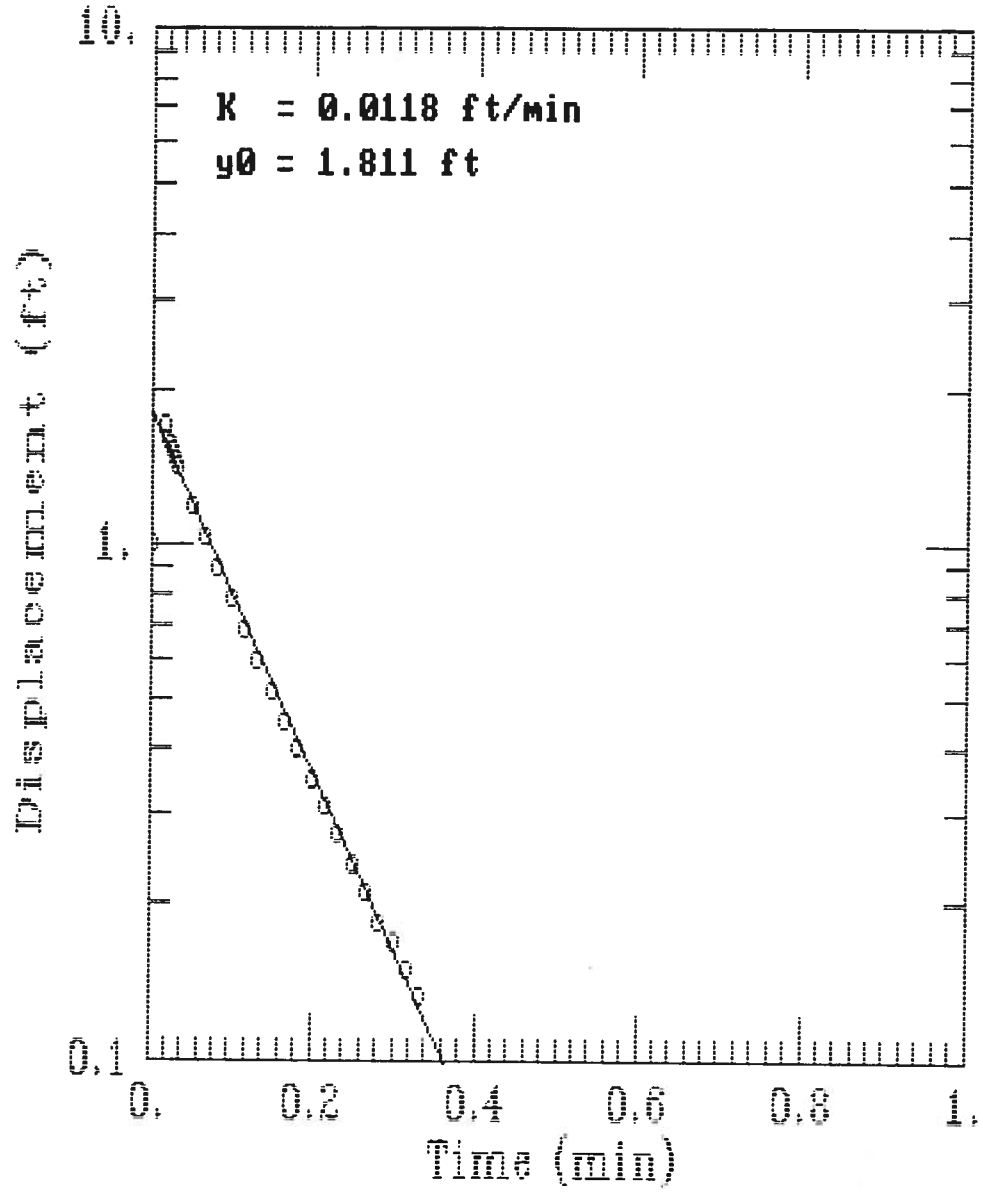
Modeling Group

MAYPORT NAVAL STATION MPT-2-P4-SO



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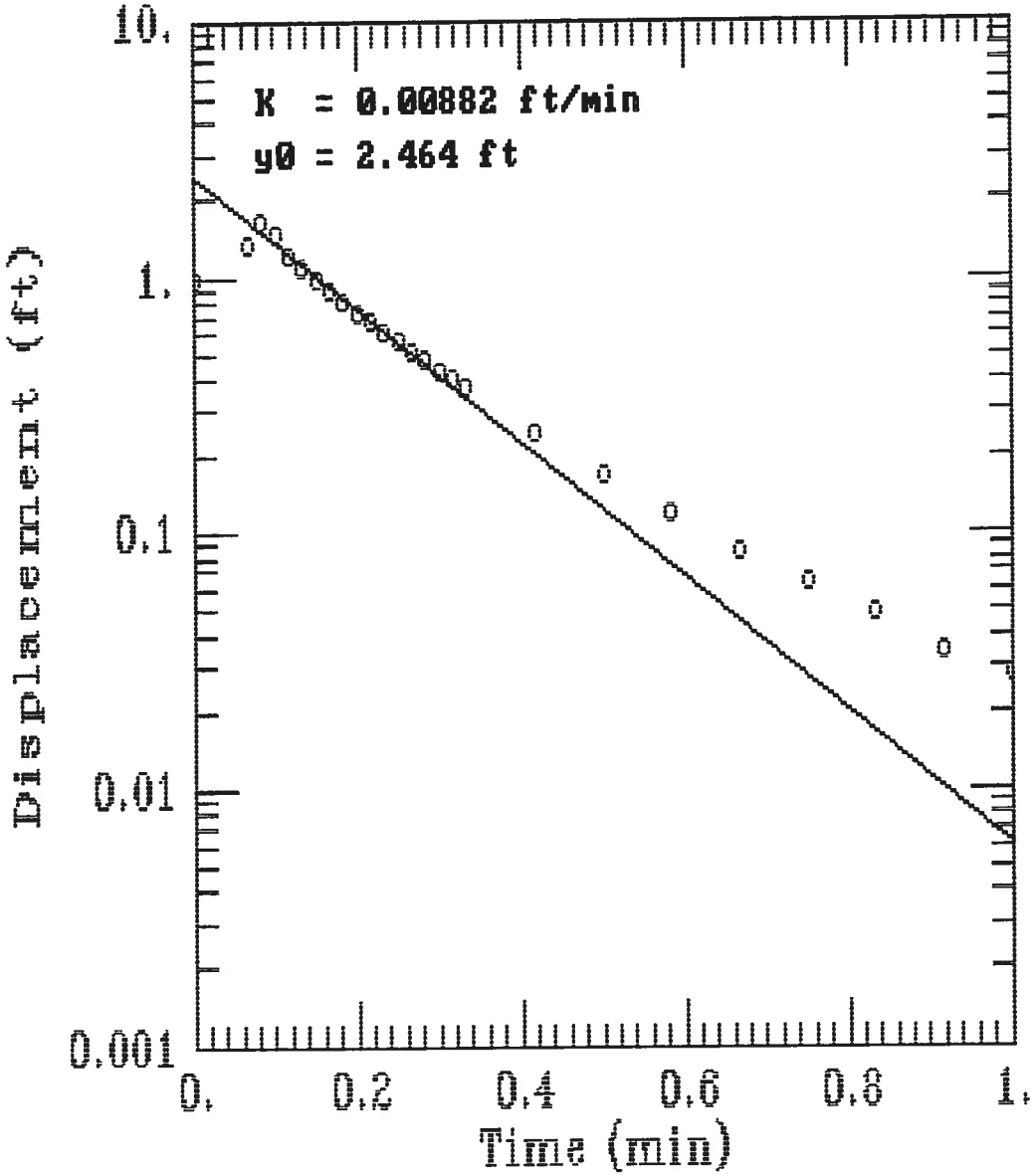
Modeling Group

MPT-2-P-4 RUN #3

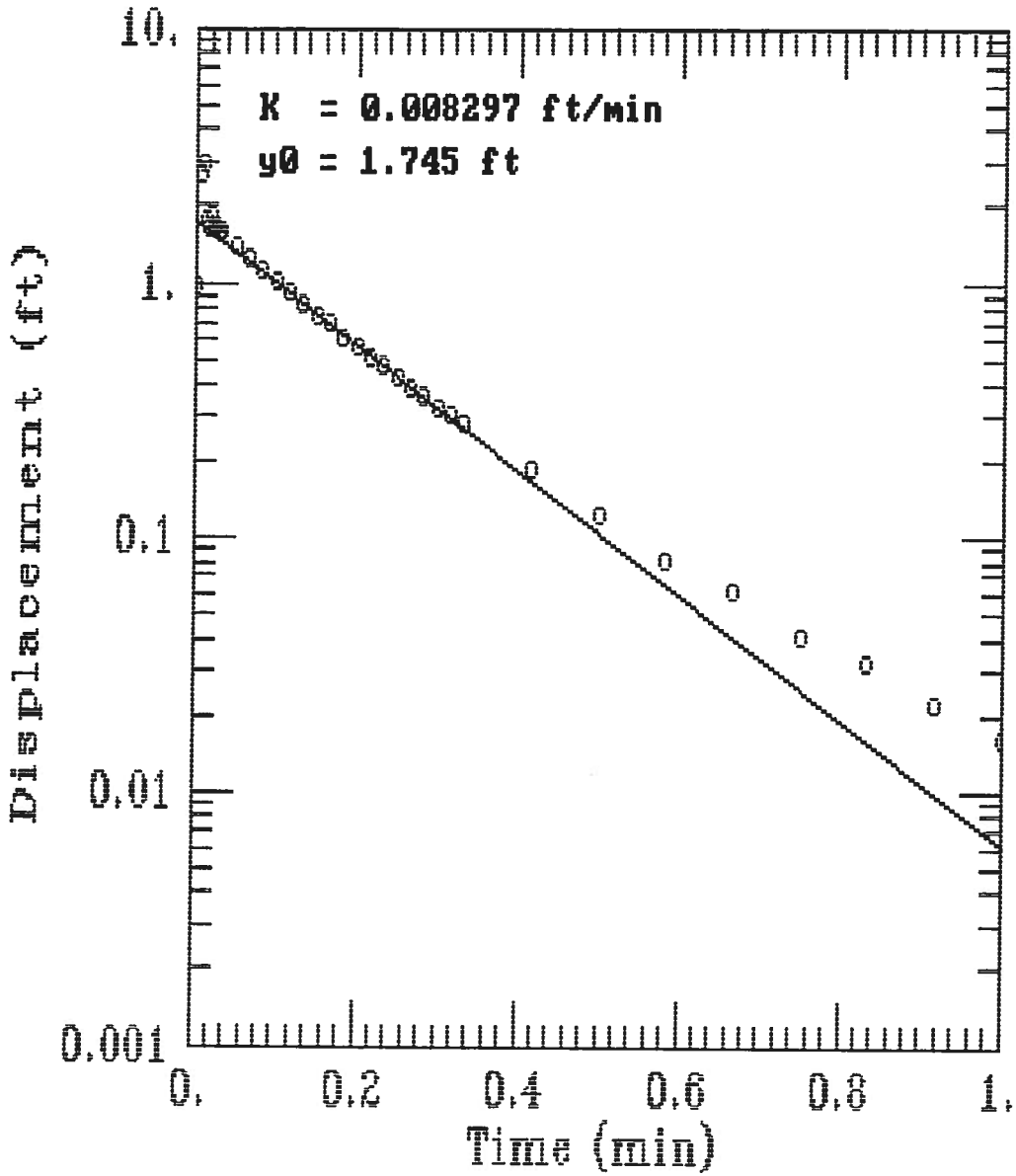


AQTESOLV

GERAGHTY & MILLER, INC.

Modeling Group

MPT-2-P-4 RUN #4

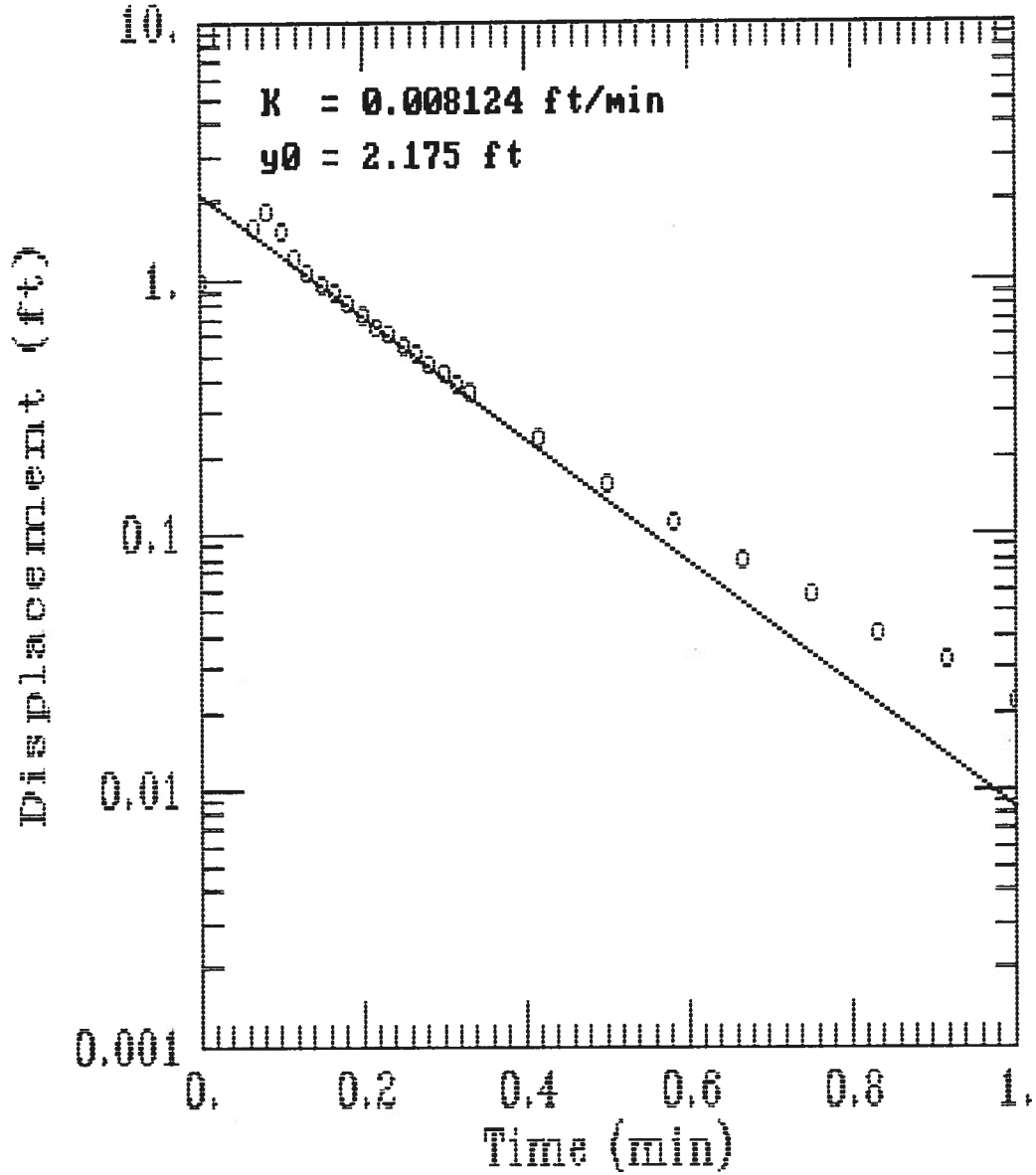


AQTESOLV

GERAGHTY & MILLER, INC.

Modeling Group

MPT-2-P-4 RUN #5

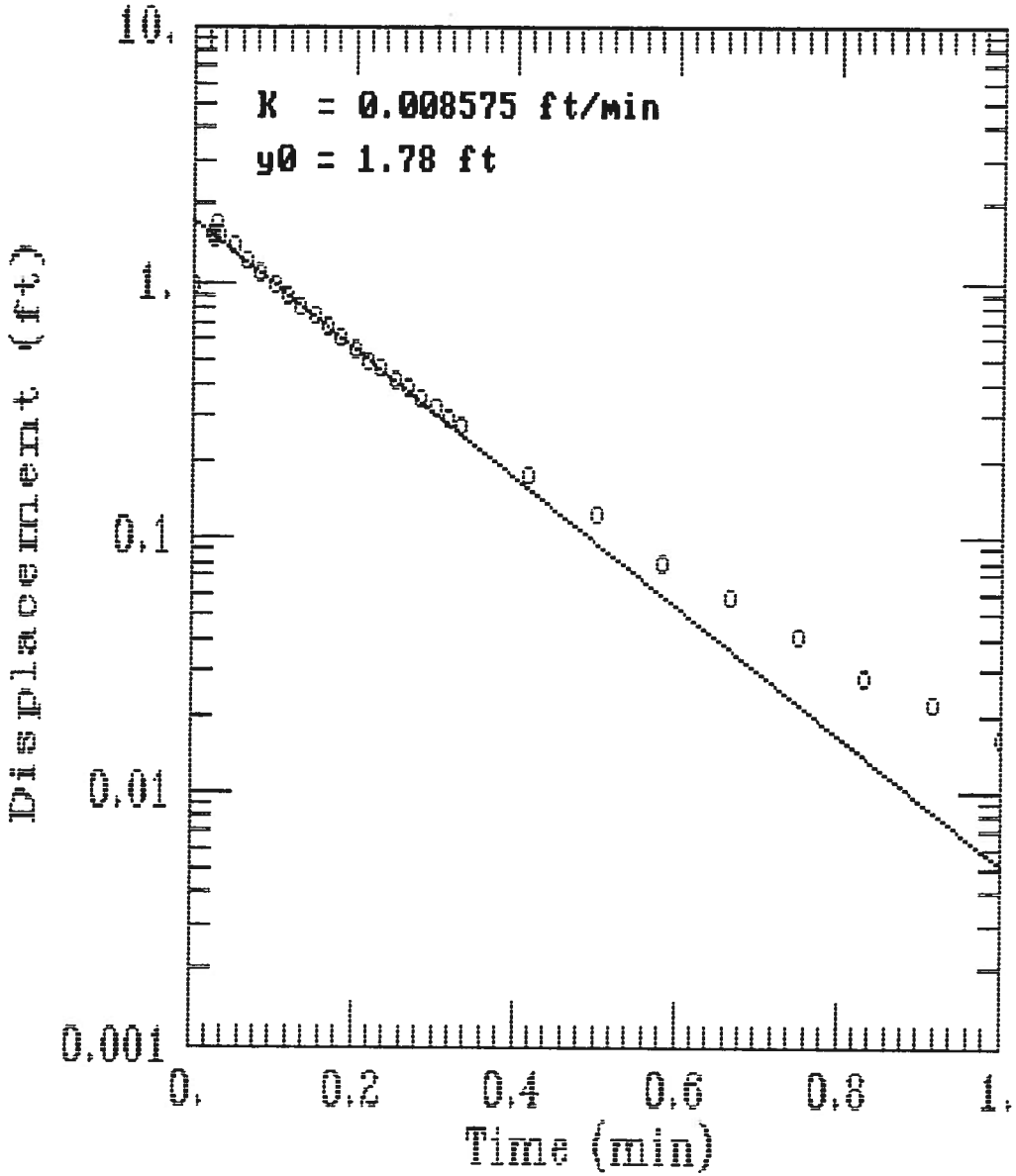


AQTESOLV

GERAGHTY & MILLER, INC.

Modeling Group

MPT-2-P-4 RUN #6

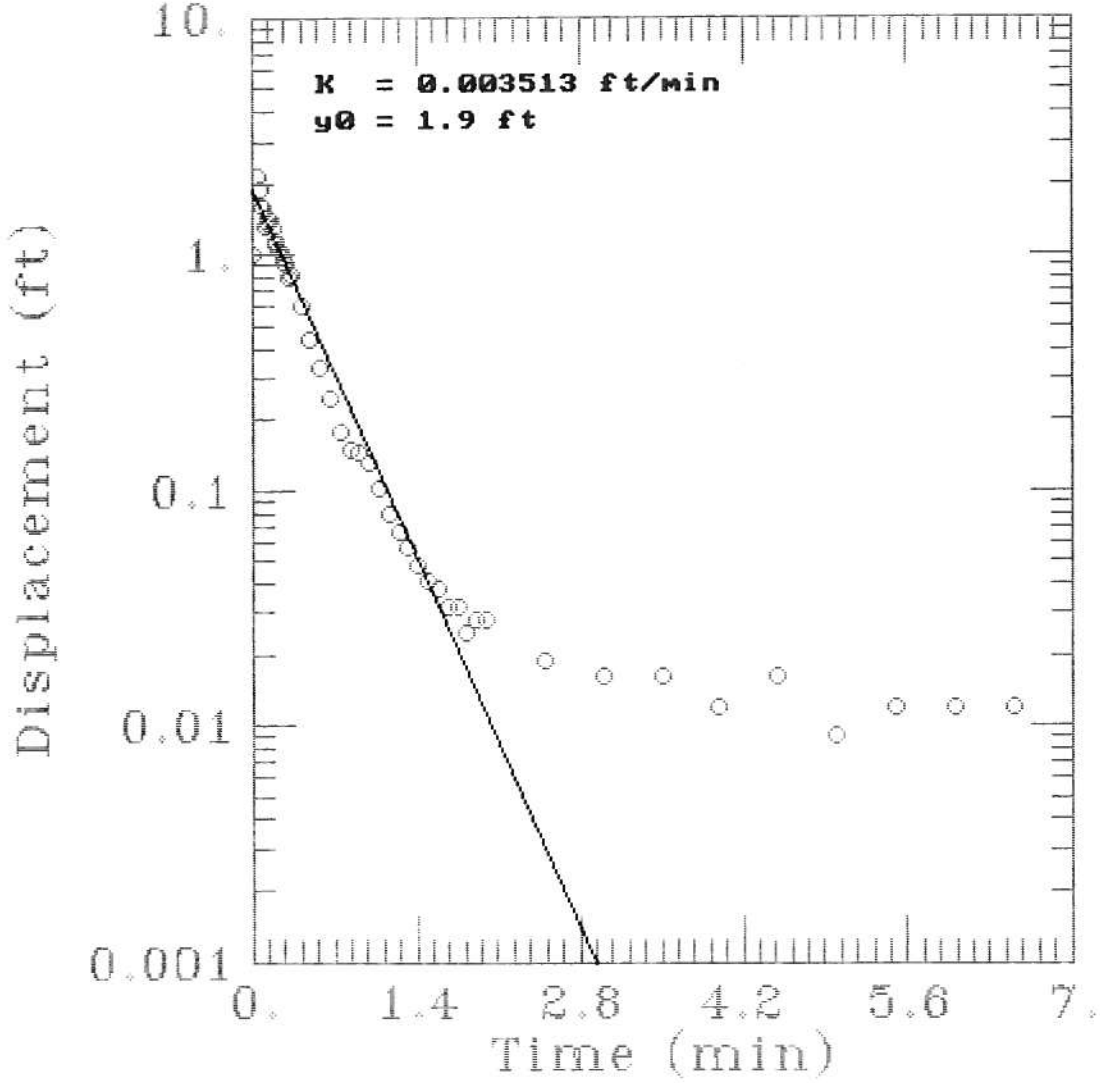


AQTESOLV

GERAGHTY & MILLER, INC.

Modeling Group

MAYPORT NAVAL STATION MPT-2-P5-S0



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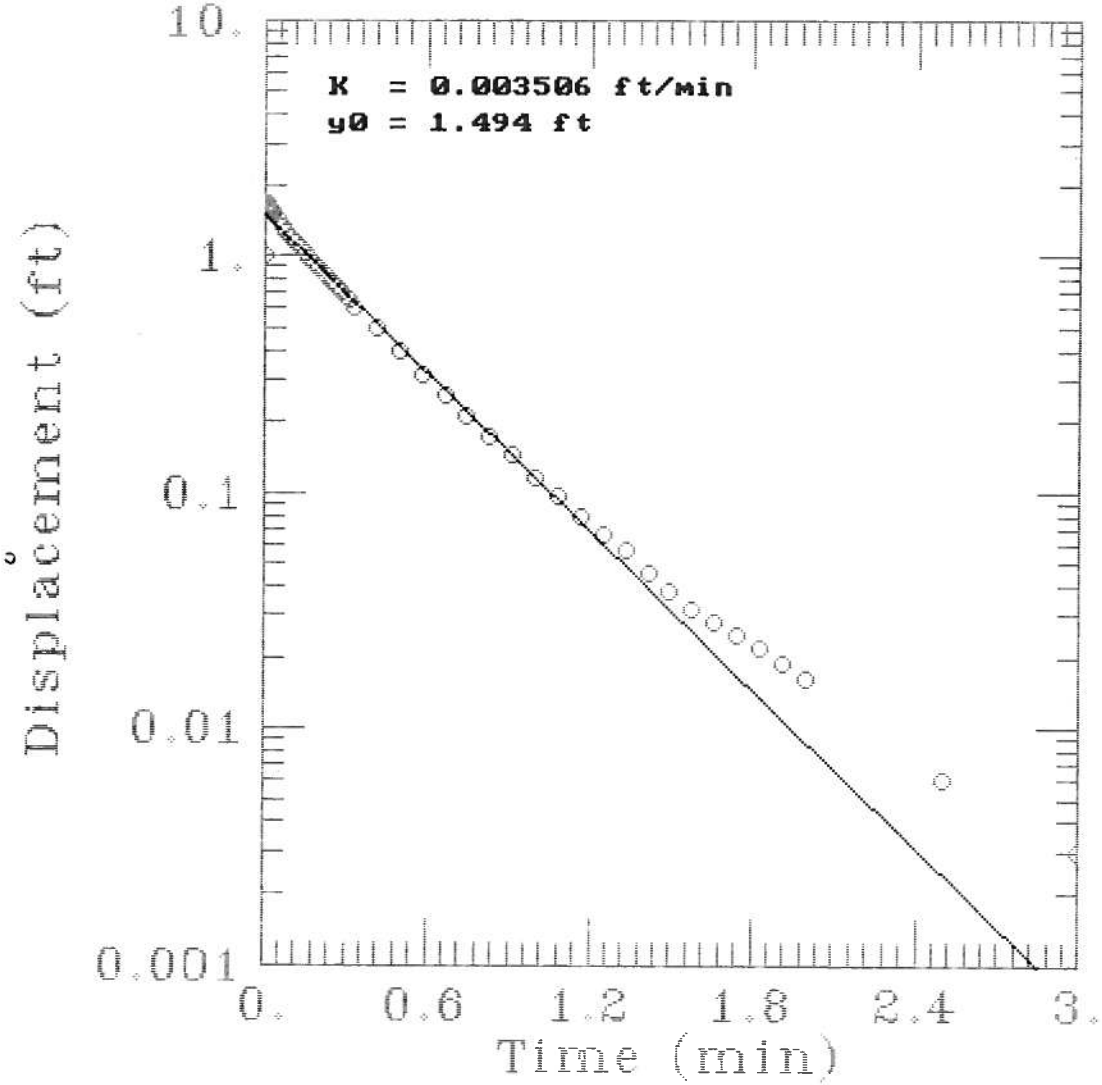

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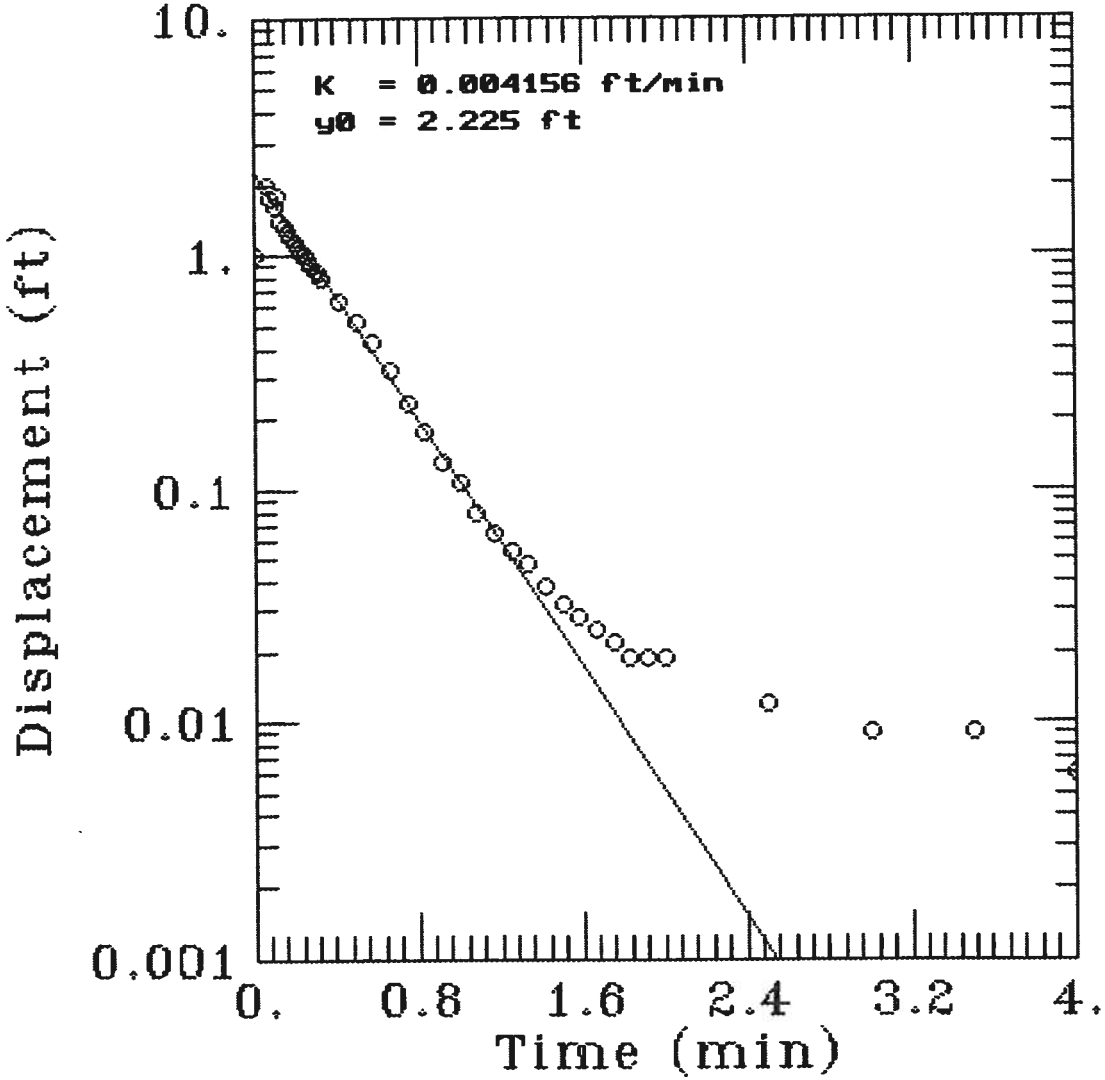

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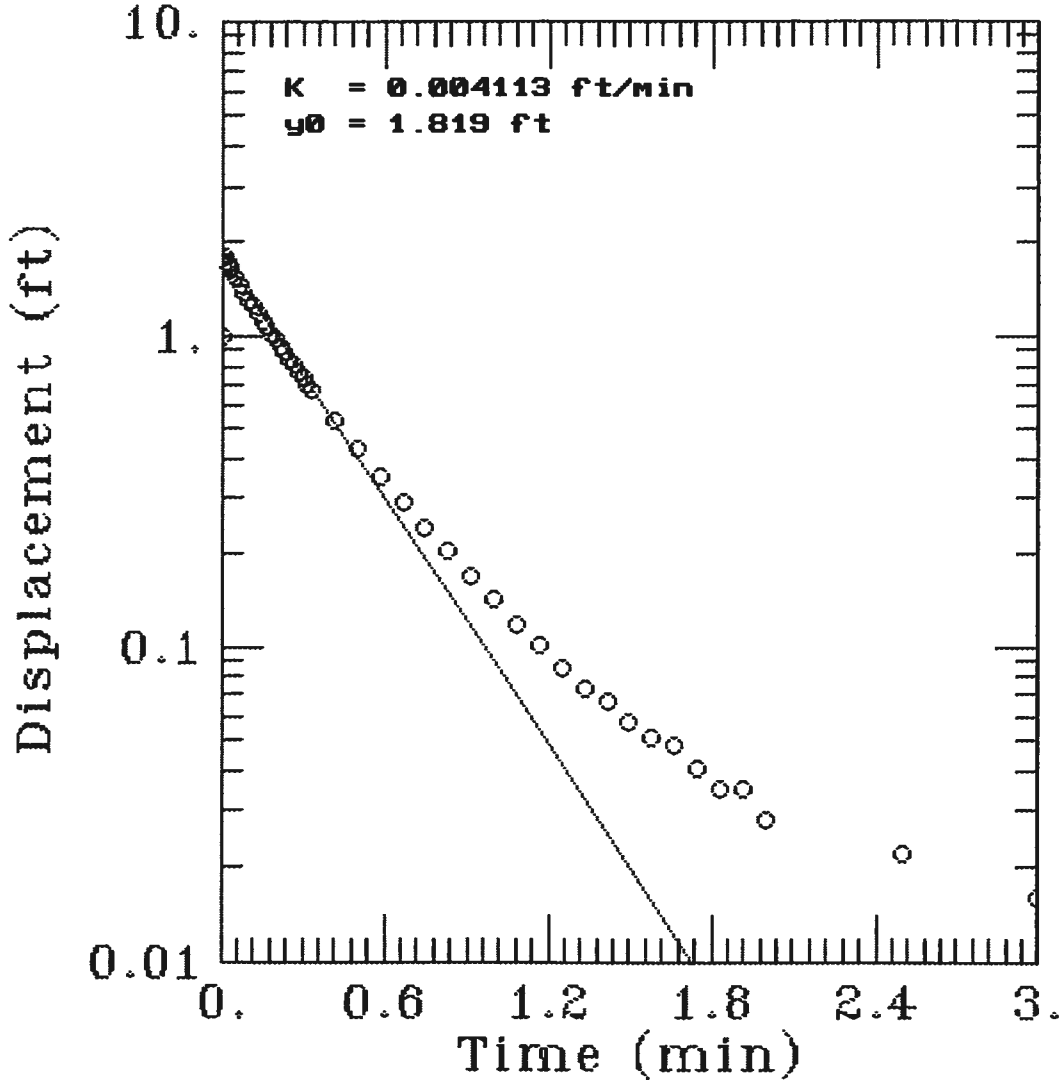
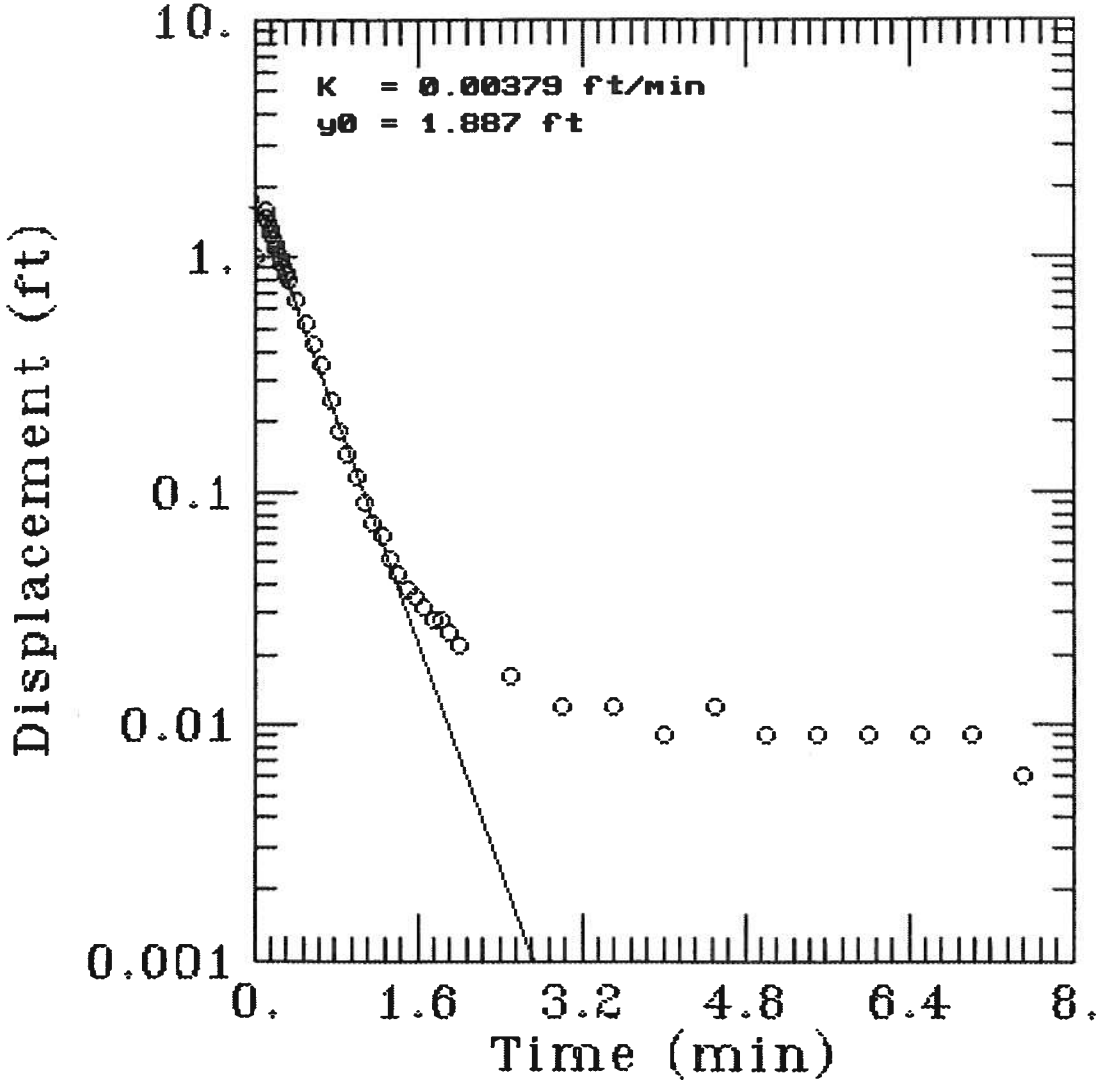


MAYPORT NAVAL STATION MPT-2-P5-S4



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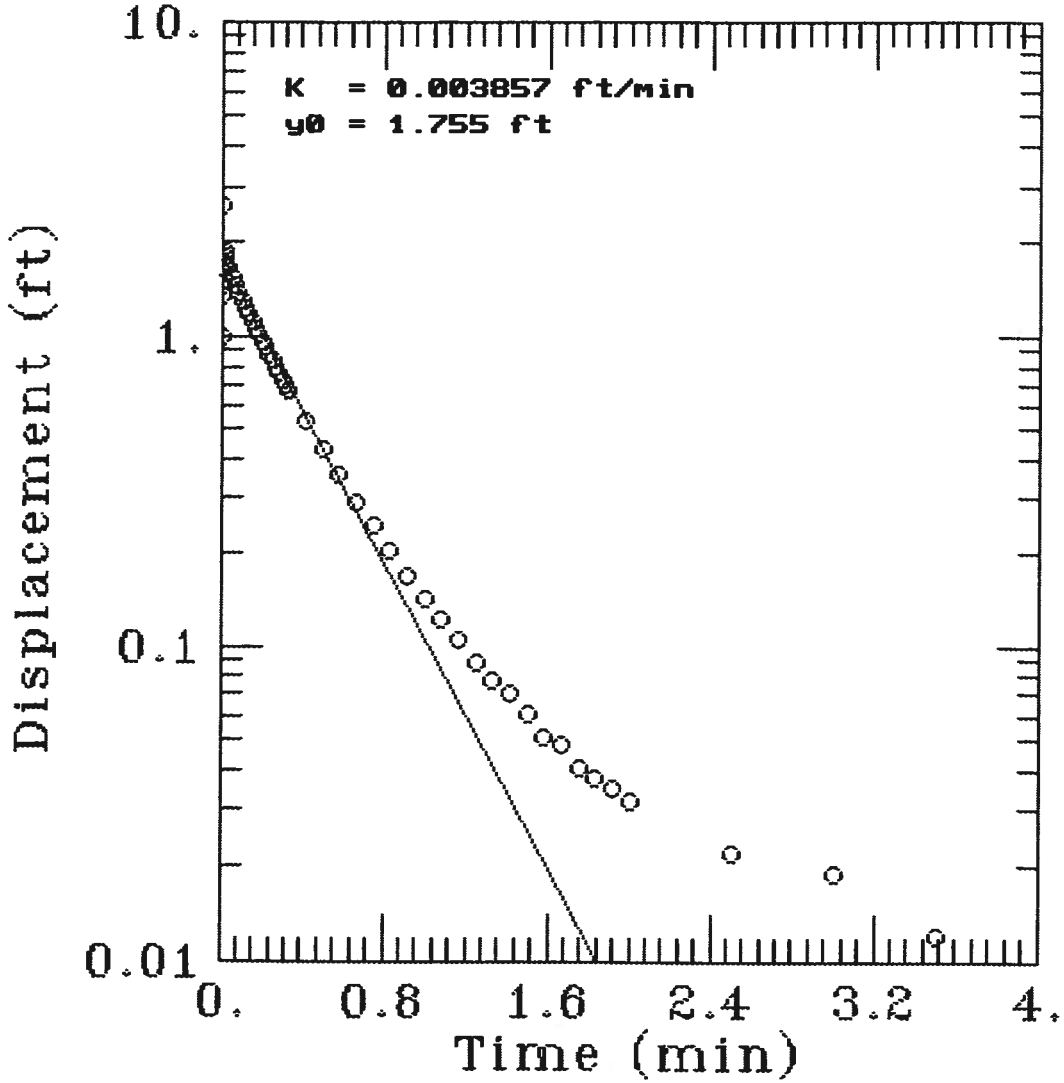

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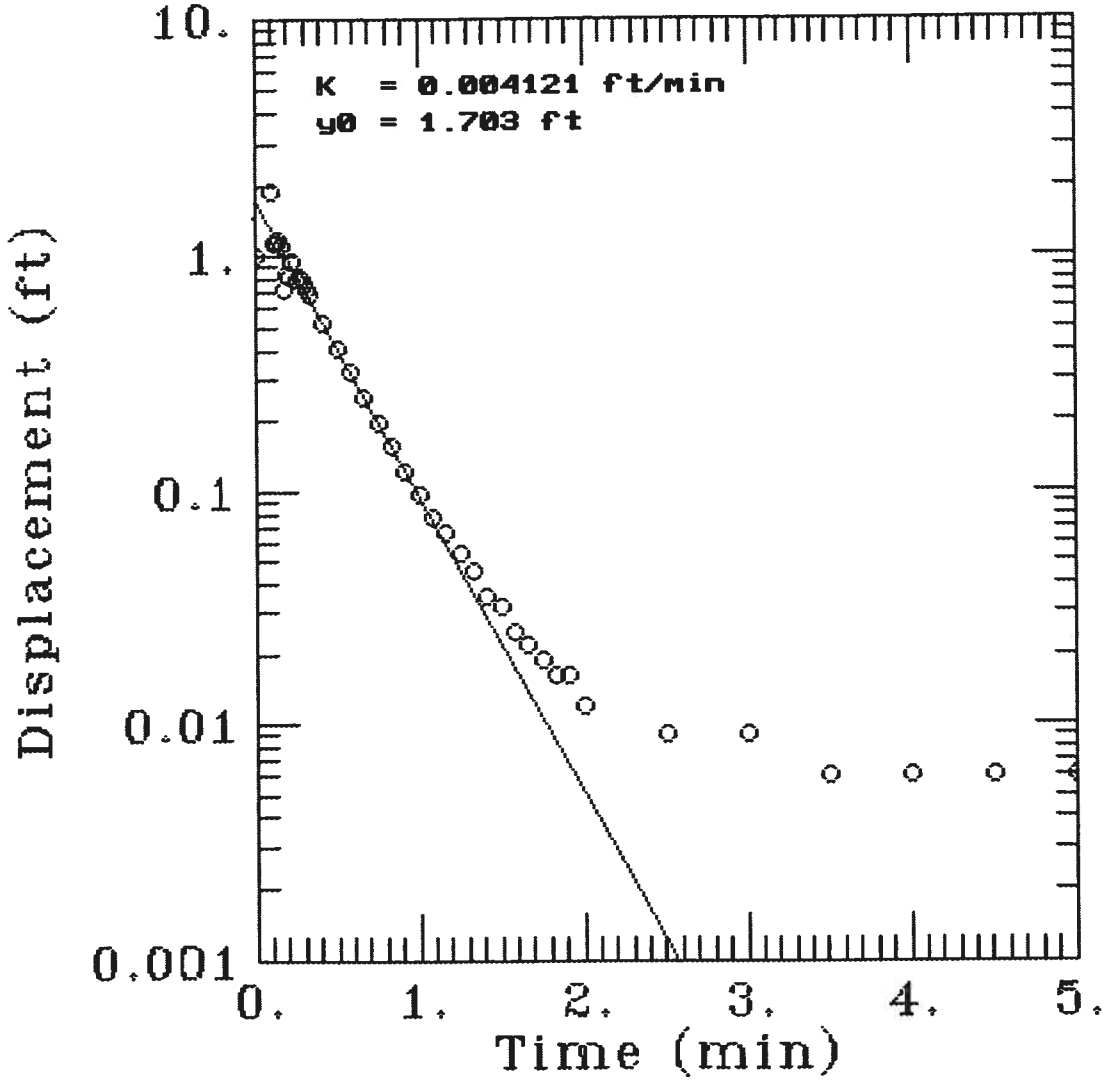

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Modeling Group

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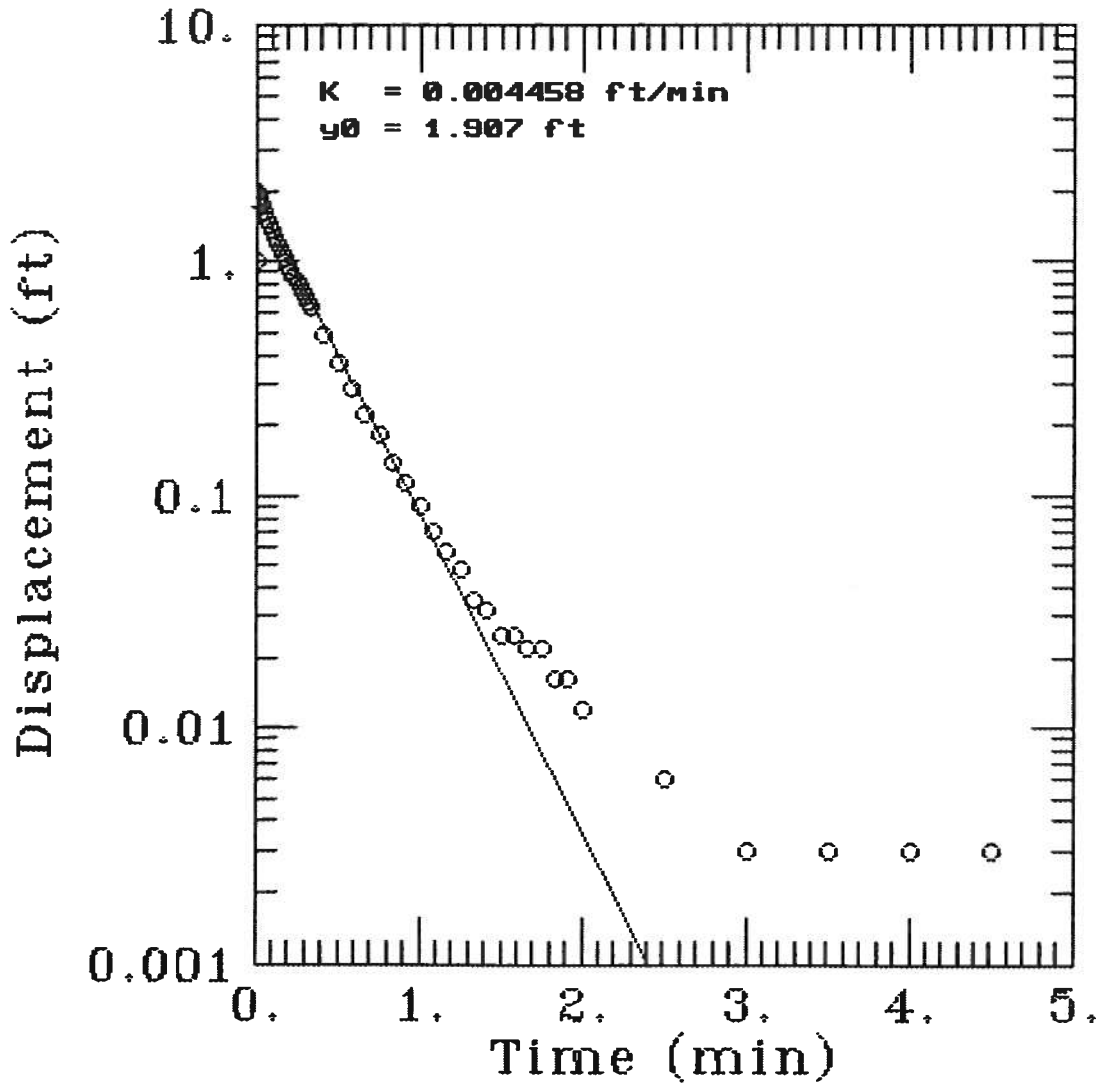

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Modeling Group

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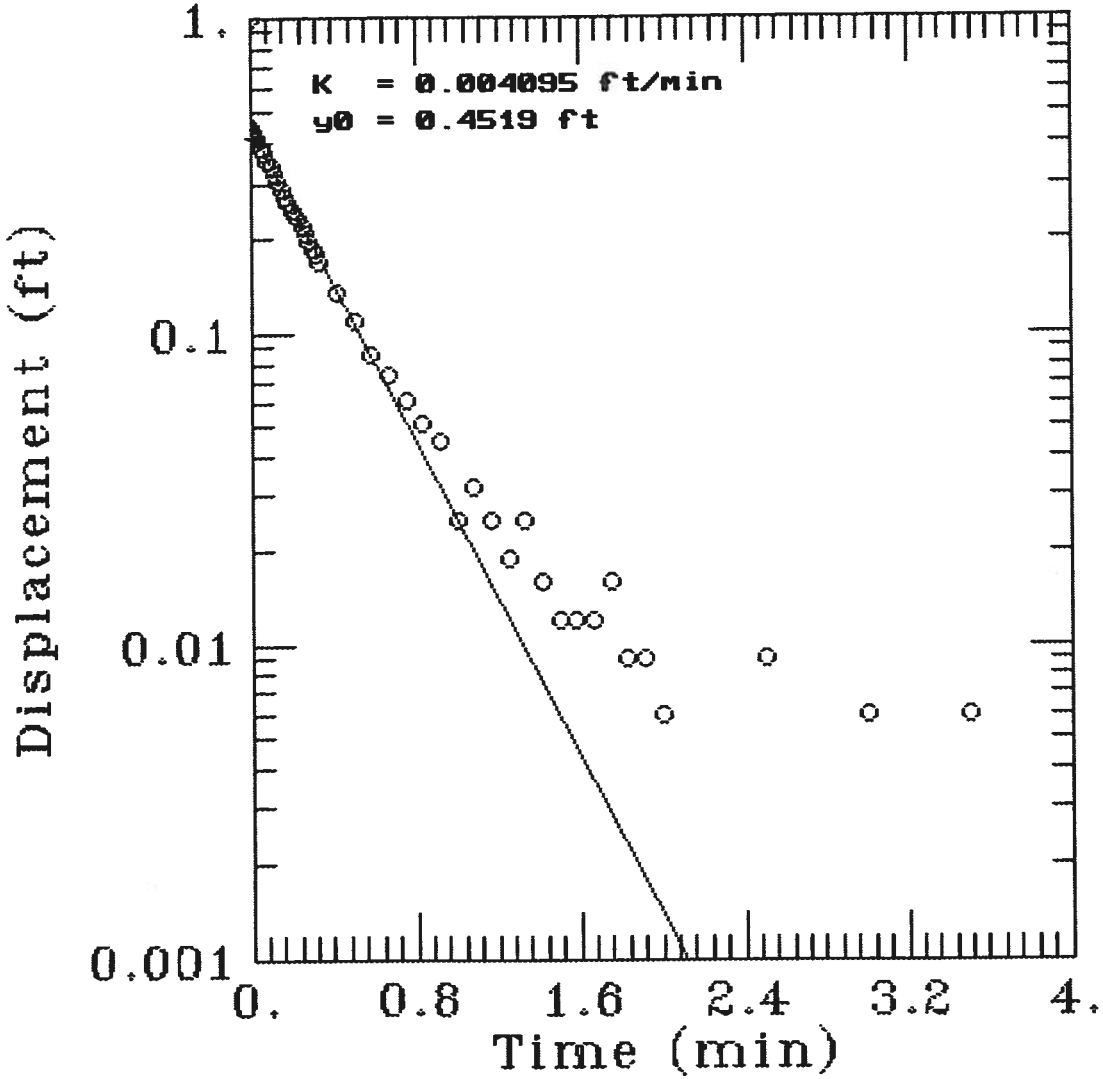

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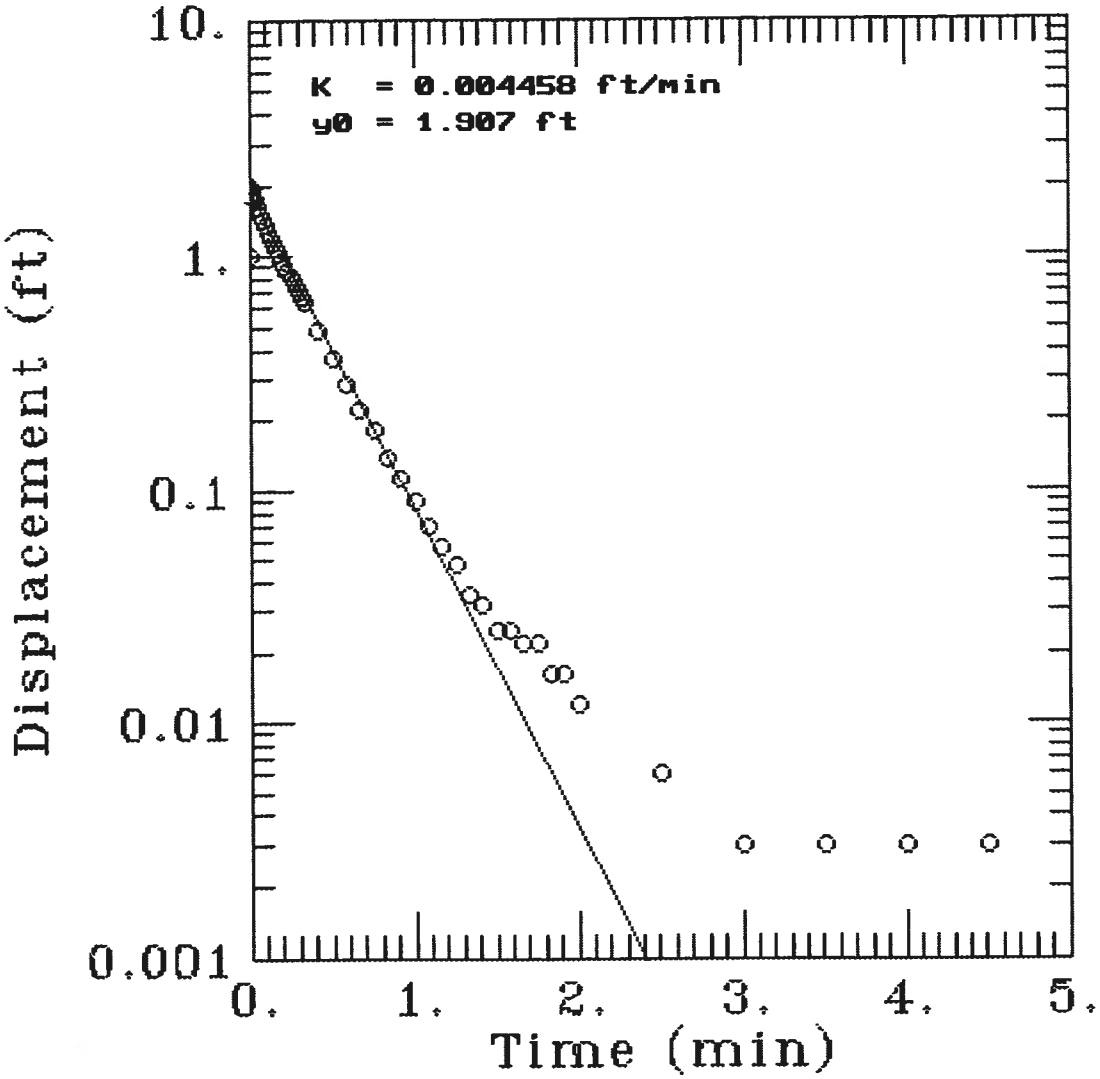

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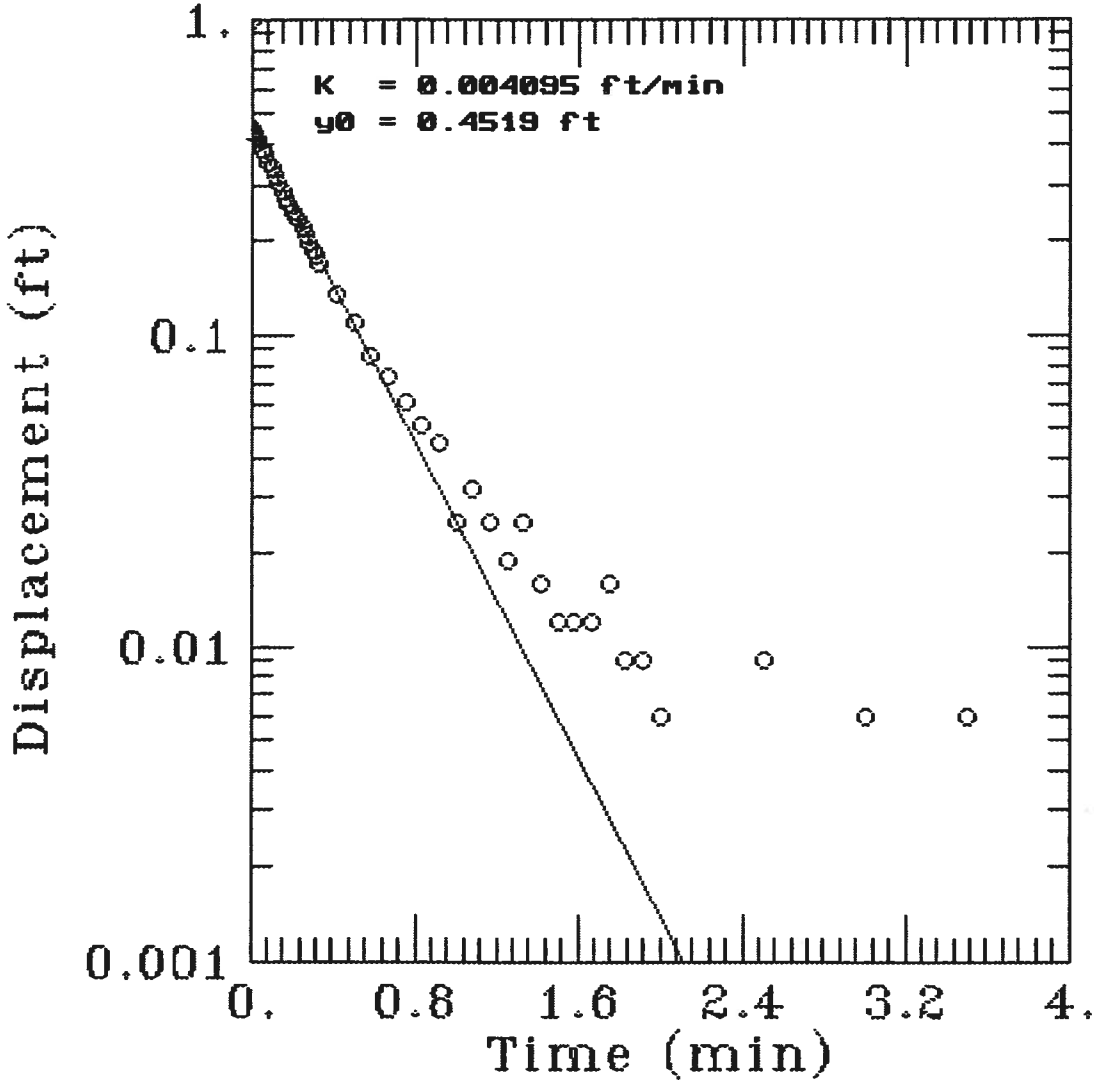

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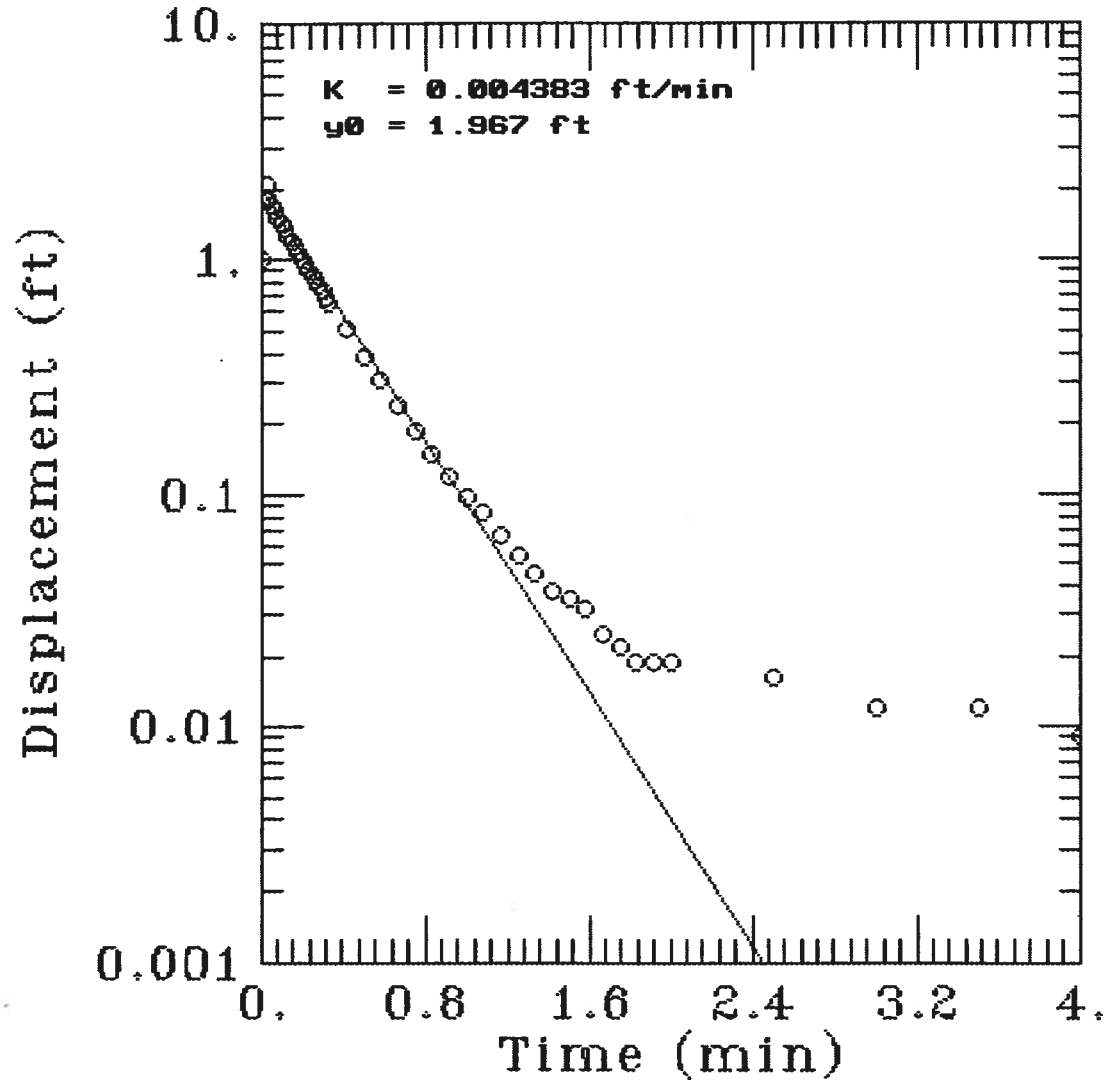

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Modeling Group

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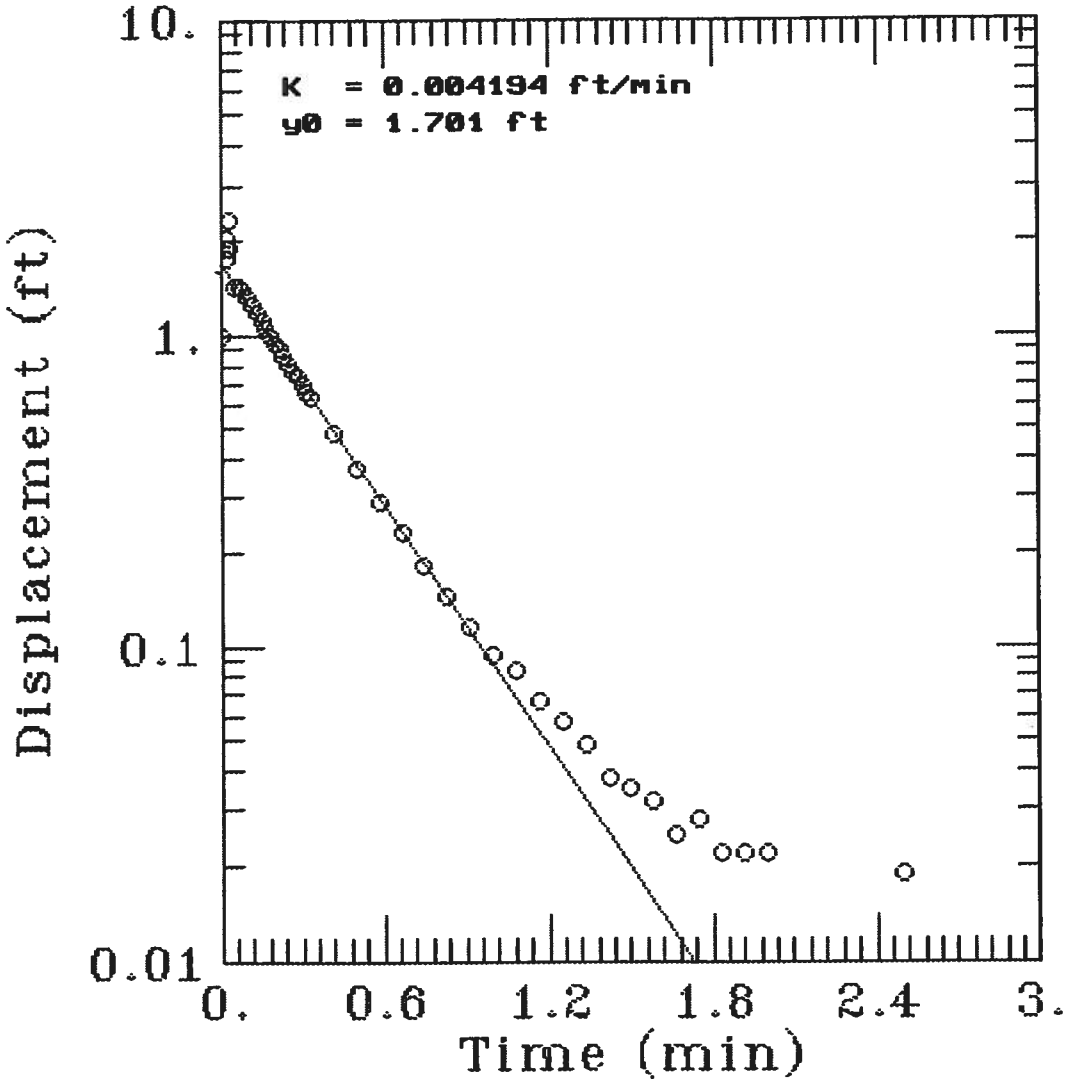

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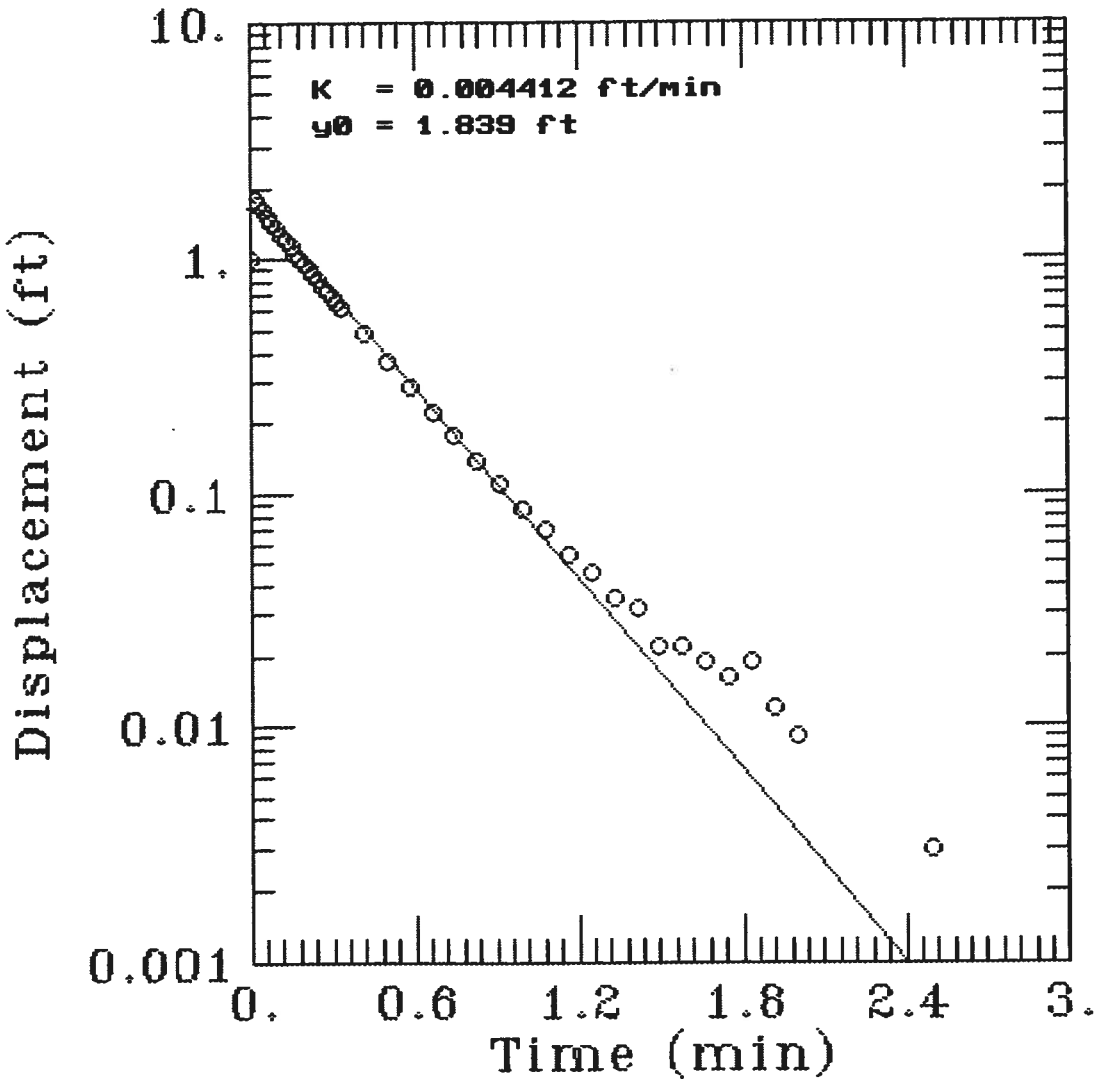

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Modeling Group

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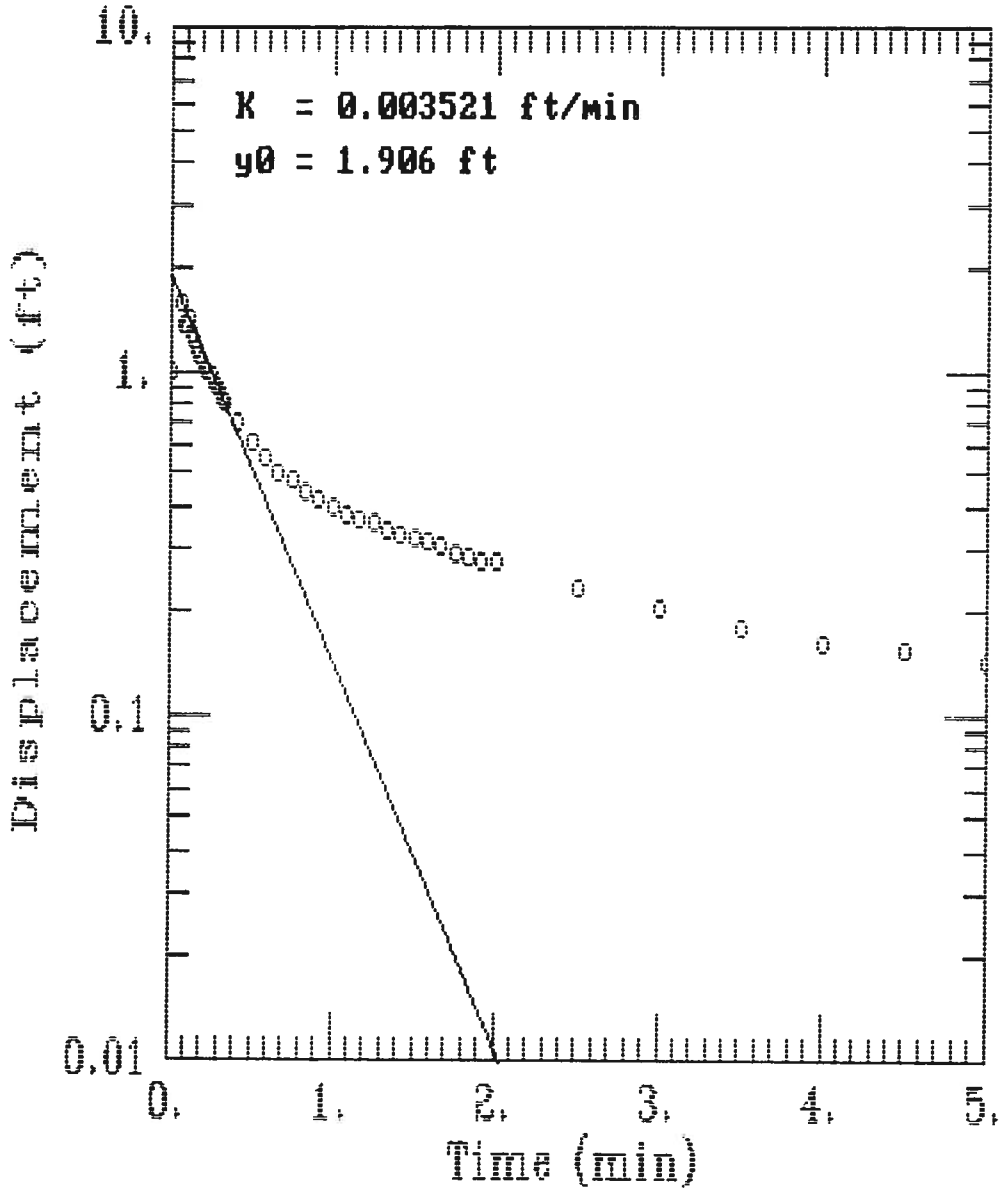

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Modeling Group

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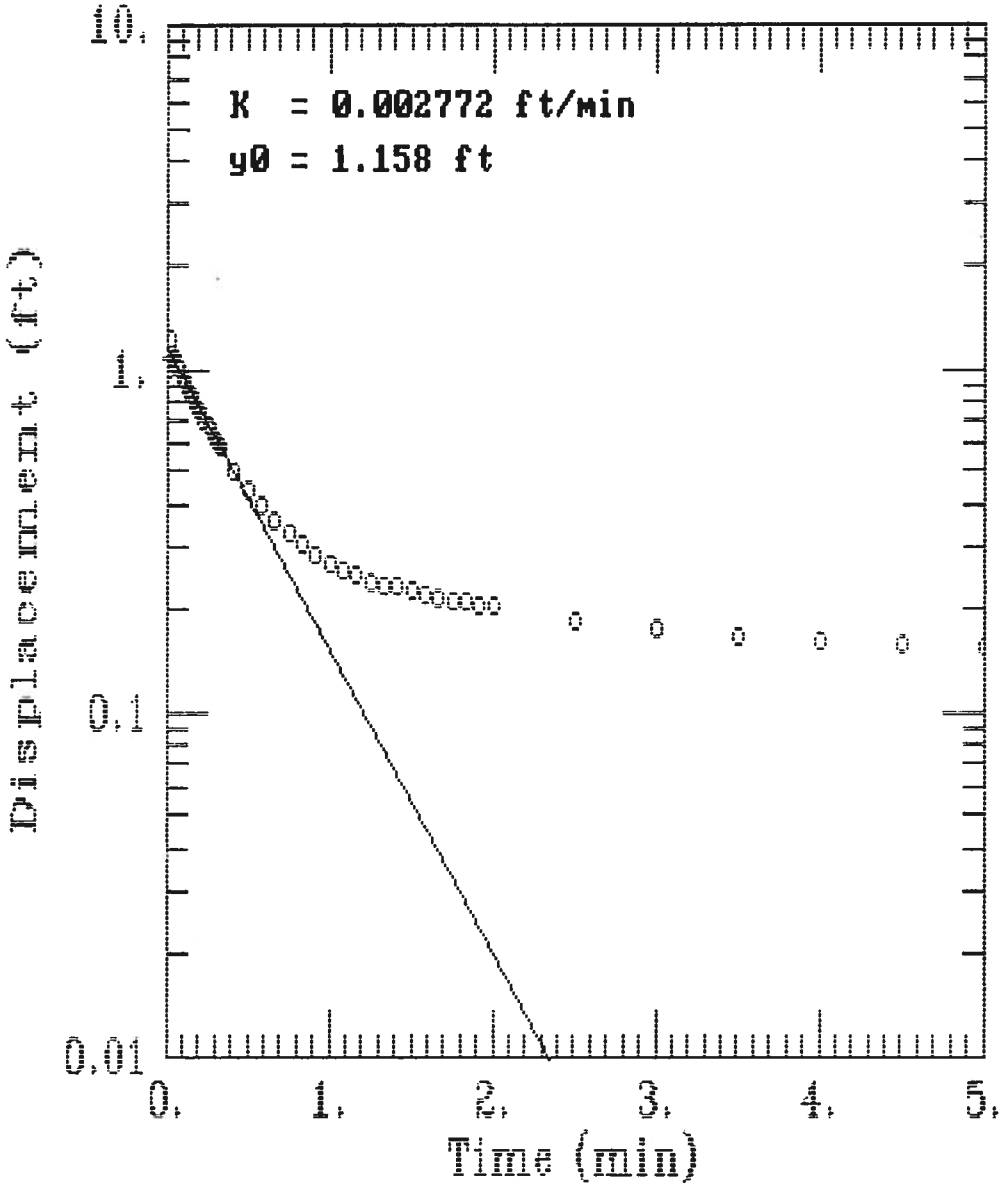

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Modeling Group

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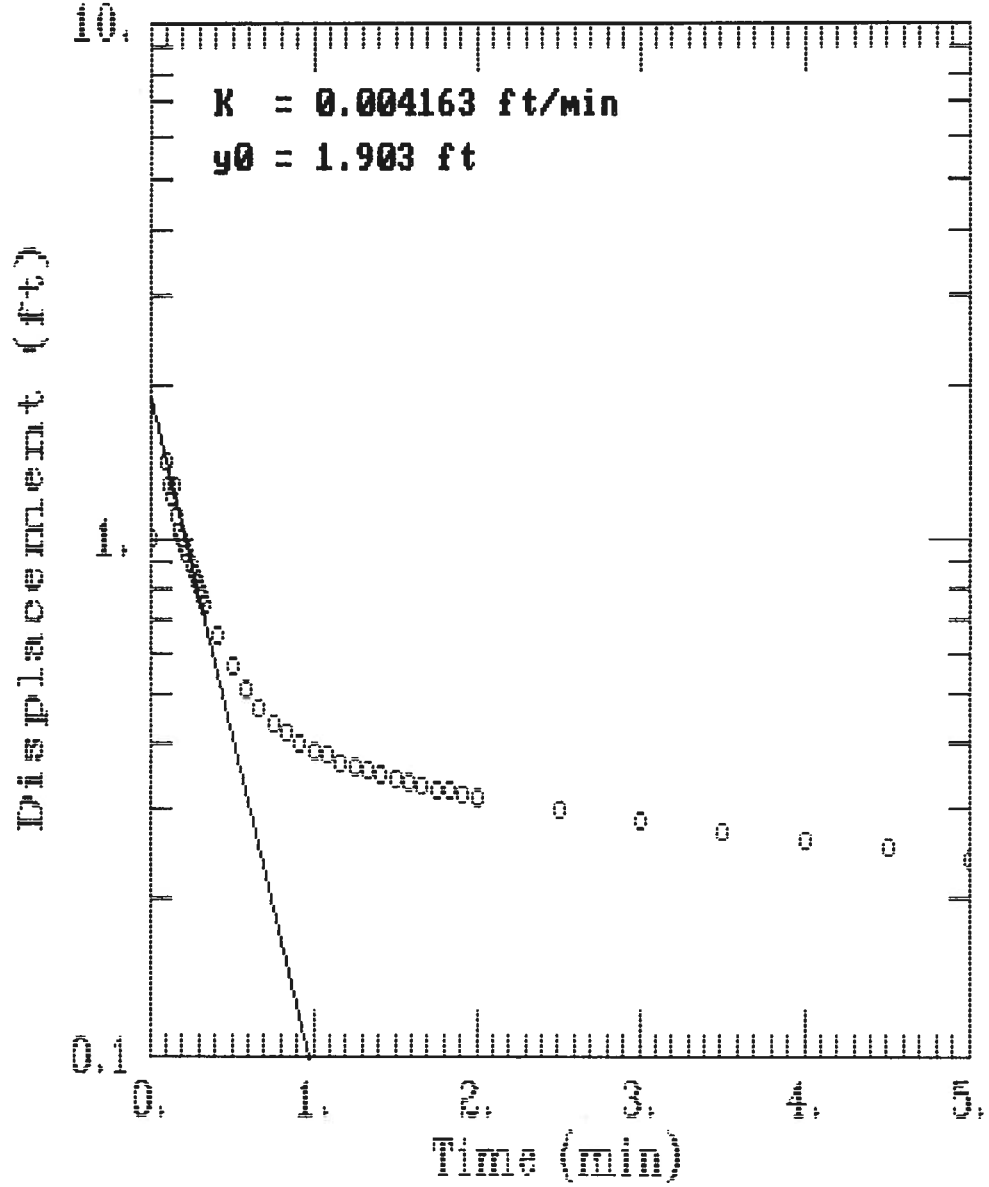

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Modeling Group

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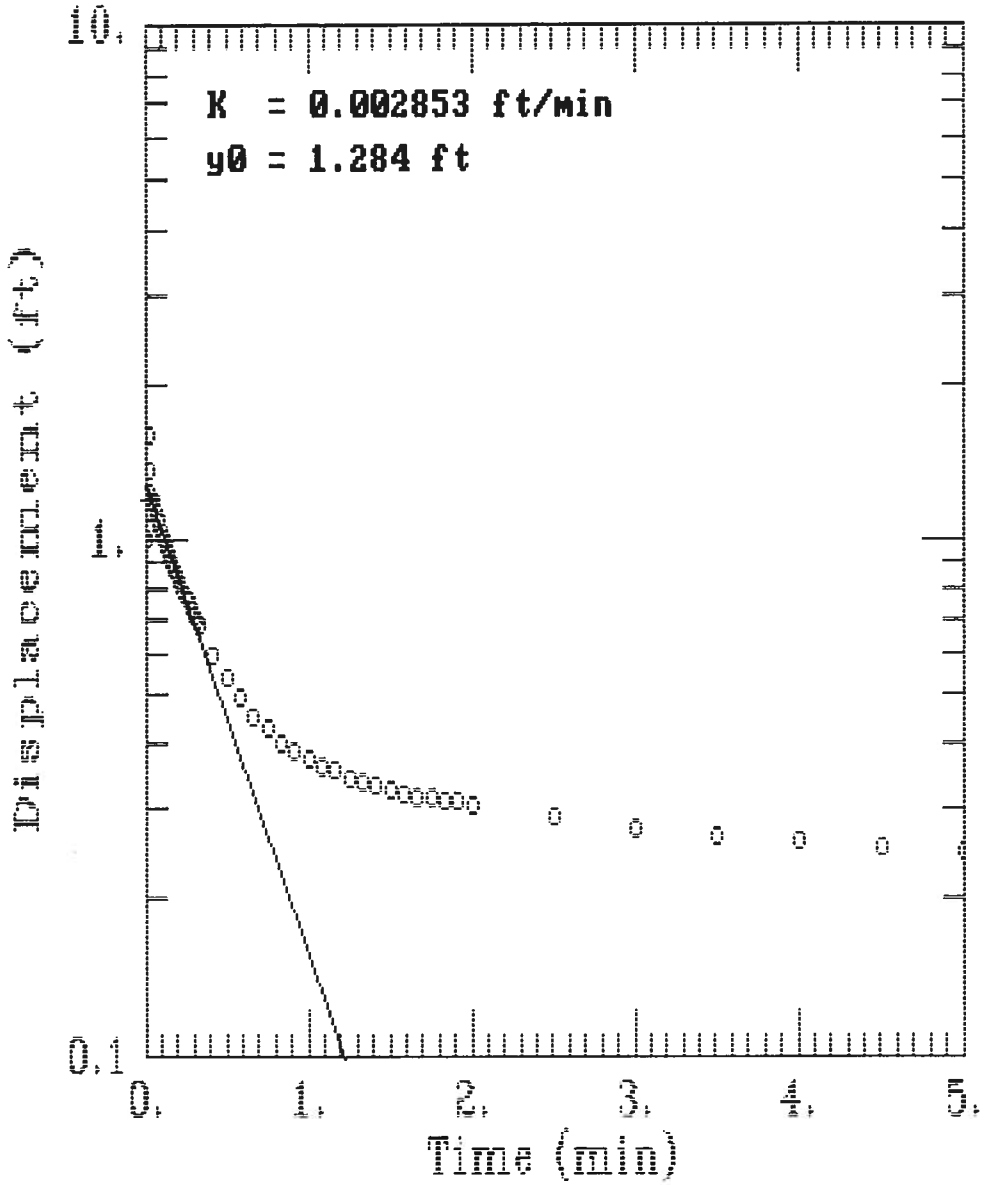

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Modeling Group

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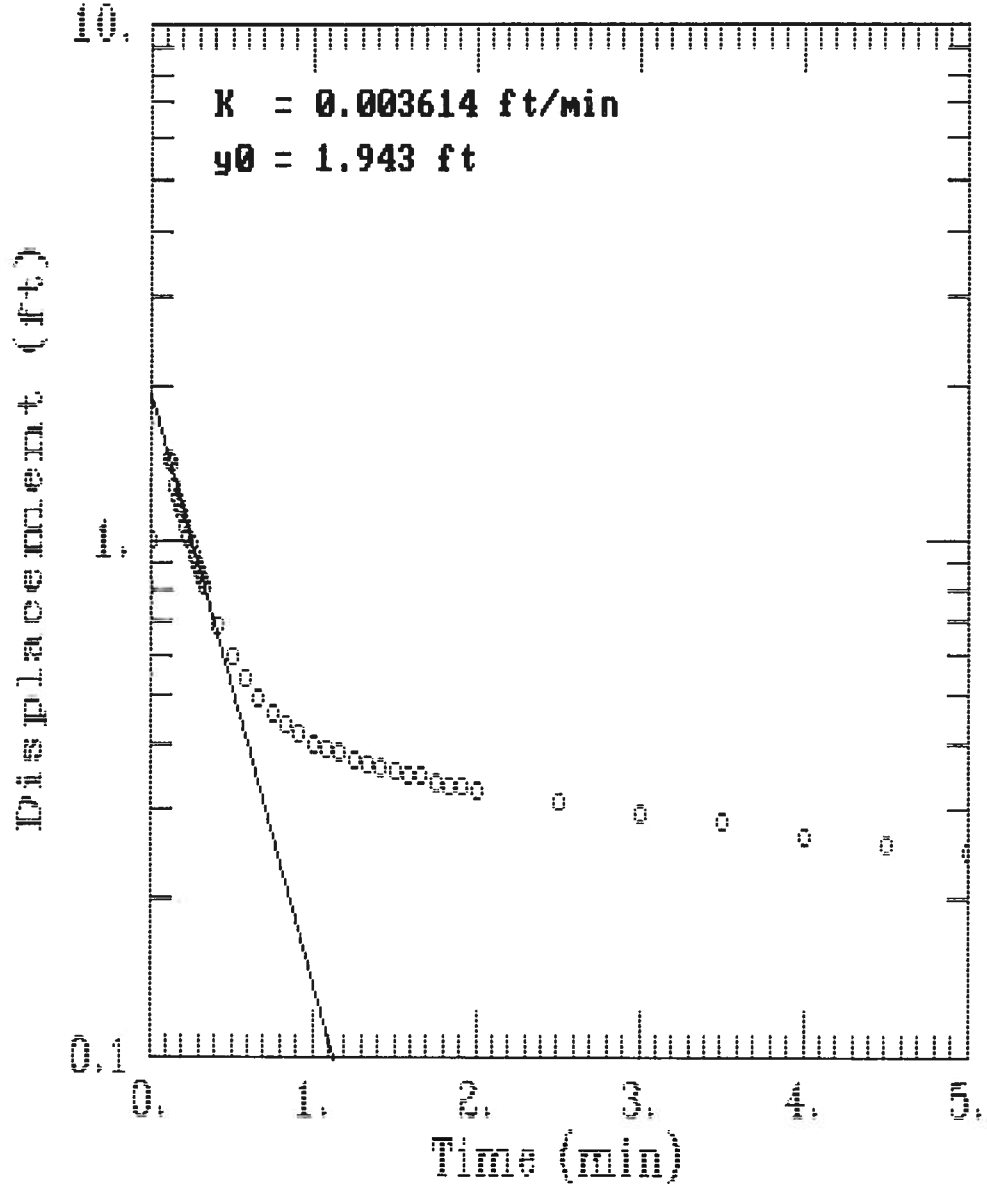

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GERAGHTY & MILLER, INC.

Modeling Group

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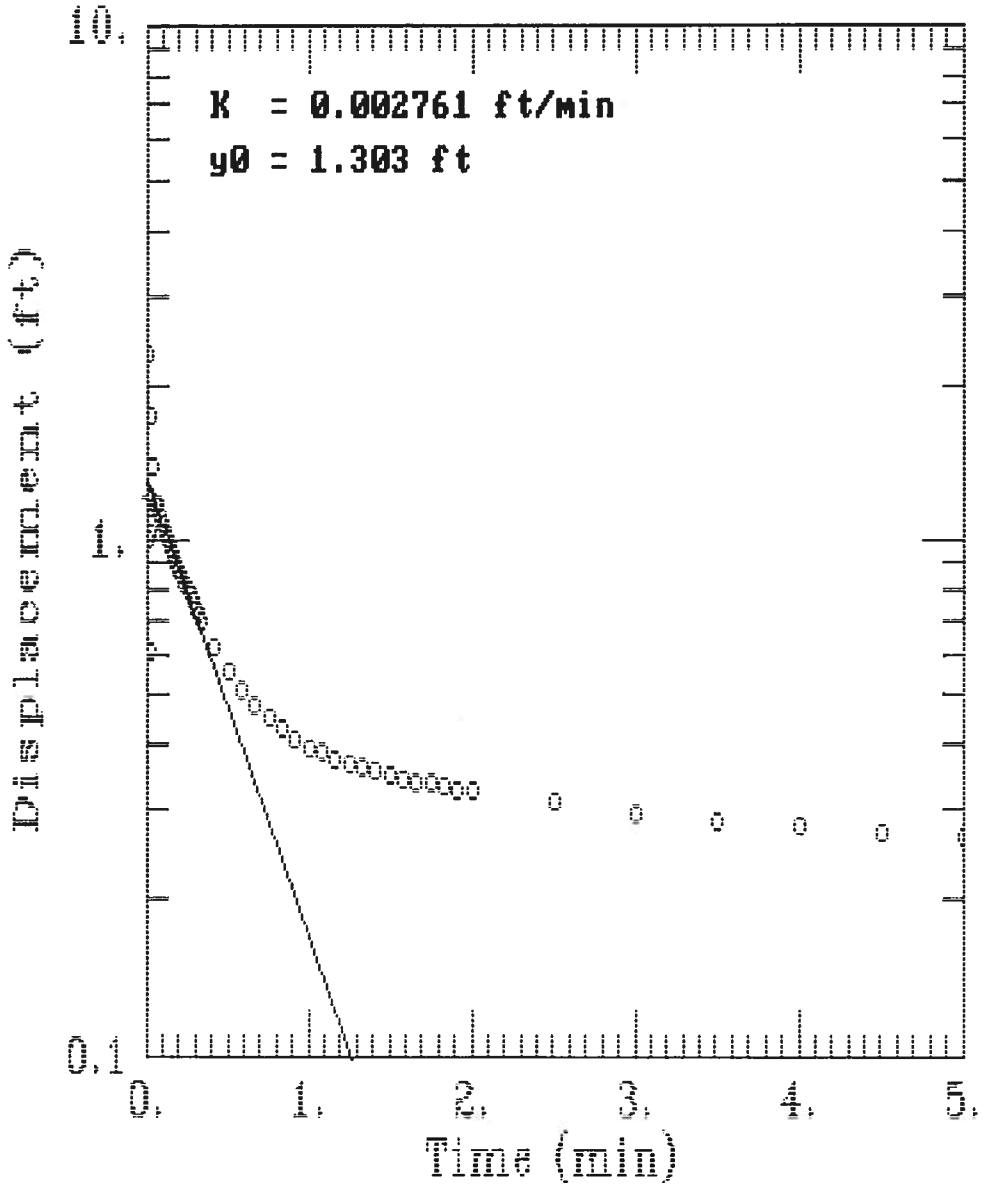

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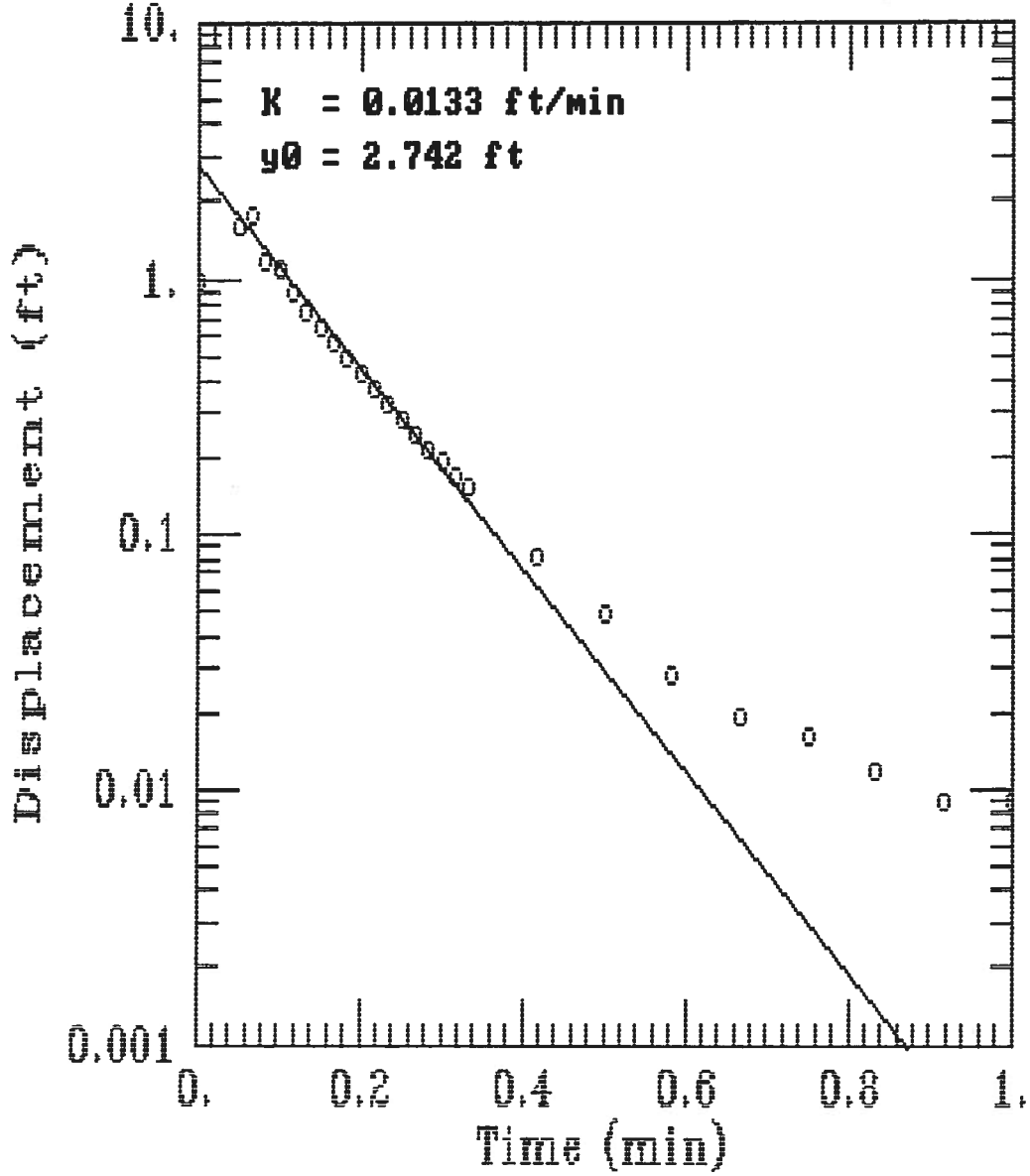
Modeling Group

MPT-2-P-9 RUN #1



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Modeling Group

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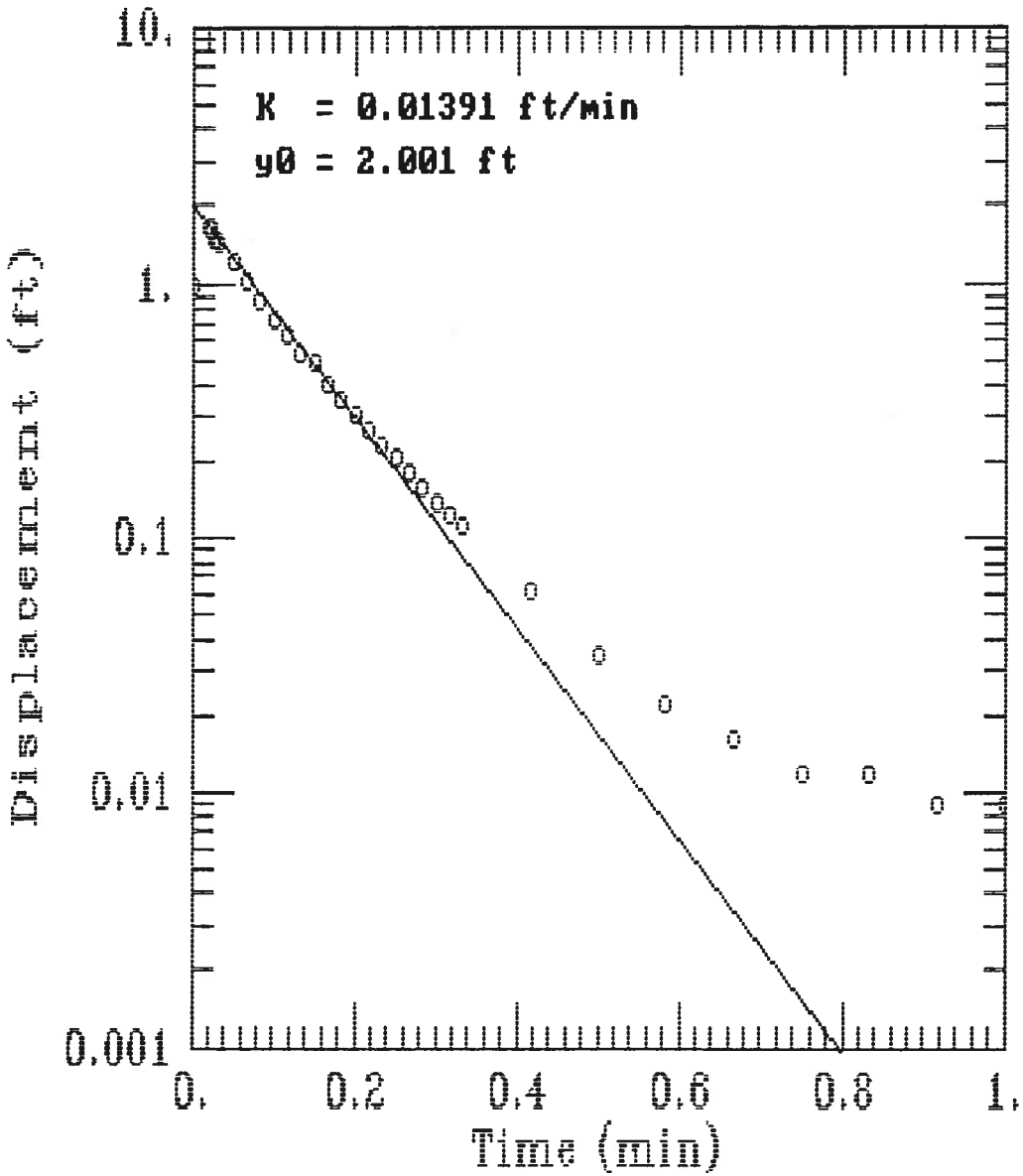

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Modeling Group

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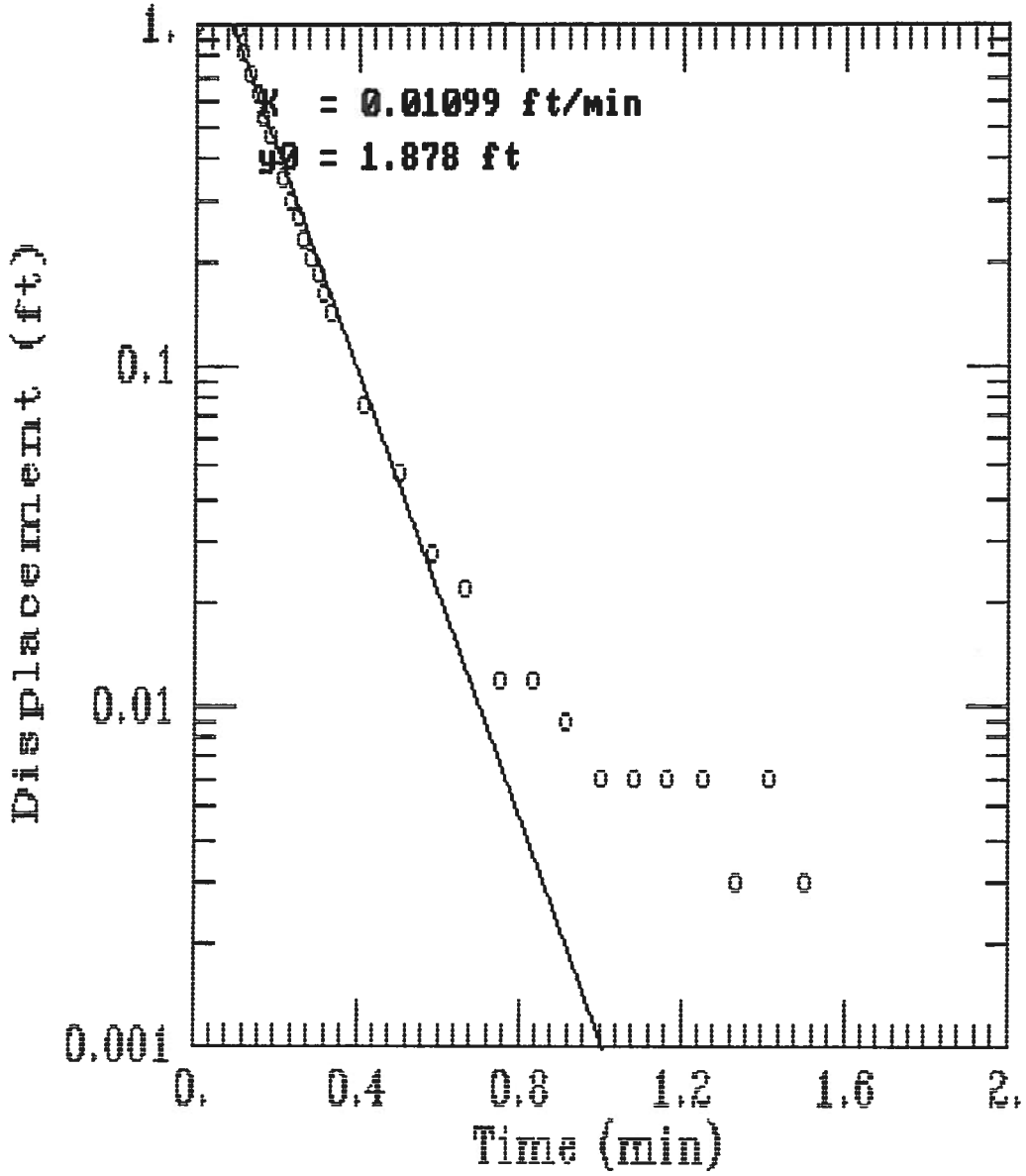

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Modeling Group

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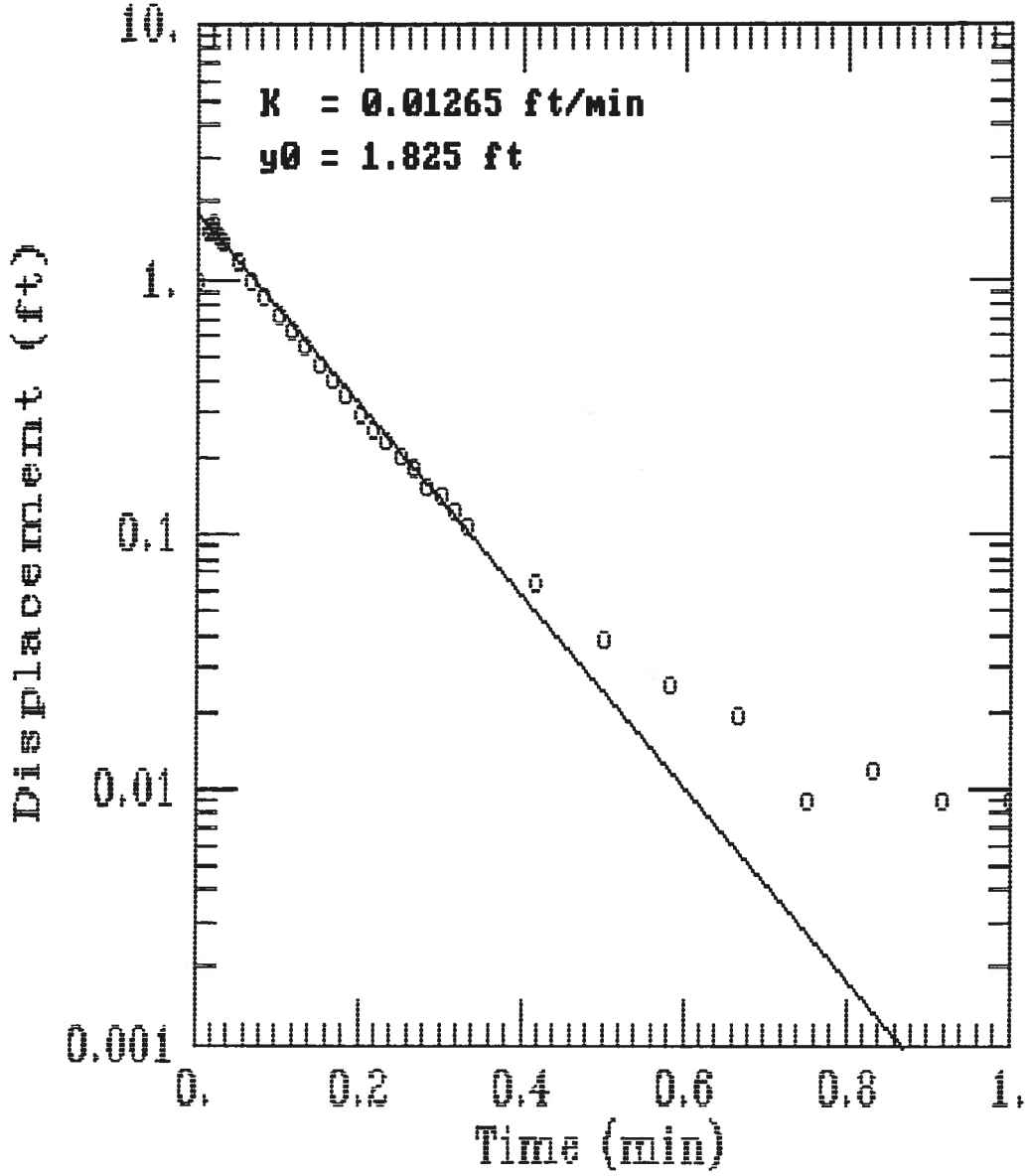

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Modeling Group

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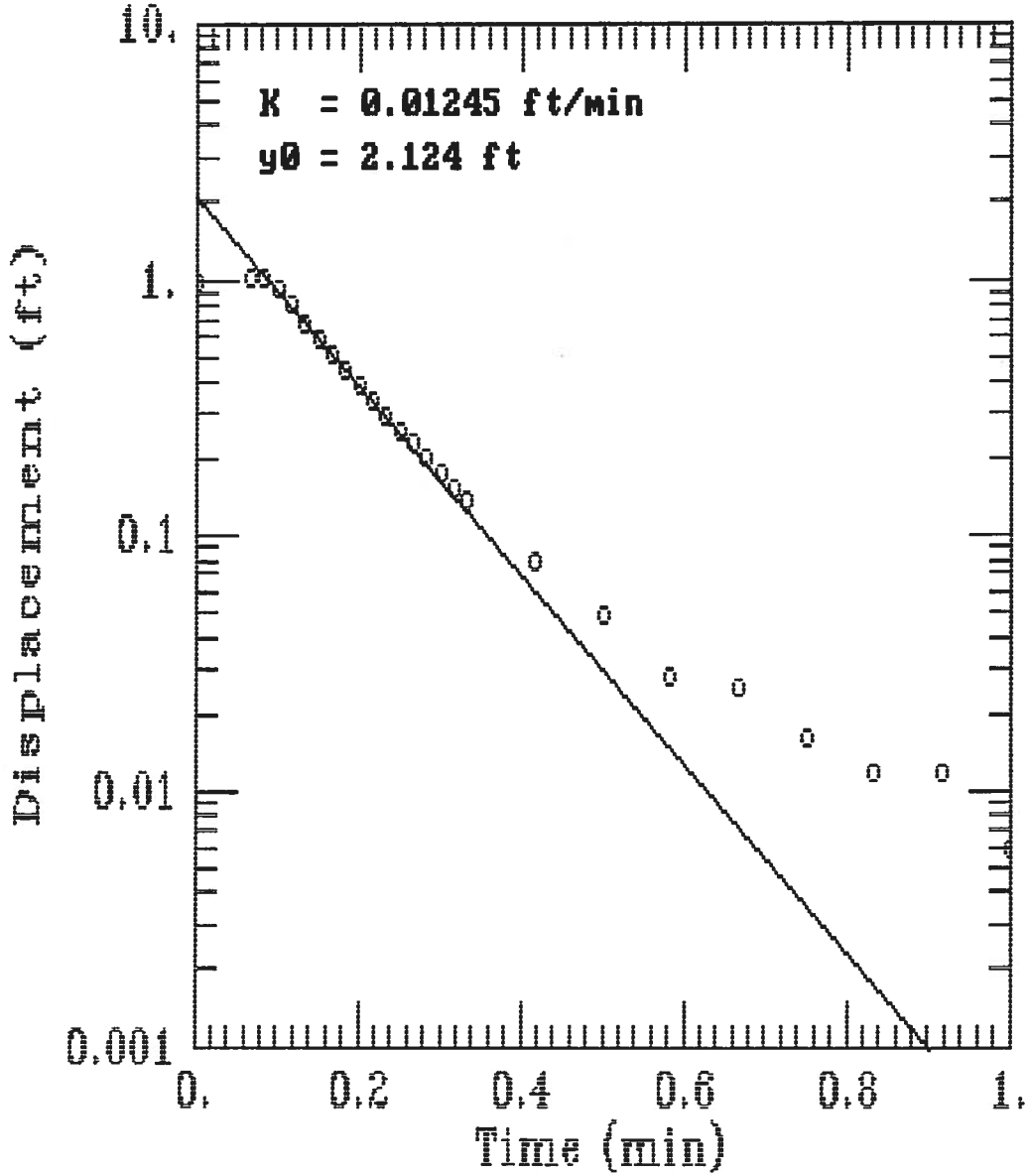

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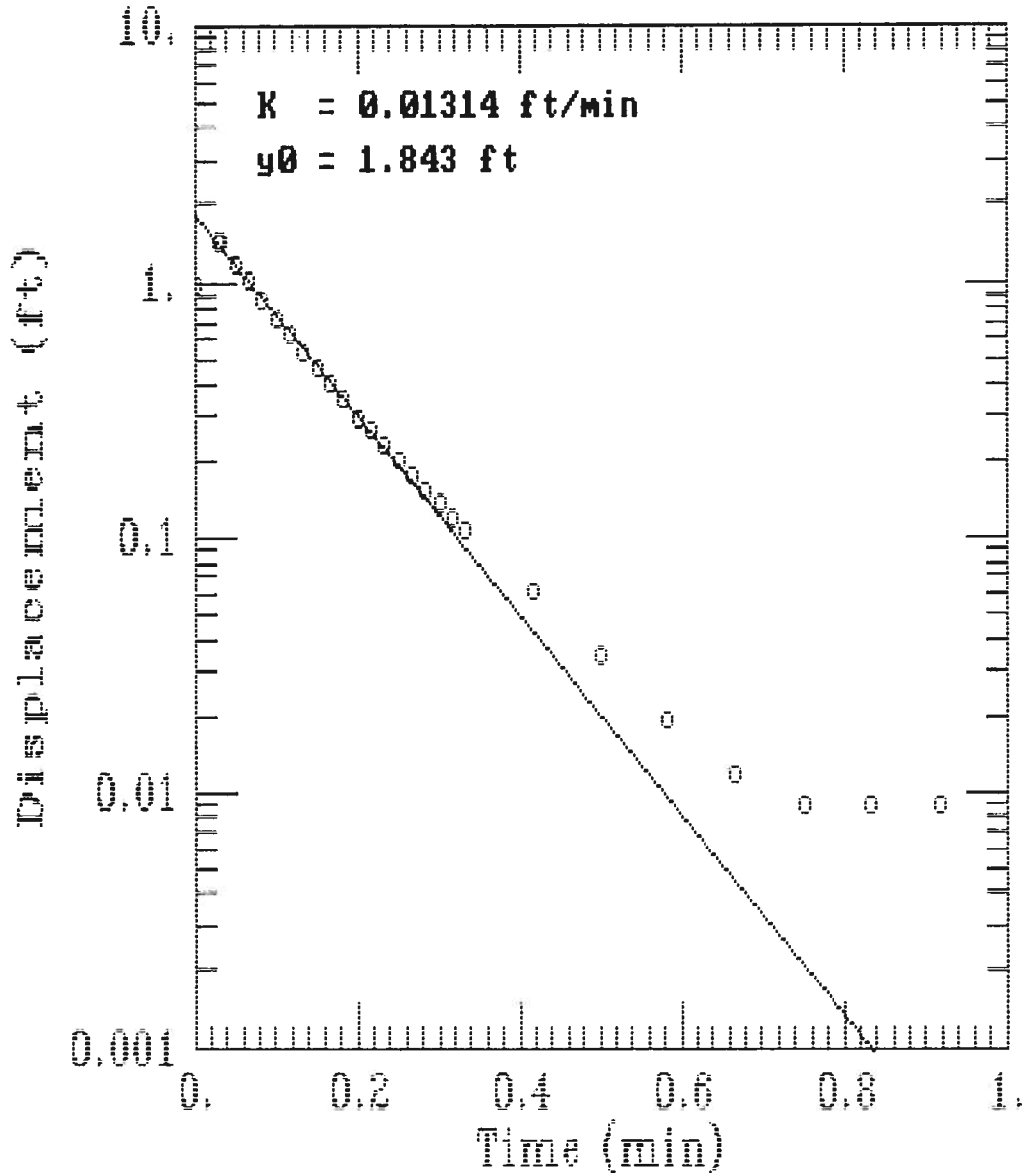
GERAGHTY & MILLER, INC.

Modeling Group

MAYPORT NAVAL STATION MPT 2 P9 S5



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Modeling Group

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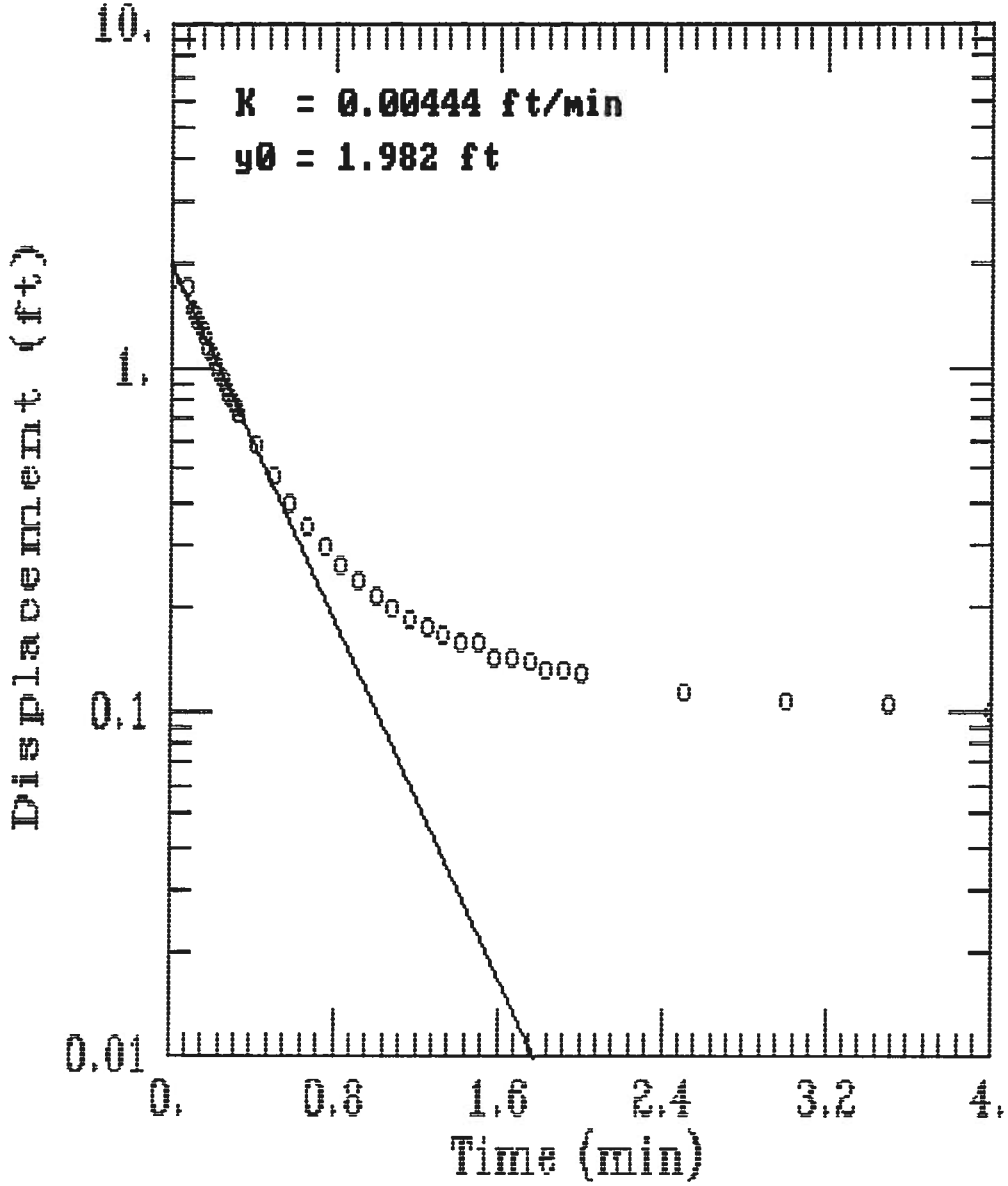

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Modeling Group

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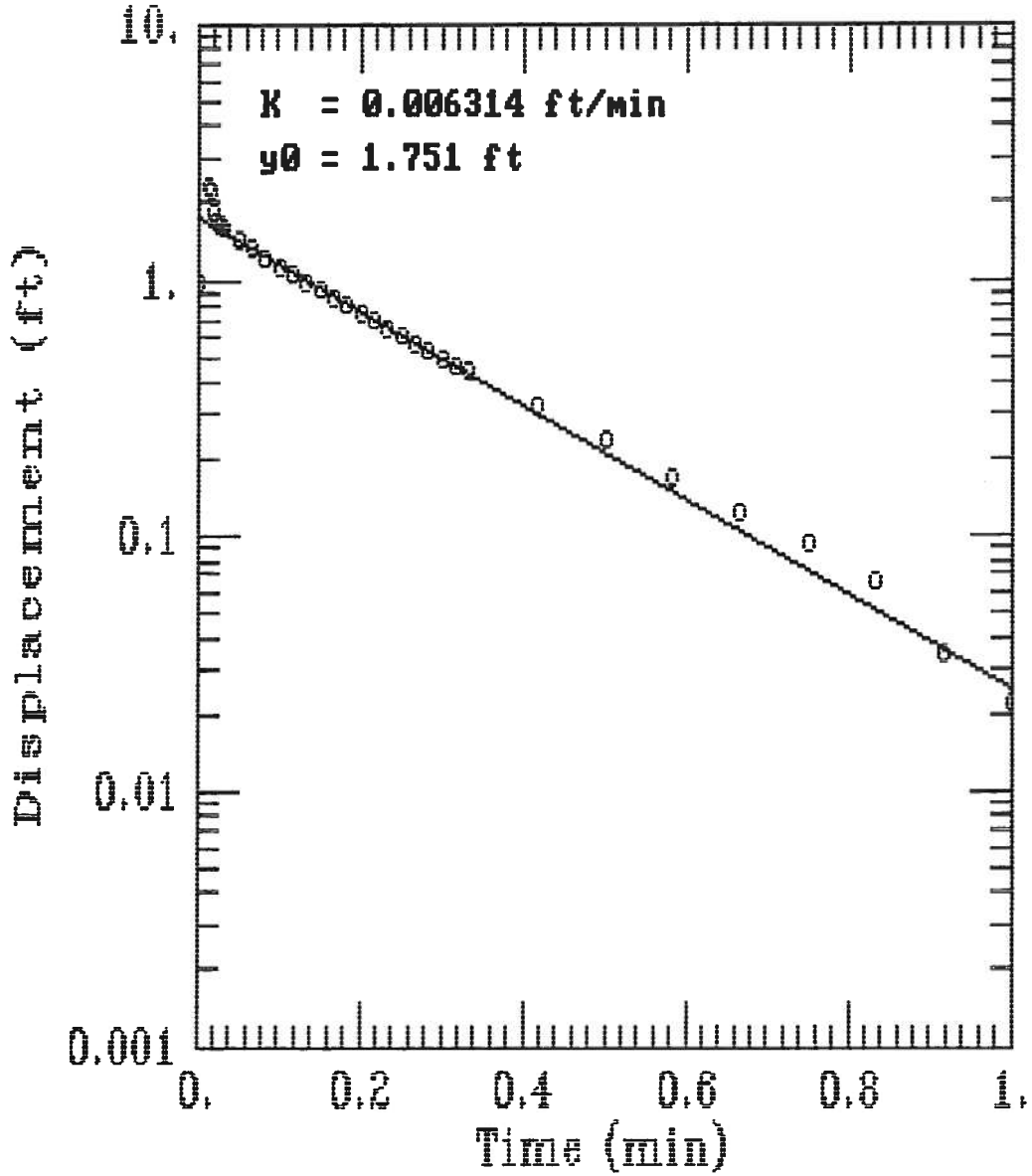

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GERAGHTY & MILLER, INC.

Modeling Group

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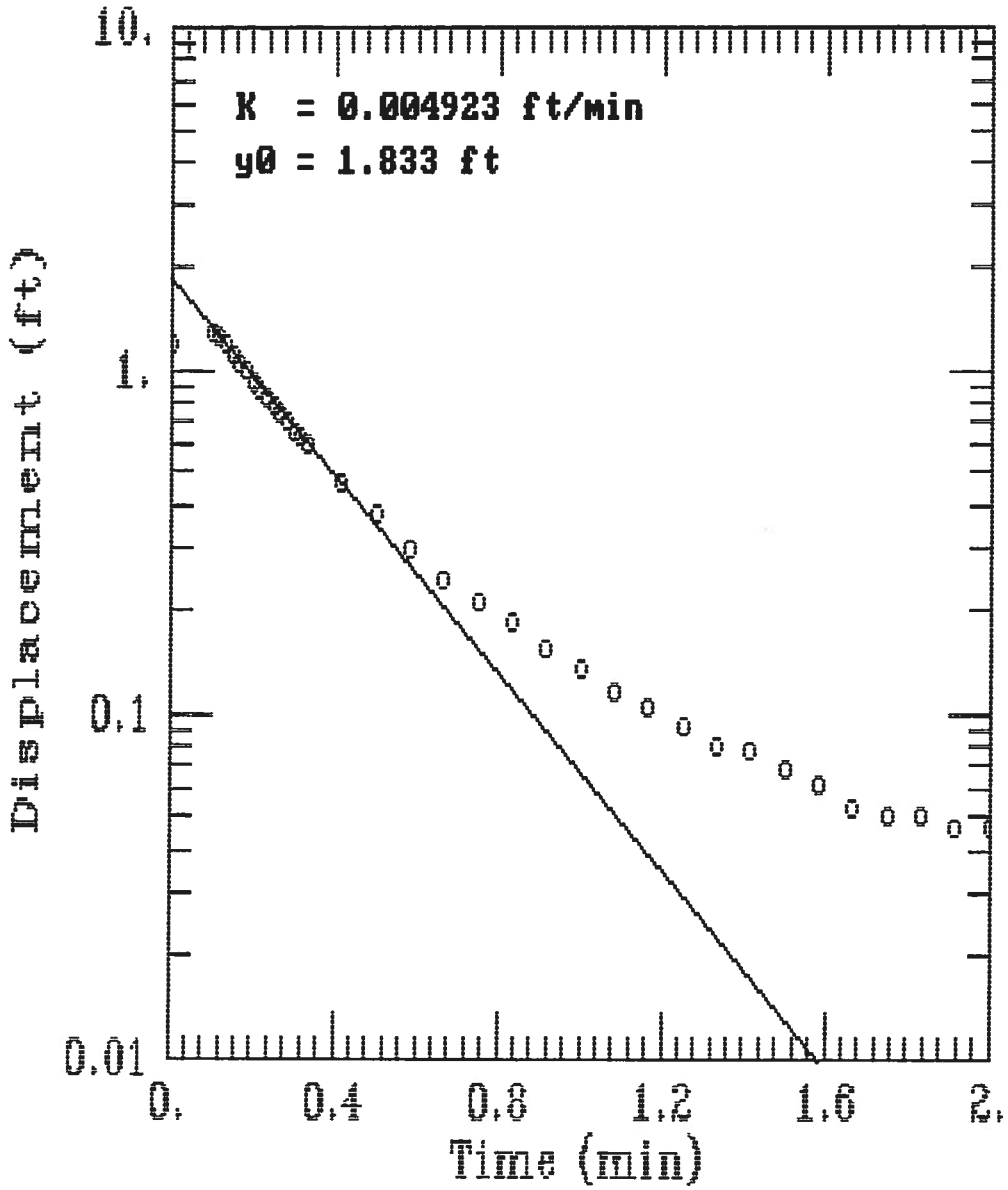

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GERAGHTY & MILLER, INC.

Modeling Group

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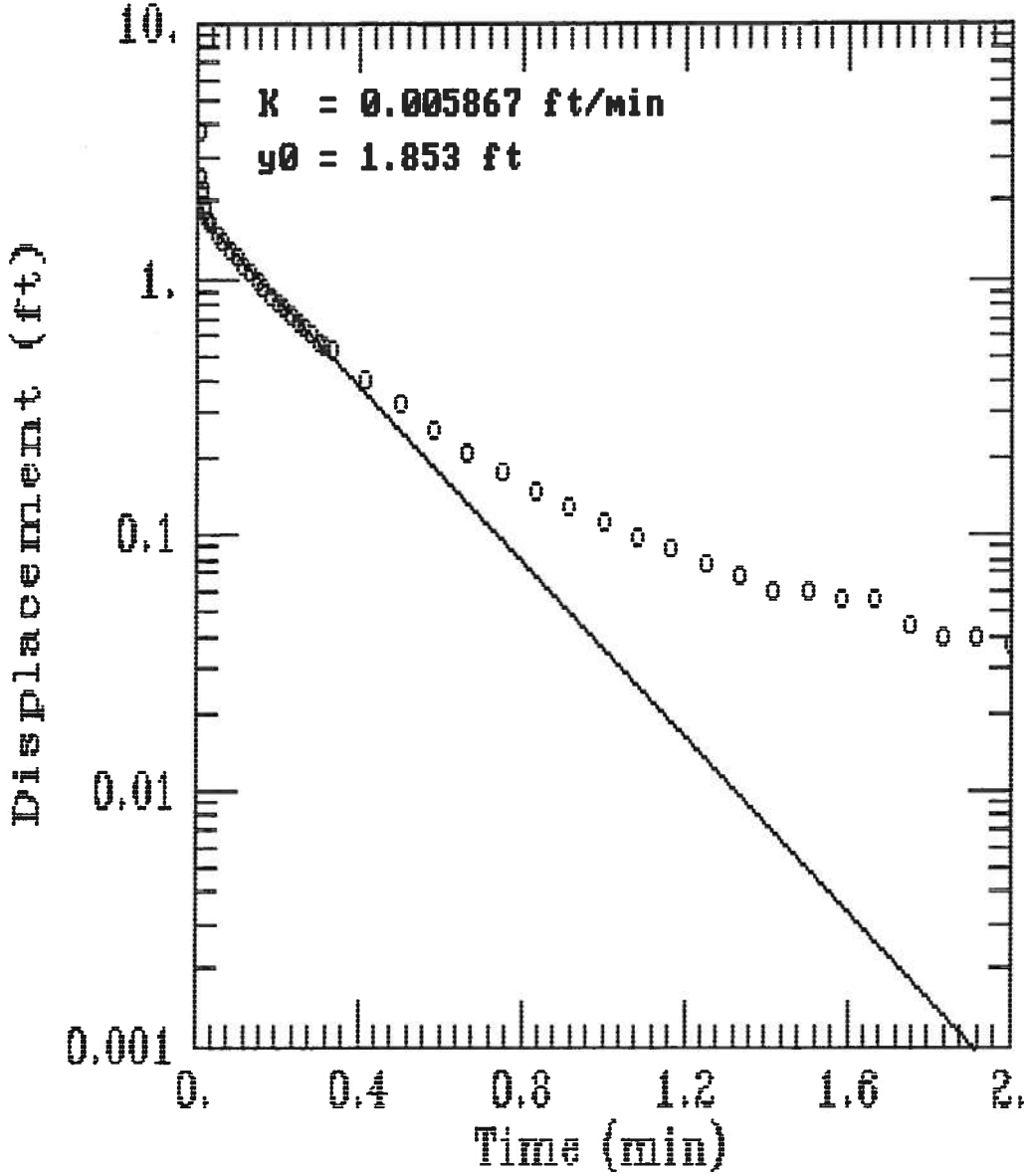

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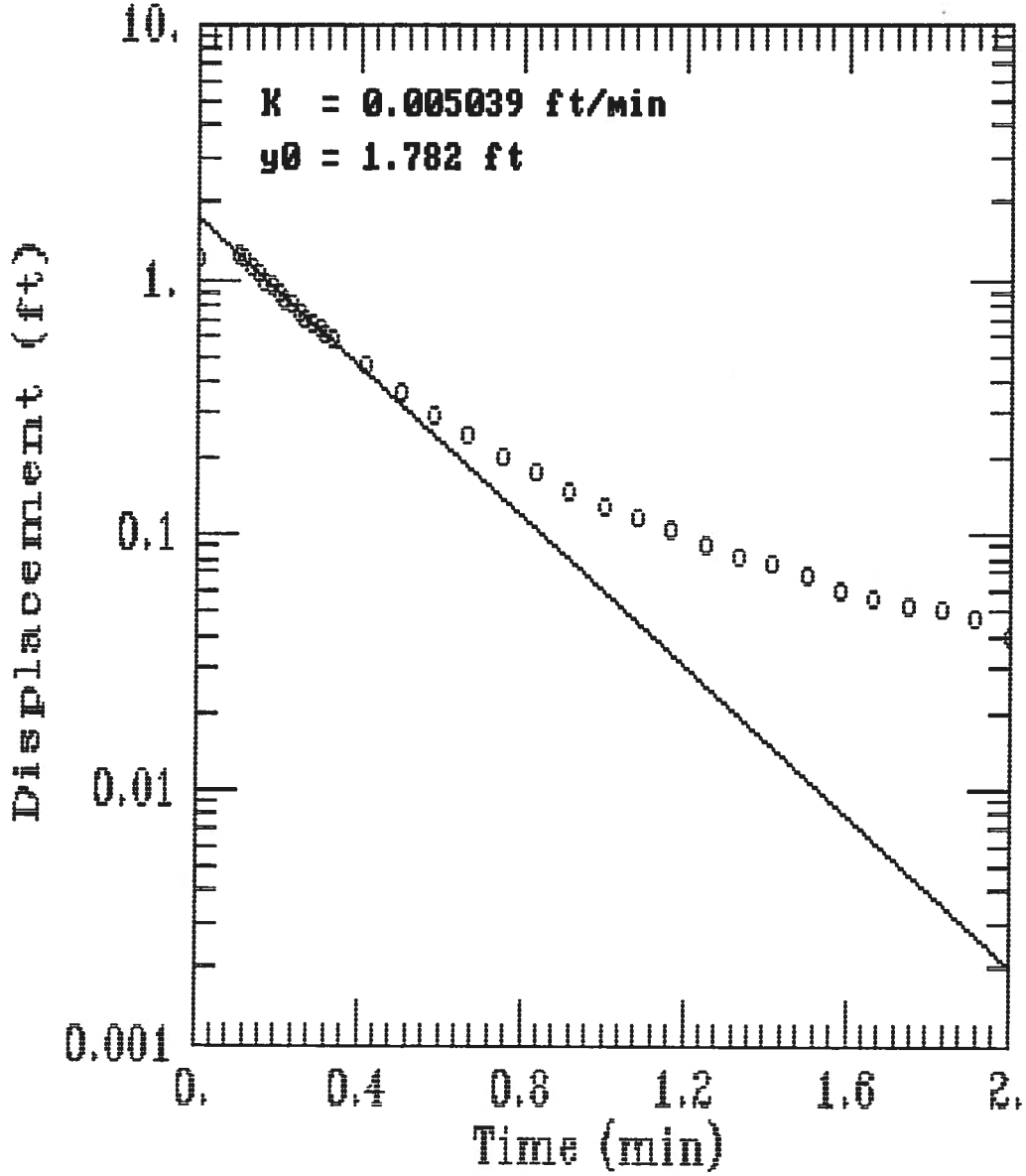

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Modeling Group

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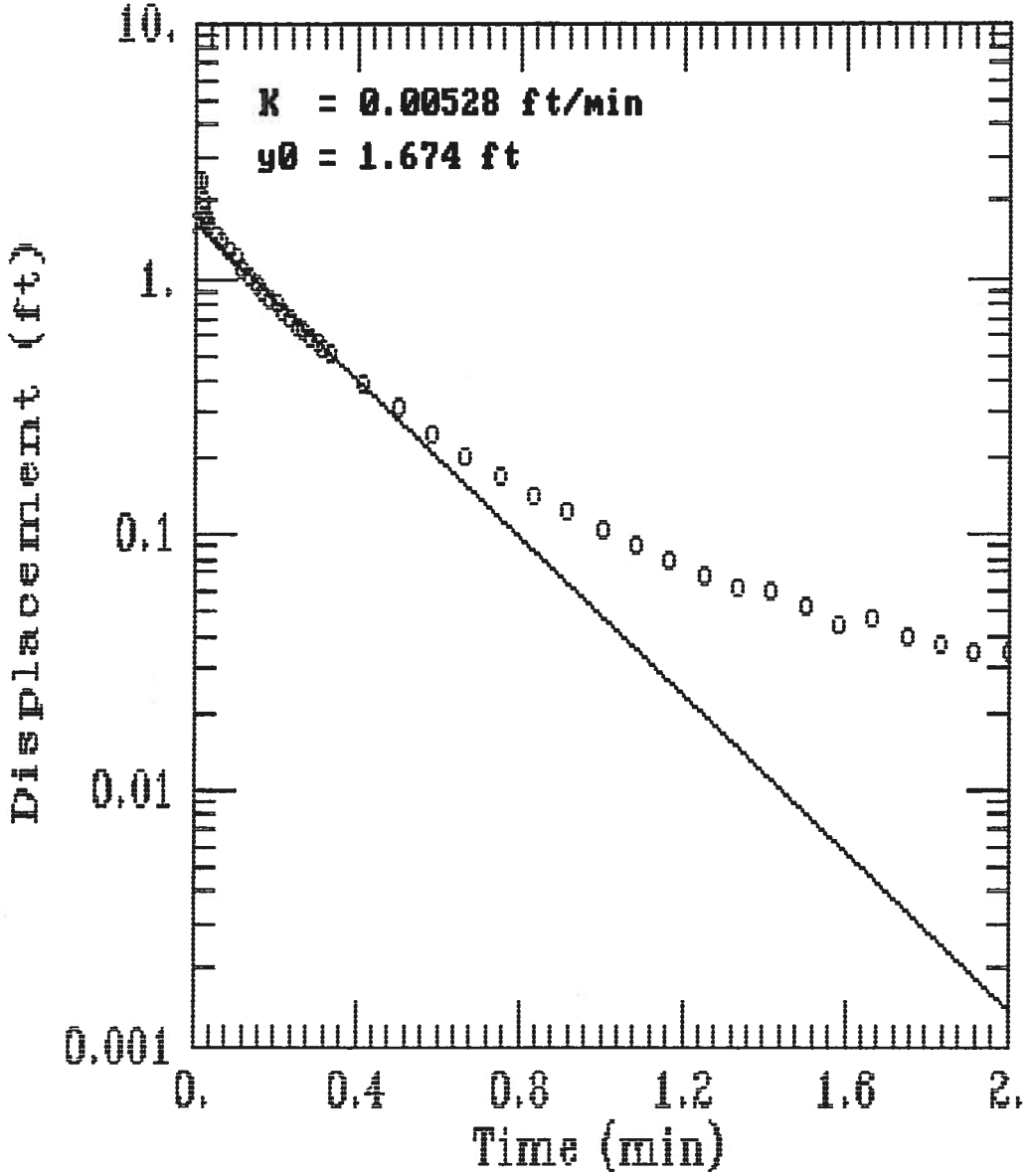

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GERAGHTY & MILLER, INC.

Modeling Group

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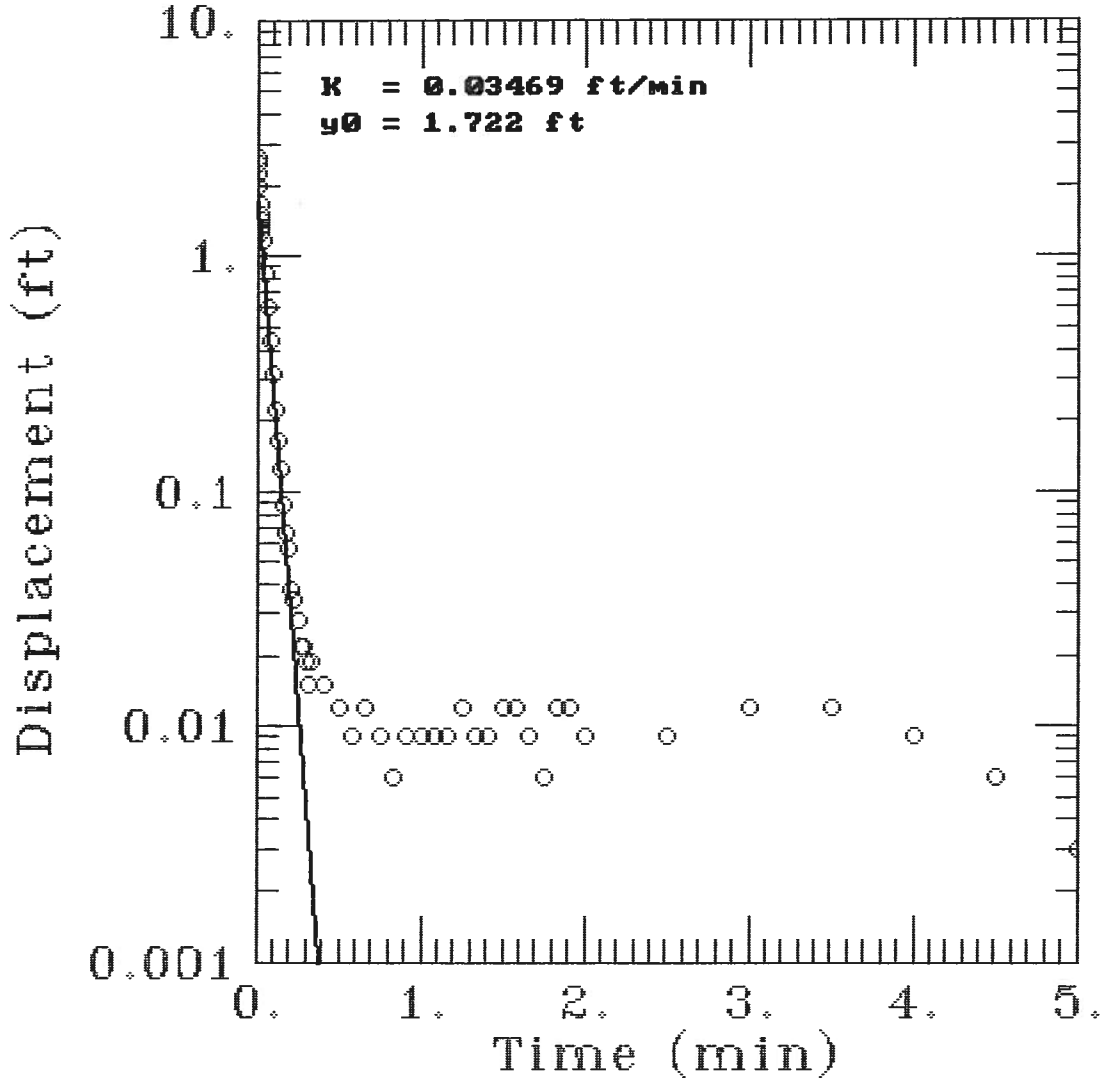

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Modeling Group

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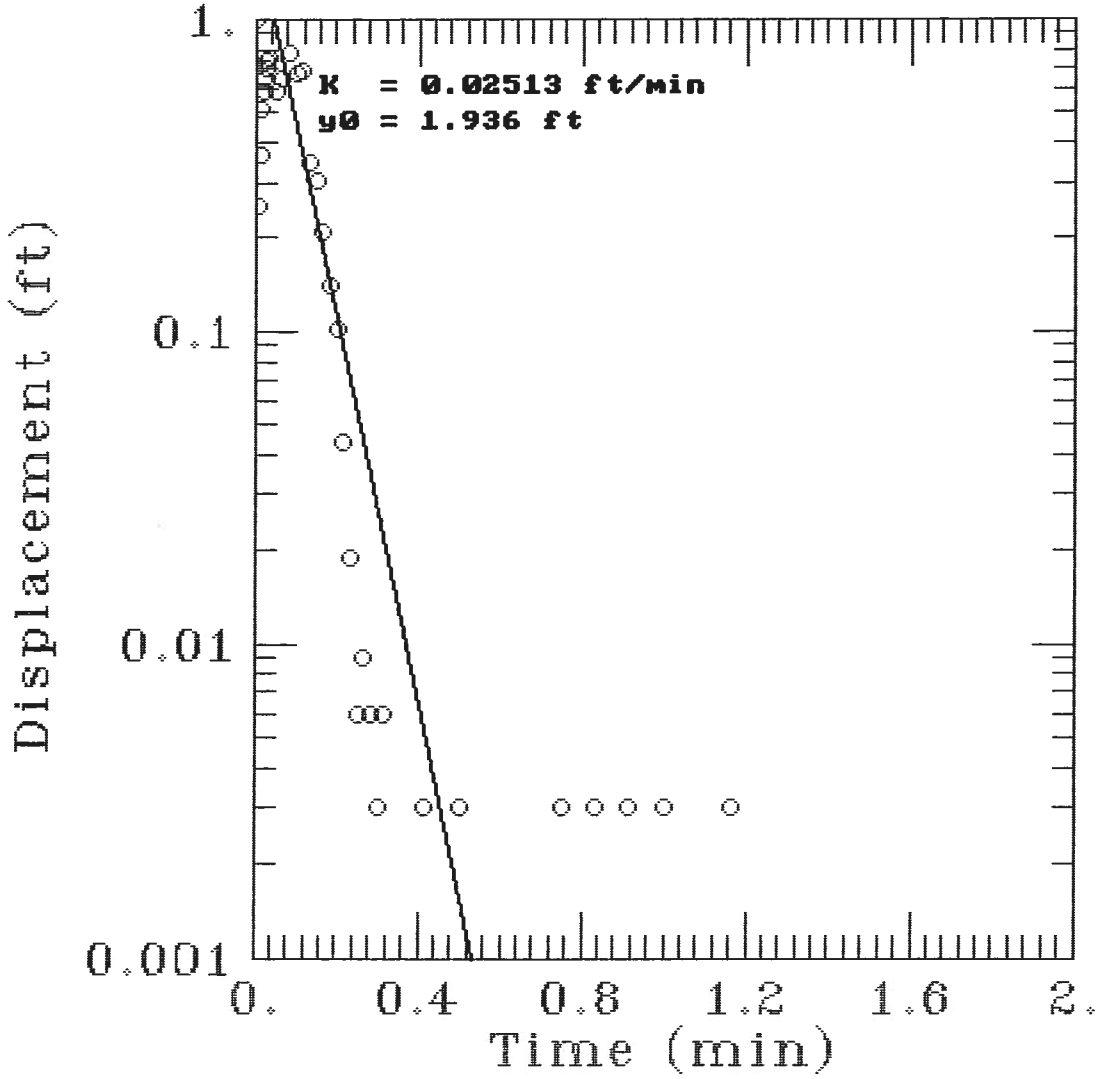

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Modeling Group

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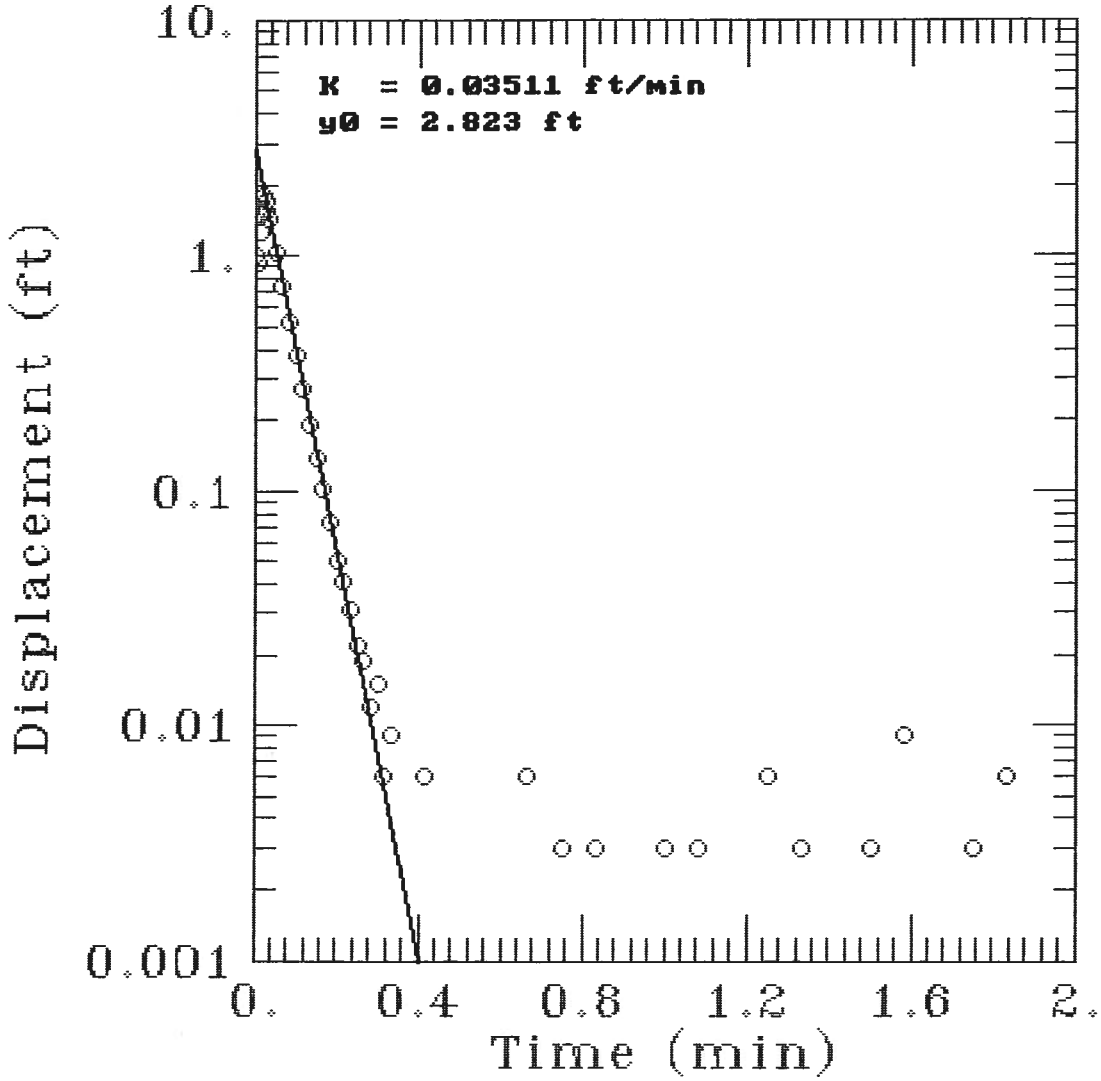

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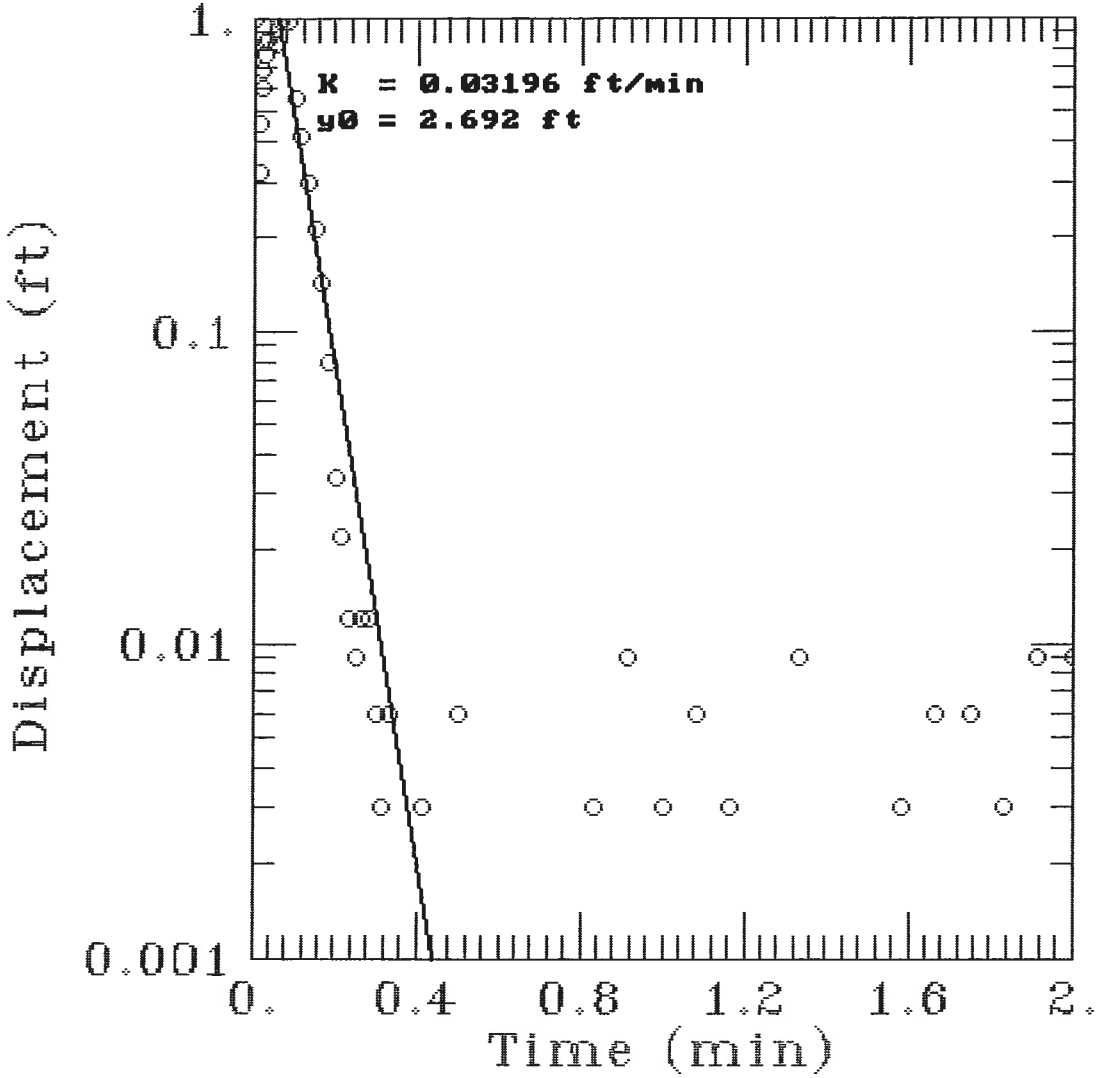

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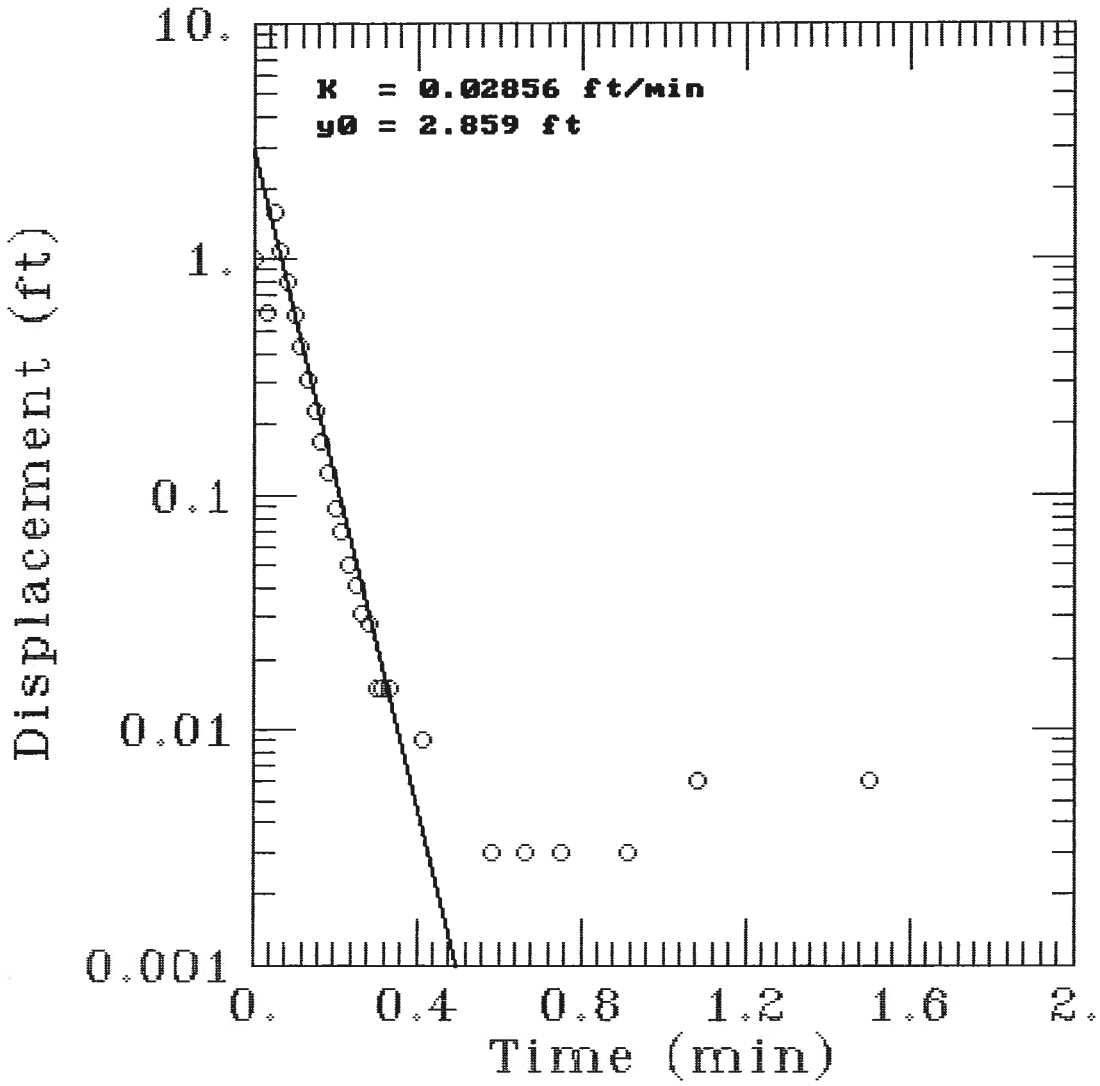

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Modeling Group

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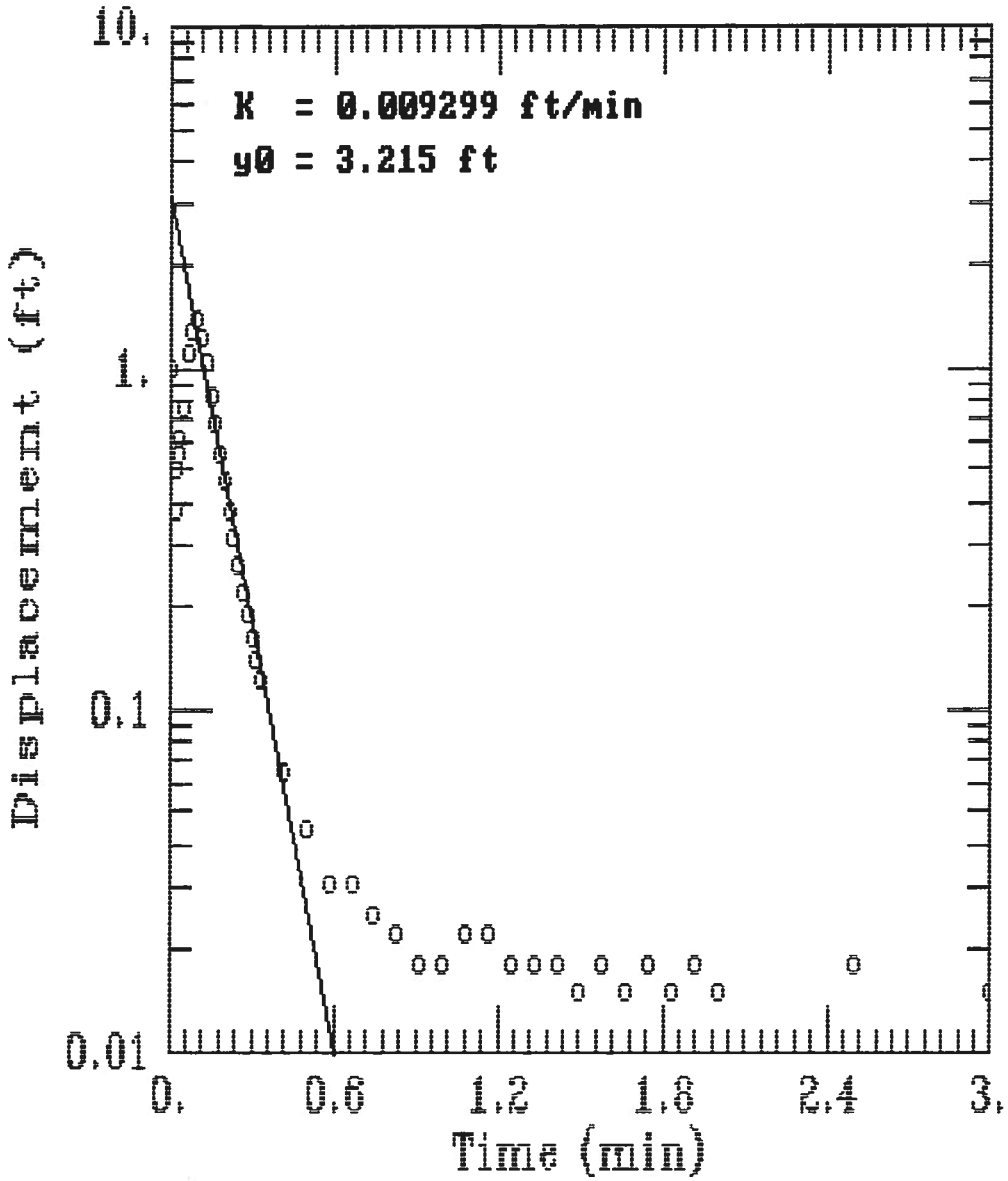

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GERAGHTY & MILLER, INC.

Modeling Group

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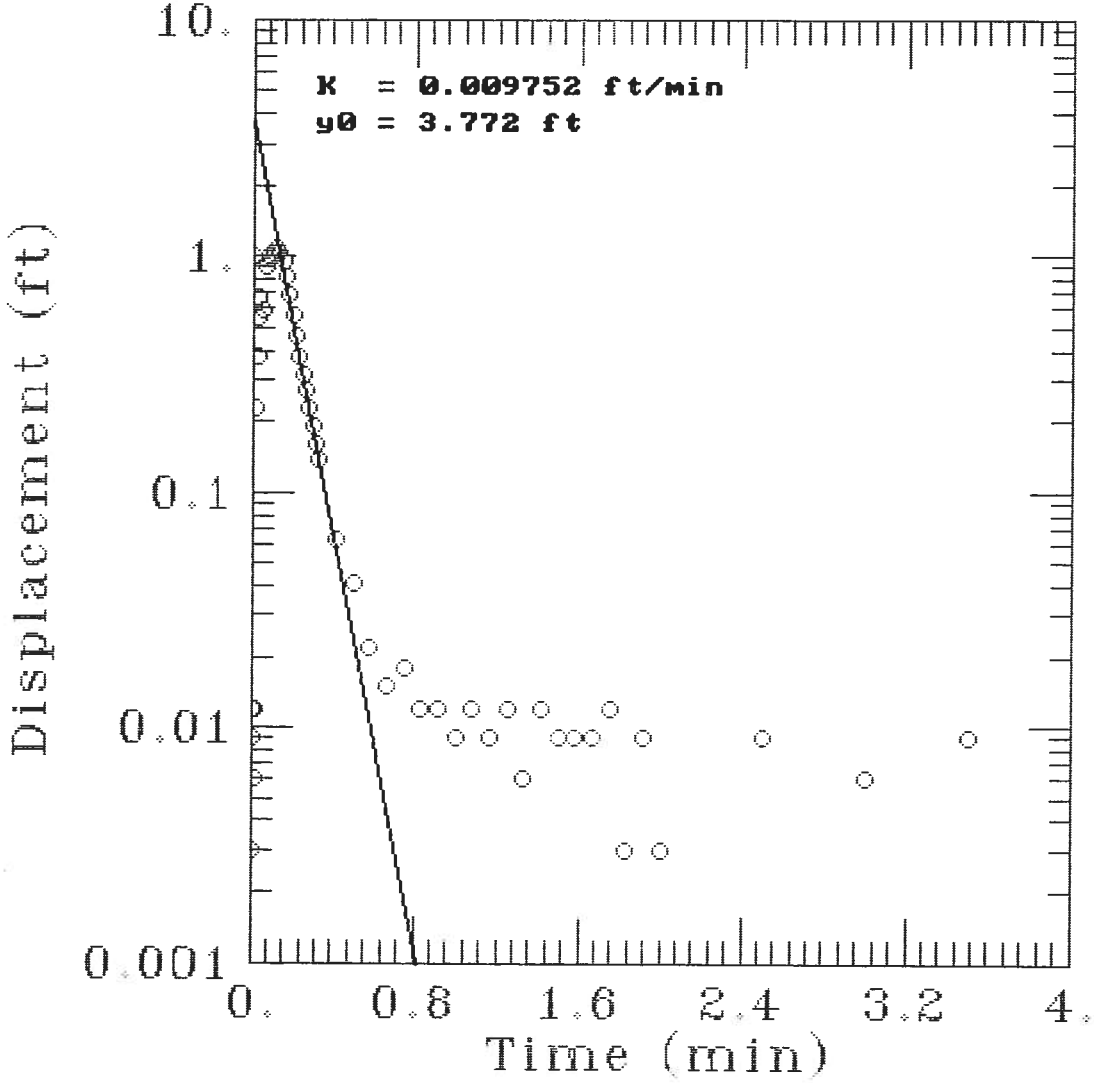

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GERAGHTY & MILLER, INC.

Modeling Group

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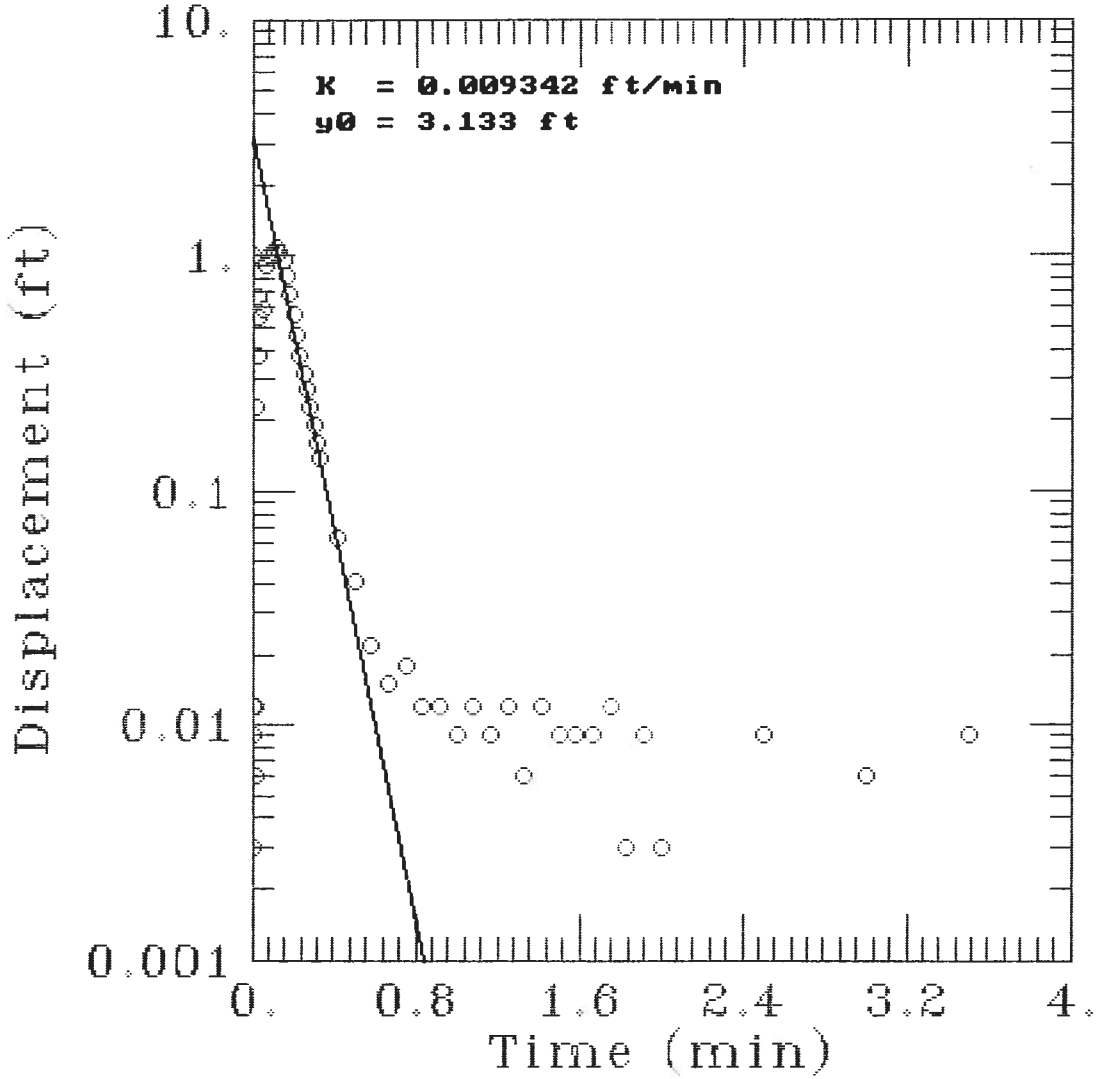

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Modeling Group

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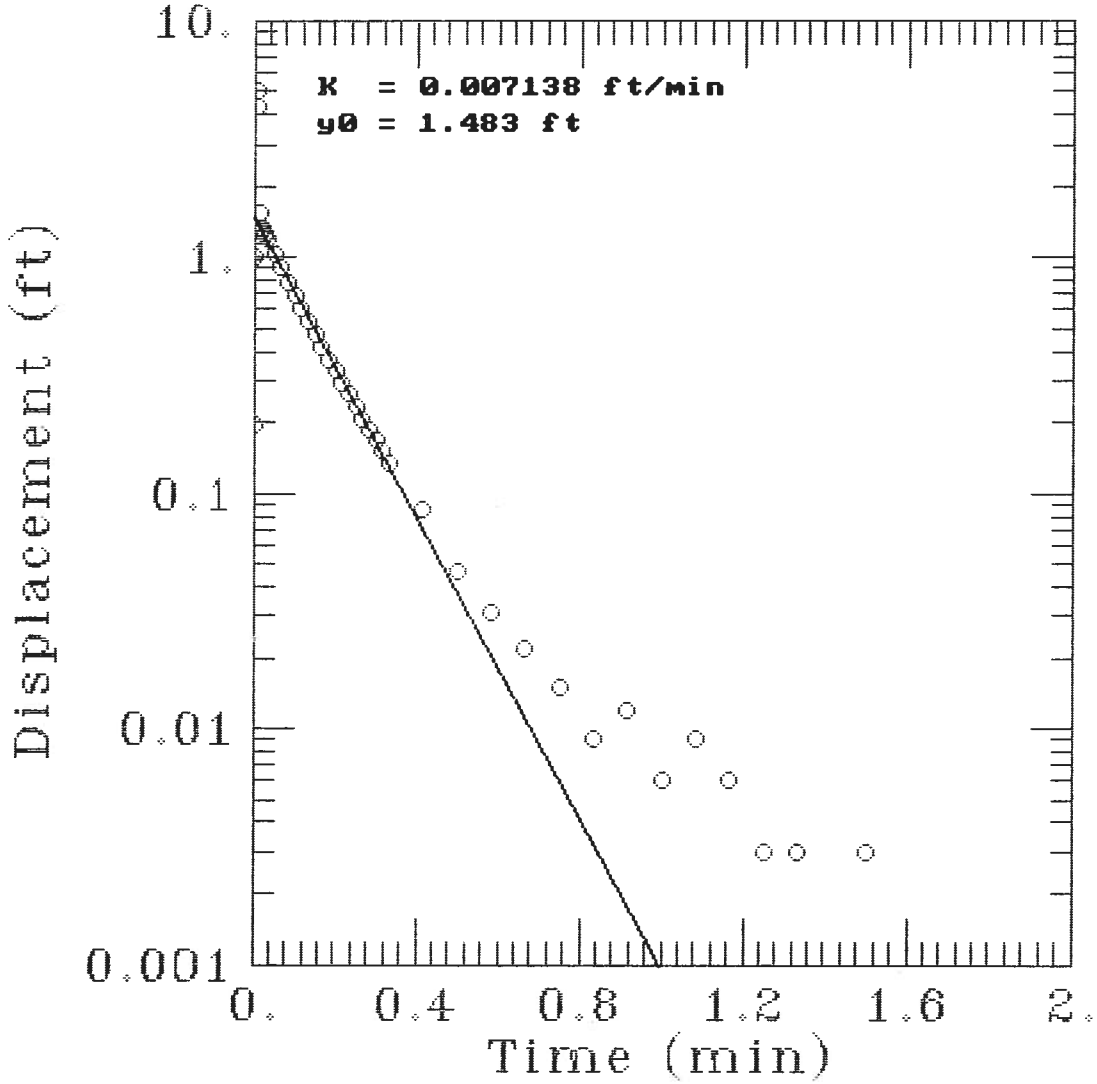

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Modeling Group

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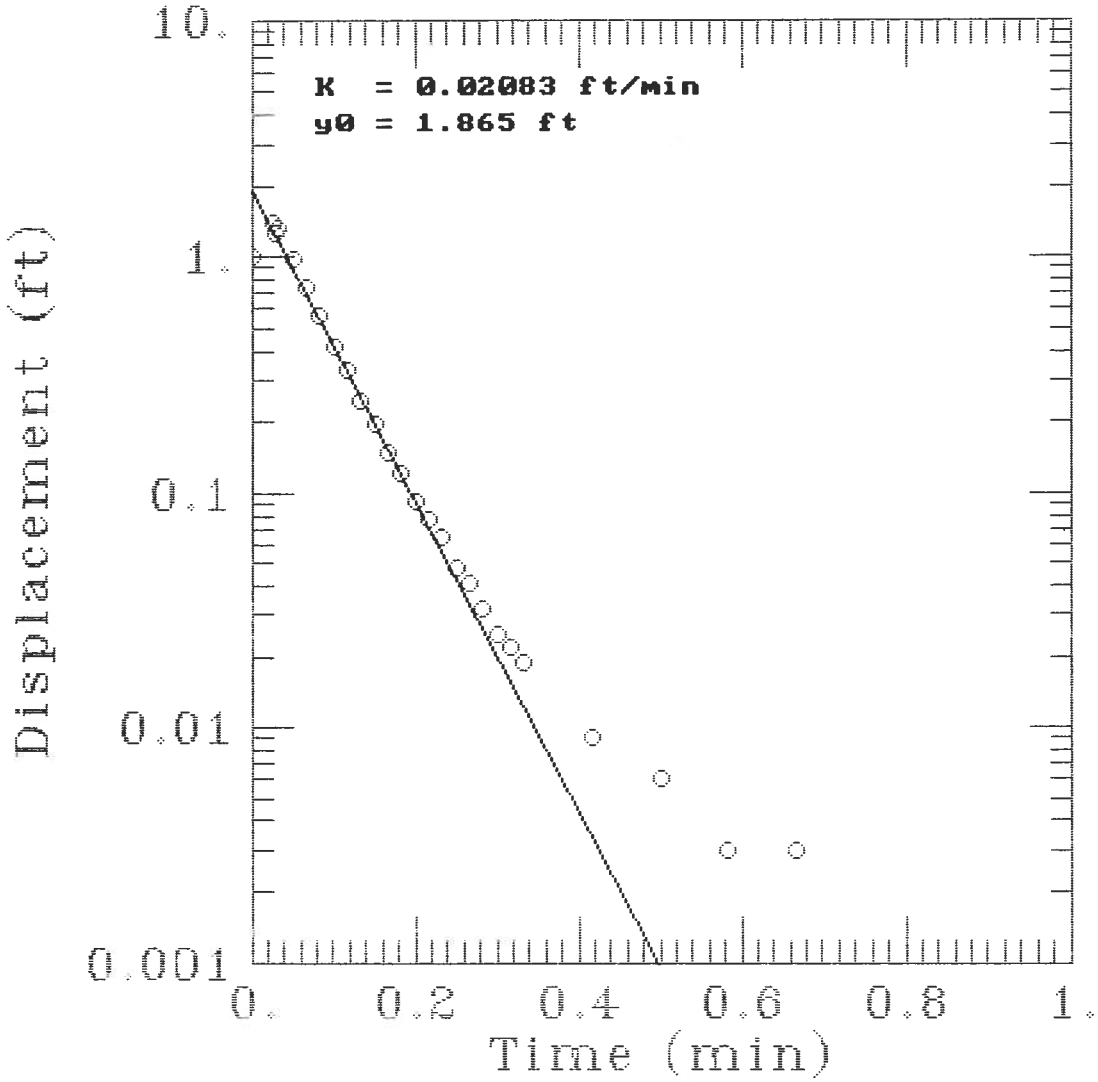

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Modeling Group

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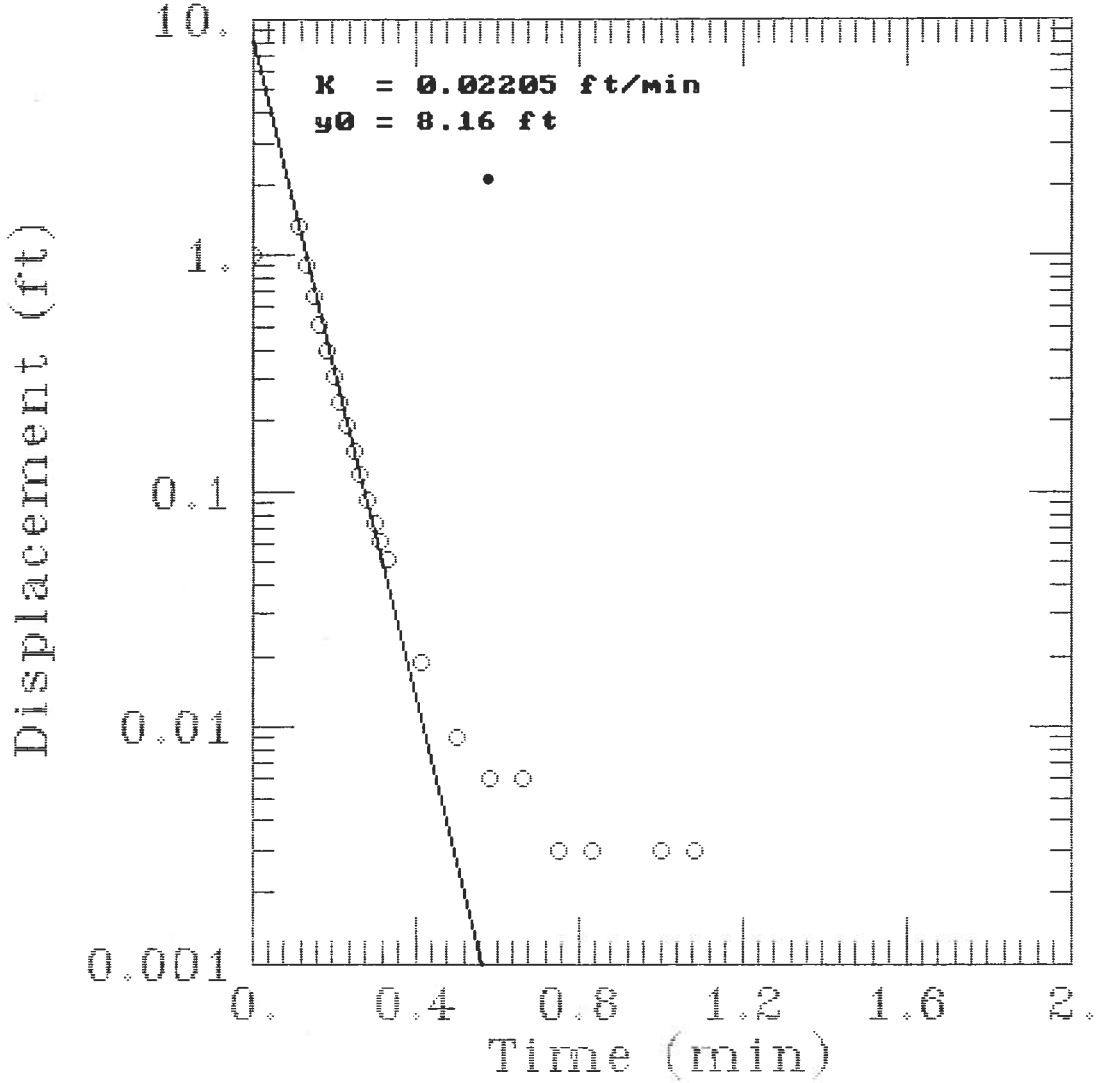

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Modeling Group

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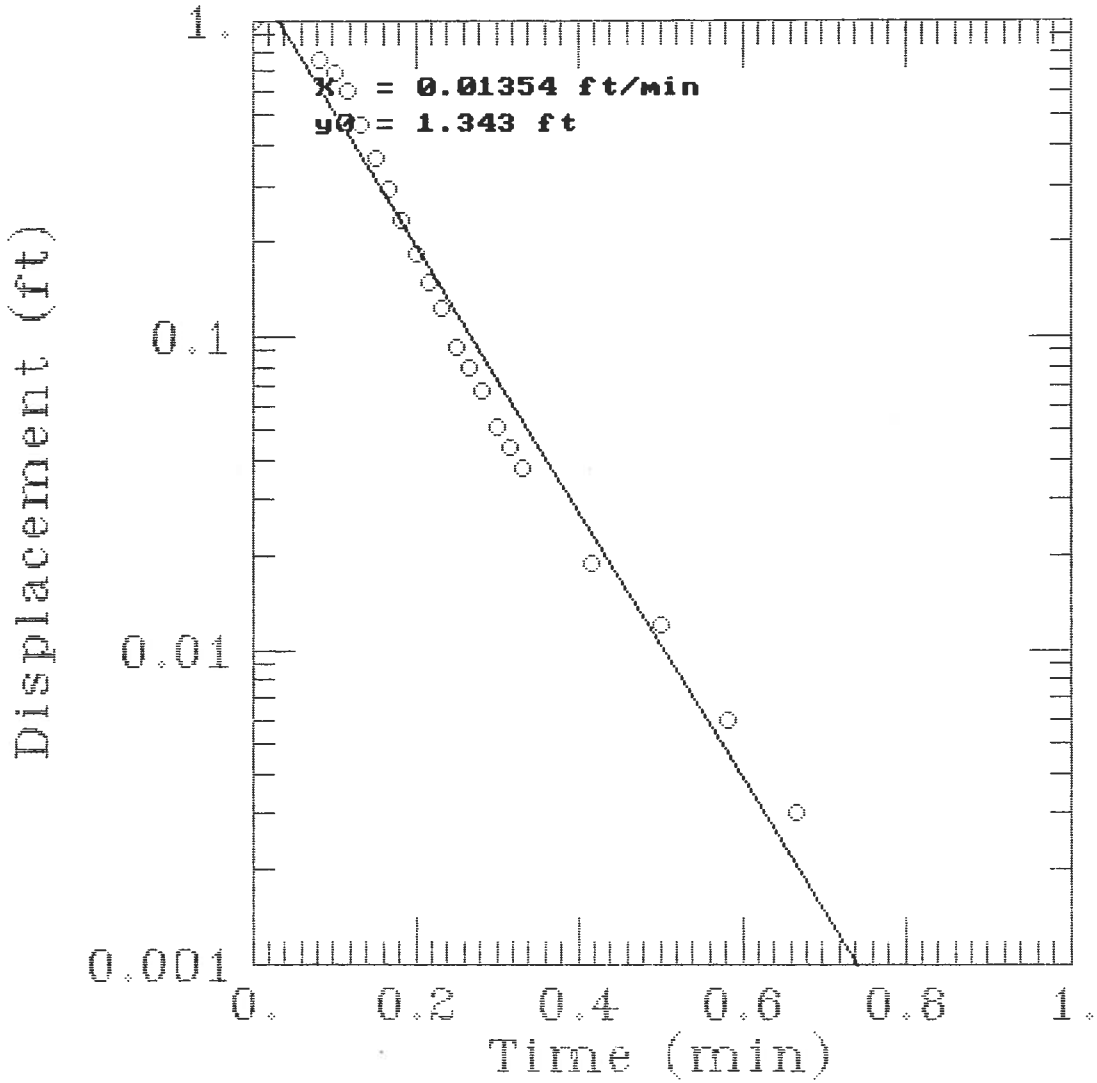

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Modeling Group

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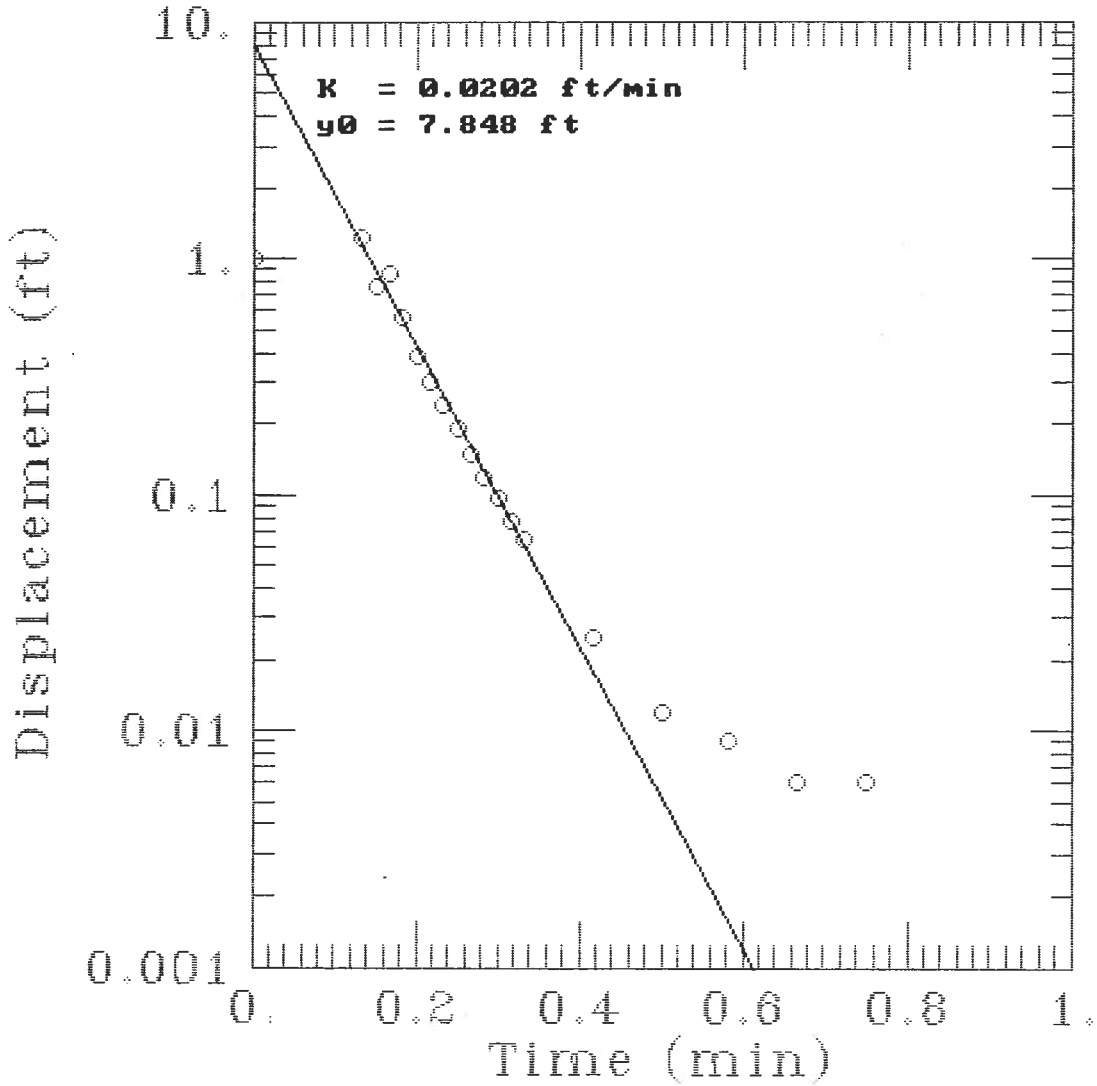

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Modeling Group

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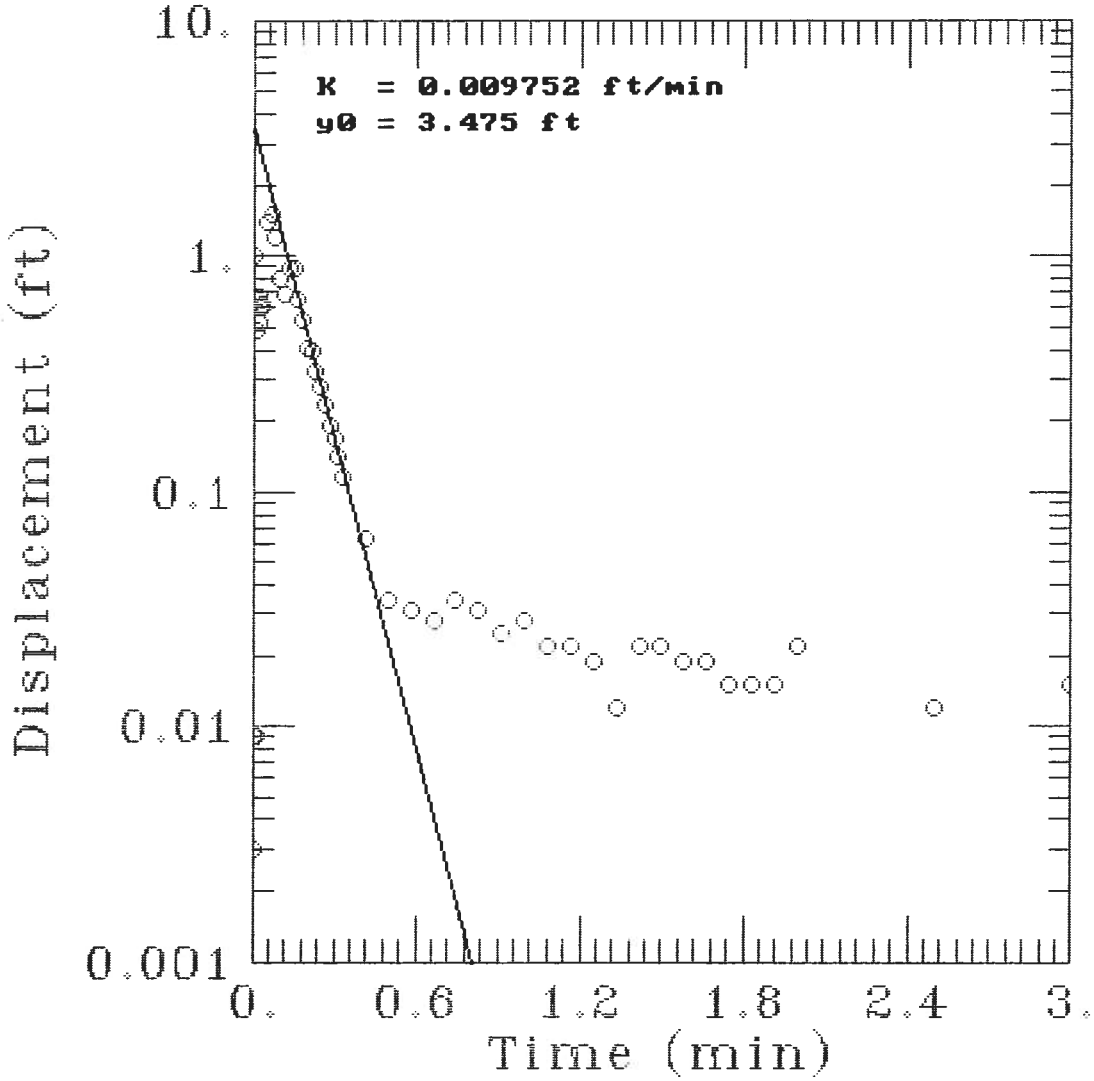

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GERAGHTY & MILLER, INC.

Modeling Group

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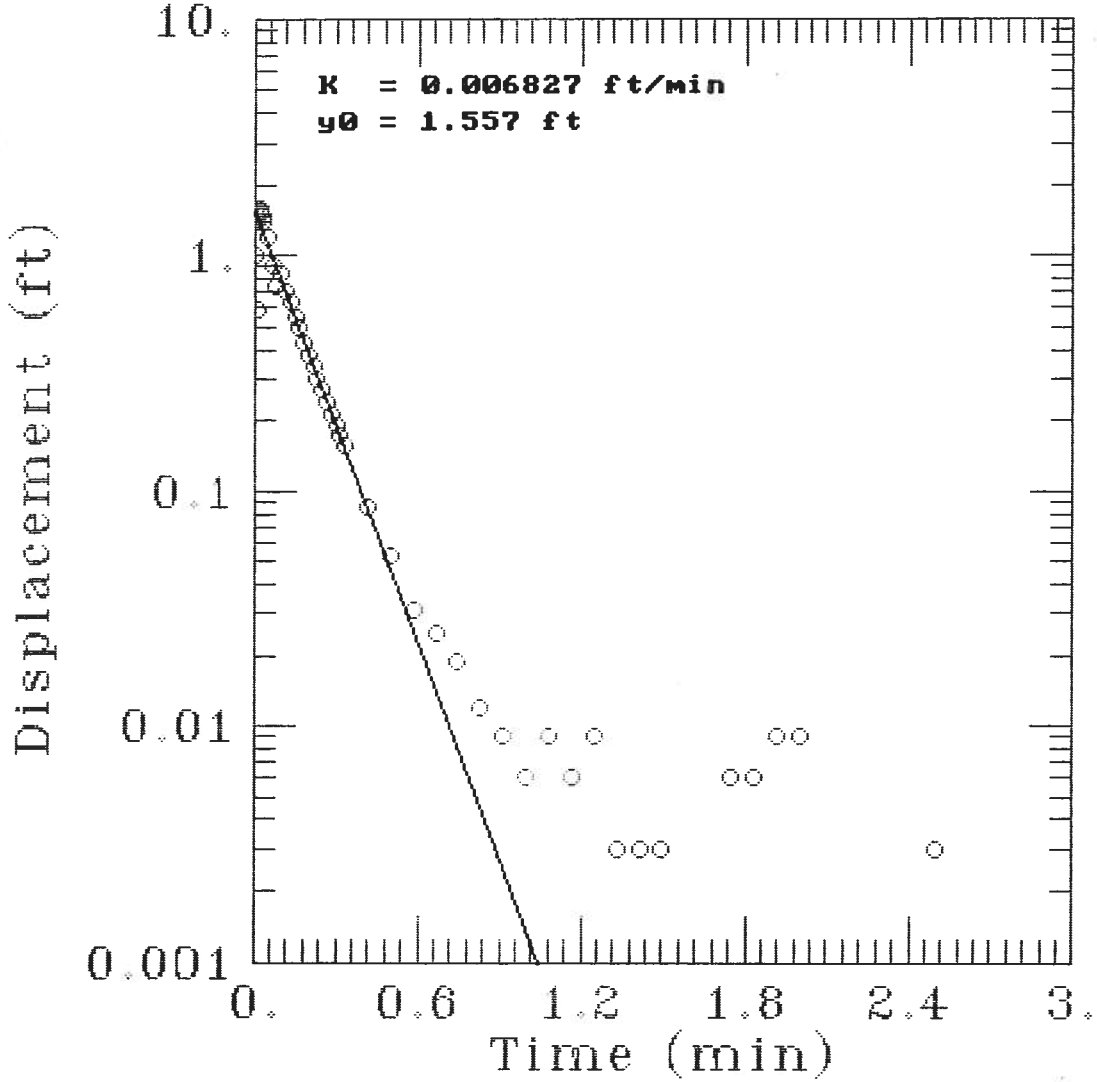

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GERAGHTY & MILLER, INC.

Modeling Group

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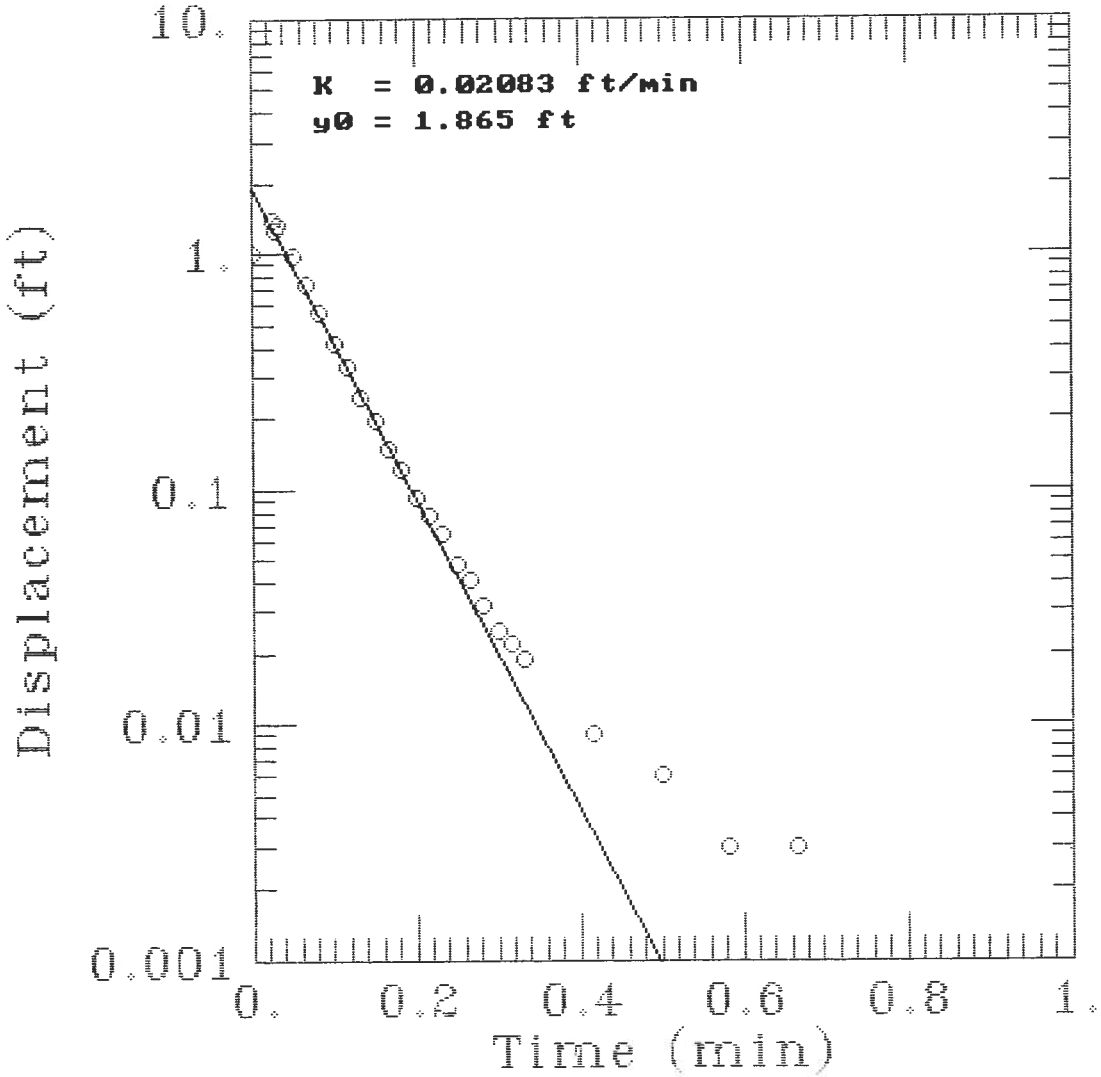

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Modeling Group

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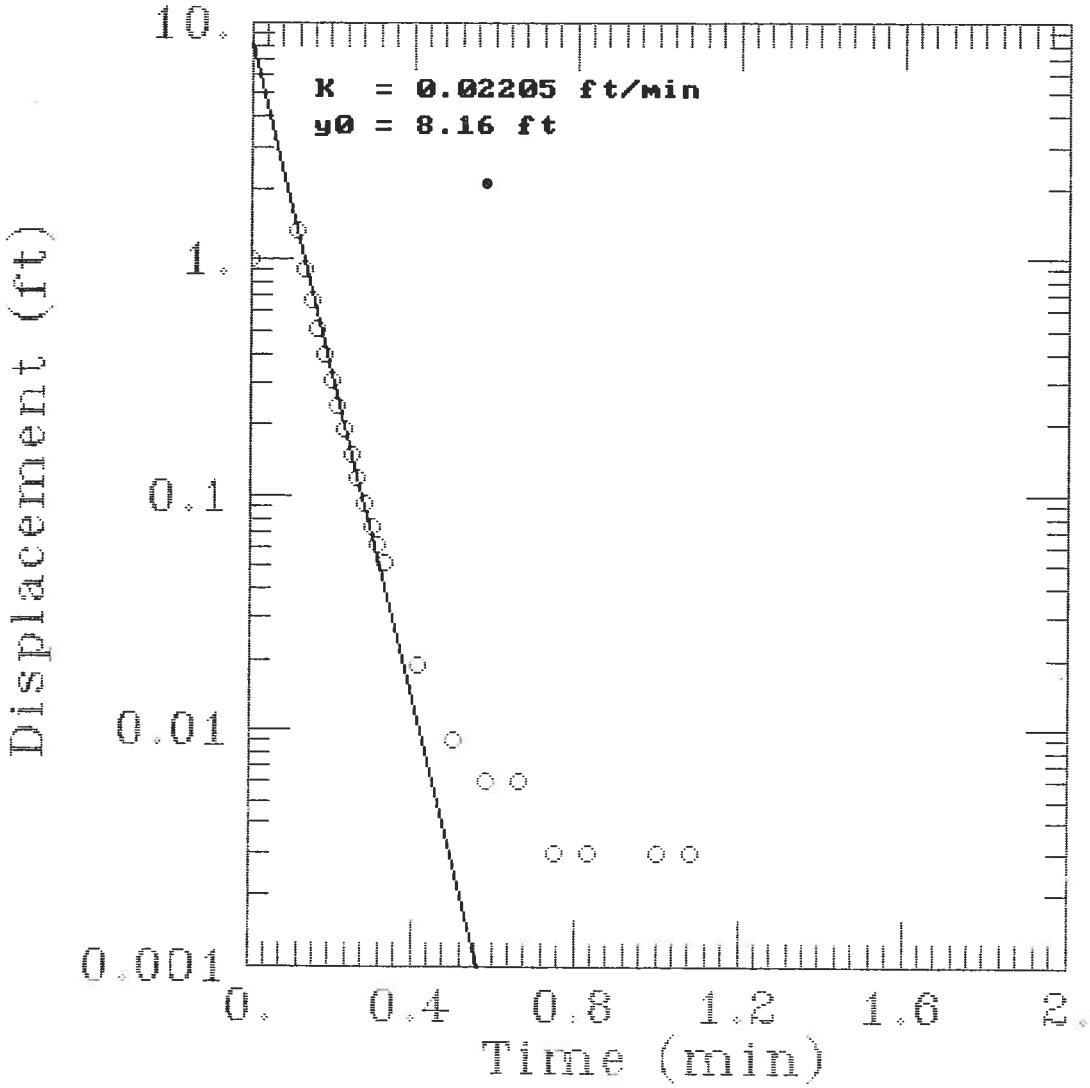

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Modeling Group

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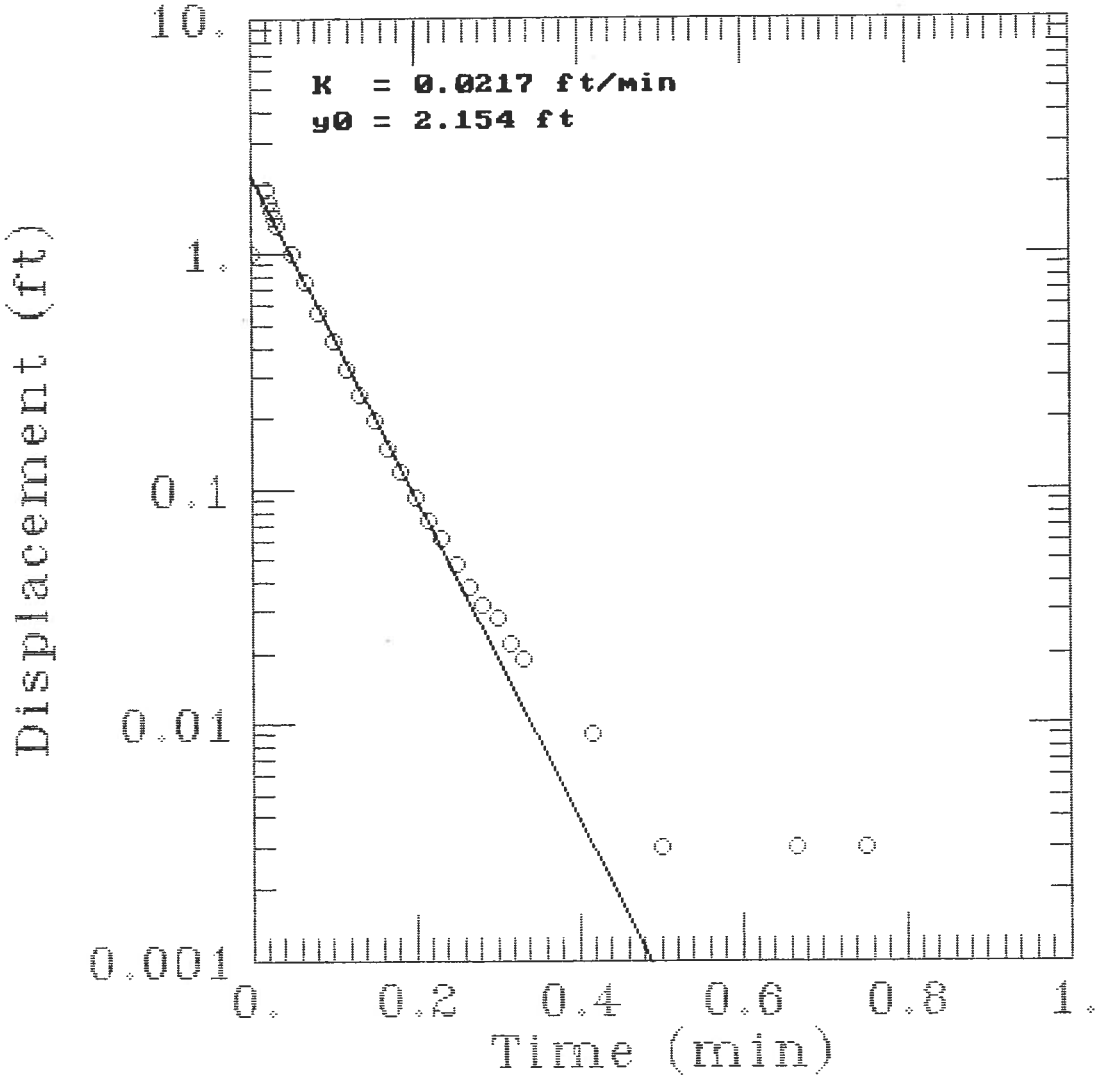

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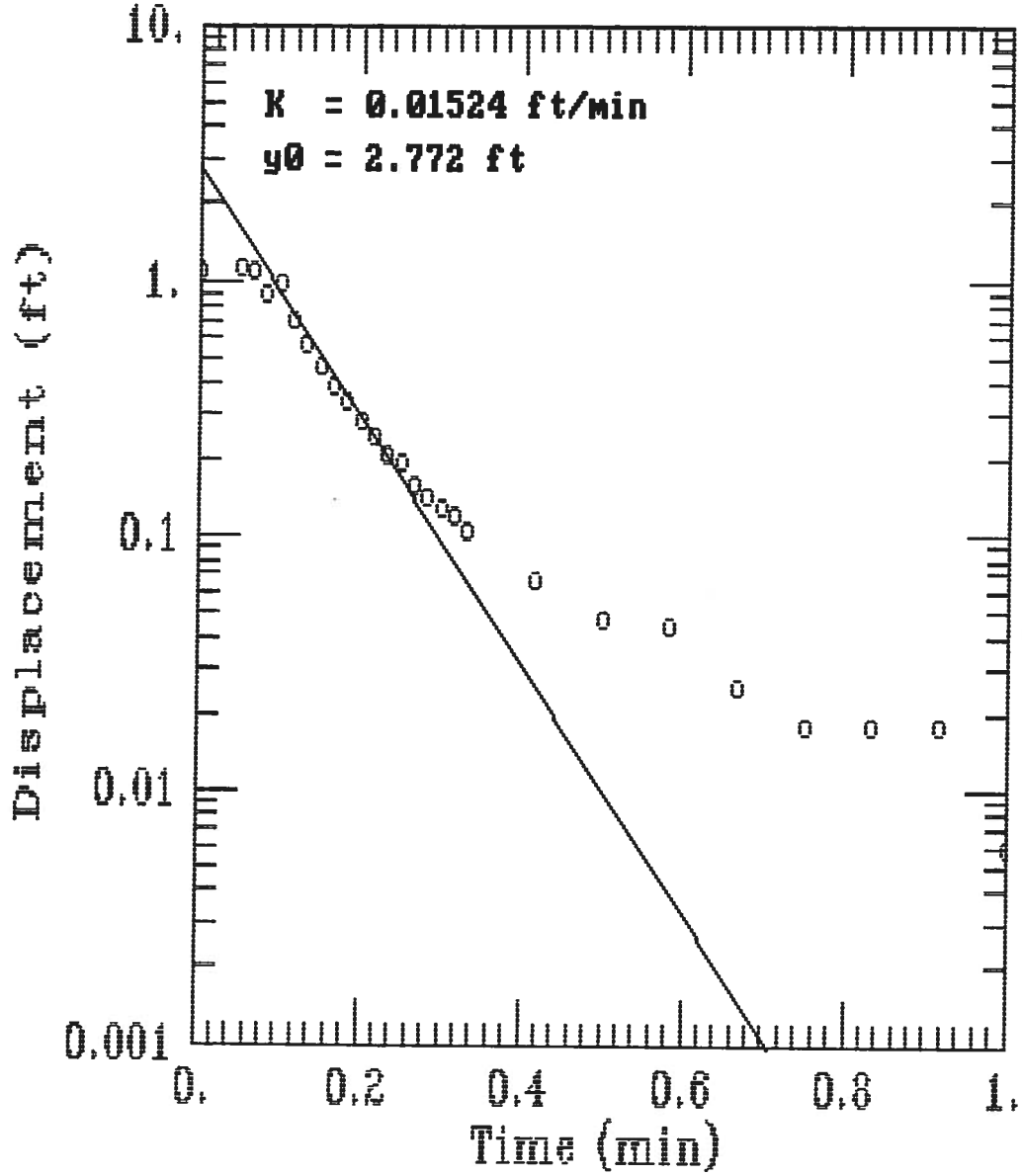
Modeling Group

MPT-13-P-1 RUN #1



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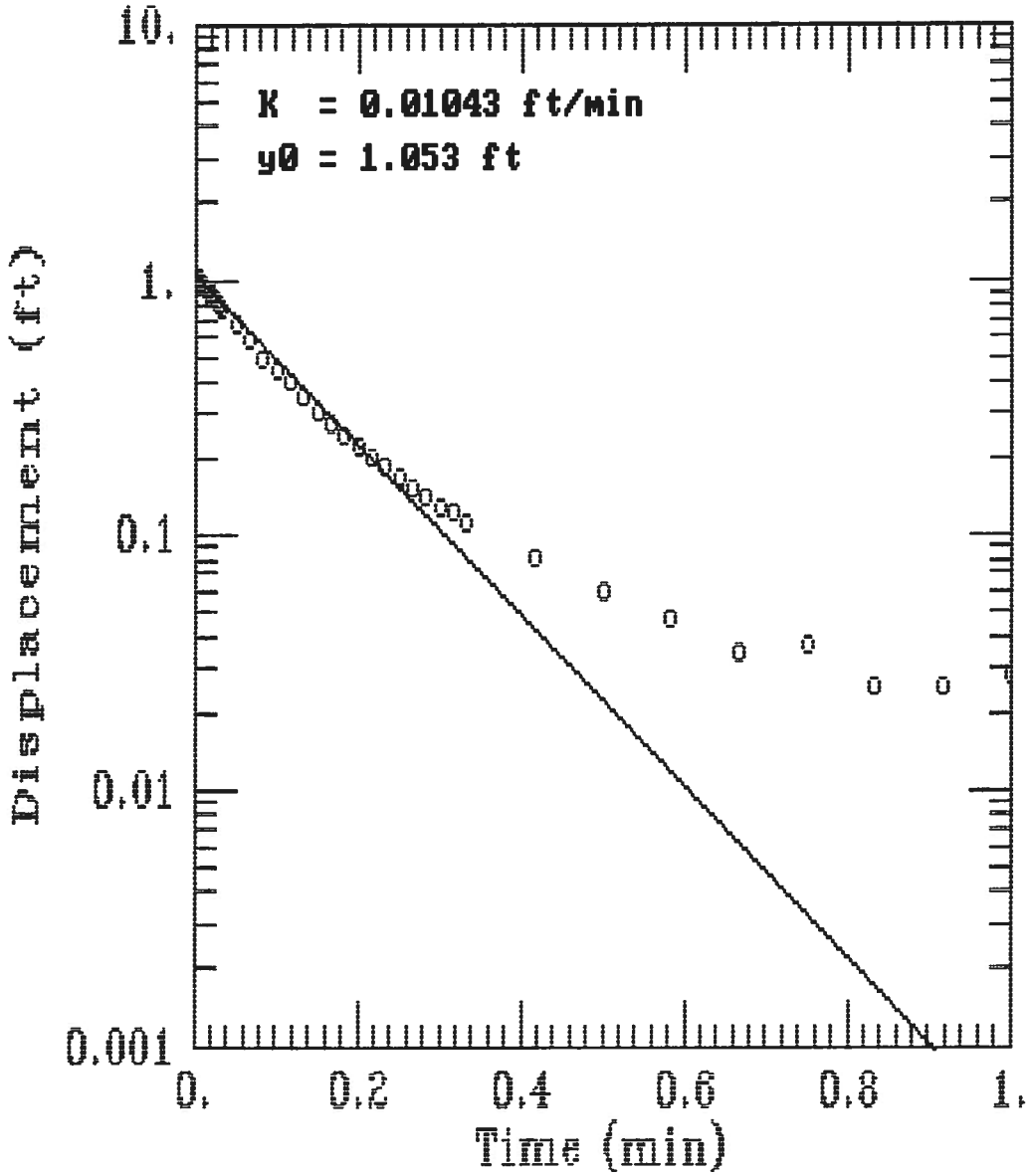

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Modeling Group

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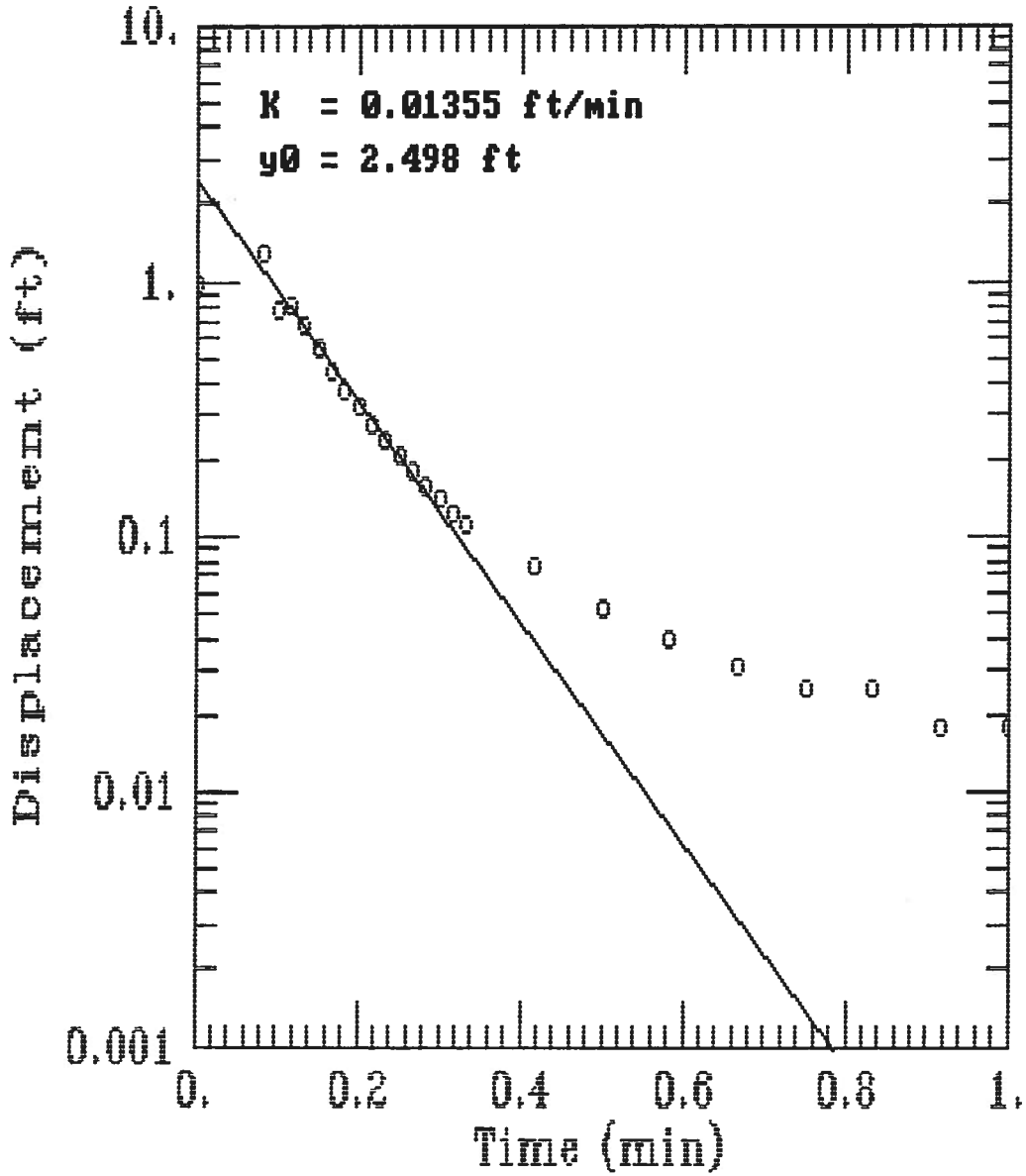

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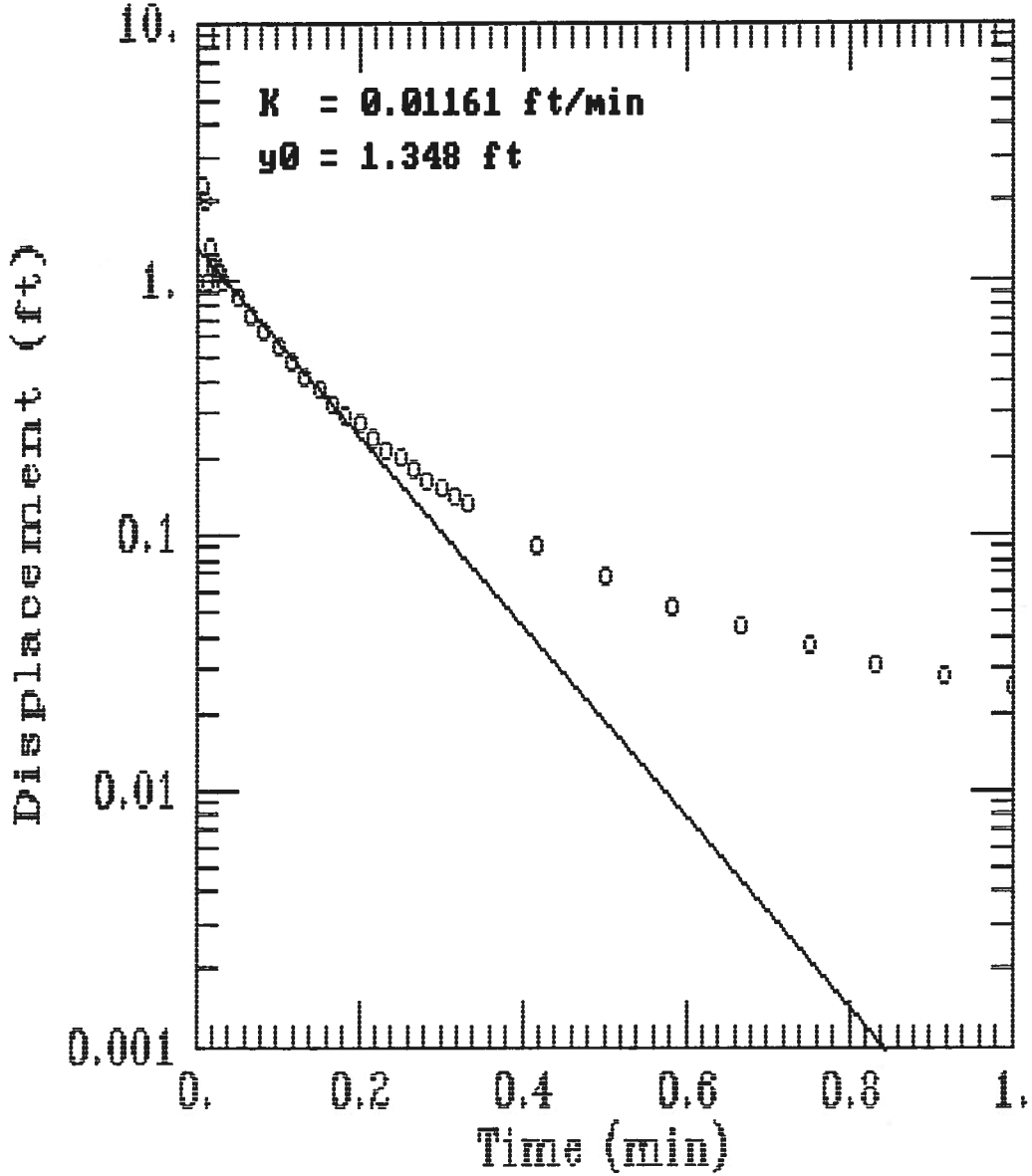

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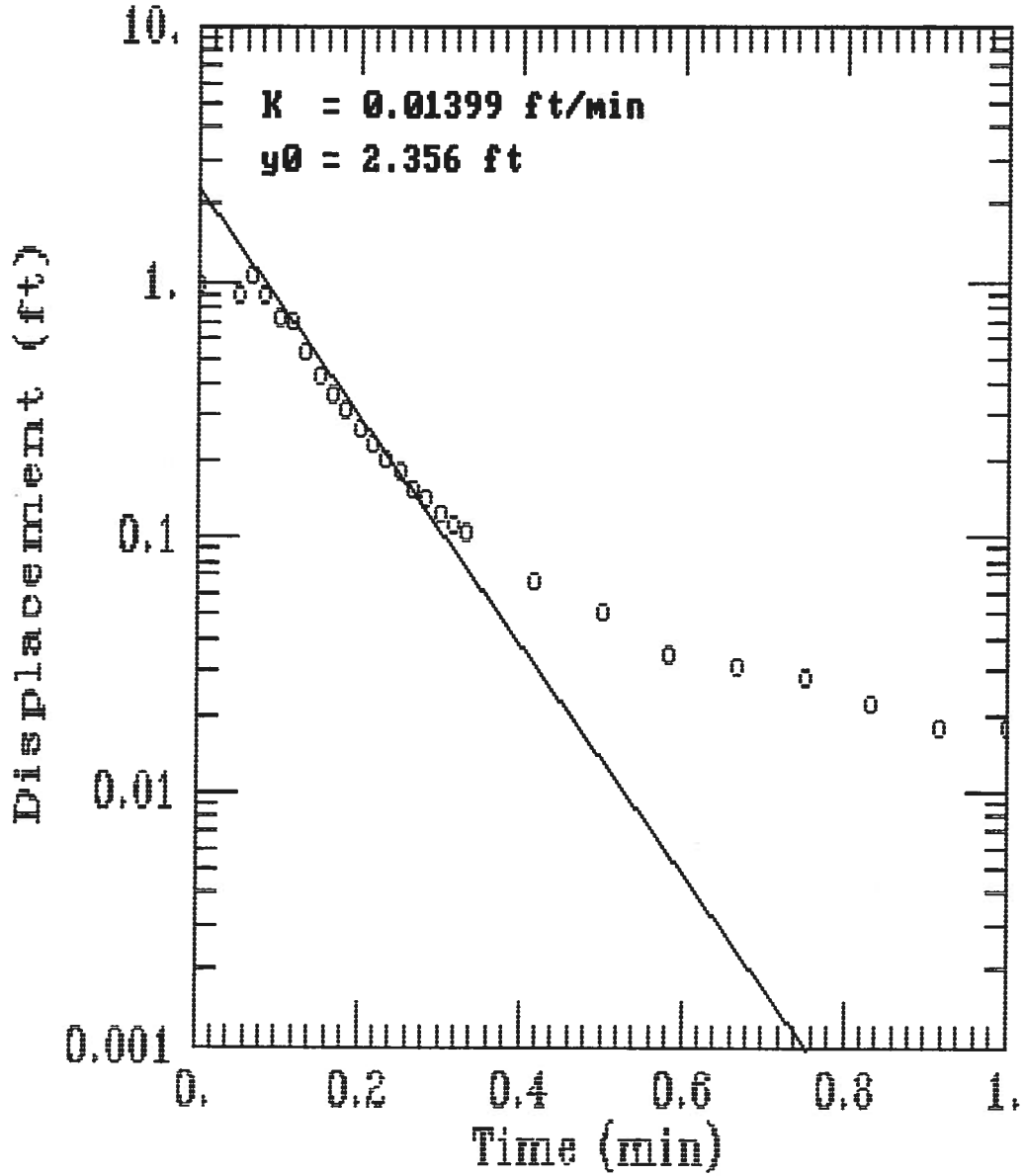

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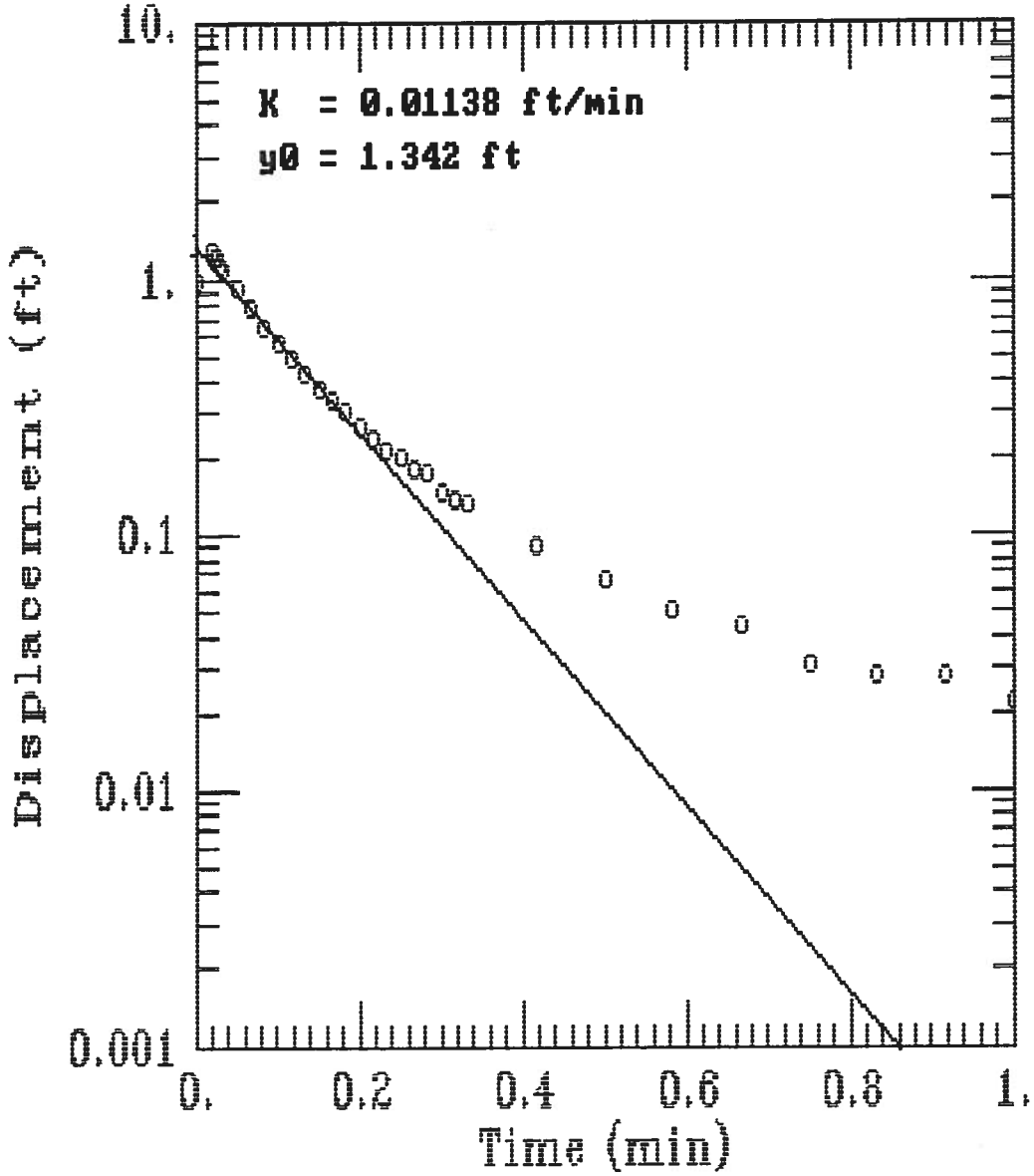

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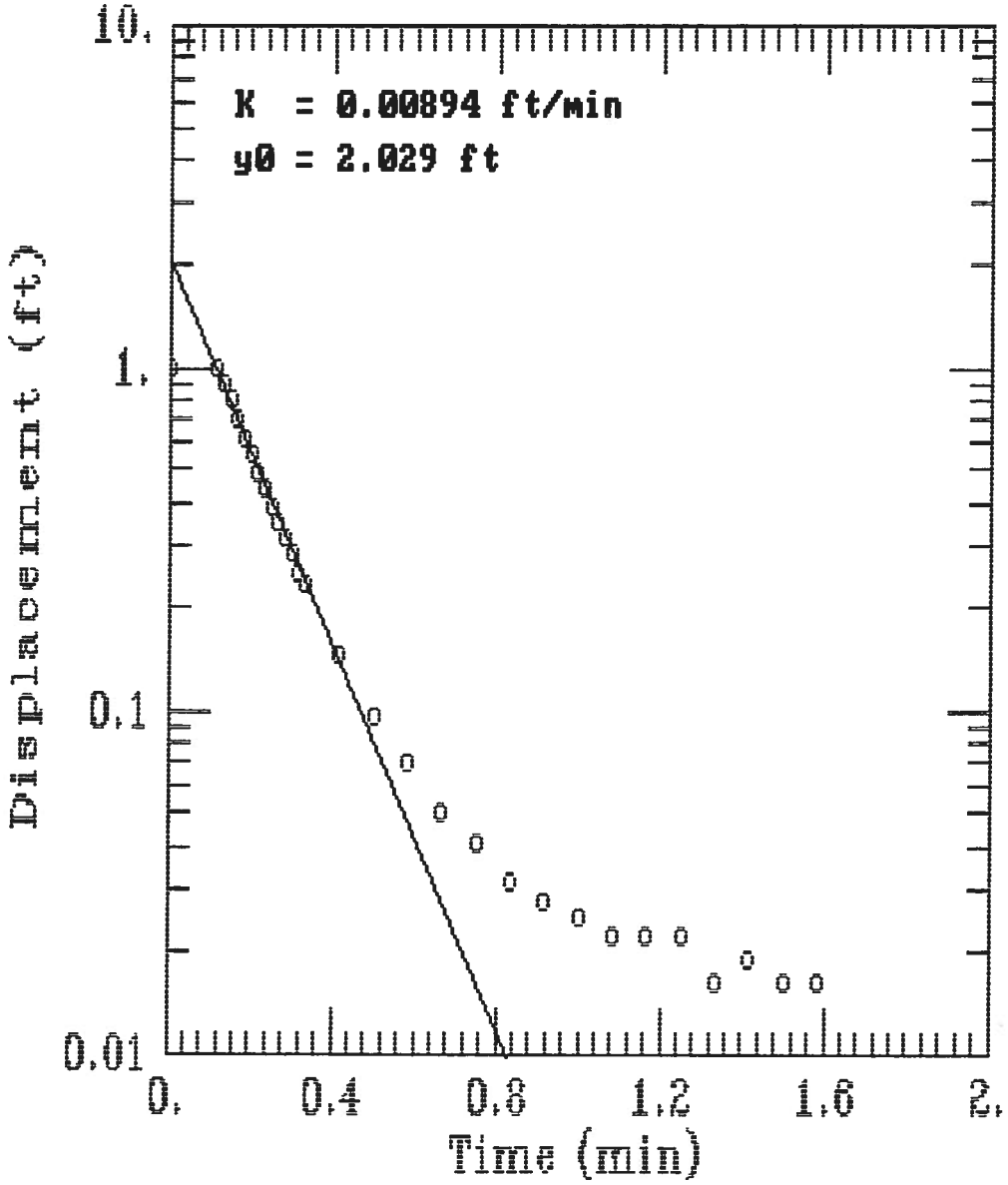
Modeling Group

MAYPORT NAVAL STATION MPT-13-P4-S0



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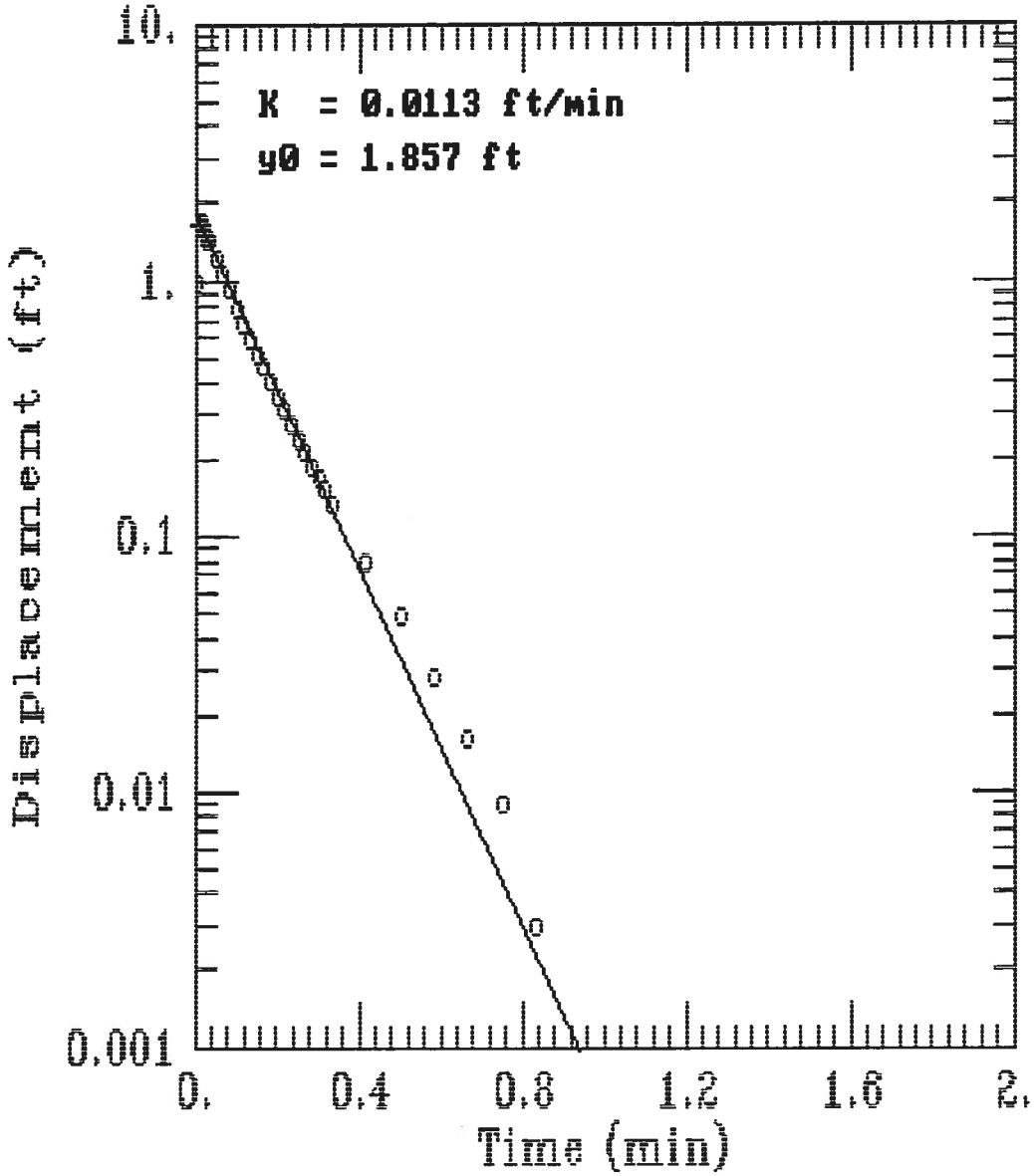

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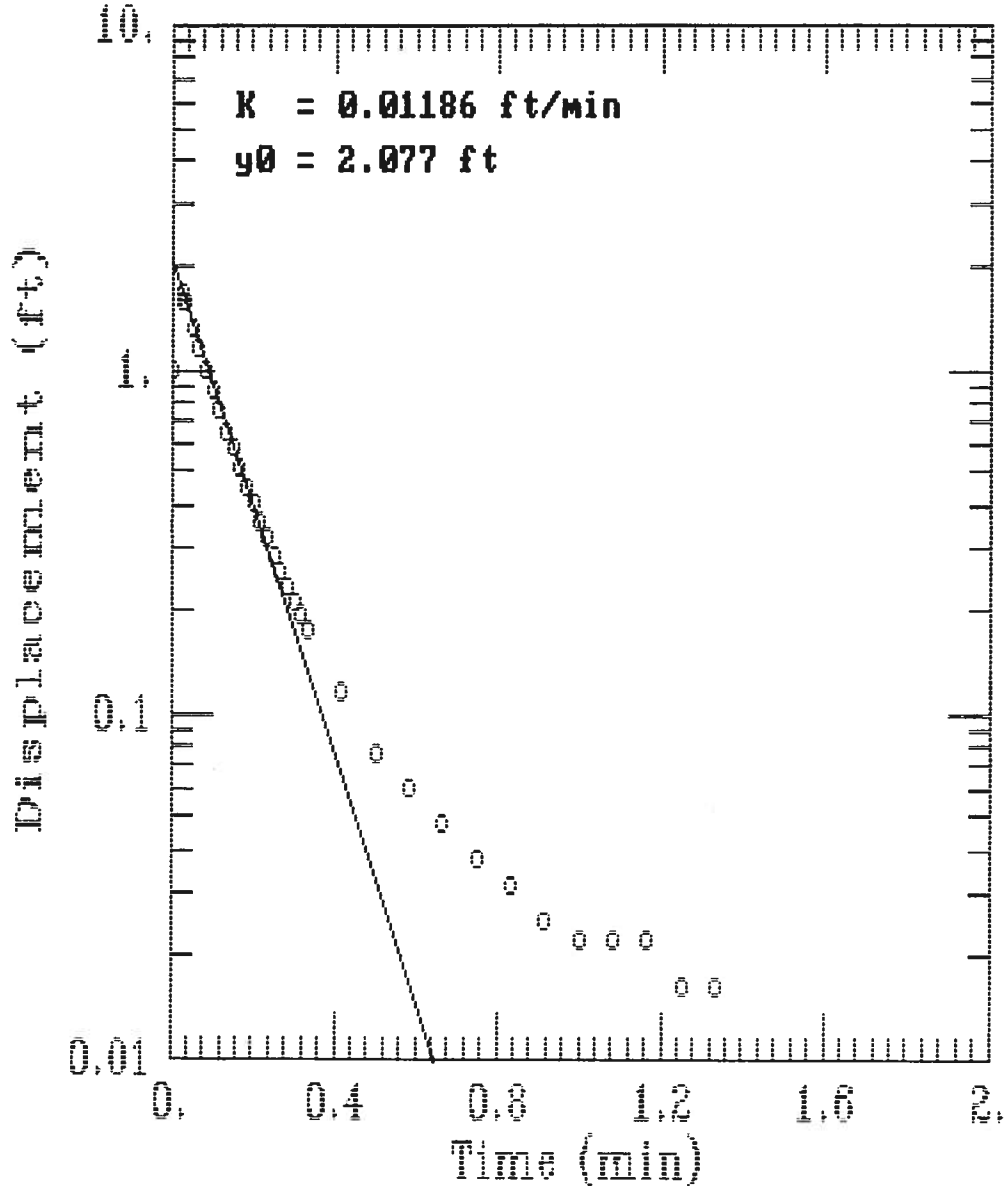

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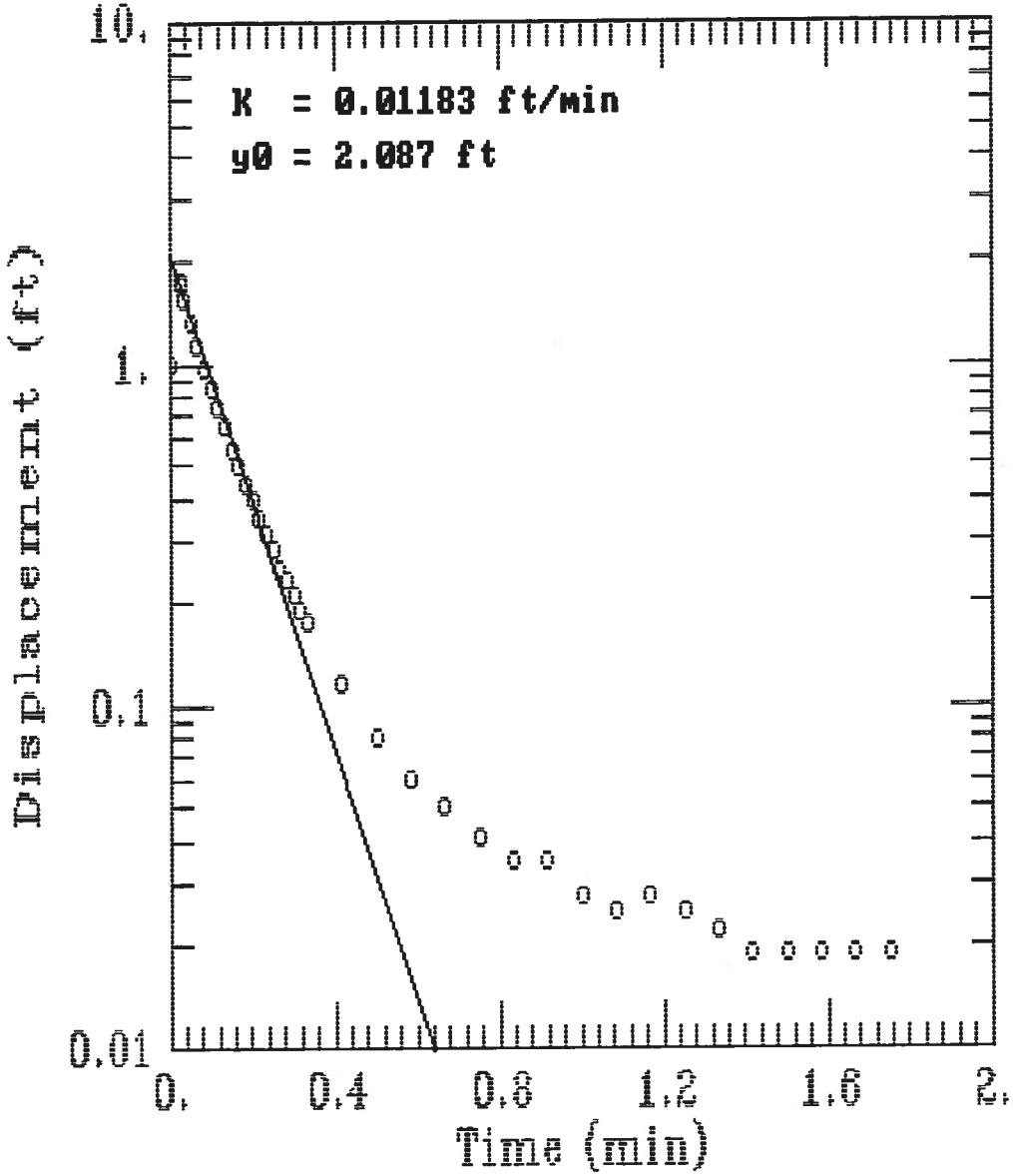

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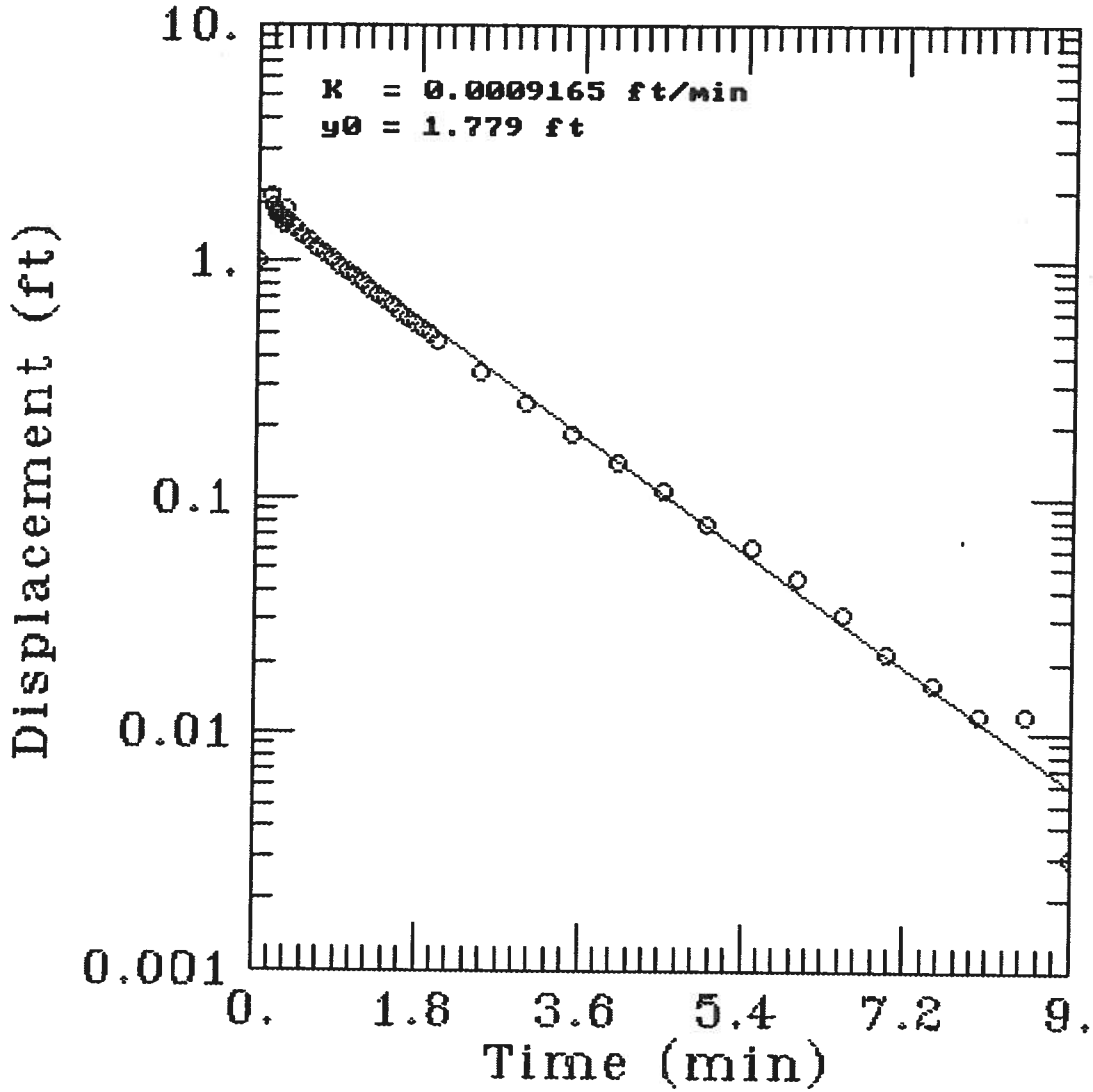

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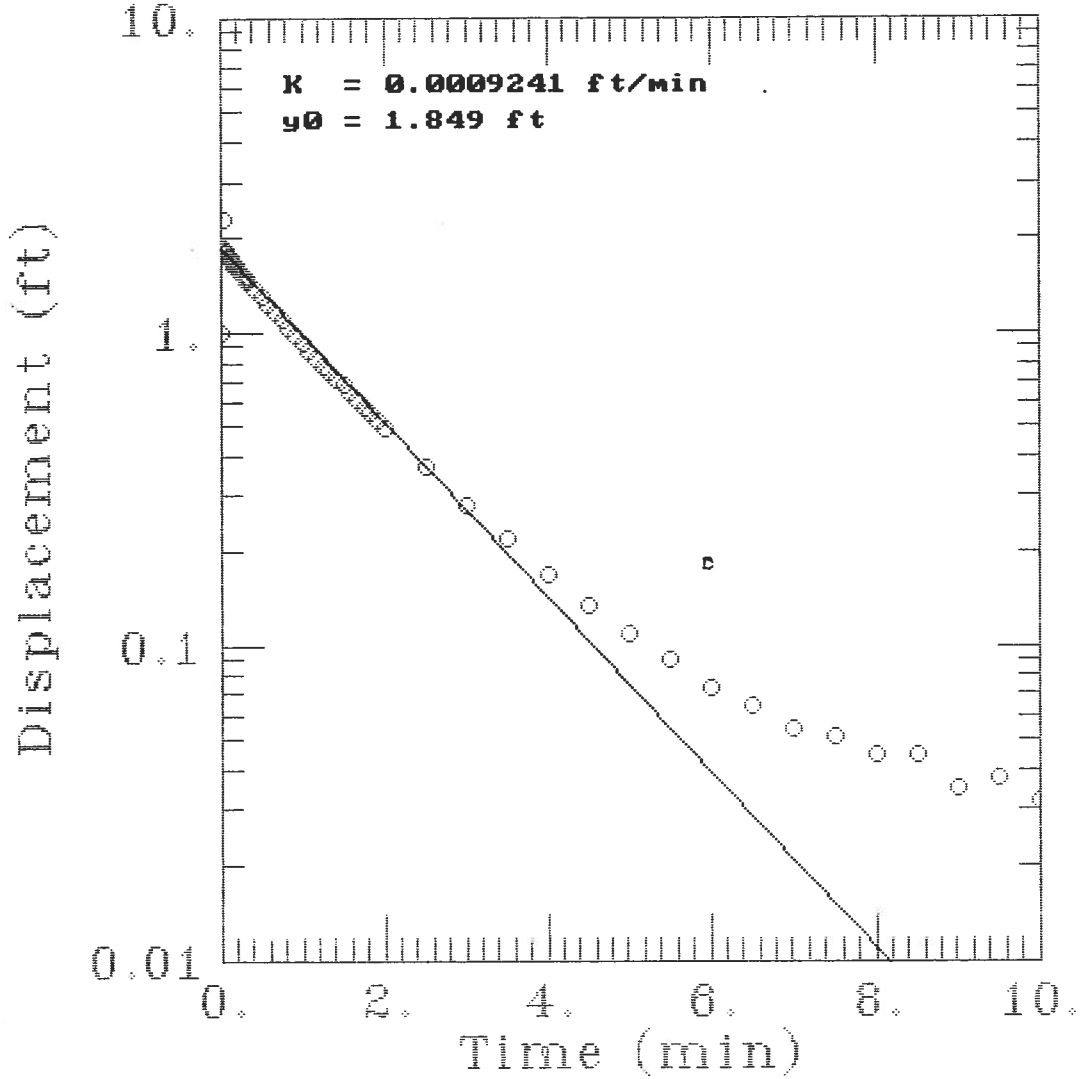
MAYPORT NAVAL STATION MPT-13-P5-S1



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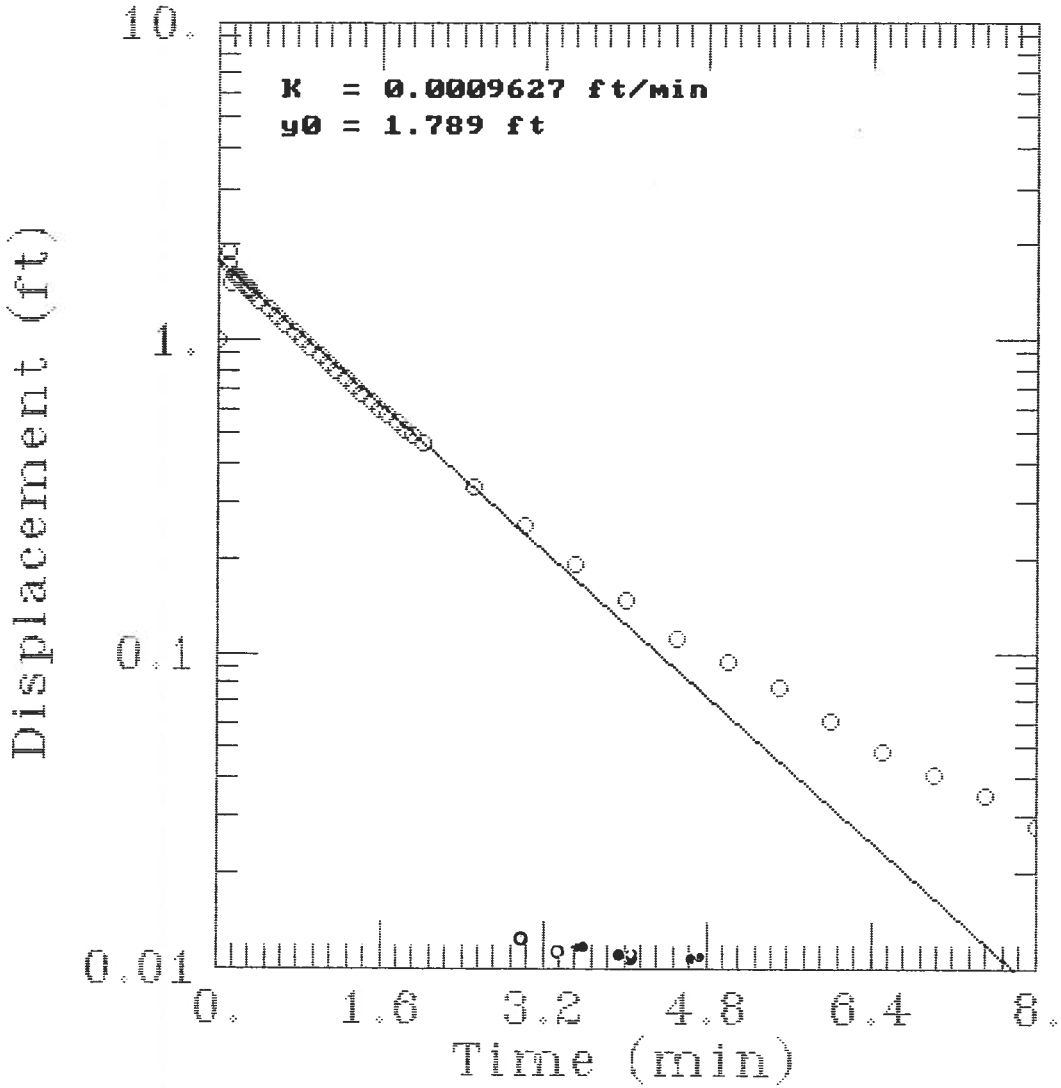

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Modeling Group

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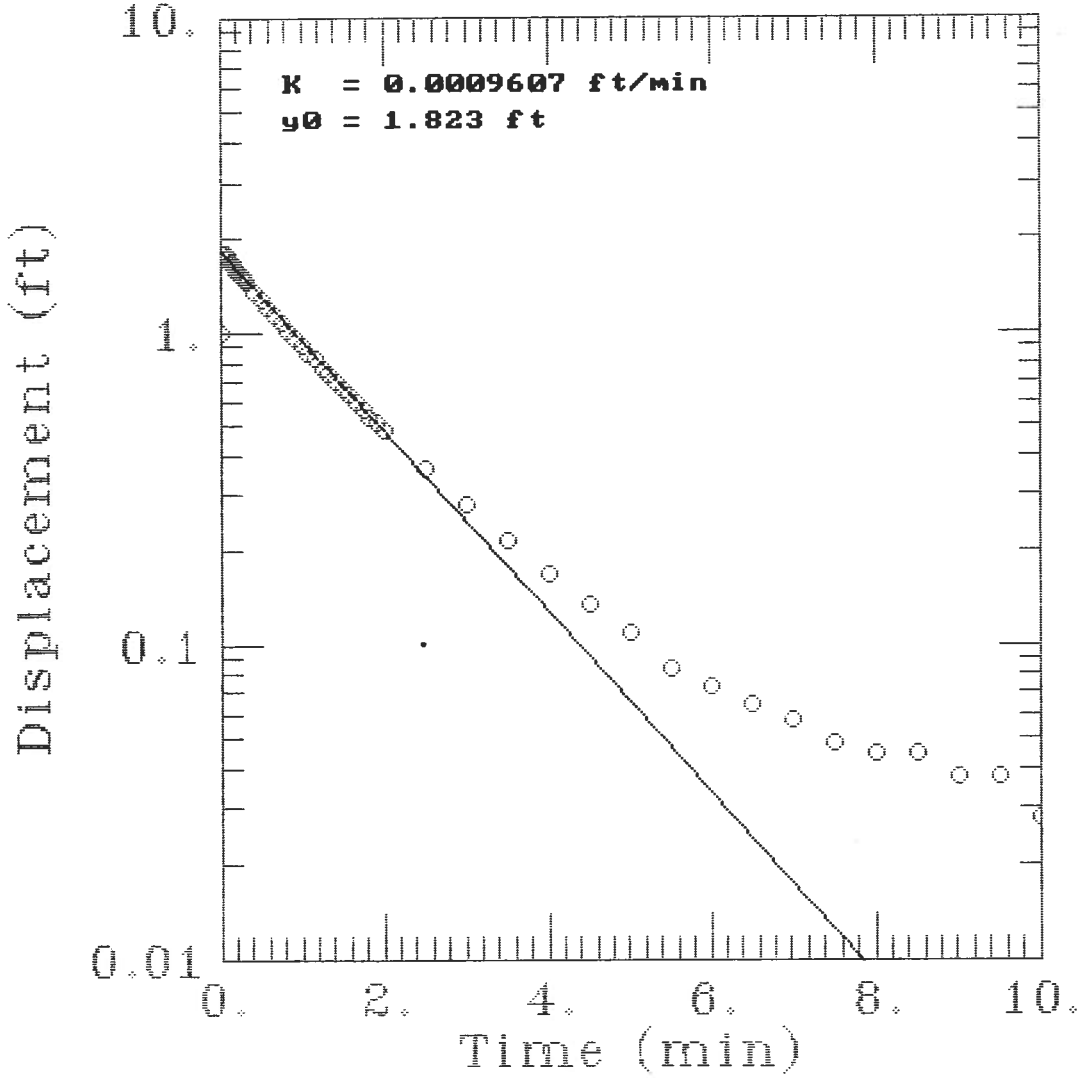

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Modeling Group

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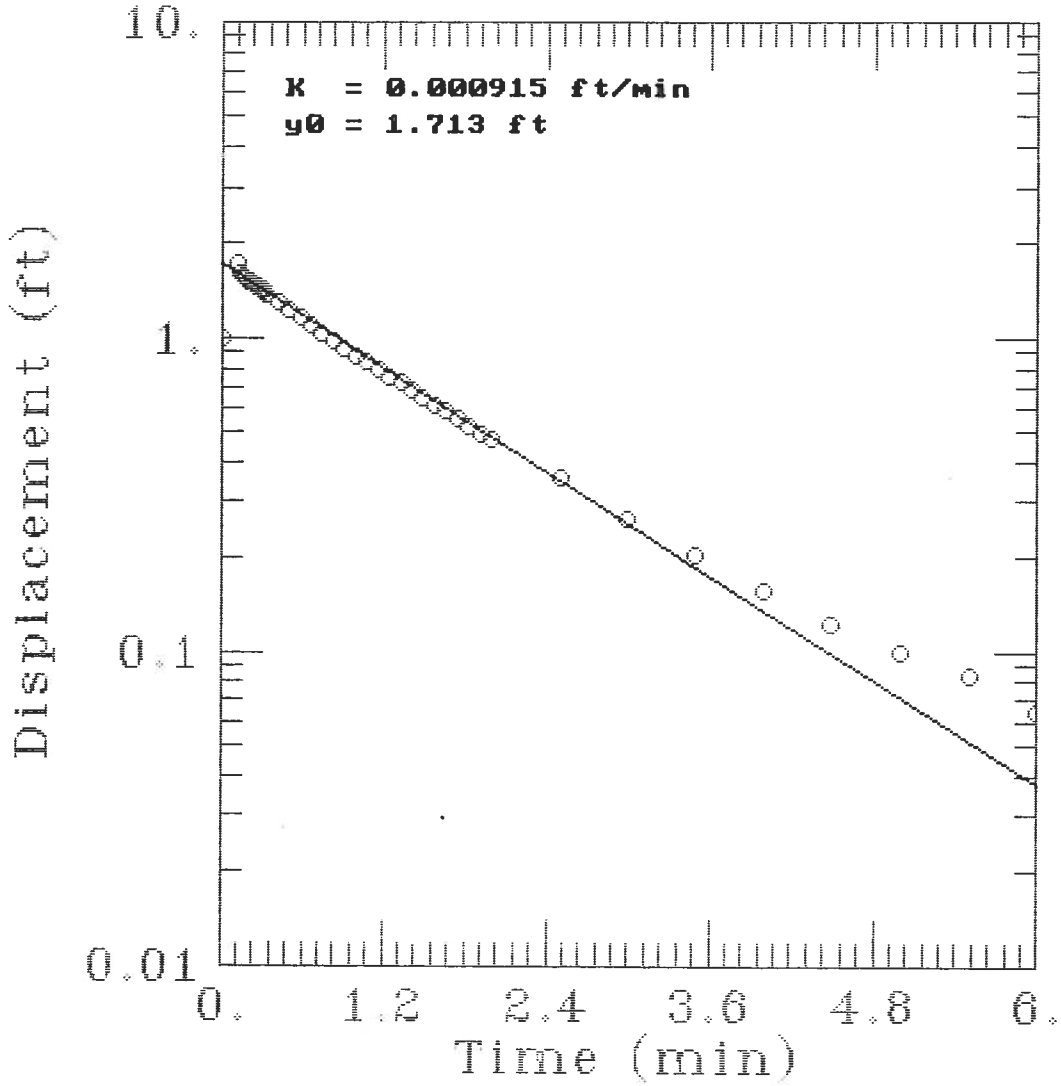

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GERAGHTY & MILLER, INC.

Modeling Group

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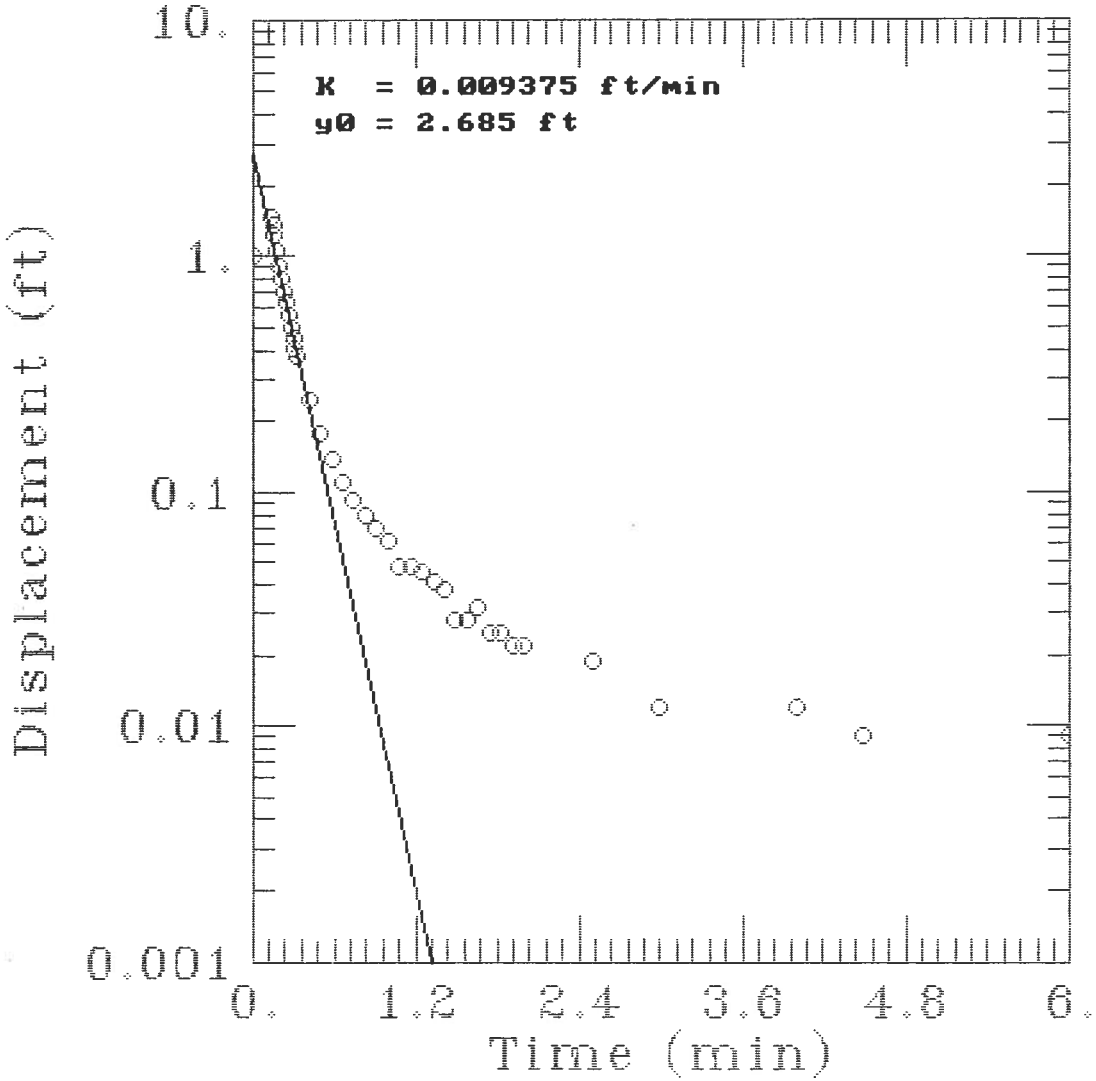

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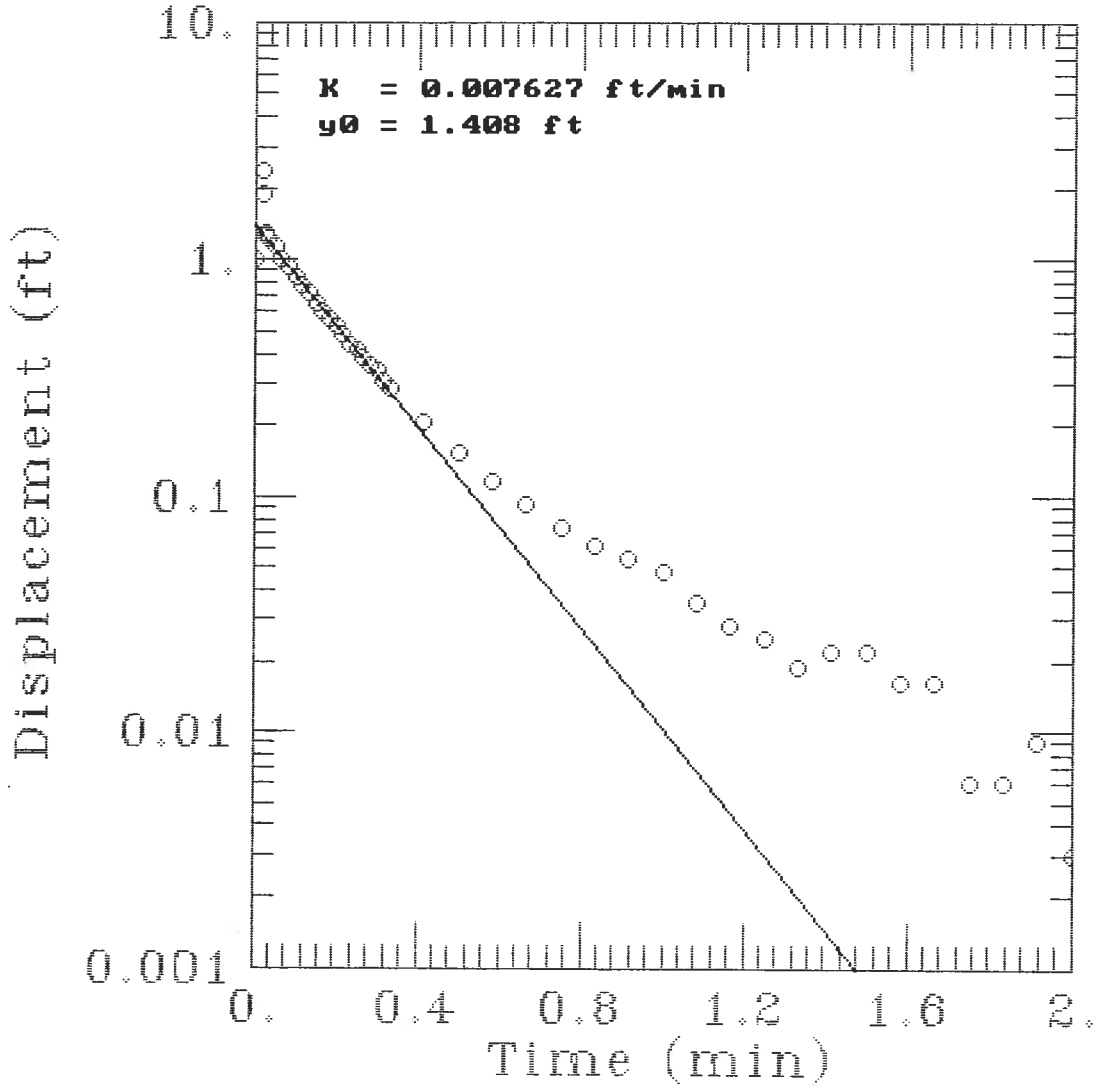

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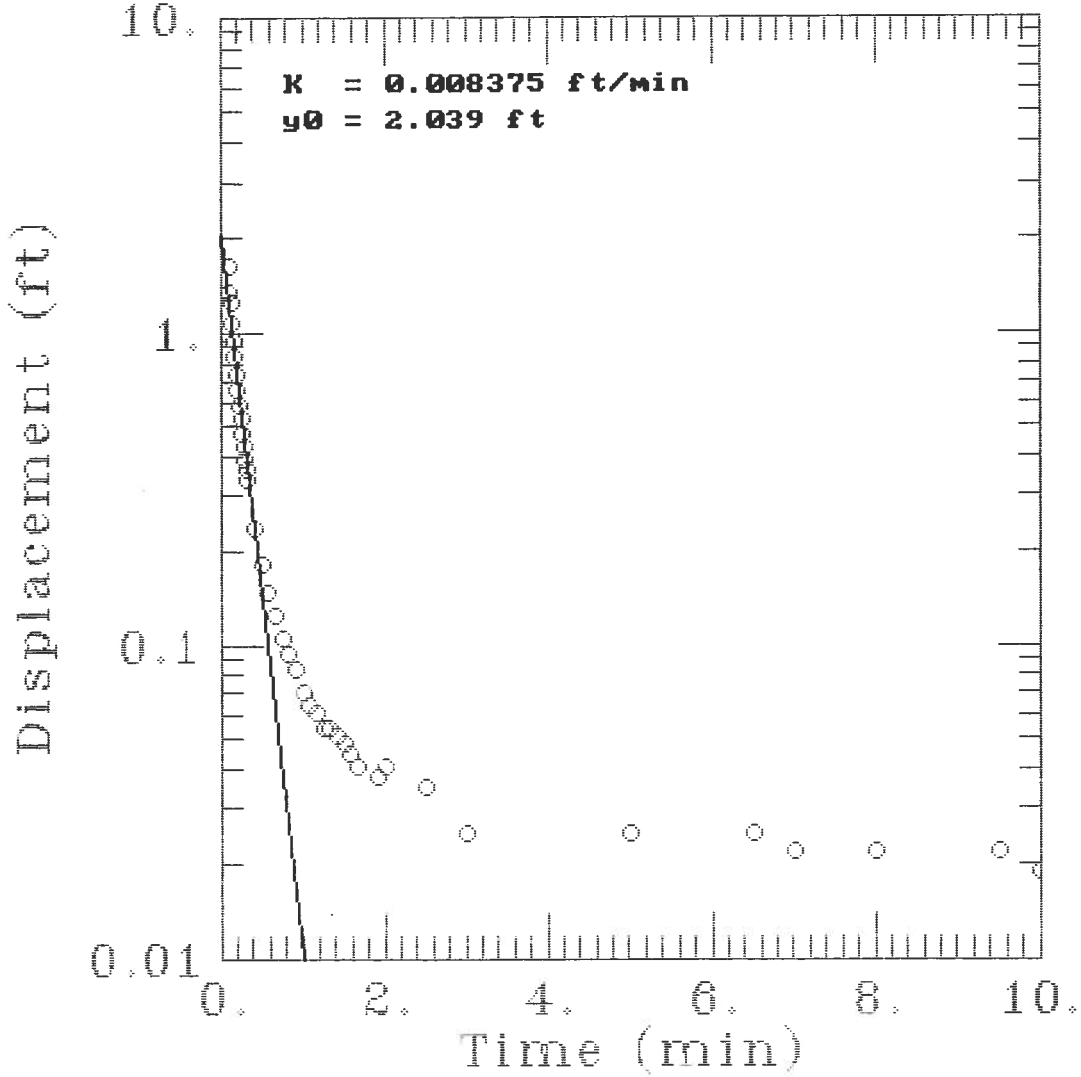

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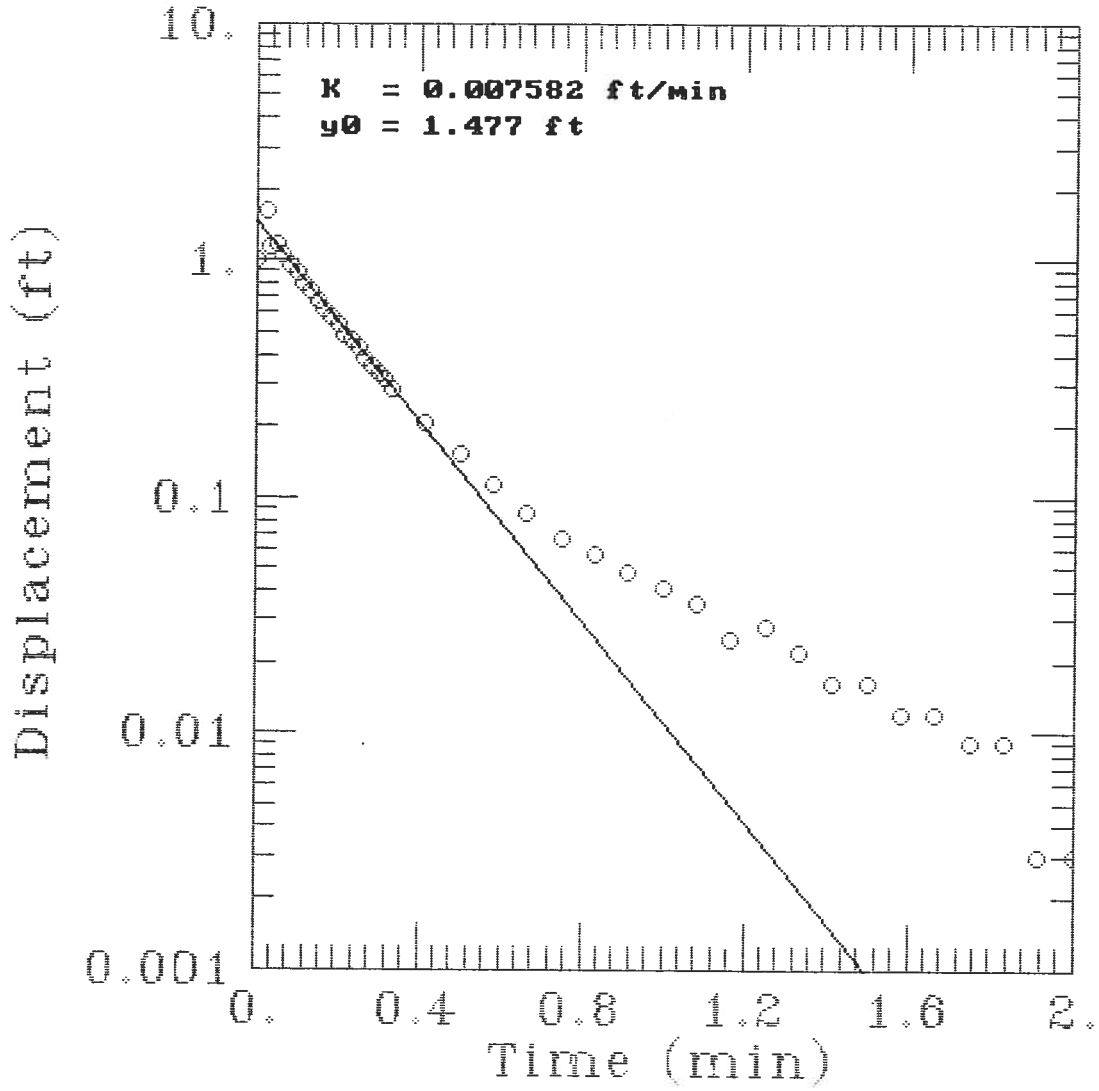

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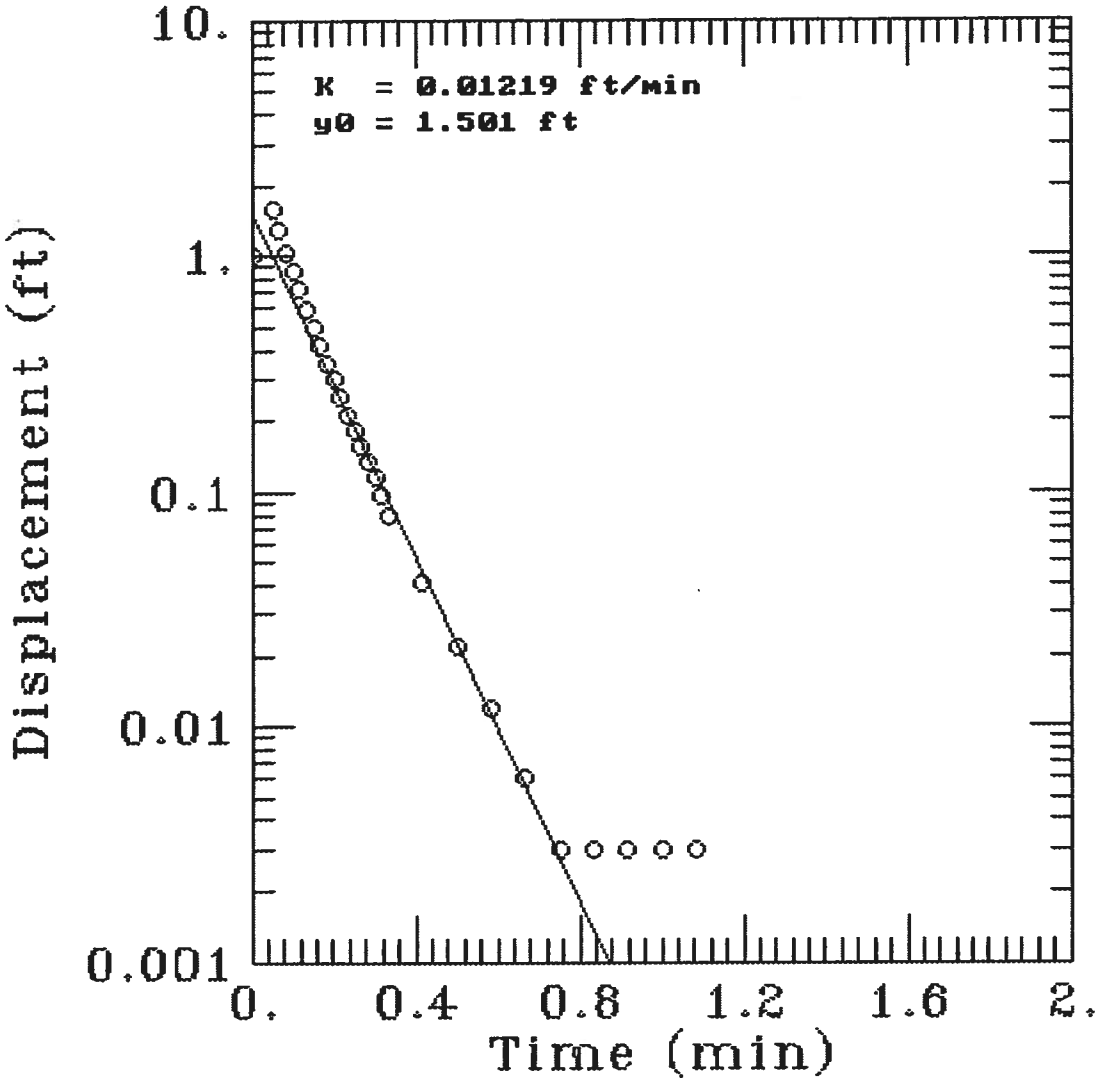

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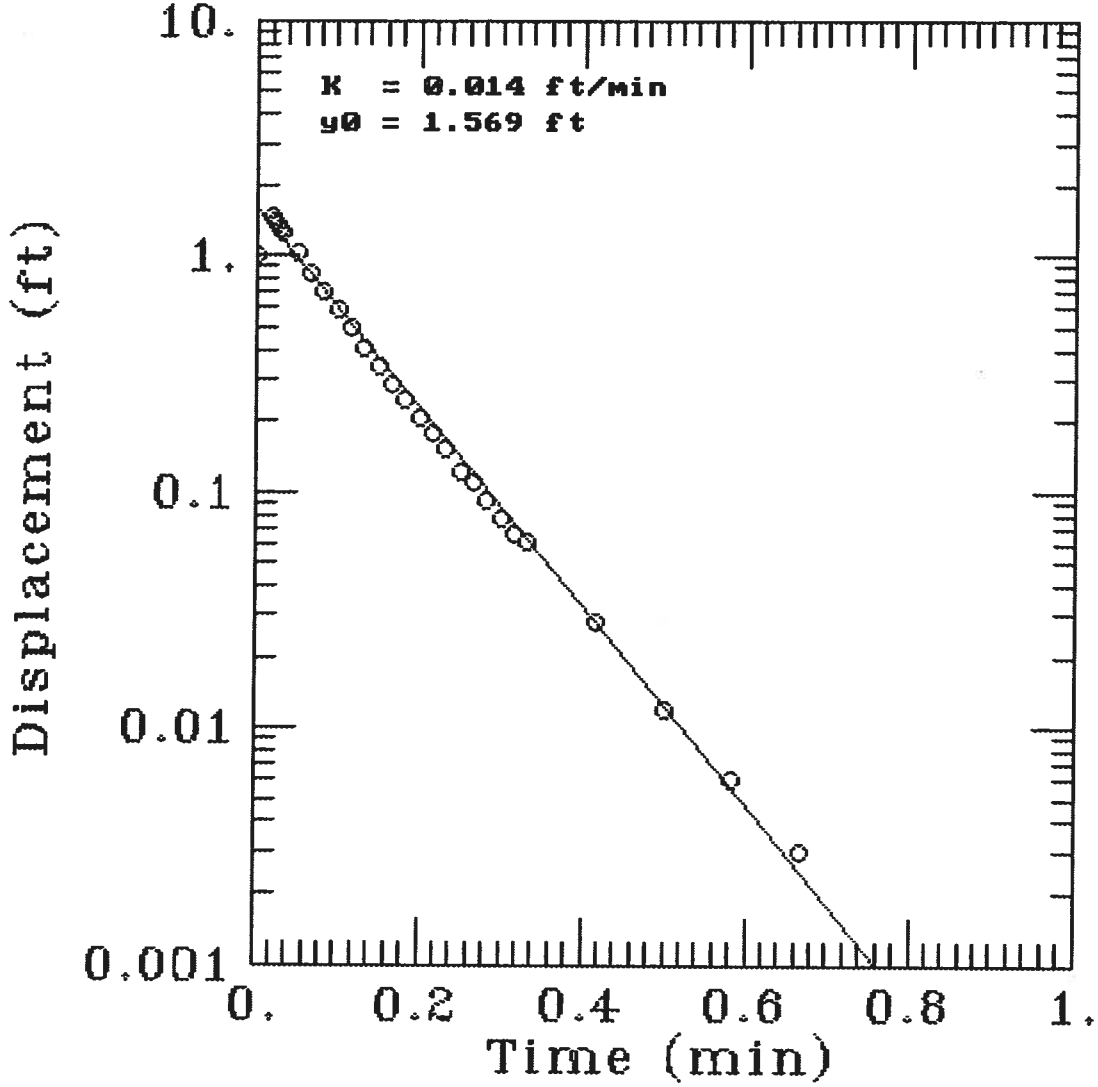

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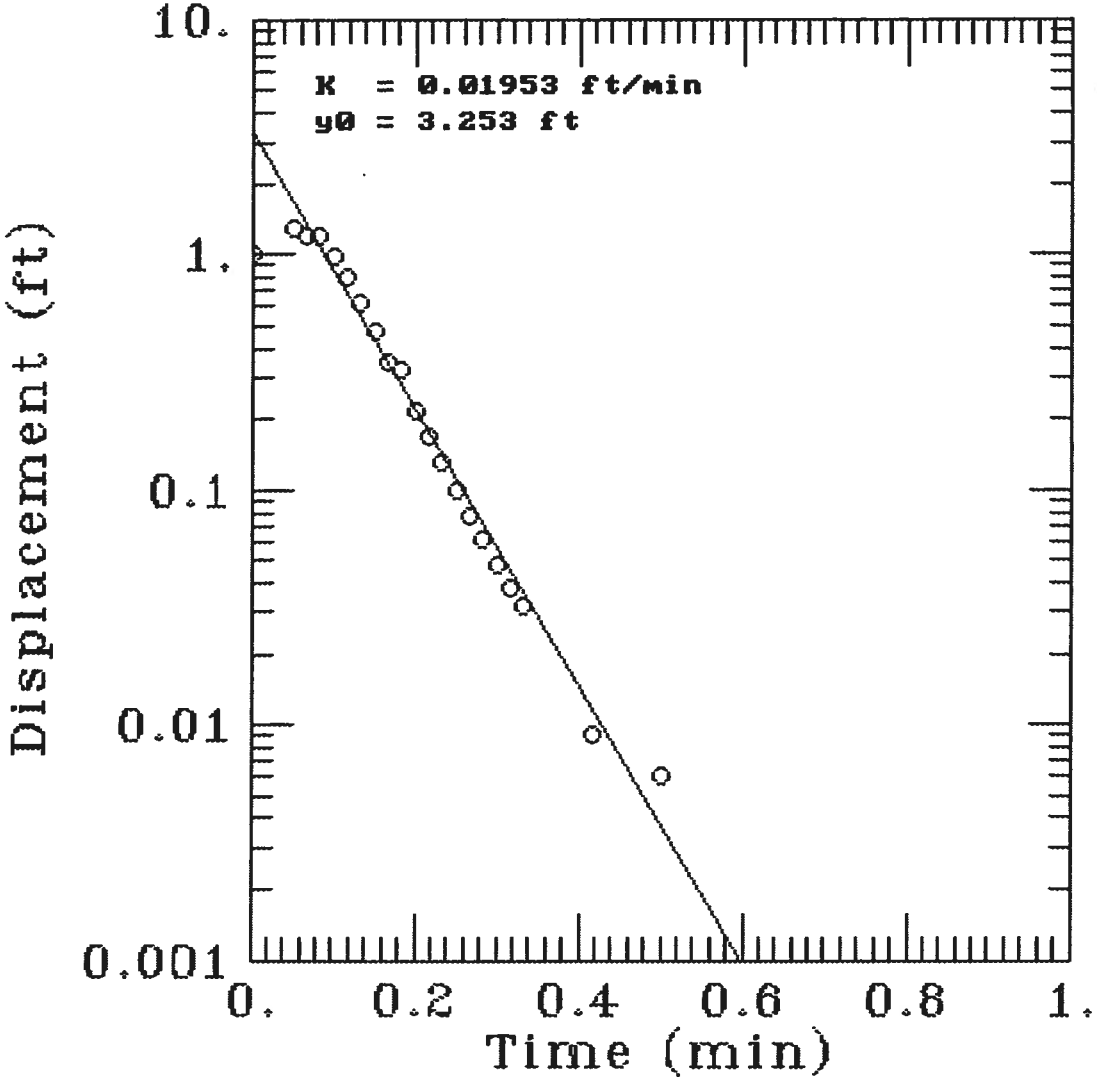

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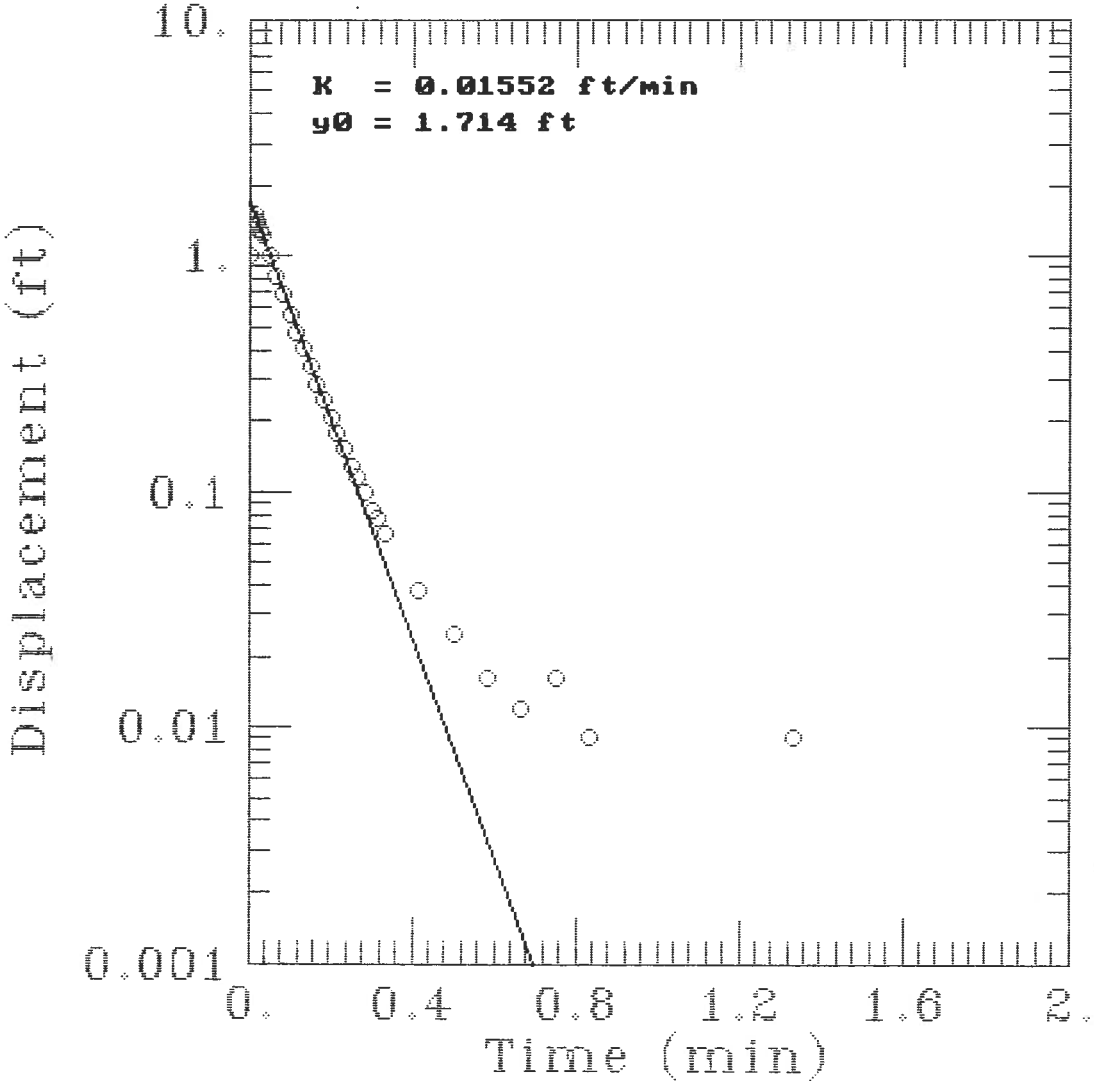

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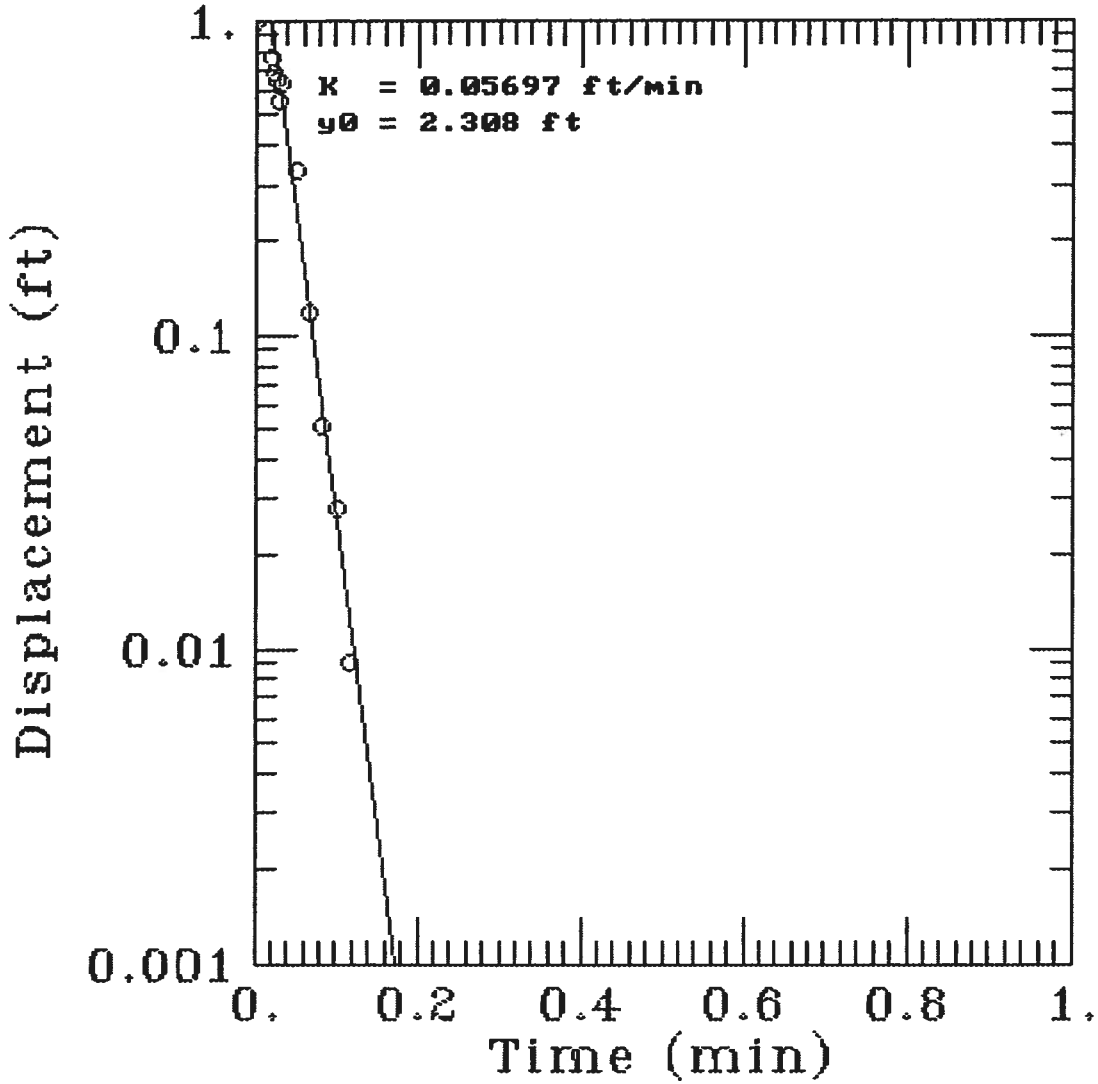

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Modeling Group

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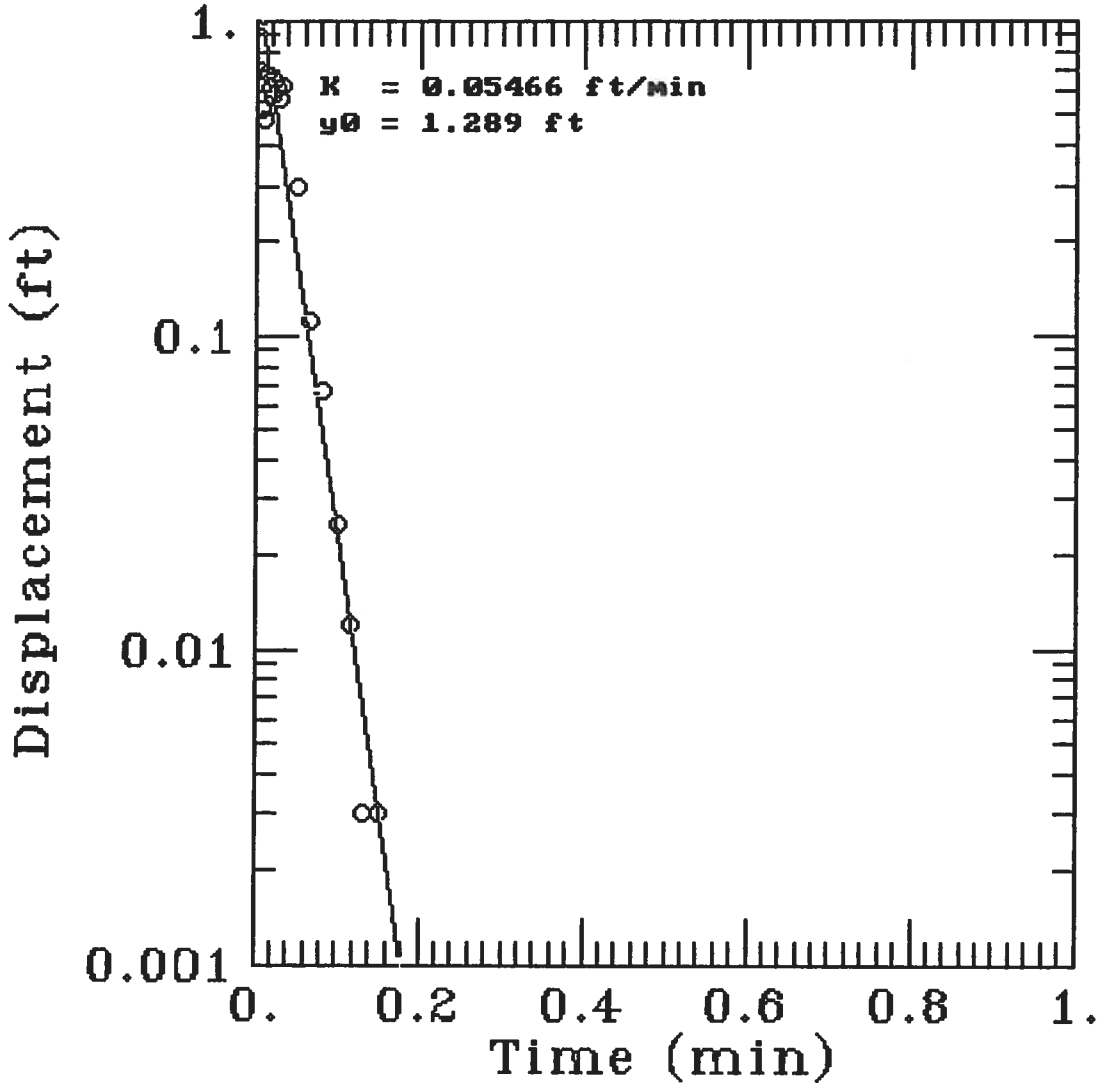

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Modeling Group

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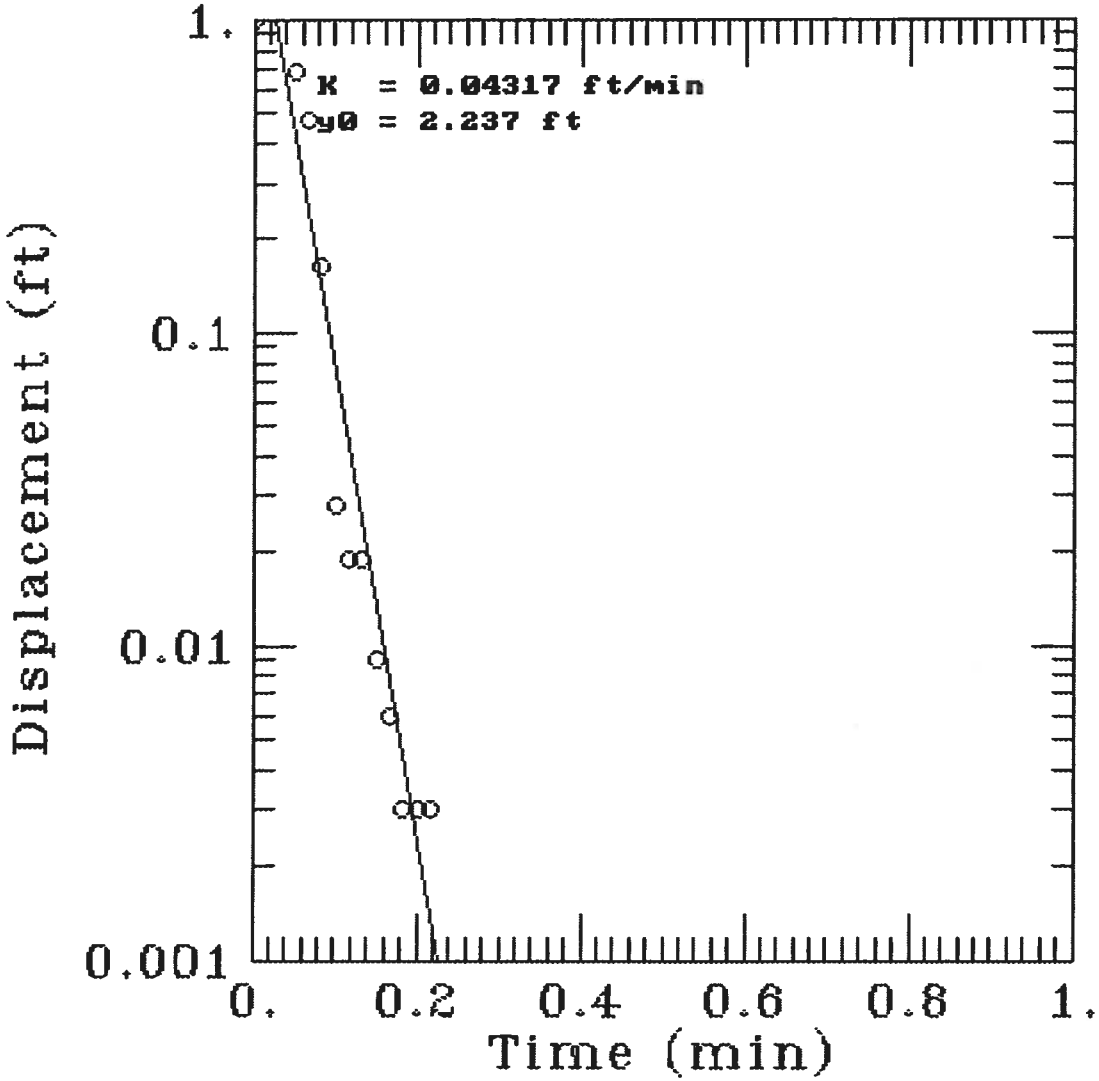

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Modeling Group

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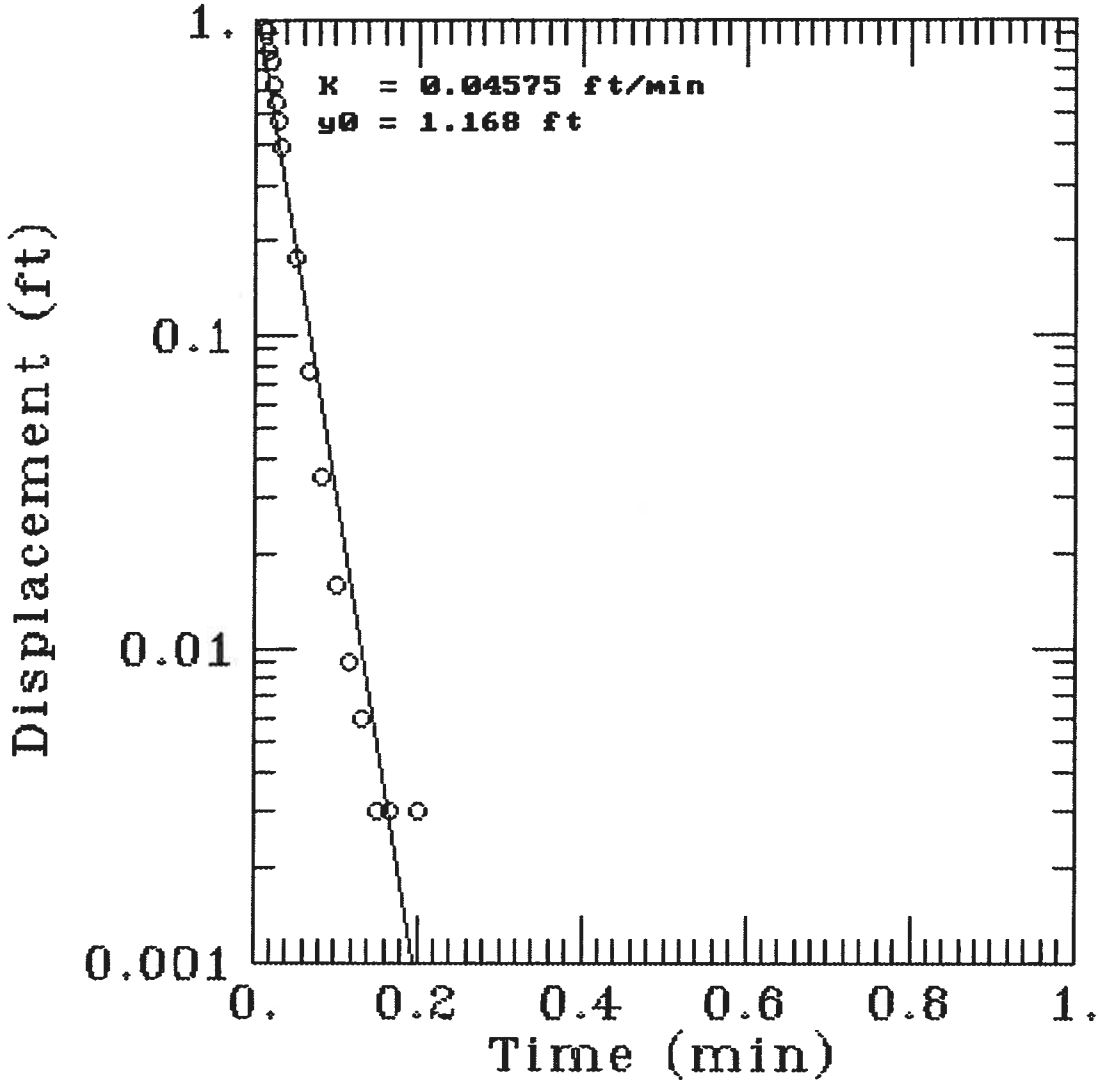

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Modeling Group

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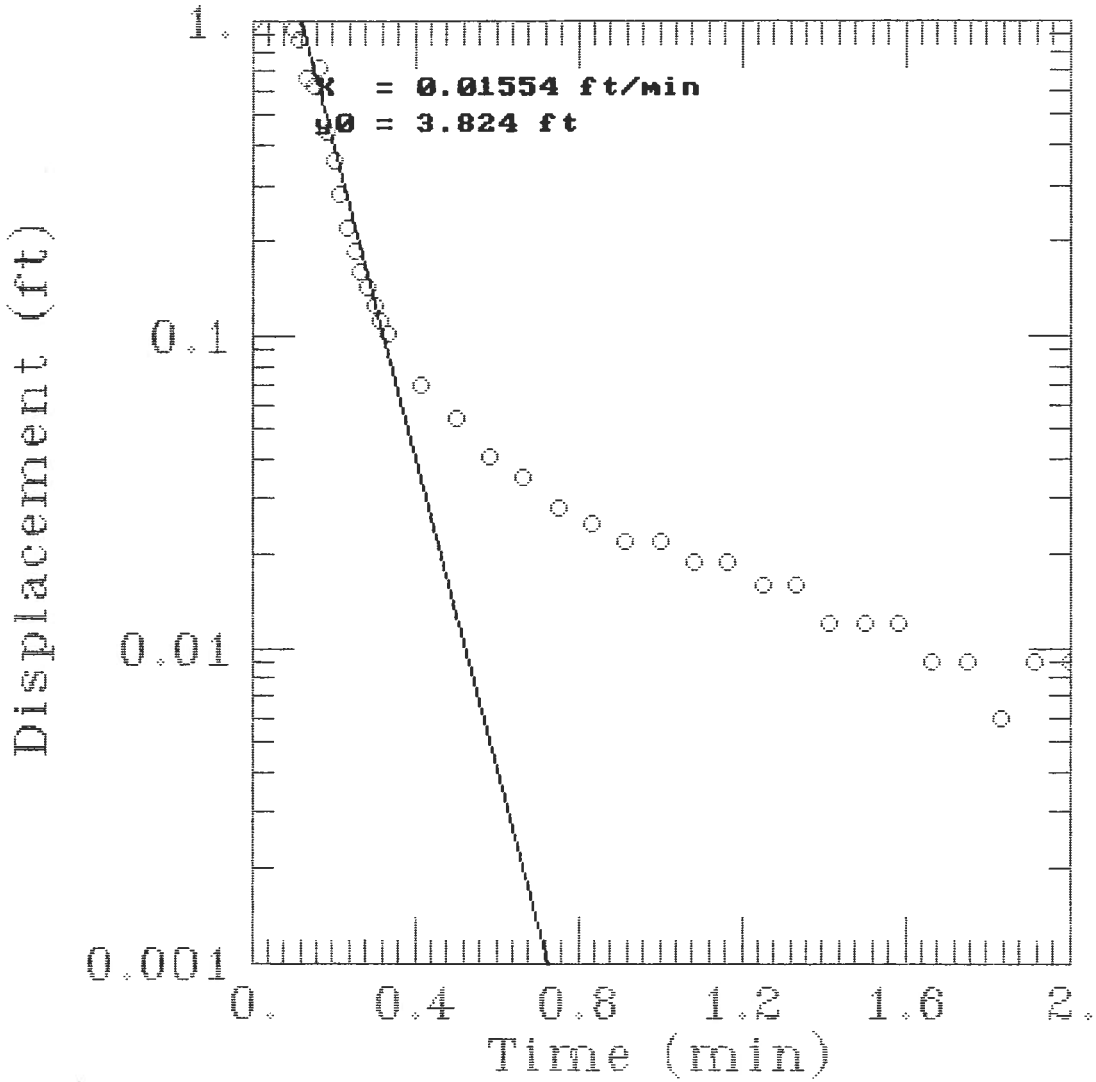

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Modeling Group

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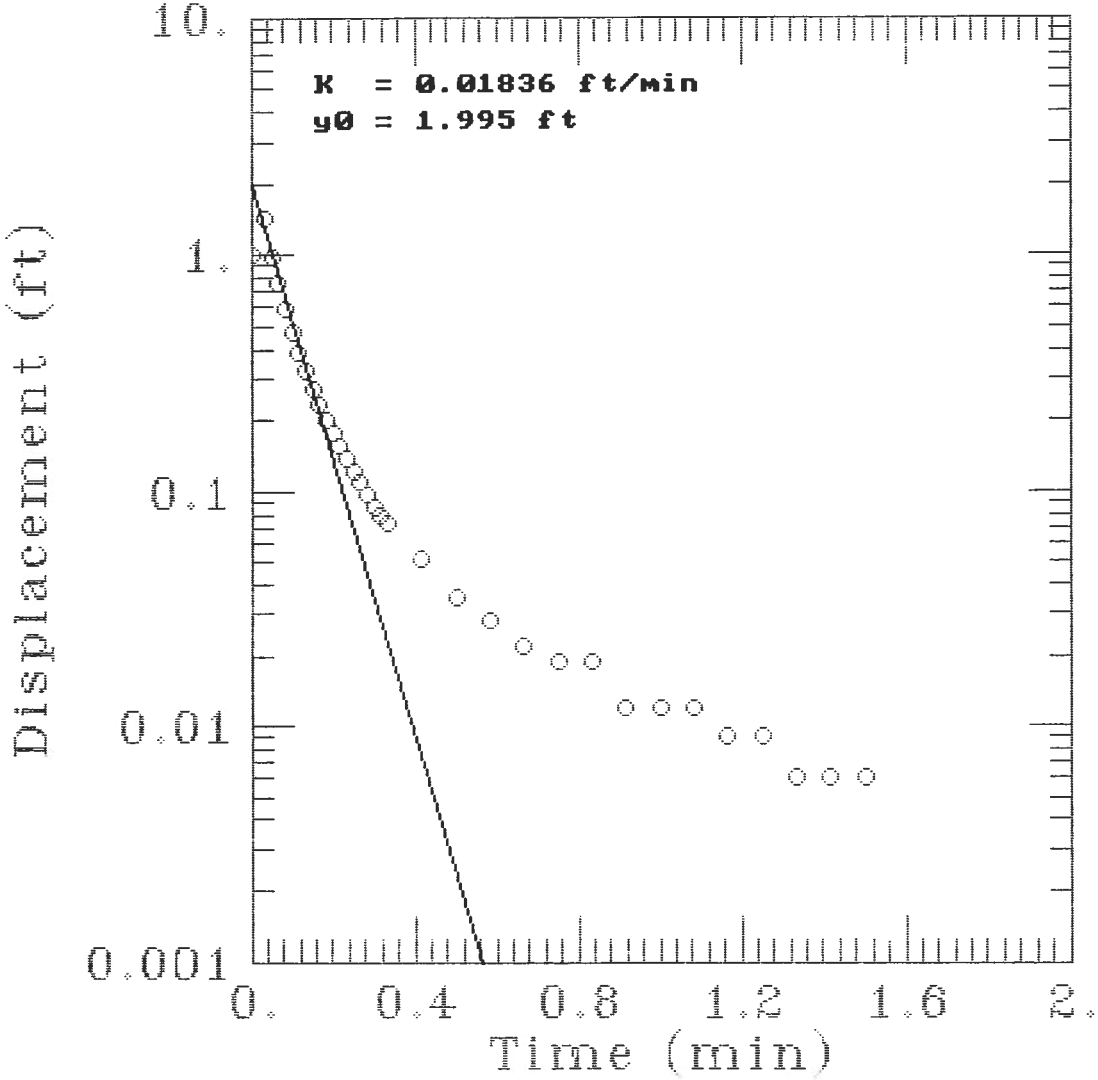

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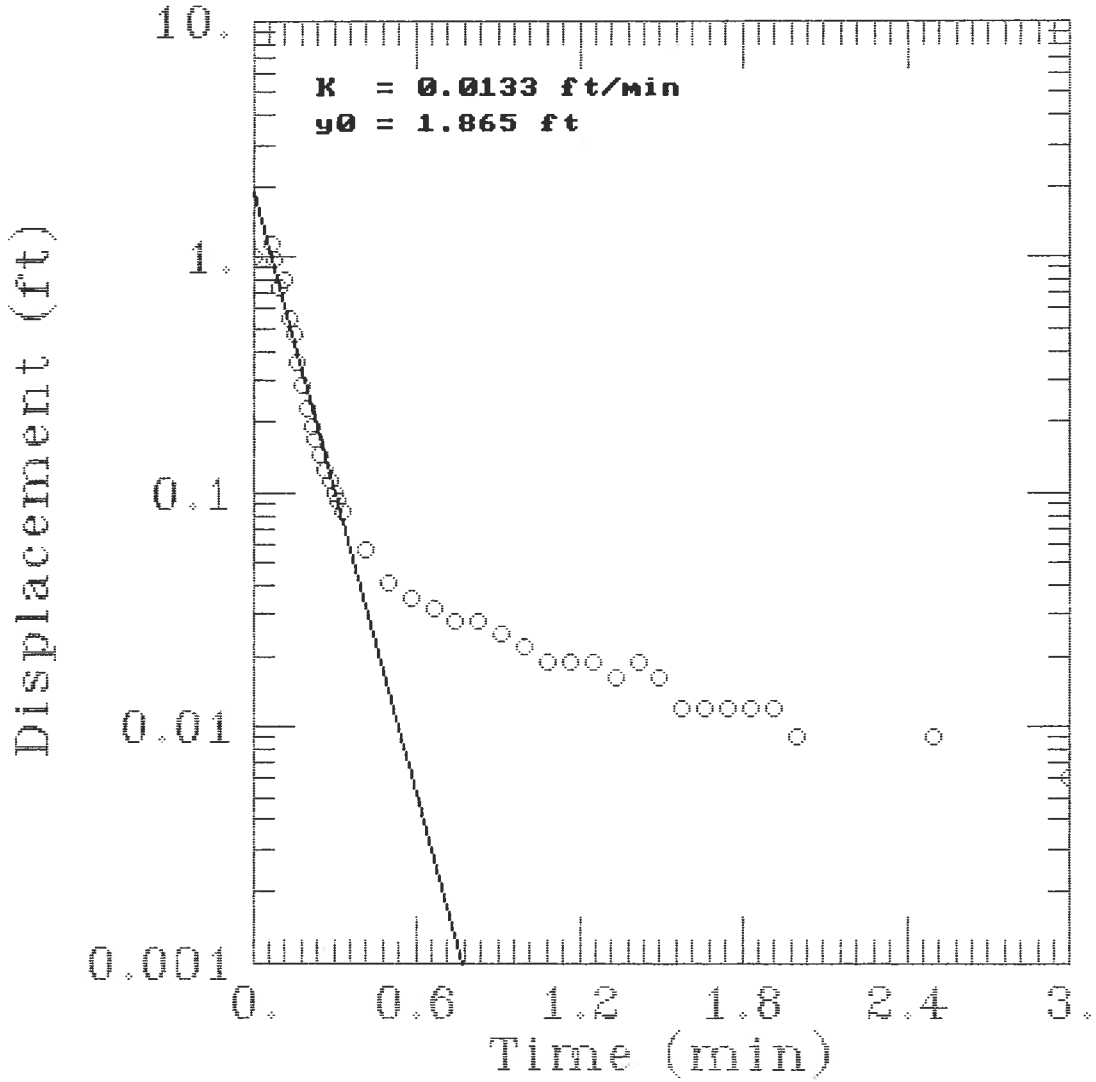

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Modeling Group

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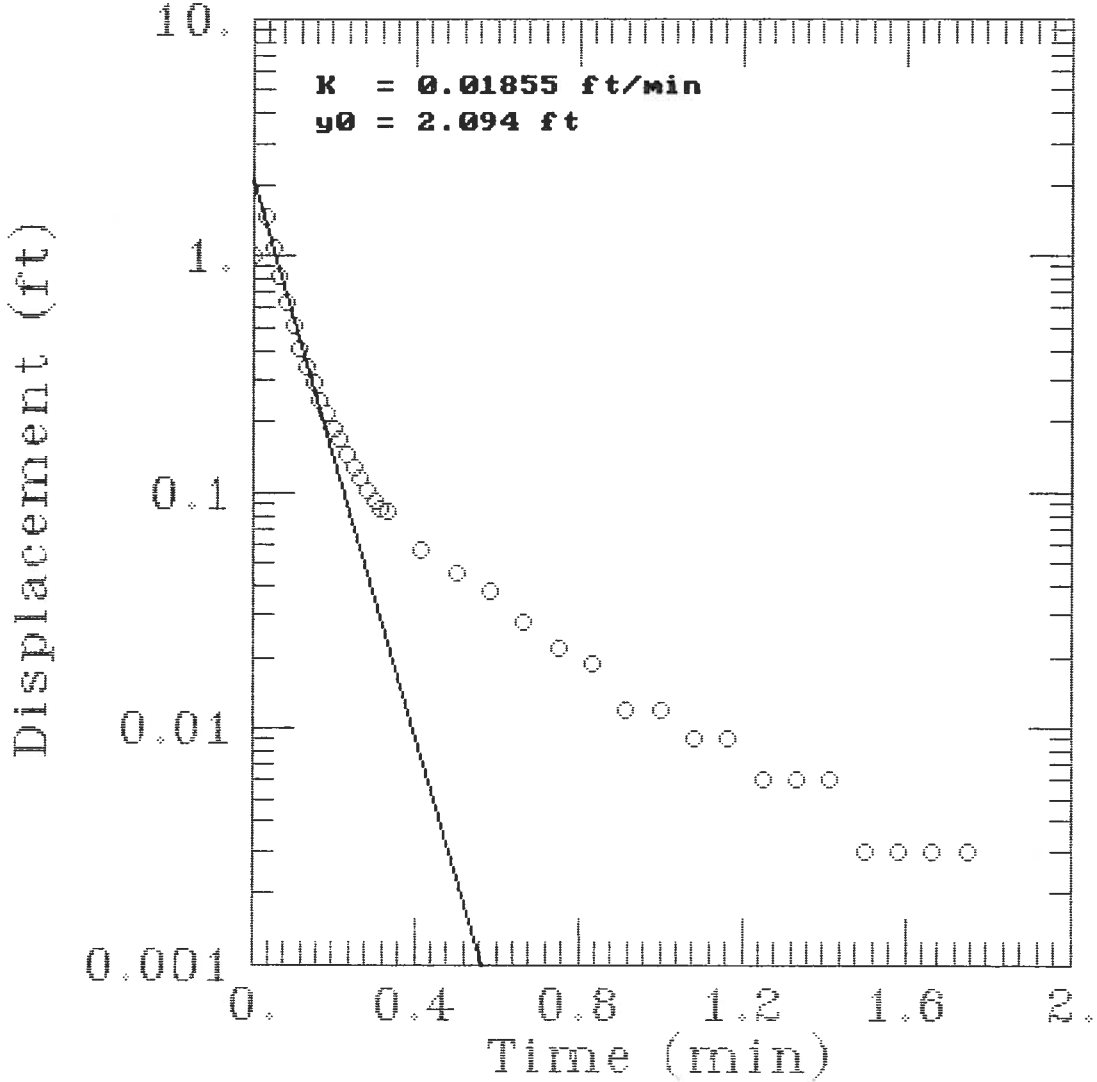

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Modeling Group

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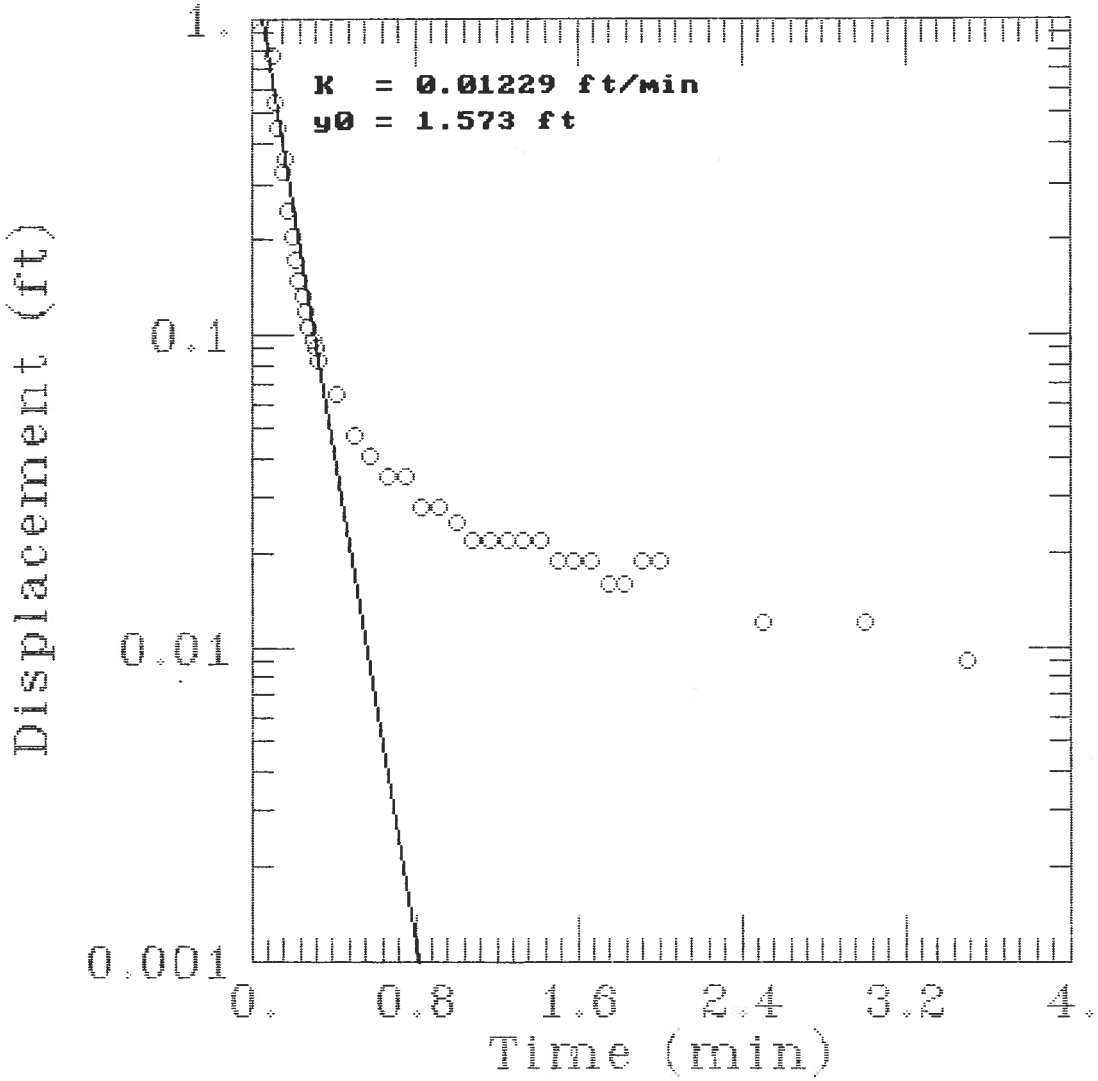

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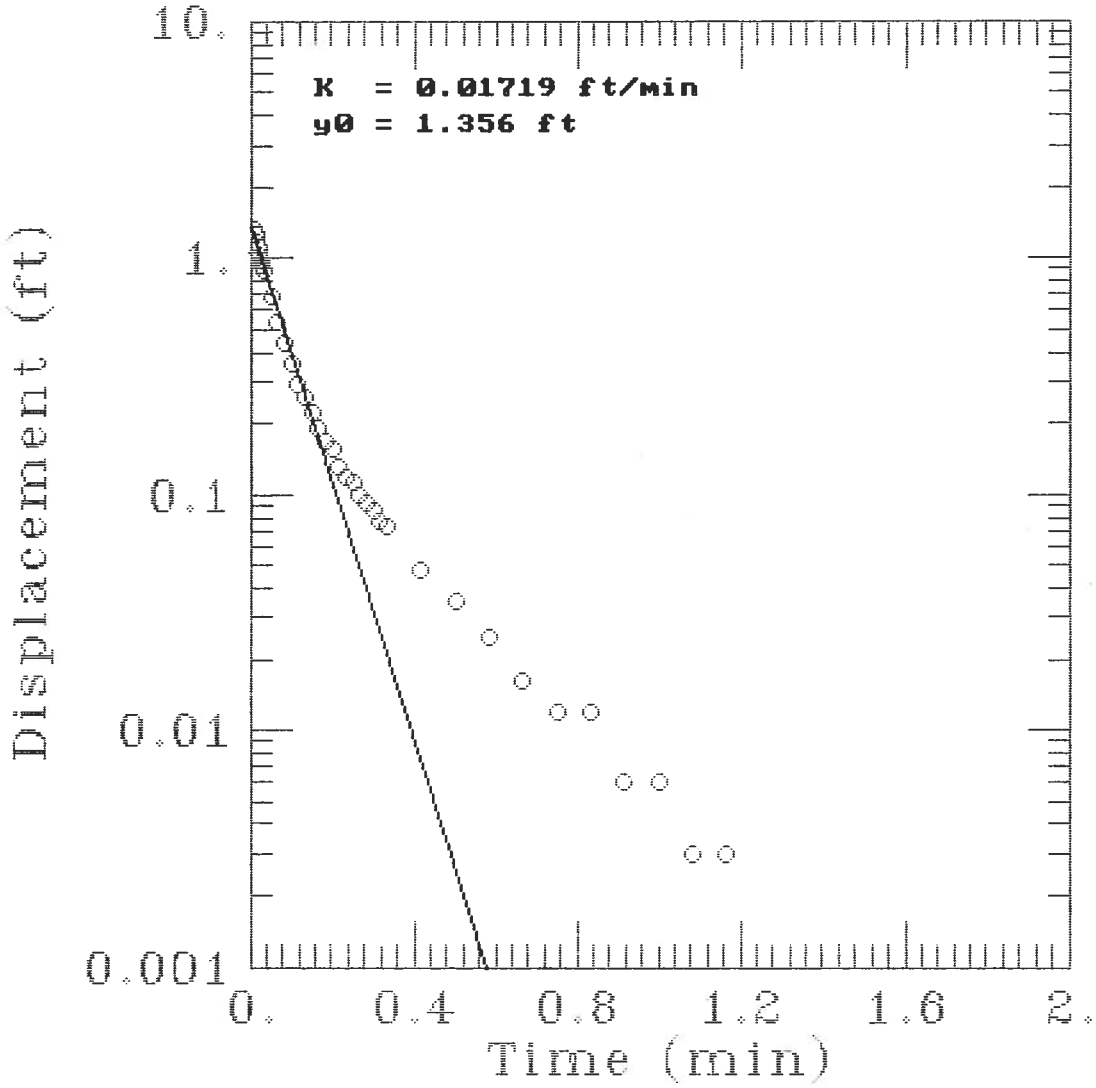

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Table B-1
Summary of Water Level Survey Data

Phase 1 RCRA Facility Investigation
NAVSTA Mayport
Mayport, Florida

Well/Location	X Easting State Plan	Y Northing State Plan	Z Elev. (MSL)	Synoptic Water Level 02/16/92 Time (LCL)	Depth (TOC)	Elev. (MSL)	Synoptic Water Level 03/25/92 Time (LCL)	Depth (TOC)	Elev. (MSL)	Synoptic Water Level 04/20/92 Time (LCL)	Depth (TOC)	Elev. (MSL)
MPT-1-2	372520.267	2202618.261	16.89	NM	NM	NM	NM	NM	NM	02:55 pm	12.09	4.80
MPT-2-2	368573.739	2199855.356	7.56	02:22 pm	3.45	4.11	01:59 pm	3.47	4.09	06:40 pm	3.61	3.95
MPT-2-6	365492.524	2199779.885	9.43	NM	NM	NM	02:06 pm	2.9	6.53	04:30 pm	4.46	4.97
MPT-2-MW-12D	368319.800	2198211.851	5.42	01:20 pm	3.50	1.92	03:24 pm	3.15	2.27	05:27 pm	3.07	2.35
MPT-2-MW-12S	368318.326	2198209.618	5.51	01:25 pm	3.80	1.71	03:24 pm	3.19	2.32	05:25 pm	3.25	2.26
MPT-2-MW-17D	365773.232	2197411.958	7.79	01:32 am	4.10	3.69	03:36 pm	3.66	4.13	04:55 pm	3.71	4.08
MPT-2-MW-17S	365775.389	2197409.629	7.73	01:35 am	3.46	4.27	03:36 pm	3.51	4.22	04:58 pm	3.65	4.08
MPT-2-P2	365498.303	2198464.046	7.97	01:37 am	2.82	5.15	03:51 pm	2.81	5.16	04:50 pm	2.88	5.09
MPT-2-P4	364241.389	2198966.849	32.74	12:55 pm	27.68	5.06	03:30 pm	26.8	5.94	05:44 pm	26.67	6.07
MPT-2-P13	367408.890	2199402.723	11.87	NM	NM	NM	NM	NM	NM	04:15 pm	2.49	9.38
MPT-8-2	366261.822	2204968.168	13.93	NM	NM	NM	NM	NM	NM	NM	FP	NM
MPT-8-3	366363.387	2205069.447	13.72	NM	NM	NM	NM	NM	NM	NM	FP	NM
MPT-9-P1	367665.521	2205413.578	12.22	NM	NM	NM	02:35 pm	10.75	1.47	01:44 pm	10.66	1.56
MPT-11-MW-1	369851.230	2205130.879	12.16	NM	NM	NM	12:40 pm	10.94	1.22	01:36 pm	10.63	1.53
MPT-11-MW-3	369802.751	2205342.926	9.97	NM	NM	NM	12:25 pm	8.77	1.20	01:31 pm	8.45	1.52
MPT-13-1	368004.036	2202051.504	13.06	NM	NM	NM	04:25 pm	7.4	5.66	03:51 pm	2.8	10.26
MPT-13-MW-6	367684.002	2201904.440	9.66	NM	NM	NM	04:35 pm	2.8	6.86	03:17 pm	2.83	6.83
MPT-13-P5	367115.325	2200912.227	6.45	NM	NM	NM	02:17 pm	2.46	3.99	06:30 pm	2.78	3.67
MPT-13-P6	366879.480	2202120.087	10.16	NM	NM	NM	04:40 pm	1.82	8.34	03:45 pm	2.83	7.33
MPT-14-2	374680.537	2203726.012	8.64	NM	NM	NM	12:29 pm	5.52	3.12	02:05 pm	6.37	2.27
MPT-15-P3	NM	NM	10.19	NM	NM	NM	NM	NM	NM	NM	NM	NM
MPT-22-MW-1	366582.711	2200638.399	6.93	02:03 am	2.12	4.81	12:24 pm	2.31	4.62	02:03 am	NM	NM
S-4	364658.446	2199526.503	9.61	NM	NM	NM	03:35 pm	6.67	2.94	0.753472	6.44	3.17
MPT-2-3	364604.886	2199038.697	17.20	NM	NM	NM	03:25 pm	9.15	8.05	05:48 pm	9.01	8.19
MPT-14-P2	375562.214	2204016.180	5.71	11:56 am	3.74	1.97	12:20 pm	3.97	1.74	01:50 pm	3.72	1.99
MPT-14-1	374860.123	2203770.865	7.56	12:02 pm	5.72	1.84	12:26 pm	5.51	2.05	02:00 pm	5.44	2.12
MPT-14-P1	374024.697	2203675.557	6.50	12:05 pm	5.71	0.79	12:34 pm	5.54	0.96	02:20 pm	4.44	2.06
MPT-1-P1	372912.043	2203345.224	7.11	12:07 pm	4.14	2.97	09:21 am	4.49	2.62	02:25 pm	4.33	2.78
MPT-1-P3	372166.046	2202846.207	11.04	12:10 pm	7.32	3.72	12:44 pm	8.62	2.42	02:30 pm	7.6	3.44

See notes at end of table.

Table B-1 (Continued)
Summary of Water Level Survey Data

Phase 1 RCRA Facility Investigation
NAVSTA Mayport
Mayport, Florida

				Synoptic Water Level 02/16/92			Synoptic Water Level 03/25/92			Synoptic Water Level 04/20/92		
Well/Location	X Easting State Plan	Y Northing State Plan	Z Elev. (MSL)	Time (LCL)	Depth (TOC)	Elev. (MSL)	Time (LCL)	Depth (TOC)	Elev. (MSL)	Time (LCL)	Depth (TOC)	Elev. (MSL)
MPT-1-1	372828.999	2202286.898	16.96	12:13 pm	11.40	5.56	12:50 pm	11.85	5.11	02:40 pm	11.88	5.08
MPT-1-P2	373338.715	2202891.025	11.77	12:17 pm	7.63	4.14	12:10 pm	7.92	3.85	02:55 pm	8.06	3.71
MPT-17-P2	370630.280	2201113.614	7.72	12:19 pm	4.94	2.78	12:57 pm	5.03	2.69	03:05 pm	5.04	2.68
MPT-2-15-SR	367584.874	2200460.565	6.65	12:30 pm	3.45	3.20	02:09 pm	3.67	2.98	04:10 pm	3.79	2.86
MPT-2-MW-16S	365475.365	2200288.986	6.73	12:36 pm	2.86	3.87	03:01 pm	2.92	3.81	12:36 pm	NM	
MPT-2-15-DR	367585.292	2200457.999	6.89	12:38 pm	3.80	3.09	02:10 pm	3.96	2.93	04:11 pm	4.05	2.84
MPT-2-MW-16D	365475.209	2200286.791	6.69	12:38 pm	3.56	3.13	02:59 pm	4.75	1.94	12:38 pm	NM	
S-1	366904.007	2204505.599	14.66	12:41 pm	5.28	9.38	02:10 pm	5.55	9.11	05:00 pm	5.38	9.28
MPT-10-P1	365963.797	2204745.462	10.68	12:43 pm	8.47	2.21	02:20 pm	8.61	2.07	12:43 pm	NM	
MPT-8D-P1	367186.012	2204936.811	12.89	12:44 pm	6.10	6.79	02:05 pm	6.31	6.58	04:56 pm	5.91	6.98
MPT-11-MW-2	369902.227	2205331.985	10.42	12:52 pm	9.36	1.06	12:35 pm	1.12	9.30	01:20 pm	8.97	1.45
MPT-2-MW-4R	365011.200	2199896.717	8.29	12:55 pm	5.06	3.23	03:40 pm	5.25	3.04	06:00 pm	5.14	3.15
MPT-15-P1	365689.153	2204181.740	13.28	12:57 pm	8.58	4.70	02:25 pm	9	4.28	04:45 pm	8.74	4.54
MPT-2-P12	365157.004	2196870.257	32.75	01:03 pm	23.65	9.10	02:50 pm	24.12	8.63	05:12 pm	24.26	8.49
MPT-2-P11	364395.626	2196198.862	31.85	01:07 pm	24.46	7.39	03:00 pm	25.89	5.96	05:19 pm	26.01	5.84
MPT-2-P10	363415.515	2195899.820	32.02	01:11 pm	19.75	12.27	03:05 pm	23.03	8.99	05:26 pm	23.51	8.51
MPT-2-MW-11S	368644.337	2198829.883	5.73	01:14 pm	2.40	3.33	03:17 pm	2.27	3.46	05:35 pm	3.02	2.71
MPT-2-P9	362977.876	2197566.006	32.18	01:15 pm	26.20	5.98	03:10 pm	26.43	5.75	01:15 pm	24.65	7.53
MPT-2-P8	367731.872	2197416.959	6.35	01:20 pm	3.50	2.85	03:28 pm	3.4	2.95	05:15 pm	3.35	3.00
MPT-2-P7	366597.014	2197396.923	7.95	01:25 pm	3.80	4.15	03:32 pm	3.9	4.05	05:10 pm	4	3.95
MPT-2-7S	365926.741	2197405.627	10.49	01:27 pm	6.24	4.25	03:43 pm	6.31	4.18	05:03 pm	6.44	4.05
MPT-2-7D	365934.423	2197403.643	9.70	01:30 pm	6.58	3.12	03:43 pm	6.74	2.96	05:05 pm	6.56	3.14
MPT-2-P1	365497.218	2199063.857	7.75	01:38 pm	2.91	4.84	03:56 pm	2.93	4.82	04:45 pm	2.91	4.84
MPT-2-1	365498.666	2199297.512	10.33	01:40 pm	6.10	4.23	03:11 pm	6.07	4.26	04:40 pm	6.07	4.26
MPT-2-8	365838.463	2200144.729	10.55	01:46 pm	4.10	6.45	02:46 pm	4.1	6.40	05:48 pm	4.27	6.28
MPT-2-5	365958.465	2200114.406	9.91	01:49 pm	3.38	6.53	02:50 pm	3.35	6.56	05:45 pm	3.49	6.42
MPT-2-P5	366452.771	2201086.692	7.15	01:59 pm	4.58	2.57	02:29 pm	4.65	2.50	04:25 pm	4.3	2.85
MPT-22-MW-1	366582.711	2200638.399	7.15	02:03 pm	2.12	5.03	02:24 pm	2.31	4.84	06:25 pm	2.43	4.72
MPT-13-MW-4	367688.017	2201085.379	9.88	02:04 pm	4.73	5.15	01:29 pm	5.09	4.79	03:55 pm	5.18	4.70

See notes at end of table.

Table B-1 (Continued)
Summary of Water Level Survey Data

Phase 1 RCRA Facility Investigation
NAVSTA Mayport
Mayport, Florida

				Synoptic Water Level 02/16/92			Synoptic Water Level 03/25/92			Synoptic Water Level 04/20/92		
Well/Location	X Easting State Plan	Y Northing State Plan	Z Elev. (MSL)	Time (LCL)	Depth (TOC)	Elev. (MSL)	Time (LCL)	Depth (TOC)	Elev. (MSL)	Time (LCL)	Depth (TOC)	Elev. (MSL)
MPT-2-10	366391.758	2200333.638	10.02	02:05 pm	3.60	6.42	02:35 pm	3.41	6.61	06:20 pm	3.94	6.08
MPT-2-9S	366127.368	2200345.514	10.50	02:07 pm	4.19	6.31	02:40 pm	4.22	6.28	06:10 pm	4.55	5.95
MPT-13-3	367740.557	2200862.186	10.41	02:08 pm	5.62	4.79	01:24 pm	5.74	4.67	04:00 pm	5.95	4.46
MPT-2-9D	366127.723	2200338.658	10.49	02:10 pm	7.58	2.91	02:40 pm	7.87	2.62	06:12 pm	7.81	2.68
MPT-13-2	367476.397	2201306.774	12.79	02:11 pm	6.97	5.82	01:26 pm	7.23	5.56	03:40 pm	7.26	5.53
MPT-13-MW-5	367718.672	2201499.204	10.04	02:14 pm	3.74	6.30	01:45 pm	3.99	6.05	03:37 pm	4.03	6.01
MPT-13-P3	367715.816	2201497.109	10.18	02:16 pm	3.90	6.28	01:44 pm	4.15	6.03	12:00 am	NM	NM
MPT-2-P3	363421.216	2198074.836	31.93	02:16 pm	25.54	6.39	03:18 pm	25.69	6.24	05:38 pm	25.7	6.23
MPT-13-P4	368068.628	2201301.348	9.31	02:20 pm	3.62	5.69	01:51 pm	3.78	5.53	03:50 pm	3.92	5.39
MPT-2-P6	367964.790	2200321.549	5.10	02:20 pm	2.80	2.30	03:04 pm	4.42	0.68	06:35 pm	2.86	2.24
MPT-17-P1	369942.212	2201071.345	7.97	02:25 pm	4.62	3.35	01:02 pm	5.38	2.59	03:15 pm	5.32	2.65
MPT-8-1	366284.731	2204730.621	15.75	02:39 pm	8.61	7.14	01:45 pm	9.03	6.72	02:39 pm	NM	NM
MPT-9-1	367081.424	2205218.756	14.42	02:50 pm	12.62	1.80	01:55 pm	12.67	1.75	04:51 pm	12.53	1.89
S-3	366783.909	2205411.607	11.9	NM	NM	NM	01:00 pm	10.31	1.59	01:54 pm	10.08	1.82
MPT-9-2	367012.317	2205465.382	13.39	NM	NM	NM	01:05 pm	11.73	1.66	01:58 pm	11.59	1.80
MPT-9-3	367182.992	2205507.619	11.53	NM	NM	NM	01:15 pm	10.86	0.67	02:04 pm	9.89	1.64
S-2	366493.825	2205369.655	10.08	NM	NM	NM	01:30 pm	8.49	1.59	02:13 pm	8.34	1.74
STAFF GAGE CG	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	6.1	NM
STAFF GAGE NB	NM	NM	NM	NM	NM	NM	NM	NM	NM	02:27 pm	3.15	NM
STAFF GAGE MU	NM	NM	NM	NM	NM	NM	NM	NM	NM	04:34 pm	0.6	NM
MPT-13-P1	366075.640	2201715.978	11.04	NM	NM	NM	NM	NM	NM	NM	2.8	8.24
COAST GD. MAY 3	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
MAY-1330-1	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
MAY-1330-3	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
MAY-1330-6	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
MAY-1330-8	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
MAY-1330-10	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM

See notes at end of table.

Table B-1 (Continued)
Summary of Water Level Survey Data

Phase 1 RCRA Facility Investigation
NAVSTA Mayport
Mayport, Florida

				Synoptic Water Level 05/13/92				
Well/Location	X Easting State Plan	Y Northing State Plan	Z Elev. (MSL)	Time (LCL)	Depth (TOC)	Elev. (MSL)	Avg. Depth[1] (MSL)	Depth Standard Deviation[2]
MPT-1-2	372520.267	2202618.261	16.89	02:55 pm	NM	NM	4.80	0.00
MPT-2-2	368573.739	2199855.356	7.56	05:20 pm	4.06	3.50	3.91	0.25
MPT-2-6	365492.524	2199779.885	9.43	05:03 pm	4.62	4.81	5.44	0.78
MPT-2-MW-12D	368319.800	2198211.851	5.42	06:16 pm	3.18	2.24	2.19	0.16
MPT-2-MW-12S	368318.326	2198209.618	5.51	06:15 pm	3.44	2.07	2.09	0.24
MPT-2-MW-17D	365773.232	2197411.958	7.79	06:25 pm	3.77	4.02	3.98	0.17
MPT-2-MW-17S	365775.389	2197409.629	7.73	06:26 pm	3.09	4.64	4.30	0.21
MPT-2-P2	365498.303	2198464.046	7.97	NM	NM	NM	5.13	0.03
MPT-2-P4	364241.389	2198966.849	32.74	05:20 pm	26.94	5.80	5.71	0.39
MPT-2-P13	367408.890	2199402.723	11.87	06:42 pm	3.67	8.20	8.79	0.59
MPT-8-2	366261.822	2204968.168	13.93	NM	FP	NM	NM	NM
MPT-8-3	366363.387	2205069.447	13.72	NM	FP	NM	NM	NM
MPT-9-P1	367665.521	2205413.578	12.22	01:14 pm	10.95	1.27	1.43	0.12
MPT-11-MW-1	369851.230	2205130.879	12.16	01:43 pm	10.69	1.47	1.41	0.13
MPT-11-MW-3	369802.751	2205342.926	9.97	01:28 pm	8.49	1.48	1.40	0.14
MPT-13-1	368004.036	2202051.504	13.06	04:11 pm	7.76	5.30	7.07	2.26
MPT-13-MW-6	367684.002	2201904.440	9.66	04:08 pm	2.98	6.68	6.79	0.08
MPT-13-P5	367115.325	2200912.227	6.45	06:29 pm	3.45	3.00	3.56	0.41
MPT-13-P6	366879.480	2202120.087	10.16	04:23 pm	2.66	7.50	7.72	0.44
MPT-14-2	374680.537	2203726.012	8.64	NM	NM	NM	2.69	0.43
MPT-15-P3			10.19	NM	NM	NM	NM	NM
MPT-22-MW-1	366582.711	2200638.399	6.93	06:22 pm	3.31	3.62	4.35	0.52
S-4	364658.446	2199526.503	9.61	0.746528	6.64	2.97	3.03	0.10
MPT-2-3	364604.886	2199038.697	17.20	03:30 pm	9.23	7.97	8.07	0.09
MPT-14-P2	375562.214	2204016.180	5.71	01:55 pm	3.9	1.81	1.87	0.11
MPT-14-1	374860.123	2203770.865	7.56	02:00 pm	5.96	1.60	1.90	0.20
MPT-14-P1	374024.697	2203675.557	6.50	02:05 pm	4.76	1.74	1.39	0.53
MPT-1-P1	372912.043	2203345.224	7.11	02:12 pm	4.56	2.55	2.73	0.16
MPT-1-P3	372166.046	2202846.027	11.04	02:17 pm	7.94	3.10	3.17	0.49
MPT-1-1	372828.999	2202286.898	16.96	02:24 pm	12.16	4.80	5.13	0.27
MPT-1-P2	373338.715	2202891.025	11.77	01:50 pm	8.29	3.48	3.79	0.24
MPT-17-P2	370630.280	2201113.614	7.72	02:20 pm	5.62	2.10	2.57	0.27
MPT-2-15-SR	367584.874	2200460.565	6.65	07:40 pm	3.7	2.95	3.00	0.12
MPT-2-MW-16S	365475.365	2200288.986	6.73	03:01 pm	3.35	3.38	3.68	0.22
MPT-2-15-DR	367585.292	2200457.999	6.89	07:08 pm	3.97	2.92	2.94	0.09
MPT-2-MW-16D	365475.209	2200286.791	6.69	03:00 pm	3.9	2.79	2.62	0.50
S-1	366904.007	2204505.599	14.66	NM	NM	NM	9.26	0.11
MPT-10-P1	365963.797	2204745.462	10.68	02:15 pm	9.6	1.08	1.79	0.50
MPT-8D-P1	367186.012	2204936.811	12.89	01:55 pm	9.23	3.66	6.00	1.36
MPT-11-MW-2	369902.227	2205331.985	10.42	NM	NM	NM	3.93	3.80
MPT-2-MW-4R	365011.200	2199896.717	8.29	NM	NM	NM	3.14	0.08
MPT-15-P1	365689.153	2204181.740	13.28	02:29 pm	9.09	4.19	4.42	0.20
MPT-2-P12	365157.004	2196870.257	32.75	05:37 pm	24.54	8.21	8.61	0.32
MPT-2-P11	364395.626	2196198.862	31.85	04:40 pm	26.06	5.79	6.24	0.66

See notes at end of table.

Table B-1 (Continued)
Summary of Water Level Survey Data

Phase 1 RCRA Facility Investigation
NAVSTA Mayport
Mayport, Florida

Well/Location	X Easting State Plan	Y Northing State Plan	Z Elev. (MSL)	Synoptic Water Level 05/13/92 Time (LCL)	Depth (TOC)	Elev. (MSL)	Avg. Depth[1] (MSL)	Depth Standard Deviation[2]
MPT-2-P10	363415.515	2195899.820	32.02	04:49 pm	24.49	7.53	9.32	1.78
MPT-2-MW-11S	368644.337	2198829.883	5.73	06:06 pm	3.26	2.47	2.99	0.41
MPT-2-P9	362977.876	2197566.006	32.18	04:59 pm	26.55	5.63	6.22	0.77
MPT-2-P8	367731.872	2197416.959	6.35	NM	NM	NM	2.93	0.06
MPT-2-P7	366597.014	2197396.923	7.95	NM	NM	NM	4.05	0.08
MPT-2-7S	365926.741	2197405.627	10.49	03:44 pm	6.88	3.61	4.02	0.25
MPT-2-7D	365934.423	2197403.643	9.70	03:51 pm	6.71	2.99	3.05	0.08
MPT-2-P1	365497.218	2199063.857	7.75	NM	NM	NM	4.83	0.01
MPT-2-1	365498.666	2199297.512	10.33	06:30 pm	6.18	4.15	4.22	0.05
MPT-2-8	365838.463	2200144.729	10.55	NM	NM	NM	6.38	0.07
MPT-2-5	365958.465	2200114.406	9.91	NM	NM	NM	6.50	0.06
MPT-2-P5	366452.771	2201086.692	7.15	NM	NM	NM	2.64	0.15
MPT-22-MW-1	366582.711	2200638.399	7.15	NM	NM	NM	4.86	0.13
MPT-13-MW-4	367688.017	2201085.379	9.88	06:59 pm	8.41	1.47	4.03	1.49
MPT-2-10	366391.758	2200333.638	10.02	05:14 pm	4.68	5.34	6.11	0.48
MPT-2-9S	366127.368	2200345.514	10.50	05:10 pm	5.1	5.40	5.99	0.37
MPT-13-3	367740.557	2200862.186	10.41	06:57 pm	6.37	4.04	4.49	0.29
MPT-2-9D	366127.723	2200338.658	10.49	01:55 am	4.93	5.56	3.44	1.23
MPT-13-2	367476.397	2201306.774	12.79	06:44 pm	7.35	5.44	5.59	0.14
MPT-13-MW-5	367718.672	2201499.204	10.04	NM	NM	NM	6.12	0.13
MPT-13-P3	367715.816	2201497.109	10.18	04:55 pm	4.47	5.71	6.01	0.23
MPT-2-P3	363421.216	2198074.836	31.93	05:05 pm	25.89	6.04	6.22	0.12
MPT-13-P4	368068.628	2201301.348	9.31	06:50 pm	4.21	5.10	5.43	0.22
MPT-2-P6	367964.790	2200321.549	5.10	NM	NM	NM	1.74	0.75
MPT-17-P1	369942.212	2201071.345	7.97	NM	NM	NM	2.86	0.34
MPT-8-1	366284.731	2204730.621	15.75	NM	NM	NM	6.93	0.21
MPT-9-1	367081.424	2205218.756	14.42	02:38 pm	12.65	1.77	1.80	0.05
S-3	366783.909	2205411.607	11.9	NM	NM	NM	1.71	0.12
MPT-9-2	367012.317	2205465.382	13.39	NM	NM	NM	1.73	0.07
MPT-9-3	367182.992	2205507.619	11.53	NM	NM	NM	1.16	0.49
S-2	366493.825	2205369.655	10.08	NM	NM	NM	1.67	0.08
STAFF GAGE CG	NM	NM	NM	NM	NM	NM	NM	NM
STAFF GAGE NB	NM	NM	NM	NM	NM	NM	NM	NM
STAFF GAGE MU	NM	NM	NM	NM	NM	NM	NM	NM
MPT-13-P1	366075.640	2201715.978	11.04	NM	4.48	NM	NM	NM
COAST GD. MAY 3	NM	NM	NM	01:35 pm	4.79	NM	NM	NM
MAY-1330-1	NM	NM	NM	NM	NM	NM	NM	NM
MAY-1330-3	NM	NM	NM	03:45 pm	6.6	NM	NM	NM
MAY-1330-6	NM	NM	NM	NM	NM	NM	NM	NM
MAY-1330-8	NM	NM	NM	NM	NM	NM	NM	NM
MAY-1330-10	NM	NM	NM	NM	NM	NM	NM	NM

[1]Arithmetic average of all water level measurements for each well.
[2]Standard deviation of all water level measurements for each well.

Notes: MSL = mean sea level.
LCL = local.
TOC = top of casing.
NM = not measured.
FP = free product.

APPENDIX C

KBN BIOLOGICAL INVENTORY REPORT

BIOLOGICAL FIELD INVESTIGATION

NAVAL STATION MAYPORT

Prepared for

ABB Environmental Services, Inc.
Tallahassee, Florida 32301

Prepared by

KBN Engineering and Applied Sciences, Inc.
Gainesville, Florida

Subcontract 1-08-388
Project Number 32010C
May, 1992

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LIST OF ACRONYMS

ABB-ES	ABB-Environmental Services, Inc.
CLEAN	Comprehensive Long-Term Environmental Action Navy
cm	centimeter
EPA	U.S. Environmental Protection Agency
ESE	Environmental Science and Engineering, Inc.
F.A.C.	Florida Administrative Code
FDER	Florida Department of Environmental Regulation
ft	feet
IAS	Initial Assessment Study
KBN	KBN Engineering and Applied Sciences, Inc.
mg/l	milligram per liter
mL	milliliter
mm	millimeter
MPT	Mayport
NAVSTA	U.S. Naval Station
NIRP	Navy Installation Restoration Program
ppt	parts per thousand
PVC	polyvinyl chloride
QAPP	Quality Assurance Program Plan
RCRA	Resource Conservation and Recovery Act
RFI	RCRA Facility Investigation
SDIV	Southern Division, Naval Facilities Engineering Command
SWMU	solid waste management unit
USACE	U.S. Army Corps of Engineers
USFWS	U.S. Fish and Wildlife Service
μ	micron
μmhos/cm	micromhos per centimeter

1.0 INTRODUCTION

Eighteen solid waste management units (SWMUs) have been identified by the U.S. Environmental Protection Agency (EPA) at the U.S. Naval Station (NAVSTA) at Mayport, Duval County, Florida. Resource Conservation and Recovery Act (RCRA) Facility Investigations (RFIs) are required at these sites to determine the nature and extent of releases and potential pathways of contamination emanating from these sites via air, land, surface water, or groundwater. KBN Engineering and Applied Sciences, Inc. (KBN) was subcontracted by ABB-Environmental Services, Inc. (ABB-ES), to conduct biological surveys at the NAVSTA Mayport site for SWMUs located in Group I, as defined in the RFI Work Plan (ABB-ES, 1991). These investigations are being conducted on behalf of the Southern Division, Naval Facilities Engineering Command (SDIV) under Contract Number N62467-89-D-0367, Comprehensive Long-Term Environmental Action Navy (CLEAN) District I.

Previous biological investigations at the site conducted as part of the Initial Assessment Study (IAS) defined the locations of ecosystems and potential environmental receptors on NAVSTA Mayport [Environmental Science and Engineering, Inc. (ESE), 1986]. Threatened, endangered, or protected species potentially occurring in the vicinity of the site were also identified. The current study further documents the environmental conditions at the site and presents new information regarding the aquatic ecosystem. ABB-ES will use this information to identify actual or potential environmental receptors to be used in ecological risk assessments as part of the facility-wide exploration.

2.0 MATERIALS AND METHODS

Phase I and partial Phase II biological field investigations were conducted at NAVSTA Mayport the week of January 20, 1992. The objectives of the Phase I biological field investigation were to:

1. Identify basic environmental characteristics, and
2. Identify important aquatic and terrestrial organisms (receptors).

These objectives were accomplished by conducting aquatic and terrestrial field surveys at selected locations at NAVSTA Mayport. The locations were SWMUS 2, 3, 4, 5, and 13 [corresponding to Navy Installation Restoration Program (NIRP) Sites 2, 4, 5, 6, and 13]. These SWMUs are described in detail in the RFI Workplan of NAVSTA (ABB-ES, 1991) and are cross-referenced in Table 2-1.

The objectives of a Phase II biological field investigation are to:

1. Identify areas of contamination and ecological effects,
2. Estimate the magnitude and variation of toxic effects, and
3. Identify contaminant levels in aquatic biota.

KBN was subcontracted to provide additional information in order to achieve the Phase II objectives. Quantitative benthic surveys (bioassessment methods) were conducted at SWMUs 2, 3, 4, and 5 (NIRP Sites 2, 4, 5, and 6). Bioassessment methods such as quantitative benthic surveys are used to define ecological effects of on-site contamination.

2.1 AQUATIC BIOLOGICAL SURVEYS

2.1.1 DESCRIPTION OF SAMPLING STATIONS

Twelve stations were sampled during the biological field investigation including three reference stations. These stations were selected by ABB-ES personnel in accordance with the RFI Work Plan as modified by actual field conditions, with one exception; KBN provided input on the location of SWMU 13 (NIRP Site 13) stations. The station locations are shown in Figures 1 and 2. The reference stations were (Figure 1):

MPT-B-BIO-1,
MPT-B-BIO-2, and
MPT-B-BIO-3.

Table 2-1. Site Numbering and Nomenclature--NAVSTA Mayport

SWMU	NIRP Site	Description
2	2	Landfill B
3	4	Landfill D
4	5	Landfill E
5	6	Landfill F
13	13	Old Fire Training Area

Source: ABB-ES, 1991.

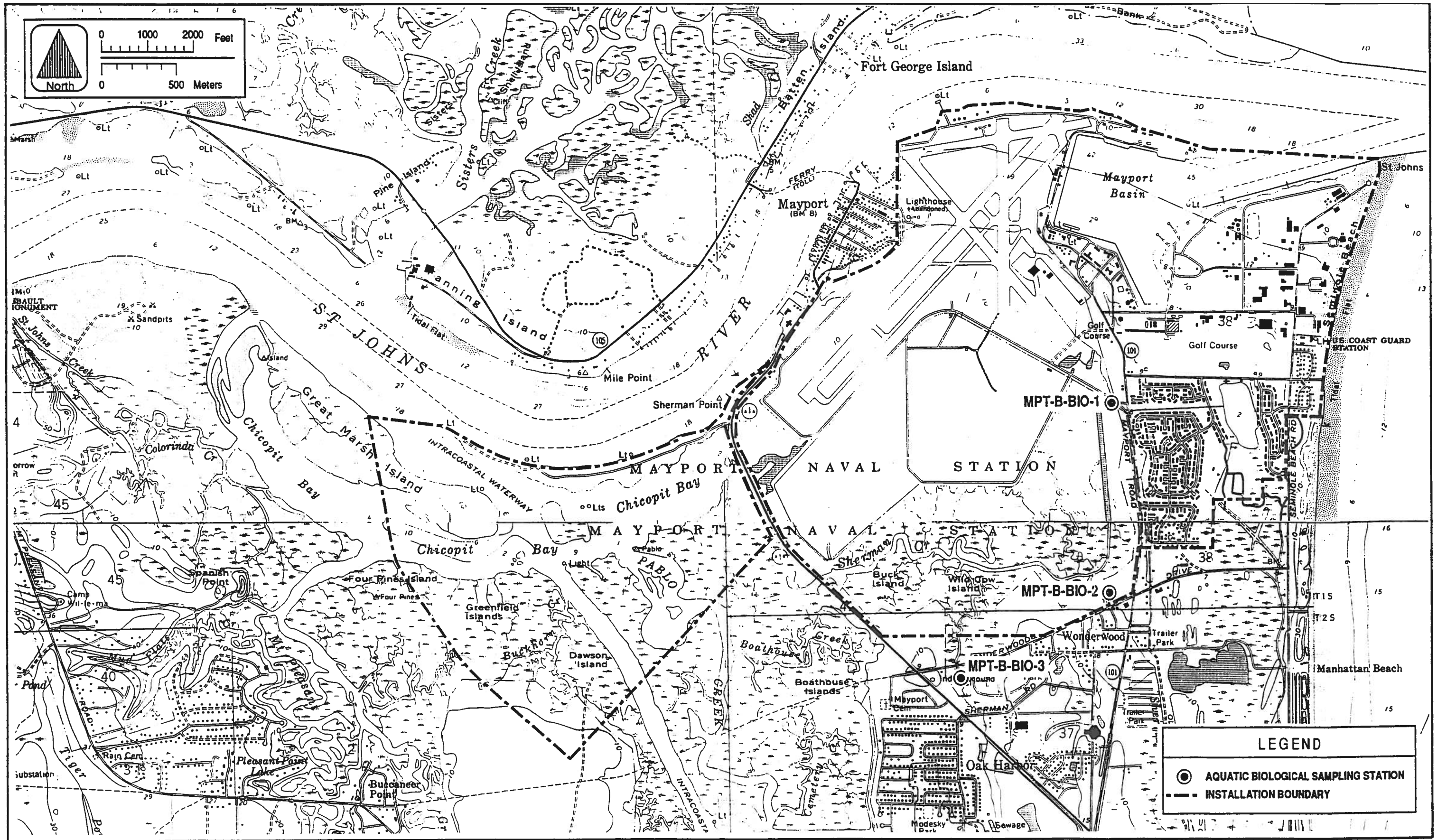

Figure 1 SITE LOCATION, U.S. NAVAL STATION, MAYPORT, FLORIDA
BACKGROUND AQUATIC BIOLOGICAL SAMPLING LOCATIONS

KBN

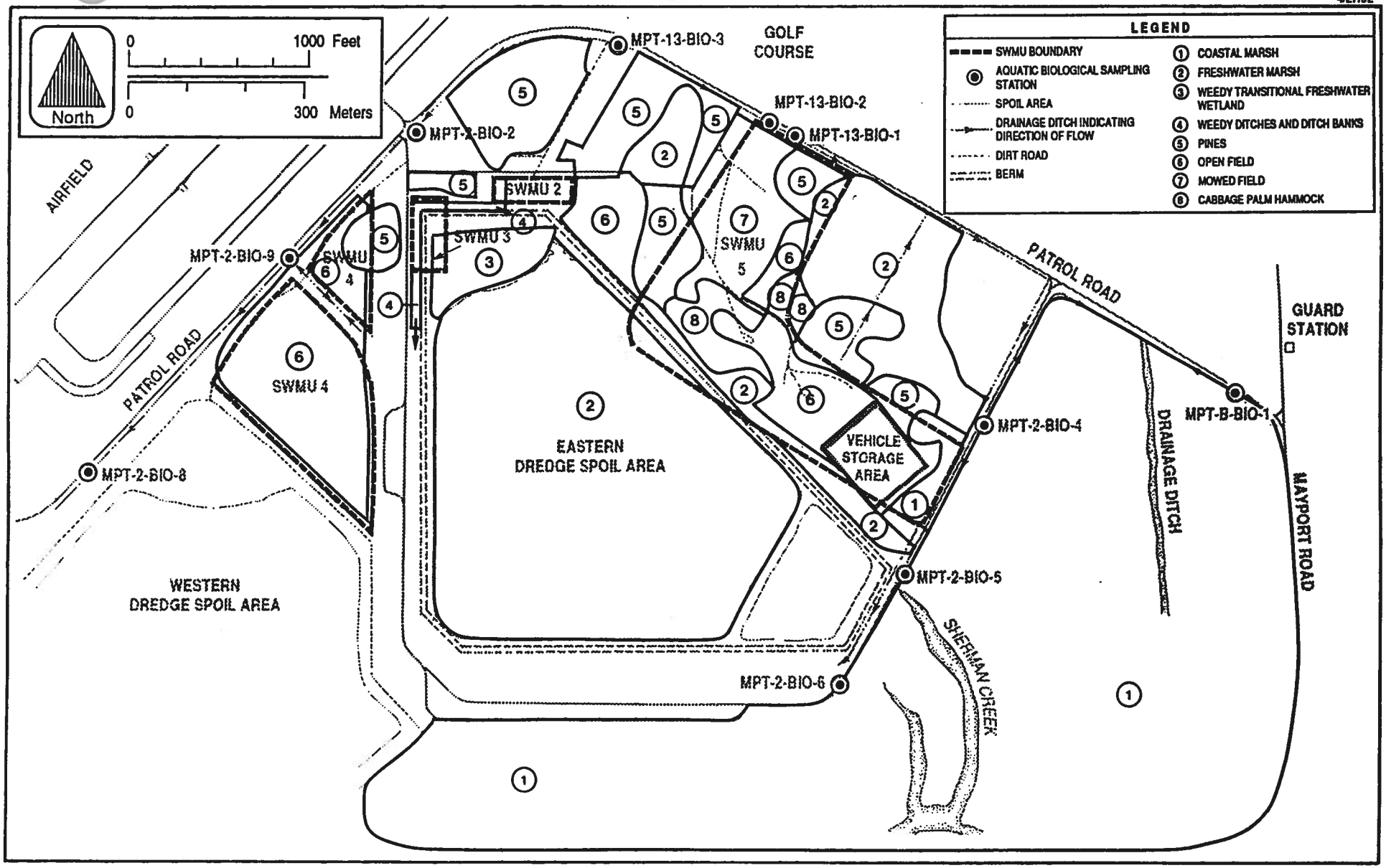

Figure 2 LOCATION OF SOLID WASTE MANAGEMENT UNITS (SWMUs) 2,4,5, AND 6, HABITATS, AND AQUATIC BIOLOGICAL SAMPLING STATIONS

KBN

Six stations were sampled near SWMUs 2, 3, 4, and 5 (NIRP Sites 2, 4, 5, and 6) and were identified as (Figure 2):

MPT-2-BIO-2,
MPT-2-BIO-4,
MPT-2-BIO-5,
MPT-2-BIO-6,
MPT-2-BIO-8, and
MPT-2-BIO-9.

Three stations were sampled near SWMU 13 (Figure 2):

MPT-13-BIO-1,
MPT-13-BIO-2, and
MPT-13-BIO-3.

The following is a description of these sampling stations.

MPT-B-BIO-1

This station was located within the tidal ditch along the secondary entrance/patrol road immediately inside of the NAVSTA Mayport perimeter (Figures 1 and 2). The tidal ditch was connected to, and tidally influenced by, the major north-south drainage ditch immediately west of the station location. This north-south drainage ditch connected to Sherman Creek. Tidal fluctuation at this location was approximately 4 feet (ft). This location also received surface water runoff from a golf course pond through a 12-inch-diameter pipe fitted with a flap gate. The flap gate, however, was fixed in an open position, allowing tidal exchange to the golf course pond.

The ditch was approximately 25 ft wide (to landward edges of wetland vegetation). The center of the ditch was unvegetated with a shelly to fine sand bottom. The banks of the ditch were vegetated with cordgrass (*Spartina alterniflora*). The sediment along the banks was soft mud.

MPT-B-BIO-2

This station was located north of Wonderwood Drive on a small tributary to Sherman Creek (Figure 1). The station was tidally influenced but the observed flow was toward Sherman Creek (northward) during the sampling period (i.e, ebb tide is typically stronger than flood tide). Tidal fluctuation at this location was approximately 3 ft. Two 24-inch-diameter culverts channelized the

flow of the creek under Wonderwood Drive. A sewage treatment plant was located south of Wonderwood Drive and had a stormwater discharge into the creek at the time of sampling.

The creek was approximately 10 ft wide (to the landward edges of wetland vegetation). The center of the creek was a muddy bottom littered with debris. The banks were vegetated with cordgrass. Duckweed (*Spirodela* sp.) was floating on the water surface. Transitional vegetation included cabbage palm (*Sabal palmetto*), Eastern red cedar (*Juniperus virginica*), giant maidencane (*Phragmites* sp.), oak (*Quercus* sp.), groundsel bush (*Baccharis* sp.), and wax myrtle (*Myrica cerifera*).

MPT-B-BIO-3

This station was located north of Wonderwood Drive on a tributary of Sherman Creek (Figure 1). As with the previous station, the flow was typically northward toward Sherman Creek. Tidal fluctuation was approximately 4 ft. This creek passed under Wonderwood Drive through a 4-ft box culvert. A crescent-shaped bar was formed on the north side of Wonderwood Drive by tidal flow action through the box culvert. This bar, exposed at low tide, consisted of predominately oyster shell debris.

The creek was greater than 30 ft wide. Bottom substrate in most areas except the bar was soft mud. Clumps of oysters (*Crassostrea virginica*) were observed along the vegetated edges of the creek. The contiguous vegetated saltmarsh was extensive. Most abundant saltmarsh vegetation included black needlerush (*Juncus roemerianus*) and cordgrass. Transitional vegetation included wax myrtle and cabbage palm.

MPT-2-BIO-2

This station was located within the NAVSTA Mayport patrol road drainage ditch north of SWMUs 2 and 3 (NIRP Sites 2 and 4) and may receive surface water runoff from those sites (Figure 2). The site may also be considered as downstream from Site 13. A deadend canal extended south from the station towards SWMU 3 (NIRP Site 4) but did not extend under the east-west road. The canal was connected tidally to the southwest through a 4-ft culvert under the north-south road. Tidal fluctuation was approximately 2 ft. The station was littered with debris from a 4-ft-diameter culvert.

The ditch was approximately 20 to 30 ft wide. Bottom substrate was soft mud. Emergent vegetation included cattail (*Typha* sp.). Transitional vegetation included cabbage palm, Eastern red cedar, and groundsel bush.

MPT-2-BIO-4

This station was the northernmost station along the ditch east of SWMU 5 (NIRP Site 6) and the eastern dredge spoil area (Figure 2). Tidal influence to this station could occur from the north and east (through the large "drainage ditch" east of the station) and from the south and east (from Sherman Creek). Tidal fluctuation was approximately 3 ft.

The canal was approximately 10 ft wide bordered on the east by high marsh and on the west by the road shoulder. Bottom substrate was sand and mud. The canal was lined with cordgrass. Transitional vegetation included salt grass (*Distichlis spicata*) in the high marsh and groundsel bush along the road shoulder.

MPT-2-BIO-5

This station was located east of SWMU 5 (NIRP Site 6) and the eastern dredge spoil area within the roadside canal (Figure 2). As described above, tidal influence along this ditch was from the northeast and southeast. This station, however, was probably more influenced by tributaries of Sherman Creek entering the high marsh area from the southeast (Figure 2). Tidal fluctuation at the station was approximately 3 ft. The station area received surface water runoff through a 3-ft-diameter culvert from the area of SWMU 5 (NIRP Site 6). This culvert was below the tide level; therefore, tidal waters entered the pipe. The opposite end of the culvert in SWMU 5 (NIRP Site 6) was not found.

The station area was approximately 15 to 20 ft wide bordered on the east by high marsh and a tributary to Sherman Creek and on the west by the road shoulder. Bottom substrate was soft mud. The canal was lined with cordgrass. High marsh vegetation included salt grass. The tributary to Sherman Creek was filled with cordgrass. Transitional vegetation along the road shoulder included groundsel bush.

MPT-2-BIO-6

This station was located southeast of SWMU 5 (NIRP Site 6) and eastern dredge disposal area within the roadside canal (Figure 2). Tidal influence to the area was from the tributaries of

Sherman Creek to the southeast. Tidal fluctuation at the site was approximately 3 ft. Four 12-inch-diameter culverts entered the station area from under the road presumably draining the low area south and at the base of the eastern dredge disposal area dike. A low flow drainage with a hydrogen sulfide-rich odor was entering the station area through these culverts. The pipes were installed above normal tidal level so that tidal water typically does not pass through the pipes.

The canal was approximately 10 ft wide at this station. Bottom substrate was soft mud. Cordgrass lined the canal and extended southeast toward Sherman Creek. Transitional vegetation along the road shoulder included groundsel bush.

MPT-2-BIO-8

This station was located in a tidal ditch at the base of the dike of the western dredge disposal area and southwest of SWMU 4 (NIRP Site 5) (Figure 2). The station was tidally connected to Chicopit Bay to the southwest (Figure 1). Tidal fluctuation at the site was approximately 3 ft.

The canal was approximately 30 ft wide. Bottom substrate was soft mud. Emergent vegetation lining the canal included cattail, cordgrass, and giant bulrush (*Scirpus californicus*). Transitional vegetation included groundsel bush.

MPT-2-BIO-9

This station was located northeast of MPT-2-BIO-8 along the same tidal ditch (Figure 2). The station area received surface water runoff from SWMU 4 (NIRP Site 5): to the southeast, through a 3-ft-diameter culvert and from the runway area; to the northwest, through a 3-ft-diameter culvert. Tidal fluctuation at the site appeared minimal. The site was receiving a flow of surface water from SWMU 4 (NIRP Site 5) which continued to flow northeast in the canal.

The canal was approximately 20 ft wide. Bottom substrate was sand and soft mud. Emergent vegetation included cattail and cordgrass. Duckweed was floating on the water coming from SWMU 4 (NIRP Site 5). Transitional vegetation included eastern red cedar and groundsel bush.

MPT-13-BIO-1

This station was located within the ditch along the patrol road northeast of SWMU 5 (NIRP Site 6) and southeast of SWMU 13 (NIRP Site 13) (Figure 2). Tidal influence to the station area was from the southeast. Tidal fluctuation at the station was approximately 3 to 4 ft.

The canal was approximately 12 ft wide. Bottom substrate was soft mud. Cordgrass lined the sides of the canal. Transitional vegetation included cabbage palm and groundsel bush.

MPT-13-BIO-2

This station was located within the ditch along the patrol road northeast of SWMU 5 (NIRP Site 6) and directly south of SWMU 13 (NIRP Site 13) (Figure 2). The station was directly up tidal gradient from MPT-13-BIO-1 and separated from that station by a 4-ft-diameter culvert under a roadway. Tidal fluctuation at the site was approximately 3 ft. The station area received surface water runoff from SWMU 13 (NIRP Site 13) through a 3-ft-diameter culvert.

The canal was approximately 20 ft wide. Bottom substrate was soft mud. Cordgrass lined the sides of the canal and formed an island in the center of the canal at the surface water discharge location. Transitional vegetation included groundsel bush.

MPT-13-BIO-3

This station was located within the ditch along the patrol road southwest of SWMU 13 (NIRP Site 13) (Figure 2). This station was located at the extent of tidal influence from the southeast or the southwest. Tidal fluctuation was minimal. The station location was connected by a 3-ft-diameter culvert to a surface water retention pond located across the patrol road to the north of the station.

The canal was approximately 20 ft wide. Bottom substrate was soft mud. The shoreline was lined with cordgrass. Transitional vegetation included cabbage palm, eastern red cedar, and groundsel bush.

2.1.2 AQUATIC SURVEY METHODS

The aquatic survey included qualitative and quantitative sampling at all stations except the stations near SWMU 13 (NIRP Site 13) (i.e., MPT-13-BIO-1, MPT-13-BIO-2, and MPT-13-BIO-3) where only qualitative samples were collected and analyzed, as specified in the RFI Work Plan (ABB-ES, 1991). A detailed description of field methods is presented in the following subsections.

<u>Qualitative Surveys</u>--A qualitative aquatic biological survey was conducted at all stations sampled. The qualitative survey included measurements of basic physical and chemical water

quality parameters, descriptions of the major aquatic habitats comprising the sampling location, and collection of aquatic organisms.

Basic physical and chemical parameters collected at each station included: depth, water body width, bottom substrate type, water clarity, water flow, conductivity, salinity, pH, temperature, and dissolved oxygen levels. Many of the stations sampled were tidally influenced; parameters such as depth, water clarity, and water flow are affected by the tidal condition at the station at the time of sampling (see Appendices A and B for sampling time and predictions of times of high and low tide during the sampling period). Conductivity, salinity, pH, temperature, and dissolved oxygen levels were measured using a Hydrolab Corporation Surveyor® II. Water flow was estimated using a drogue timed over a measured distance. Calibration and use of instrumentation are described in KBN's Comprehensive Project Quality Assurance Program Plan (QAPP). Copies of applicable QAPP sections are included in Appendix C.

Aquatic organisms were collected from as many different habitats as possible at each station. Fish and macroinvertebrates were collected using D-frame aquatic dip nets and seines. These samples were fixed with 10 percent formalin. Phytoplankton and zooplankton were collected using a 2-inch [5.1 centimeter (cm)] polyvinyl chloride (PVC) tube to collect a surface to near bottom water column sample. With the top end open, a PVC tube of appropriate length was lowered vertically into the water to approximately 0.2 m above the substrate. The top end of the tube was then stoppered and the tube vertically raised to the surface. With the open bottom end of the tube just below the surface, the open end was covered with a stopper, the tube was raised above the water surface, and the contents were released into a clean bucket. A minimum of five water column samples were pooled to collect approximately 1,000 milliliters (mL) of water for analysis. Samples were fixed with a 2 percent Lugol solution.

Preserved aquatic organisms were sorted in the laboratory and identified to the lowest practical taxonomic level. Taxonomic data were tabulated for each station.

<u>Quantitative Surveys</u>--The objective of the quantitative surveys was to use a bioassessment method to define the extent of ecological effects in the aquatic environment in the vicinity of SWMUs 2, 3, 4, and 5 (NIRP Sites 2, 4, 5, and 6) as compared to reference stations.

At each station, five replicate petite ponar samples were collected. The samples were sieved through a 0.5 millimeter (mm) screen and were fixed in 10 percent formalin with Rose Bengal added. In the laboratory, organisms were sorted from three replicate samples and identified to the lowest practical taxonomic level. Two replicate samples were archived for later analysis, if required.

Taxonomic data were tabulated as species lists and a summary of taxa and individuals within each phylum and each replicate collected per station. The following biological community parameters were used to summarize the data:

1. Total taxa and mean taxa per replicate found at each station.
2. Total number of individuals found at each station and extrapolated to number of individuals per square meter (density).

The structure and function of aquatic benthic communities (e.g., biological integrity) is defined in Chapter 17-3 Florida Administrative Code (F.A.C.) rules in terms of the Shannon-Weaver diversity index of benthic macroinvertebrates ($\bar{d}$).

Diversity is a measure of the heterogeneity in a community or assemblage of organisms. These indices vary with both the number of species present (species richness) and the distribution of individuals among species (equitability or evenness). Species richness and evenness were evaluated separately Margelef's Index of Species Richness (D) and an equitability index (e) (Appendix D). Community similarity was calculated to compare background reference stations to project area (SWMU) stations for similar species using the Community Loss Index. The percent composition of dominant taxa was calculated as the ratio of the taxonomic group with the most individuals (dominant) to the total number of organisms. The formulas for benthic indices are presented in Appendix D. The laboratory used for taxonomic analysis maintains an EPA-approved QA/QC program. Data are checked prior to analysis and randomly checked for calculation errors following analysis.

2.2 WETLAND AND TERRESTRIAL BIOLOGICAL SURVEYS

2.2.1 AREAS SURVEYED

Qualitative biological surveys were conducted January 23, 1992. The surveys were conducted in order to obtain information on wetlands, vegetation, and wildlife habitats for SWMUs 2, 3, 4, 5, and 13 (NIRP Sites 2, 4, 5, 6, and 13.) The results of the surveys were used to verify the

communities and habitats described in the IAS (ESE, 1986). The surveys were conducted on foot throughout the sites. Habitats were characterized according to Myers and Ewel (1990).

2.2.2 WETLANDS

The wetland identifications were made following guidelines of the U.S Army Corps of Engineers (USACE, 1989) and the Florida Department of Environmental Regulation (FDER) [Florida Statutes (FS) 403, Tallahassee, Florida]. Each site was examined for topographic features and vegetation that would characterize wetlands. Areas determined to be wetlands were marked on a field map, which was used to prepare Figure 2.

Federal Jurisdiction--USACE is charged with regulating wetlands in conjunction with EPA and the U.S. Fish and Wildlife Service (USFWS). USACE categories and definitions are given in Table 2-2. A plant community is a wetland under this system if the combination of coverage of all species with a obligate wetland, facultative wetland, and/or facultative status is 50 percent or greater.

State of Florida Jurisdiction--FDER is the state agency which regulates wetlands in Florida. The FDER definitions below refer to the Florida list of plant species that determine wetlands under the Henderson Act (FS 403).

S (submerged) - plant species that are always found in wetlands.

T (transitional) - plant species that are found in both wetlands and uplands.

I (invisible) - plant species that are to be disregarded when making wetland assessments.

U (upland) - plant species that are always found in uplands.

Regional Jurisdiction--Five regional water management districts exert additional regulatory authority over wetlands. The St. Johns River Water Management District (SJRWMD) has jurisdiction in northeast Florida (FS 120 and FS 373, Tallahassee, Florida). FDER has delegated its responsibility for dredge and fill permitting to SJRWMD. SJRWMD uses the same list of plant species that FDER uses as authorized under the Henderson Act.

Determinations are normally made using the top stratum (canopy). An asterisk (*) indicates that, if strata are combined, this species is considered submerged. A site is considered a wetland if the combination of S and T is greater than 50 percent, S is greater than 10 percent, and S is greater than U.

Table 2-2. Federal Regional Indicator Categories

Category	Definition
OBL (obligate wetland)	Plants that occur almost always (estimated probability 99-100%) under natural conditions in wetlands.
FACW (facultative wetland)	Plants that usually occur in wetlands (estimated probability 67-99%), but are occasionally found in nonwetlands.
FAC (facultative)	Plants that are equally likely to occur in wetlands or nonwetlands (estimated probability 34-66%).
FACU (facultative upland)	Plants that usually occur in nonwetlands (estimated probability 67-99%), but are occasionally found in wetlands (estimated probability 1-33%).

Source: USACE, Section 404, Clean Water Act. Federal Interagency Committee for Wetland Delineation. 1989. Federal Manual for Identifying and Delineating Jurisdictional Wetlands. USACE, EPA, USFWS, and U.S. Department of Agriculture Soil Conservation Service, Washington, DC. Cooperative Technical Publication.

2.2.3 TERRESTRIAL WILDLIFE

The wildlife survey was conducted January 23, 1992, by a field team consisting of a wildlife biologist and a wetland biologist. Prior to the survey, the IAS (ESE, 1986) was examined for information on reported habitats and wildlife species. The survey was accomplished by systematic walkover throughout each site. During the survey, wildlife species were identified through actual observations, as well as from tracks, scat, and bird calls. The survey was augmented by observations of the field personnel conducting the aquatic sampling during January the period January 20 to 22, 1992.

A list of endangered species, threatened species, and species of special concern for Duval County, Florida, was obtained from the Florida Natural Areas Inventory (Muller, 1990). KBN is familiar with all of the species on this list. Those species which occur in habitats found on these sites were reviewed. The sites were searched for the occurrence of the listed species, as were the habitats in which they could reasonably be expected to occur.

3.0 RESULTS AND DISCUSSION

3.1 QUALITATIVE AQUATIC BIOLOGICAL SURVEYS

3.1.1 WATER QUALITY

Table 3-1 contains the water quality parameters collected at each station during the biological surveys. The pH values ranged between 6.26 at station MPT-2-BIO-6 to 7.89 at station MPT-13-BIO-3. Dissolved oxygen values ranged from 2.72 milligram per liter (mg/l) at station MPT-13-BIO-3 to 9.16 mg/l at station MPT-B-BIO-3. Water temperature values ranged from 8.46°C at station MPT-13-BIO-2 to 13.46°C at station MPT-2-BIO-2. Conductivity values ranged from 3.69 micromhos per centimeter (μmhos/cm) at station MPT-B-BIO-2 to 24.48 μmhos/cm at station MPT-B-BIO-1. Salinity values ranged from 1.5 parts per thousand (ppt) at station MPT-B-BIO-2 to 14.7 ppt at station MPT-B-BIO-1.

At most of the stations, tidal activity had the greatest influence on the water quality. Stations MPT-B-BIO-1, MPT-B-BIO-2, MPT-B-BIO-3, MPT-2-BIO-4, MPT-2-BIO-5, and MPT-2-BIO-6 are tidally influenced by Sherman Creek. Stations MPT-2-BIO-2, MPT-2-BIO-8, and MPT-2-BIO-9 are tidally influenced by Chicopit Bay. Sherman Creek is tidally connected with Pablo Creek which connects to Chicopit Bay and the Intracoastal Waterway. Stations MPT-13-BIO-1, MPT-13-BIO-2, and MPT-13-BIO-3 are located between these drainage pathways. This situation is particularly evident at station MPT-13-BIO-3. The pH and dissolved oxygen values were low at this station possibly indicating a nodal point of tidal influence and low water movement and/or influence from the nearby surface water impoundment. Station MPT-B-BIO-2 was located near a sewage treatment plant. The plant's stormwater discharge into the creek may be the reason for the lower conductivity and salinity values recorded at these locations relative to other stations. However, as indicated in the station description (Section 2.1.1), there was no evidence of discharge at the time of sampling.

3.1.2 BENTHIC MACROINVERTEBRATES

Table 3-2 presents the benthic macroinvertebrates collected during the quantitative survey. These data are presented here in a qualitative manner. The reference stations and station MPT-2-BIO-4 had the greatest number of taxa. These stations had the greatest representation of marine or estuarine organisms (mainly, polychaetes and marine amphipods). The most abundant taxa were oligochaetes and chironomids. Most abundant chironomid species included *Chironomus* sp. A, *Dicrotendipes* sp., and *Goeldichironomus holoprasinus*.

Table 3-1. Water Quality Data Collected During the Mayport Biological Field Investigation (January 20 Through 22, 1992)

Station	Flow (ft/sec, approx.)	pH	Dissolved Oxygen (mg/l)	Secchi (ft, estimated)	Temperature (°C) Air	Temperature (°C) Water	Conductivity (μmhos/cm)	Salinity (ppt)
MPT-B-BIO-1	+ 4	7.51	8.48	≥3	16.00	10.52	24.48	14.70
MPT-B-BIO-2	≈4	6.81	5.65	1.5	9.52	11.31	3.69	1.50
MPT-B-BIO-3	≈8	6.85	9.16	1.5	8.20	11.11	12.49	7.00
MPT-13-BIO-1	≤1	7.17	4.35	≈1.5	3.90	8.70	11.27	6.00
MPT-13-BIO-2	slight to slack	7.39	5.95	0.5-1	6.74	8.46	11.52	6.20
MPT-13-BIO-3	slight	7.89	2.72	≤.5	6.74	8.46	11.52	6.20
MPT-2-BIO-2	slight to slack	7.38	8.20	≤1.5	15.60	13.56	19.60	11.40
MPT-2-BIO-4	≤0.5	7.60	7.00	2	14.20	9.94	23.20	13.92
MPT-2-BIO-5	≈0.5	6.82	5.82	≤1	10.20	6.88	21.80	12.90
MPT-2-BIO-6	≈1.5	6.26	5.60	2	4.50	7.40	23.30	13.80
MPT-2-BIO-8	slight	7.40	5.20	≈1.5-2	14.60	13.11	22.14	12.40
MPT-2-BIO-9	≤1	7.32	8.80	2	15.70	12.97	20.50	12.10

Source : KBN Engineering and Applied Sciences, Inc., 1992.

Table 3-2. Benthic Macroinvertebrates Collected During the Mayport Biological Field Investigation (January 20 Through 23, 1992) (Page 1 of 7)

	Reference			MPT-2-BIO-2	MPT-2-BIO-4	MPT-2-BIO-5	MPT-2-BIO-6	MPT-2-BIO-8	MPT-2-BIO-9
	MPT-B-BIO-1	MPT-B-BIO-2	MPT-B-BIO-3						
Annelida Hirudinea Hirudinea (LPIL)							r		
Oligochaeta Oligochaeta (LPIL)	a	c	c	a	a	c	r		a
Lumbriculidae Lumbriculidae (LPIL)	a				a			r	
Naididae Naididae (LPIL)				c	r				r
Tubificidae Tubificidae (LPIL)		r		c	a	c	c		c
Tubificoides heterochaetus	a				c	r			
Polychaeta Ampharetidae *Hobsonia florida*	r	c			c		c		
Capitellida *Capitella capitata*	a				a				
Capitellidae (LPIL)			r		r				
Hesionidae Hesionidae (LPIL)		r	c		r	r	a		
Maldanidae Maldanidae (LPIL)					r				

Note: r = rare (1 to 3 individuals).
c = common (3 to 15 individuals).
a = abundant (more than 15 individuals).
LPIL = Lowest Possible Identification Level.

Source: KBN Engineering and Applied Sciences, Inc. (1992).

Table 3-2. Benthic Macroinvertebrates Collected During the Mayport Biological Field Investigation (January 20 Through 23, 1992) (Page 2 of 7)

	Reference			MPT-2-BIO-2	MPT-2-BIO-4	MPT-2-BIO-5	MPT-2-BIO-6	MPT-2-BIO-8	MPT-2-BIO-9
	MPT-B-BIO-1	MPT-B-BIO-2	MPT-B-BIO-3						
Nereidae *Laeonereis culveri*	a	a	c		c				
Nereidae (LPIL)	r		c		r				
Spionidae *Polydora cornuta*	c		c		r				
Polydora socialis	r	r	r		c				
Streblospio benedicti	a		a		a				
Trichobranchidae Trichobranchidae (LPIL)					r		r		
Arthropoda (Arachnida) Acarina Acarina (LPIL)					r				
Hydracarina Hydracarina (LPIL)						r			
Arthropoda (Crustacea) Amphipoda Aoridae *Grandidierella bonnieroides*			c						
Corophiidae Corophiidae (LPIL)			c						
Corophium (LPIL)	r		a						

Note: r = rare (1 to 3 individuals).
c = common (3 to 15 individuals).
a = abundant (more than 15 individuals).
LPIL = Lowest Possible Identification Level.

Source: KBN Engineering and Applied Sciences, Inc. (1992).

Table 3-2. Benthic Macroinvertebrates Collected During the Mayport Biological Field Investigation (January 20 Through 23, 1992) (Page 3 of 7)

	Reference			MPT-2-BIO-2	MPT-2-BIO-4	MPT-2-BIO-5	MPT-2-BIO-6	MPT-2-BIO-8	MPT-2-BIO-9
	MPT-B-BIO-1	MPT-B-BIO-2	MPT-B-BIO-3						
Corophium lacustre			a						
Gammaridae Gammaridae (LPIL)	r						r		
Gammarus (LPIL)	r				r	r			
Gammarus palustris	r				c				
Melitidae *Melita* (LPIL)		c	a						
Melita intermedia			r						
Melitidae (LPIL)		r	c						
Talitridae *Orchestia grillus*					r				
Orchestia Sp. B					r				
Talitridae (LPIL)	r	r							
Decapoda (Natantia) Palaemonidae *Palamemonetes pugio*					r				
Decapoda (Reptantia) Portunidae *Callinectes sapidus*					r				

Note: r = rare (1 to 3 individuals).
c = common (3 to 15 individuals).
a = abundant (more than 15 individuals).
LPIL = Lowest Possible Identification Level.

Source: KBN Engineering and Applied Sciences, Inc. (1992).

Table 3-2. Benthic Macroinvertebrates Collected During the Mayport Biological Field Investigation (January 20 Through 23, 1992) (Page 4 of 7)

	Reference			MPT-2-BIO-2	MPT-2-BIO-4	MPT-2-BIO-5	MPT-2-BIO-6	MPT-2-BIO-8	MPT-2-BIO-9
	MPT-B-BIO-1	MPT-B-BIO-2	MPT-B-BIO-3						
Isopoda Anthuridae Anthuridae (LPIL)	r								
Cyathura (LPIL)		r							
Cyathura polita	r	c	c		r				
Ligiidae *Vandeloscia* Sp. A	r			r					
Sphaeromatidae *Cassidinidea ovalis*		a	a		c	r		c	
Sphaeromatidae (LPIL)		r							
Ostracoda Ostracoda (LPIL)			r						
Candonidae Candonidae Genus A				r					r
Cytherideidae Cytherideidae (LPIL)								r	
Haplocytheridea Sp. A	c					r	r	a	
Tanaidacea Paratanaidae *Hargeria* (LPIL)	r	c	a		c				
Hargeria rapax			r						

Note: r = rare (1 to 3 individuals).
c = common (3 to 15 individuals).
a = abundant (more than 15 individuals).
LPIL = Lowest Possible Identification Level.

Source: KBN Engineering and Applied Sciences, Inc. (1992).

Table 3-2. Benthic Macroinvertebrates Collected During the Mayport Biological Field Investigation (January 20 Through 23, 1992) (Page 5 of 7)

	Reference			MPT-2-BIO-2	MPT-2-BIO-4	MPT-2-BIO-5	MPT-2-BIO-6	MPT-2-BIO-8	MPT-2-BIO-9
	MPT-B-BIO-1	MPT-B-BIO-2	MPT-B-BIO-3						
Paratanaidae (LPIL)		r	r						
Arthropoda (Insecta) Coleoptera Chrysomelidae *Agasicles hygrophila*				r					
Collembola Isotomidae *Isotomurus palustris*				r	r			r	
Diptera Chironomidae Chironomidae Genus AI								r	
Chironomus Sp. A	c	a		a	c	r	c	c	c
Dicrotendipes (LPIL)	a	c	c			a	r	r	
Goeldichironomus holoprasinus		r		a	a	c	c	a	a
Polypedilum scalenum		r	r						
Ephydridae Ephydra (LPIL)				r					
Muscidae Muscidae (LPIL)						r			
Psychodidae *Telmatoscopus Superbus*									

Note: r = rare (1 to 3 individuals).
c = common (3 to 15 individuals).
a = abundant (more than 15 individuals).
LPIL = Lowest Possible Identification Level.

Source: KBN Engineering and Applied Sciences, Inc. (1992).

Table 3-2. Benthic Macroinvertebrates Collected During the Mayport Biological Field Investigation (January 20 Through 23, 1992) (Page 6 of 7)

	Reference			MPT-2-BIO-2	MPT-2-BIO-4	MPT-2-BIO-5	MPT-2-BIO-6	MPT-2-BIO-8	MPT-2-BIO-9
	MPT-B-BIO-1	MPT-B-BIO-2	MPT-B-BIO-3						
Straitiomyidae *Stratiomys* (LPIL)				r					
Tipulidae *Ormosia* Sp. A				r					r
Tipulidae (LPIL)									c
Hemiptera Corixidae *Hesperocorixa minor*				r					
Lepidoptera Pyralidae *Vogtia* (LPIL)									r
Odonata Coenagrioidae *Enallagma* (LPIL)				r					
Mollusca Gastropoda Gastropoda (LPIL)	r	r					r	r	
Hydrobiidae Hydrobiidae (LPIL)		r		r	r	c	c	c	
Melampidae *Melampus bidentatus*		r					r		

Note: r = rare (1 to 3 individuals).
c = common (3 to 15 individuals).
a = abundant (more than 15 individuals).
LPIL = Lowest Possible Identification Level.

Source: KBN Engineering and Applied Sciences, Inc. (1992).

Table 3-2. Benthic Macroinvertebrates Collected During the Mayport Biological Field Investigation (January 20 Through 23, 1992) (Page 7 of 7)

	Reference			MPT-2-BIO-2	MPT-2-BIO-4	MPT-2-BIO-5	MPT-2-BIO-6	MPT-2-BIO-8	MPT-2-BIO-9
	MPT-B-BIO-1	MPT-B-BIO-2	MPT-B-BIO-3						
Pelecypoda Pelecypoda (LPIL)	r				r	r	r		
Mytilidae *Amygdalum sagittatum*					r				
Rhynchocoela Rhynchocoela (LPIL)			r						

Note: r = rare (1 to 3 individuals).
c = common (3 to 15 individuals).
a = abundant (more than 15 individuals).
LPIL = Lowest Possible Identification Level.

Source: KBN Engineering and Applied Sciences, Inc. (1992).

3.1.3 FISH AND MACROINVERTEBRATES

Table 3-3 contains the fish and macroinvertebrate species collected at NAVSTA Mayport using D-frame dip nets and seines. The fish community observed is typical for estuarine tidal creeks in the lower St. Johns River. Catches were dominated by killifishes of the estuarine families Poeciliidae, Cyprinodontidae, and Fundulidae, with occasional occurrences of several other marine and estuarine species. With the exception of one species, the fat sleeper (*Dormitator maculatus*), all non-killifish species were represented as juveniles; killifish species, by contrast, were found as both adults and juveniles. The killifish species collected are year-round residents of tidal creeks. Spot (*Leiostomus xanthurus*), Atlantic croaker (*Micropogonias undulatus*), striped mullet (*Mugil cephalus*), and the southern stargazer (*Astroscopus y-graecum*) were represented as young-of-the-year (all less than four months old). The presence of these species demonstrates the dynamic nature of these estuarine tidal creeks as seasonal nursery areas for fish species.

Macroinvertebrate species collected also demonstrate the importance of these tidal creeks as nursery areas. Juvenile white shrimp (*Peneaus setiferus*) and blue crabs (*Callinectes sapidus*) were collected during the survey.

The greatest diversity in terms of the number of different kinds of species collected was found at the reference stations: in particular, stations MPT-B-BIO-1 and MPT-B-BIO-3. The most common species collected were the sailfin molly (*Poecilia latipinna*) and white shrimp.

3.1.4 ZOOPLANKTON AND PHYTOPLANKTON

Table 3-4 contains a list of the zooplankton species collected at each NAVSTA Mayport station, including relative species abundance. Appendix E contains the actual cell counts from subsamples of water column samples collected at each station. Protozoans, rotifers, nematodes, and crustaceans were the major taxa represented in the samples. Numerically, the most abundant species were the ciliate protozoans, the protozoan *Tintinnida* sp. 1, unidentified rotifer species, and unidentified crustacean nauplii species. Station MPT-B-BIO-2 contained the most species because several species of rotifers (*Brachionus* c.f. *havanaensis*, *B. angularis*, *Lapadella* sp., and *Euchlanis* sp.), unidentified cyclopoid species, and *Daphnia* sp. were present.

Table 3-5 contains a list of the phytoplankton species collected at each NAVSTA Mayport station, including relative species abundance. Appendix F contains the actual cell counts from subsamples of water column samples collected at each station. Taxonomically, all major divisions of

Table 3-3. Fish and Macroinvertebrates Collected During the Mayport Biological Field Investigation (January 20 Through 23, 1992) (Page 1 of 2)

	MPT-B-BIO-1	MPT-B-BIO-2	MPT-B-BIO-3	MPT-13-BIO-1	MPT-13-BIO-2	MPT-13-BIO-3	MPT-2-BIO-2	MPT-2-BIO-4	MPT-2-BIO-5	MPT-2-BIO-6	MPT-2-BIO-8	MPT-2-BIO-9
FISHES												
Poeciliidae *Gambusia holbrooki*, eastern mosquitofish	r		r		r	c			r		c	a
Poecilia latipinna, sailfin molly	a	r		c	c	c	c		a	a	c	c
Cyprinodontidae *Cyprinodon variegatus*, sheepshead minnow	a	r	r						r	a	c	r
Fundulidae *Fundulus grandis*, gulf killifish			r									
Fundulus heteroclitus, mummichog	a	a	r					r	r			
Fundulus majalis, striped killifish	r		r									
Atherinidae *Menidia beryllina*, inland silverside	r		c								c	
Sciaenidae *Micropogonias undulatus*, Atlantic croaker			r									
Leiostomus xanthurus, spot	r											
Eleotridae *Dormitator maculatus*, fat sleeper									r			

Note: r = rare (1 to 3 individuals).
c = common (3 to 15 individuals).
a = abundant (more than 15 individuals).

Source: KBN Engineering and Applied Sciences, Inc., 1992.

Table 3-3. Fish and Macroinvertebrates Collected During the Mayport Biological Field Investigation (January 20 Through 23, 1992) (Page 2 of 2)

	MPT-B-BIO-1	MPT-B-BIO-2	MPT-B-BIO-3	MPT-13-BIO-1	MPT-13-BIO-2	MPT-13-BIO-3	MPT-2-BIO-2	MPT-2-BIO-4	MPT-2-BIO-5	MPT-2-BIO-6	MPT-2-BIO-8	MPT-2-BIO-9
Mugilidae *Mugil cephalus*, striped mullet	r	r	a									
Uranoscopidae *Astroscopus y-graecum*, southern stargazer			r									
INVERTEBRATES												
Arthropoda Penaeidae *Penaeus setiferus*, white shrimp	a	a	a	a	a	a	a			a	a	
Portunidae *Callinectes sapidus*, blue crab	c		r						c		c	
Portunus sp.	r	r										
Mollusca Bivalvia *Crossostrea virginia*, Eastern oyster			a									

Note: r = rare (1 to 3 individuals).
c = common (3 to 15 individuals).
a = abundant (more than 15 individuals).

Source: CBN Engineering and Applied Sciences, Inc., 1992.

Table 3-4. Zooplankton Collected During the NAVSTA Mayport Biological Field Investigation (January 20 through 23, 1992) (Page 1 of 2).

	MPT-B-BIO-1	MPT-B-BIO-2	MPT-B-BIO-3	MPT-13-BIO-1	MPT-13-BIO-2	MPT-13-BIO-3	MPT-2-BIO-2	MPT-2-BIO-4	MPT-2-BIO-5	MPT-2-BIO-6	MPT-2-BIO-8	MPT-2-BIO-9
PROTOZOA Ciliatea unidentified species (spp.)*	a	c_1	a	c_2	a	c_1	c_1	a	c_2	c_2	c_2	c_2
Tintinnida species (sp.) 1	a	r	c_2	c_1	c_1	r	c_1	c_2	c_2	c_1	c_2	c_1
Tintinnida sp. 2				r							c_2	c_1
Vorticella sp.			c_1							r		
ROTIFERA unidentified spp.+	c_2	c_2	c_2	c_2	c_2	c_2	c_2	c_2	c_2	c_2	c_2	c_2
Keratella sp.		c_2	c_1			r		r	r	r	r	
Polyarthra sp.	r	c_1	r		r			r	r			
Brachionus spp.									r			
Brachionus c.f. *plicatilis*										r		
Brachionus c.f. *havanaensis*		r										
Brachionus angularis		r										
c.f. *Notholoca* sp.					c_1	r						r
Lapadella sp.		r										
Euchlanis sp.		r										
NEMATODA unidentified spp.	r	r	c_1	r	r	r	c_2	r	c_1	c_1		c_1
ARTHROPODA **Crustacea** unidentified nauplii spp.**	c_1	c_1	c_1	c_1	c_1	c_1	c_1	c_1	c_1	c_1	r	c_2
Copepoda unidentified spp.			r				r		r	r		c_1
Calanoida unidentified spp.								r			r	r
Cyclopoida unidentified spp.		r										

Table 3-4. Zooplankton Collected During the NAVSTA Mayport Biological Field Investigation (January 20 through 23, 1992) (Page 2 of 2).

	MPT-B-BIO-1	MPT-B-BIO-2	MPT-B-BIO-3	MPT-13-BIO-1	MPT-13-BIO-2	MPT-13-BIO-3	MPT-2-BIO-2	MPT-2-BIO-4	MPT-2-BIO-5	MPT-2-BIO-6	MPT-2-BIO-8	MPT-2-BIO-9
Cladocera unidentified spp.						r						
Daphnia sp.		r										
Ostracoda unidentified spp.			r									c_1

a = abundant (greater than 1,000 cells/ml)
c_2 = very common (100 to 1,000 cells/ml)
c_1 = common (10 to 100 cells/ml)
r = rare (less than 10 cells/ml)
* = primarily from the Order Oligotrichida, which includes *Strombidium* and *Halteria*.
+ = some *Conochiloides*, which were not considered separately, as most were in contractile state and a confident identification was not possible.
** = Panaeid shrimp and copepod nauplii are similar.

Source: KBN Engineering and Applied Sciences, Inc., 1992.

Table 3-5. Phytoplankton Collected During the NAVSTA Mayport Biological Field Investigation (January 20 through 23, 1992) (Page 1 of 5)

	MPT-B-BIO-1	MPT-B-BIO-2	MPT-B-BIO-3	MPT-13-BIO-1	MPT-13-BIO-2	MPT-13-BIO-3	MPT-2-BIO-2	MPT-2-BIO-4	MPT-2-BIO-5	MPT-2-BIO-6	MPT-2-BIO-8	MPT-2-BIO-9
DIATOMS												
Centric Diatom, 5 micron (μ)	c_1	c_1			c^2	c_1	c_1	c_1	c_1		c_2	c_2
Centric Diatom, 10 μ	c_2*	c_2*	c_1*	a*	c_2*	a*	a*	c_2*	c_2*	c_1	c_2*	a*
Centric Diatom, 15 μ	c_1	c_1			c_1		c_1*	c_1				c_2
Centric Diatom, 20 μ												c_1
Centric Diatom, 30 μ	r			c_1	r							
Centric Diatom, 50 μ		r	r									r
Centric Diatom, stacked, 10-15 μ			c_1*			c_2*	c_2*					c_1*
Pennate Diatom, <10 μ			c_1									
Pennate Diatom, 10-25 μ		c_1	c_1*	c_1*	c_1	c_2*	c_1*			c_1*		
Pennate Diatom, 25-75 μ		c_2*		c_1	c_1*	c_1*	c_2*	c_1*	c_1*	c_1*	c_1*	c_1*
Pennate Diatom, 75-150 μ							r					c_1*
Pennate Diatom, >150 μ		r		r	r			r	r	r	r	r
Pennate Diatom, stacked								r				
Navicula sp., <50 μ	c_1	c_1	c_1	c_2*	c_2		c_1*	c_1*	c_2*	c_1*	c_2*	
Navicula sp., >50 μ				r	r		c_1	r	r	r		r
Melosira c.f. *nummuloides*	c_1		c_2									
Nitzschia closterium	c_1		c_1	c_1	c_1	c_1	c_2	r	c_1	c_1	c_2	c_2
Chaetocerous sp.	c_1			c_2	c_1	c_2	c_2	c_1	c_1	c_1		
Naviculodes staurineis	c_1			c_1	c_1		c_2	c_1	c_1	c_1		
Mougeotia sp.	r								r			

Note: a = abundant (greater than 1,000 cells/ml)
c_2 = very common (100 to 1,000 cells/ml)
c_1 = common (10 to 100 cells/ml)
r = rare (less than 10 cells/ml)
* = important because of size/biovolume

Table 3-5. Phytoplankton Collected During the NAVSTA Mayport Biological Field Investigation (January 20 through 23, 1992) (Page 2 of 5)

Pleurosigma/Gyrosigma sp.	r	r	r	r	r	r	r	r		r	r	r
Nitzschia sp.		r	r					c_1	c_1			
Thalassiosira sp.			c_2									
Diploneis sp.			c_1				c_1	c_1	r	r		
Rhizosolenia sp.								c_1				
c.f. *Amphora* sp.				r	r		c_2*	r	c_1		c_2	r
Amphora sp., 25 μ							c_2					
Amphora, >25 μ							c_1					
Achnanthes sp.												
Amphiprora sp.												
Surirella sp.			r	r	r				r			
Synedra sp.					r	r			r	r		
Mastigloia sp.									r	r	r	
Cocconeis sp.										c_1		
Nantzschia sp.										c_1		
Bacillaria paradoxa										r		
DINOFLAGELLATES Dinoflagellates, armoured		c_1							c_1	c_1		
Ceratium sp.		r										
CYANOBACTERIA Single cell Cyanobacteria, <3 μ	a	a	a	a	a	a	a	a	a	c_2	a	a
Anabaena sp. #2	a*			a*	a*	a		a*	a*	c_2*		
Microcystis sp., 1-2 μ	c_2	a	a	a		a				c_2		

Note: a = abundant (greater than 1,000 cells/ml)
c_2 = very common (100 to 1,000 cells/ml)
c_1 = common (10 to 100 cells/ml)
r = rare (less than 10 cells/ml)
* = important because of size/biovolume

Table 3-5. Phytoplankton Collected During the NAVSTA Mayport Biological Field Investigation (January 20 through 23, 1992) (Page 3 of 5)

Merismopedia tenuissima	c_2	a	c_2					c_2	c_2			
Raphidiopsi sp.	c_2	a	c_1	c_1		c_1		c_2	c_1			
Anabaenopsis sp.	c_2	r		c_1	c_2	c_2		c_2				
Lyngbye limnetics	c_1	a	c_2	c_2	c_2	c_2	c_2		c_2	c_2	a	a
Oscillatoria sp.	c_1	c_1	c_1			c_1	c_1*c_1	c_1c_1		c_1		c_1
Merismopedia sp., 2 μ		c_1										
Lyngbya contorta			c_1									
GREEN ALGAE *Chlorgonium* sp.		c_2										
Crucigenia tetrapedia	c_2	c_2										
Ankistrodesmus convolutus	c_2	c_2	c_1	c_1	c_1	a	c_2	c_2	c_1		c_2	
Ankistrodesmus nannoselene	c_1	c_2	c_1	a	a		a	c_2	c_2	c_1	a	a
Scenedesmus sp. #1	c_1											
Tetrastrum heteracanthum	c_1		c_1		c_2							
Green #1	c_1											
Scenedesmus bicaudata	c_1	c_1	c_1						c_1			
c.f. *Chlorella* sp.							a*	c_2				a
Tetrastrum sp.	c_1											
Scenedesmus quadricata	c_1	c_2	c_2	c_2	c_2	c_2		a				
Scenedesmus quadricata var. *alternans*			c_2	c_2		c_2						
Chlamydomonus sp.	c_1	c_1	c_1					c_2	c_1	c_1		
Tetraedron minimum	c_1	c_2		c_1	c_1			c_1	c_1			

Note: a = abundant (greater than 1,000 cells/ml)
c_2 = very common (100 to 1,000 cells/ml)
c_1 = common (10 to 100 cells/ml)
r = rare (less than 10 cells/ml)
* = important because of size/biovolume

Table 3-5. Phytoplankton Collected During the NAVSTA Mayport Biological Field Investigation (January 20 through 23, 1992) (Page 4 of 5)

Golenkinia sp.	c_1	c_1		c_1				c_1				
Ankistrodesmus falcatus	c_1	c_1		c_1		c_1			c_1			
Schroederia sp.		c_1	c_1									
Pediastrum tetres								c_2				
Dictyosphaerium ehrenbergianum		c_1										
Scenedesmus abundans		c_1										
Crucigenia crucifera		c_1										
Treubaria setigerum		c_1										
Tetradon lunula		c_1		c_1								
Tetradon muticum		c_1		c_1		c_2						
Crucigenia tetrapedia			c_1	c_2	c_2	c_2		c_2	c_2			
Scenedesmus bijuga			c_1	c_2	c_1	c_2		c_2	c_1	c_1		c_2
Chodatella sp.			c_1	c_1		c_1						
Closterium		r	r				r	r	r	r		
Kirchneriella contorta						c_2						
Scenedesmus dimorphus						c_2						
Cosmarium sp.						c_1						
Merismopedia sp., 2 μ				c_2								
Tetraedron regulare				c_1								
Oocystis sp.				c_2								
Chlorogonium sp.						c_1						
Coelastrum reticulatum	r											

Note: a = abundant (greater than 1,000 cells/ml)
c_2 = very common (100 to 1,000 cells/ml)
c_1 = common (10 to 100 cells/ml)
= rare (less than 10 cells/ml)
= important because of size/biovolume

Table 3-5. Phytoplankton Collected During the NAVSTA Mayport Biological Field Investigation (January 20 through 23, 1992) (Page 5 of 5)

Scenedesmus acuminatus								c_1	c_1			
Pediastrum simplex					r	r		r	r			
Senedesmus quadricata var. *maxima*					r	r		r				
Pediastrum boryehum						r			r			
Green #2										c_1		
Merismopedia tenuissima						c_2						
CRYPTOPHYTE Cryptophyte, 5-15 μ	a*	c_2*	a*	a*	a*	a*	c_2*	a*	a*	a*	a*	a*
Cryptophyte, >15 μ		c_1*	c_1	c_1		c_1	c_2*	c_2*	c_1	c_1		
BACTERIA *Planktomyces* sp.		c_1										
EUGLENOIDS *Euglena* sp.	r	c_1		r	c_1	c_1	a*	r	r	r	r	c_2*

Note: a = abundant (greater than 1,000 cells/ml)
c_2 = very common (100 to 1,000 cells/ml)
c_1 = common (10 to 100 cells/ml)
r = rare (less than 10 cells/ml)
* = important because of size/biovolume

phytoplankton are well represented in the samples. Numerically, cyanobacteria and cryptophytes are the most abundant species at most stations. Diatom species represented the most common taxa collected at all stations and represented the most important taxa in size and biovolume. Common diatom taxa included 10 μ centric diatoms, 10 to 15 μ stacked centric diatoms, 10 to 25 μ pennate diatoms, and 25 to 75 μ pennate diatoms. Cryptophytes within the 5 to 15 μ size range were common at all stations.

The cyanobacteria *Anabaena* sp. #2 was found specifically in the patrol road ditch and the ditch east of SWMU 5 (NIRP Site 6). This species was found in relatively high abundance at stations MPT-B-BIO-1, MPT-13-BIO-1, MPT-13-BIO-2, MPT-13-BIO-3 along the patrol road south and west of the golf course; and at stations MPT-2-BIO-4, MPT-2-BIO-5, and MPT-2-BIO-6 east of SWMU 5 (NIRP Site 6) and the eastern dredge spoil area.

Several phytoplankton species represented a more freshwater condition and tended to concentrate around station MPT-2-BIO-2. These species included the diatom c.f. *Amphora* sp.; the cyanobacteria *Oscillatoria* sp.; the green algae c.f. *Chlorella* sp., and the euglenoid *Euglena* sp., which was also found to be common at stations MPT-2-BIO-9, MPT-13-BIO-2, MPT-13-BIO-3, and MPT-B-BIO-2.

3.2 QUANTITATIVE AQUATIC BIOLOGICAL SURVEY

Appendix G contains a complete listing of the species collected in each replicate at each station sampled during the quantitative benthic survey. Table 3-6 contains the biological community parameters used to summarize the data. As stated in Section 3.1.2, the reference stations and station MPT-2-BIO-4 had the greatest number of total taxa and total number of individuals. The distribution of these individuals within taxa reflect as relatively high species diversity values for stations MPT-B-BIO-2 and MPT-2-BIO-4. However, the other reference stations, MPT-B-BIO-1 and MPT-B-BIO-3, have lower diversity values because of the dominance of specific taxa (in terms of number of individuals) at those stations. Station MPT-B-BIO-1 has the lowest diversity value of all stations sampled because of the high dominance (78 percent of the total number of individuals at that station) by a lumbriculid oligochaete. Station MPT-B-BIO-3 has a relatively low species diversity value because of the dominance (51 percent of the total number of individuals at that station) of the corophium amphipod *Corophium lacustre*.

Table 3-6. Biological Community Parameters for Stations Sampled at NAVSTA Mayport During the Quantitative Benthic Survey (January 20 Through 23, 1992)

Station	Total Taxa	Mean Taxa Per Replicate*	Total No. Individuals	Density (no./m²) Mean Density	Density (no./m²) Standard Deviation	Shannon-Weaver Diversity Index ($\bar{d}$)	Margelef's Index (D)	Equitability (e)
MPT-B-BIO-1	24	14.3	1514	21942	22330	1.44	3.14	0.17
MPT-B-BIO-2	22	12.7	135	1957	415	3.49	4.28	0.77
MPT-B-BIO-3	24	12.7	454	6580	8785	2.84	3.76	0.42
MPT-2-BIO-2	15	7.0	93	1348	883	2.93	3.09	0.73
MPT-2-BIO-4	32	16.7	418	6058	8184	3.54	5.14	0.53
MPT-2-BIO-5	14	6.3	59	855	954	2.86	3.19	0.79
MPT-2-BIO-6	15	8.0	76	1101	708	3.28	3.23	0.93
MPT-2-BIO-8	11	5.3	62	899	1011	2.49	2.42	0.73
MPT-2-BIO-9	9	4.3	75	1087	428	2.62	1.85	1.00

Source: KBN Engineering and Applied Sciences, Inc., 1992.

In general, none of the stations sampled have a high diversity value because of dominance by numbers of individuals within specific taxa. At station MPT-B-BIO-2, the sphaeromatid ispopod *Cassidinidea ovalis* comprised 28 percent of the total number of individuals sampled at that station. At station MPT-2-BIO-2, the chironomids *Chironomis* sp. A and *Goeldichironomis holoprasinus* comprised 22 percent and 18 percent, respectively, of the total number of individuals sampled at that station. At station MPT-2-BIO-4, lumbriculid and tubificid oligochaetes and the polychaete *Streblospio benedicti* comprised 24 percent, 17 percent, and 14 percent, respectively, of the total number of individuals sampled at that station. At station MPT-2-BIO-5, the chironomid *Dicrotendipes* sp. comprised 41 percent of the total number of individuals sampled at that station. At station MPT-2-BIO-6, a hesionid polychate, a hydrobiid gastropod, and a tubificid oligochaete comprised 25 percent, 14 percent, and 13 percent, respectively, of the total number of individuals sampled at that station. At station MPT-2-BIO-8, the ostracod *Haplocytheridea* sp. A and the chironomid *Goeldichironomus holoprasinus* comprised 39 percent and 29 percent, respectively, of the total number of individuals sampled at that station. At station MPT-2-BIO-9, *Goeldichironomus holoprasinus*, the psychodidae *Telmatoscopus superbus*, and Chironomus sp. A comprised 25 percent, 20 percent, and 15 percent, respectively, of the total number of individuals sampled at that station.

Margelef's Index of Species Richness (D) tends to further demonstrate the levels of dominance at individual stations, as described above. The equitability index (e), however, is useful in determining the relative "stability" of a station assemblage by demonstrating the distribution of individuals within taxa within a community. This index is the ratio of the number of species actually sampled to the expected number of species at the station (i.e., a community that conforms to the MacArthur broken stick model). The index has a range of values from 0 to 1 with 1 being a community equitable with expected values. In general, if the equitability index is below 0.5, the community is typically dominated by a specific taxa and considered unstable. All stations except reference stations MPT-B-BIO-1 and MPT-B-BIO-3 were above 0.5. Station MPT-B-BI0-1, a reference station, had the lowest equitability index value and, as presented above, has high dominance.

Table 3-7 presents the community loss index values for all stations compared to the reference stations. A low community index value indicates a relatively high number of similar taxa in the two communities (station assemblages) being compared; conversely, a high value indicates a low number of similar taxa. The reference stations are relatively comparable to one another with

Table 3-7. Community Loss Index Values for All Stations Sampled at NAVSTA Mayport During the Quantitative Benthic Survey.

Station	MPT-B-BIO-1	MPT-B-BIO-2	MPT-B-BIO-3	MPT-2-BIO-2	MPT-2-BIO-4	MPT-2-BIO-5	MPT-2-BIO-6	MPT-2-BIO-8	MPT-2-BIO-9
MPT-B-BIO-1	---	0.68	0.62	1.53	0.31	1.21	1.20	1.73	2.40
MPT-B-BIO-2	0.62	---	0.46	1.27	0.34	1.07	0.93	1.54	2.00
MPT-B-BIO-3	0.54	0.59	---	1.60	0.41	1.50	1.47	2.00	2.56

Source: KBN Engineering and Applied Sciences, Inc., 1992

community loss index values between 0.46 and 0.68. Station MPT-2-BIO-4 was the only station with relatively low index values compared with the reference stations. Index values for station MPT-2-BIO-4 compared to stations MPT-B-BIO-1, MPT-B-BIO-2, and MPT-B-BIO-3 were 0.31, 0.34, and 0.41, respectively. All other stations had relatively high community loss index values.

Table 3-8 presents the percent contribution of total taxa within phyla collected at each station. As has been described above, annelid and arthropod taxa dominate the stations.

3.3 TERRESTRIAL SURVEYS

The terrestrial field surveys conducted as part of this project were limited to one field day, and the objective was to make basic field observations and verify the previous field study conducted in 1986 (ESE, 1986).

No undisturbed ecosystems or vegetation communities exist on or near the sites. No plants listed as endangered, threatened, or as species of special concern were discovered during the field survey, nor were any suitable habitats seen. Major habitat types on and adjacent to the sites consist of developed and ruderal areas, freshwater wetlands, cabbage palm hammocks, pine woodlands, and a coastal marsh. The habitat locations are shown in relation to the SWMUs in Figure 2.

Wildlife species listed as endangered or potentially endangered and observed on or near the sites are shown in Table 3-9. According to records maintained by FGFWFC, no known eagle nests or wading bird rookeries are located on NAVSTA Mayport. Wood storks were observed in grassy areas near SWMU 5 (NIRP Site 6). Other wading birds listed in Table 3-9 were observed foraging in ditches and in standing water immediately off-site near SWMUs 2, 3, 4, or 5 (NIRP Sites 2, 4, 5, or 6). Use of wetlands by these species, and by other wading birds, is common to the region.

Although not observed during the survey, other wildlife species listed as endangered or potentially endangered may utilize the sites. As noted in the IAS, these species include the American alligator (*Alligator mississippensis*), bald eagle (*Haliaeetus leucocephalis*), Southeastern kestrel (*Falco sparverius paulus*), and arctic peregrine falcon (*Falco peregrinus tundrius*) (ESE, 1986). The arctic peregrine falcon is found in Florida only as a migrating winter resident. Kestrels were observed foraging on SWMUs 4 and 5 (NIRP Sites 5 and 6), but it could not be determined

Table 3-8. Percent Contribution of Total Taxa Within Phyla Sampled at All Stations at NAVSTA Mayport During the Quantitative Benthic Survey.

Station	Phylum		
	Annelida	Mollusca	Arthropoda
MPT-B-BIO-1	41.6	8.3	50.0
MPT-B-BIO-2	27.2	13.6	59.0
MPT-B-BIO-3	33.3	0	62.5
MPT-2-BIO-2	20.0	6.6	73.3
MPT-2-BIO-4	50.0	9.3	40.6
MPT-2-BIO-5	28.5	14.2	57.1
MPT-2-BIO-6	40.0	26.6	33.3
MPT-2-BIO-8	9.0	18.1	72.7
MPT-2-BIO-9	33.3	0	66.6

Source: KBN Engineering and Applied Sciences, Inc., 1992

Table 3-9. Endangered or potentially endangered wildlife species observed on or near SWMU 2, 3, 4, and 5 (NIRP sites 2, 4, 5, and 6) NAVSTA Mayport (January 1992)

Common Name	Scientific Name	Designated Status FGFWFC	USFWS
Wood stork	*Mycteria americana*	E	E
Tricolored heron	*Egretta tricolor*	SSC	-
Little blue heron	*Egretta caerulea*	SSC	-
Snowy egret	*Egretta thula*	SSC	-

Note:
E = Endangered.
SSC = Species of special concern.
- = Not listed by Agency.
FGFWFC = Florida Game and Fresh Water Fish Commission
USFWS = U.S. Fish and Wildlife Service

Source: KBN Engineering and Applied Sciences, Inc., 1992.

whether they were the threatened Southeastern subspecies or the migratory non-listed subspecies that winters in Florida. Results of the field survey indicate that the information provided in the 1986 IAS regarding endangered, threatened, and rare wildlife species that occur or may have suitable habitat at NAVSTA Mayport is correct.

Overall, the sites and adjacent land consist primarily of developed and disturbed areas. Due to the ruderal nature of the sites, wildlife species that utilize the areas are generally those species that are associated with urban areas and human disturbance. Species common to these areas are those listed in the 1986 IAS, and include species such as the raccoon (*Procyon lotor*), opossum (*Didelphis virginiana*), skunk (*Mephitis mephitis*), gray squirrel (*Sciurus carolinensis*), rabbit (*Sylvilagus floridanus*), shrews, bats, and a variety of reptiles, rodents and birds. Many species of waterfowl and wading birds utilize the wetlands (particularly the drainage ditches and dredge spoil area) area for foraging, or temporarily during migration.

The 1986 IAS provided locations of habitats at NAVSTA Mayport (Figure 4-4, ESE, 1986). Although the locations of habitats in the IAS were somewhat imprecise, the locations of the pine flatwoods and coastal marsh near SWMUs 2, 3, 4, and 5 (NIRP Sites 2, 4, 5, and 6) appear to be correct, with the following exceptions: the coastal marsh at the southeastern end of SWMU 5 (NIRP Site 6) actually extends into the NAVSTA site; and the freshwater wetlands on SWMUs 2, 3, and 5 (NIRP Sites 2, 4, and 6) are not shown on Figure 4-4 of the IAS (ESE, 1986).

3.4 WETLAND SURVEYS

The objective of the wetland surveys was not to delineate the wetlands but to identify and characterize them. SWMUs 2, 3, 4, 5, and 13 (NIRP Sites 2, 4, 5, 6, and 13) were surveyed for wetlands. The following is a description of each site. The areal extent of on-site and nearby wetlands are shown on Figure 2.

SWMU 2 (NIRP Site 2)--This site is completely covered by asphalt pavement and has a building on the west end. The vegetation, which is between the fence and the pavement, is minimal within the site. The only wetland on this site is at the extreme west end. The area considered a wetland extends north and south and is between the pavement and the fence. This wetland is considered a weedy ditch bank. Immediately west of the fence is a ditch. Vegetation found on this site is summarized in Appendix H, Table H-1, and the wetlands are shown on Figure 2. The dominant

vegetation on this site is seashore paspalum and bermuda grass. This area would be classified as a mowed turf.

SWMU 3 (NIRP Site 4)--This site consists of a roadside, a portion of a levee and a filled area behind the levee. A sabal palm hammock dominated by sabal palms, slash pines and southern red cedars is immediately east of the site. The roadsides on the north and west sides are bordered by weedy ditches, which are wetlands. The levee itself is not a wetland, but the filled area within the levee is a weedy transitional freshwater wetland. Vegetation found on this site is summarized in Appendix H, Table H-2, and the wetlands are shown on Figure 2. The dominant vegetation found on this site is marsh elder, bushy broom grass, Bermuda grass, blue maidencane, and sharp-pod morning glory. This vegetation type would classify this area as an old field. However, the site is obviously disturbed and filled and should be designated as a disturbed site.

SWMU 4 (NIRP Site 5)--This site is extremely weedy. There is a grove of young pines on the north end and a high mound of soil just north of the center. No portion of this site is considered a wetland. Vegetation found on the site is summarized in Appendix H, Table H-3. The dominant vegetation on this site is slash pine, groundsel bush, southern sandspur, camphor weed, crowfoot grass, Bermuda grass, and white sweet clover. This site is considered a weedy old field.

SWMU 5 (NIRP Site 6)--This site has various vegetation types. The southeastern portion is a coastal marsh and the north end is a freshwater marsh. An additional freshwater marsh system is located in the southwestern portion on both sides of the berm. A vehicle storage facility is located in the eastern portion of the SWMU.

Due to several plant associations, a large number of plant species are present.

Several plant associations are found on this site.

1. Coastal Marsh--dominated by sea oxeye, perennial glasswort, salt grass, marsh elder, christmas berry, saltmarsh cord grass, and black needle rush.
2. Freshwater Marsh--dominated by coastal plain willow, seashore paspalum, seaside goldenrod, hair grass, southern cat-tail, seashore dropseed, and elderberry.
3. Cabbage Palm Hammocks (two separate hammocks)--dominated by cabbage palm.
4. Planted Pines--dominated by slash pine and wax myrtle.

5. Mowed Field--dominated by cranesbill, black medic, common dandelion, common chickweed, and seashore parpelum.
6. Old Field--dominated by common beggar's-tick, pennywort, Bermuda grass, match-head, camphor weed, southern dewberry, maypop, and sharp-pod morning-glory.

Vegetation found on this site is summarized in Appendix H, Table H-4, and the wetlands are shown on Figure 2.

SWMU 13 (NIRP Site 13)--This area is covered by asphalt and buildings. The areas with vegetation are quite limited and are considered as lawns. There are no wetlands present. The dominant vegetation is Bermuda grass and St. Augustine grass. This limited area of vegetation consists of mowed turf. Vegetation found on this site is summarized in Appendix H, Table H-5.

4.0 SUMMARY

4.1 AQUATIC SYSTEMS

All stations sampled are tidally connected to Chicopit Bay and the Intracoastal Waterway either directly or via Sherman Creek and Pablo Creek. All of the project area stations and one reference station, MPT-B-BIO-1, were located in drainage ditches on NAVSTA Mayport. The stations receive surface water drainage from nearby areas. Two reference stations are located on tributaries on the south side of Sherman Creek. All stations are variably influenced by tidal action and surface water runoff.

The reference stations and station MPT-2-BIO-4 had the greatest number of benthic macroinvertebrate species (see Table 3-2). These stations had the greatest representation of marine or estuarine benthic macroinvertebrates (mainly polychaetes and amphipods). The most abundant macroinvertebrate species at the remaining stations were oligochaetes and chironomids, which are more representative of freshwater systems than marine or estuarine systems. This situation is due to the fact that most of the stations within NAVSTA Mayport are influenced by surface water runoff from the base.

The fish and macroinvertebrate communities were typical of estuarine tidal creeks of the lower St. Johns River. Fish catches were dominated by killifishes. The presence of juvenile fish and macroinvertebrates demonstrates the dynamic nature of these tidal creeks as nursery areas for these species.

Protozoans, rotifers, nematodes, and crustaceans were the major zooplankton taxa represented at the stations. Numerically, the most abundant species included ciliate protozoans, rotifers, and crustacean nauplii. Taxonomically, all major divisions of phytoplankton species are well represented at the stations. Numerically, cyanobacteria and cryptophytes are the most abundant species at most stations.

In general, none of the stations sampled had a high benthic macroinvertebrate diversity value due to the dominance by specific taxa. The community loss index values indicate that the reference stations contain a comparable (similar) species complement. The species collected at station MPT-2-BIO-4 are similar to the species sampled at the reference stations. The reason for this similarity is not clear; however, Station MPT-2-BIO-4 did not receive a point source discharge

possibly making it less influenced by surface water discharges. All other stations contained few species similar to the reference stations. Most of these stations received surface water runoff from point sources (i.e., pipes or culverts).

4.2 WILDLIFE

Wildlife species that utilize the areas are generally those species that are associated with urban areas and are tolerant of human disturbance. These species were identified in the IAS (ESE, 1986) and are confirmed by this survey.

4.3 WETLANDS

No undisturbed wetlands were observed at NAVSTA Mayport during the January 1992 biological surveys. A "disturbed" ecosystem, vegetation community, or wetland is one where the vegetation and/or topsoil have been altered by human activity. The small wetland on SWMU 2 (NIRP Site 2) consists of a ditch. The wetlands at SWMU 3 (NIRP Site 4) consist of ditches and a filled, obviously disturbed area atop dredge soil. Two disturbed freshwater marshes are located at SWMU 5 (NIRP Site 6). Also at SWMU 5 is a small, disturbed portion of a large coastal salt marsh. This marsh extends off the site to the southeast. The off-site portion of this marsh appears to be of considerable quality in terms of observed wildlife.

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APPENDIX A

SAMPLING SCHEDULE

Appendix A. Field activities during the aquatic biological sampling at NAVSTA Mayport, Florida

DATE	TIME	ACTIVITY
20 January 1992	1300 - 1500	sample MPT-B-BIO-3
	1500 - 1700	sample MPT-B-BIO-2
21 January 1992	0730 - 0900	sample MPT-13-BIO-1
	0900 - 1000	sample MPT-13-BIO-2
	1000 - 1100	sample MPT-13-BIO-3
	1200 - 1400	sample MPT-2-BIO-8
	1400 - 1600	sample MPT-2-BIO-9
	1600 - 1800	sample MPT-2-BIO-2
22 January 1992	0800 - 0900	sample MPT-2-BIO-6
	0900 - 1000	sample MPT-2-BIO-5
	1000 - 1100	sample MPT-2-BIO-4
	1100 - 1200	sample MPT-B-BIO-1 water quality phyto/zooplankton benthos
	1500 - 1700	sample MPT-B-BIO-1 fish/macro- invertebrates

Source: KBN Engineering and Applied Sciences, Inc., 1992.

APPENDIX B

TIDAL DATA

Appendix B. Times and heights of tide at Mayport, Florida during the aquatic biology sampling period.

DATE	TIME	HEIGHT feet (centimeters)
20 January 1992	0202	-1.3 (-40)
	0849	5.3 (162)
	1446	-1.2 (-37)
	2110	4.6 (140)
21 January 1992	0257	-1.3 (-40)
	0940	5.3 (162)
	1537	-1.2 (-37)
	2203	4.7 (143)
22 January 1992	0352	-1.2 (-37)
	1030	5.1 (155)
	1625	-1.2 (-37)
	2255	4.7 (143)

Source: KBN Engineering and Applied Sciences, Inc., 1992.
U.S. Department of Commerce, 1991.

APPENDIX C

KBN QAPP SECTION 9.0

9.0 CALIBRATION PROCEDURES AND FREQUENCY

9.1 FIELD SAMPLING EQUIPMENT

All field equipment to be used during field investigations where environmental samples (i.e. groundwater, soil, sediment, or surface water) are to be collected for analysis will be calibrated prior to use in the field. The calibration procedures will follow manufacturer's instructions for the model of equipment being used to assure that the equipment is functioning within the tolerances established by the manufacturer and required by the project. A copy of all instrument manuals will be placed in a three-ring notebook and brought to the field by the Field Team Leader. A record of the instrument calibration will be maintained in the field notebook and will be subject to audit by the Project QA Supervisor.

Field instruments which may be used during investigations requiring environmental sampling include, but are not limited to, the following equipment:

1. OVA equipped with a Photoionization Detector (PID);
2. OVA equipped with a Flame Ionization Detector (FID);
3. Total Ionization Probe (TIP) PID;
4. Hydrolab Surveyor II Water Quality Monitor;
5. YSI Model No. 3560 Water Quality Monitoring System;
6. Enviro-Lab EL-200/System 17 Data Logger;
7. Insitu Model No. SE1000 Data Logger; and
8. Electronic Water Level Meter.

The manufacturers' specifications will be followed during the calibration of these instruments and others used during remedial investigations. A more specific description of the calibration procedures for the most commonly used field instruments is provided below.

9.1.1 pH

The pH meter calibration is performed at the start of each sampling day using National Bureau of Standards (NBS) - traceable standard buffer solutions which bracket the pH range expected in the samples. Calibration knobs are used to set the meter to read the value of the standard. The meter is then checked during the sampling period, using at least one standard, at a frequency which results in little or no calibration adjustment. If the reading varies more than one-tenth of a unit between calibration checks, the frequency of the checks will be increased. The meter will be

checked at the end of each sampling day to determine deviation from the initial calibration, and this information will be recorded in the field notebook.

The pH meter is incorporated into the Hydrolab Surveyor II, utilizing automatic temperature compensation. Calibration is accomplished with commercially prepared standards as follows:

1. Flush calibration cup and sensors with deionized water. Secure the sonde cup pointed in upright position;
2. Fill cup with 7.0 buffer sufficient to cover the membrane of the DO sensor;
3. Allow 1 to 2 minutes for thermal equilibration;
4. Switch instrument to pH and use the zero control to set display value to 7.0;
5. Pour out the 7.0 buffer and flush the sensors with deionized water;
6. Fill cup with 4.0 or 10.0 solution (depending on target range) and allow 1 to 2 minutes for thermal equilibration;
7. Use slope control to adjust display reading to 4.0 (or 10.0, depending on target range);
8. Pour out the 4.0 (or 10.0, depending on target range) solution and flush the sensors with deionized solution;
9. Fill cup with 7.0 solution and record reading; and
10. If final reading varies, repeat steps 3 through 9.

9.1.2 CONDUCTIVITY

Calibration of the conductivity meter will be performed at the start of each sampling day using potassium chloride (KCl) standard solutions prepared by the subcontracted laboratory. Standard solutions will be in the range of expected water conductivities to be measured. The analyst preparing the solutions will verify the standard with a laboratory conductivity bridge. The level of the standards will be selected to bracket the range of values expected in the samples.

The conductivity mechanism used in field procedures is incorporated into the Hydrolab Surveyor II. The unit is automatically temperature compensated. Commercially prepared KCl solutions will be utilized during the following calibration procedures:

1. Prepare the standard KCl solution at the top or the conductivity range of measurements;
2. Rinse the sensors and cup several times with deionized water;

3. Fill the calibration cup two-thirds full with conductivity standard; cover cup and shake the sonde;
4. Discard standard and repeat Step 3;
5. Place sonde unit in upright position and fill to within 1 cm of the top of the cup with standard, making sure no bubbles are trapped in chamber or sensor;
6. Switch unit to temperature, ensuring temperature is stable; and
7. Switch unit to conductivity, use slope control to adjust reading to standard value.

The meter must read within 10 percent of the standard value. The meter is then checked during the sampling period, using at least one standard, at a frequency which results in little or no calibration adjustment. The meter will be checked at the end of each sampling day to determine deviation from the initial calibration, and this information will be recorded in the field notebook.

9.1.3 TEMPERATURE

The temperature mechanism used in field procedures is incorporated into the Hydrolab Surveyor II. There is no way to calibrate the temperature in the field; however, the temperature will be checked with a field grade or NIST (NBS) certified thermometer daily and before use. Field grade thermometers will be calibrated annually to an NIST (NBS) certified thermometer and recorded in permanent records. The reading will be checked at least once per field trip using a quality-grade thermometer.

9.1.4 DISSOLVED OXYGEN

The conductivity mechanism used in field procedures is incorporated into the Hydrolab Surveyor II. Annual calibration will be against winkler titration. Daily calibration is performed by saturated air as follows:

1. Fill the upright calibration cup with deionized water so the tip of the DO sensor is submerged approximately 1 cm;
2. Seal the end of the cup with soft cover and shake gently for approximately 15 seconds;
3. Switch unit to temperature reading and observe for fluctuations. If the temperature fluctuates by more than one-tenth of a degree in 5 seconds, repeat step 2;
4. When temperature is stable, remove soft cover and enough water so that the tip of DO sensor is approximately 0.5 cm above water;
5. Carefully blot the water off the DO membrane with paper wipe;

6. Place the hard cap upside down on the cup to minimize air currents;
7. Wait 5 minutes and record local barometric pressure with mercury barometer in units of millimeters or torr;
8. Read temperature and match corresponding DO from chart with temperature and barometric pressure; and
9. Switch to DO and adjust slope to read proper DO.

9.1.5 ORGANIC VAPOR ANALYZER METERS

Calibration of OVA meters will be performed at the start of each day of instrument use in accordance with procedures indicated by the instrument manufacturer. Additional calibration activities will be conducted if the meter experiences abnormal perturbations or if the readings become erratic. Calibration of the OVA will include the use of zero gas and span gas of content and concentration as specified by the instrument manufacturer. Results of calibration conducted on the meters will be recorded in the field notebook.

Readings conducted with an OVA in ambient air will include a correction for background response. Readings conducted with an OVA to screen soil sample container headspace under foil will not require background correction. Screening of soil samples for excessive petroleum contamination will be conducted in accordance with the procedures presented in Section 8.2 of this document.

The use of an OVA equipped with a flame ionization detector (FID) to screen for volatile organic hydrocarbon (VOH) compounds will include successive readings with and without an activated carbon filter. The use of the carbon filter is to distinguish the occurrence of methane in highly organic silty soils from VOH compounds.

In accordance with the requirements of Chapter 17-770.200(2), FAC, the use of a photoionization detector (PID) to screen for excessively contaminated soils will be conducted under conditions that produce a response equivalent to a FID. The Thermo Environmental Instruments Inc. (TEI) Model 580B OVM PID used by KBN personnel will be calibrated in accordance with the procedures presented in the memorandum titled "Effective Field Screening of Gasoline and Diesel Excessively Contaminated Soils Using the Thermo Environmental Instruments Inc. 580 Series Portable Organic Vapor Meter." The use of the Model 580B OVM following calibration with the procedures and response factors included in this memorandum was indicated by the FDER to

adequately correspond to FID readings for gasoline and diesel component contamination of soil (correspondence from Mr. Daniel W. Kraft, FDER, dated June 26, 1991).

9.1.6 AUTOMATIC SAMPLERS

The procedures outlined in this section will be used to maintain and calibrate automatic samplers to ensure proper operation of the equipment and collection of representative samples. Differences from these prescribed procedures will be documented in a bound field notebook. Prior to each field trip, the sampler operation will be checked. This includes operation (forward, reverse, automatic) through three cycles of purge-pump-purge; checking desiccant for replacement as necessary; checking 12-volt batteries to be used with the sampler; and repairing or replacing malfunctioning part as necessary. The pumping rate at multiple heads, the timing mechanisms, the multiplexer, or the flow pacer will be checked against the manufacturer's specifications and documented whenever one or more of these functions appears to be operating improperly. Malfunctioning equipment which cannot be repaired will be sent to the manufacturer for adjustment; repairs conducted by KBN personnel or the manufacturer will be documented.

During each field trip, prior to initiating sampling, the purge-pump-purge cycle shall be checked at least once for proper operation. The constant pumping volume using a graduated cylinder or other volumetrically calibrated container will be checked at least twice, and the flow pacer that activates the sampler shall be checked for proper operation.

9.2 LABORATORY ANALYTICAL EQUIPMENT

The calibration procedures and frequency procedures regarding instrumentation listing, standard solution receipt and traceability, standard solution sources and preparation, instrument calibration, and standardization of titration solutions will be described in the approved QAP prepared by the subcontracted laboratory. This information is specific to the individual laboratory selected for use.

APPENDIX D

FORMULAS FOR BENTHIC INDICES

FORMULAS FOR INDICES

Shannon-Weaver Index ($\bar{d}$) (Shannon and Weaver, 1963) of species diversity was calculated as:

$$\bar{d} = C/N\ (N\log_{10}N\Sigma n_i\log_{10}n_i) \qquad \text{(Lloyd et al., 1968)}$$

where: C = 3.321928 (converts base 10 log to base 2 [bits]),
N = total number of individuals, and
n_i = total number of individuals in the ith species.

Shannon-Weiner Index (H´) (Pielou, 1969) (Appendix G) was calculated as:

$$H' = -\Sigma p_i \log_e p_i$$

where: p_i = n^i/N (the proportion of the total number of individuals in the ith species),
n_i = number of individuals, and
N = total number of individuals.

Pielou's Evenness Index (J´) (Pielou, 1966) (Appendix G) was calculated as:

$$J' = H'/\log_2 S \text{ (or } H'/H_{max})$$

where: H´ = Shannon-Weiner Index, and
S = total number of species (in all samples in the community).

Margelef's Index of Species Richness (D) (Margelef, 1961) was calculated as:

$$D = (S-1)/\log N$$

where: S = number of taxa, and
N = total number of individuals.

The equitability index (e) (Lloyd and Ghelardi, 1964) was calculated as:

$$e = s'/s$$

where: s = number of taxa in the sample, and
s´= number of taxa expected from a community that conforms to MacArthur's (1957) broken stick model.

The Community Loss Index (Courtemanch and Davies, 1987) was calculated as:

$$\text{Community Loss Index (I)} = (a-c)/b$$

where: a = number of taxa present in reference stations,
c = number of taxa common to both samples, and
b = number of taxa present in station of comparison.

APPENDIX E

ZOOPLANKTON DATA

'Zooplankton' remaining on 40μ mesh cloth (#/liter).

category	MPT-2 BIO-2	MPT-2 BIO-4	MPT-2 BIO-5	MPT-2 BIO-6	MPT-2 BIO-8	MPT-2 BIO-9
Protozoa						
ciliates						
misc.[1]	20	12312	718	580	648	104
tintinnid 1	40	430	104	18	124	84
tintinnid 2					1096	78
vorticellids				4		
Rotifera						
misc.-no ID	172	646[2]	114	126	144	232
Keratella		2	2	2	4	
Polyarthra		2	4			
Brachionus						
spp			6			
cf plicatilis				6		
cf havanaensis						
angularis						
cf Notholoca						2
Lepadella						
Euchlanis						
nematodes	220	4	12	12		34
Crustaceans						
nauplii[3]	60	90	54	12	8	144
copepodids	4		4	2		14
calanoids		2			4	4
cyclopoids						
misc. no ID						
cladocerans						
Daphnia						
ostracods						14

'Zooplankton' remaining on 40µ mesh cloth (#/liter).

category	MPT-13 BIO-1	MPT-13 BIO-2	MPT-13 BIO-3	MPT-B BIO-1	MPT-B BIO-2	MPT-B BIO-3
Protozoa						
ciliates						
misc.[1]	257	1454	24	3990	96	1114
tintinnid 1	60	96	4	1590	4	352
tintinnid 2	4					
vorticellids						20
Rotifera						
misc.-no ID	144	202	112	298	520	116
Keratella			4		102	12
Polyarthra		2		8	10	4
Brachionus						
spp						
plicatilis						
havanaensis					2	
angularis					2	
cf Notholoca		20	8			
Lepadella					4	
Euchlanis					2	
nematodes	8	6	8	6	2	62
Crustaceans						
nauplii[3]	52	16	36	72	20	40
copepodids						2
calanoids						
cyclopoids					4	
misc. no ID	4		4			2
cladocerans			8			
Daphnia					2	
ostracods						2

Footnotes:

[1] primarily from Order Oligotrichida, which includes Strombidium and Halteria.

[2] some Conochiloides. These were not enumerated separately as most were in such a contractile state that a confident identification could not be made.

[3] Penaeid shrimp nauplii are very similar to copepod nauplii. Separation of the two would require time intensive detail work. I would conjecture that most, if not all, were copepod nauplii due to the presence of copepodids and adult copepods.

APPENDIX F

PHYTOPLANKTON DATA

MPTB-BIO-1

Species	Division	Cell Count Cells/ml
Single-celled Cyanobacteria, <3 microns	Cyanobacteria	19319.8
Anabaena #2	Cyanobacteria	2023.4 *
Cryptophyte, 5-15 microns	Cryptophyte	1389.2 *
Microcystis, 1-2 microns	Cyanobacteria	498.3
Merismopedia tenuissima	Cyanobacteria	483.2
Centric Diatom, 10 micron	Diatom	407.7 *
Crucigenia tetrapedia	Green	302.0
Raphidiopsis	Cyanobacteria	226.5
Ankistrodesmus convolutus	Green	166.1
Anabaenopsis	Cyanobacteria	120.8
Ankistrodesmus nannoselene	Green	90.6
Navicula	Diatom	75.5
Melosira c.f. nummuloides	Diatom	60.4
Scenedesmus #1	Green	60.4
Tetrastrum heteracanthum	Green	60.4
Green #1	Green	60.4
Scenedesmus bicaudata	Green	60.4
Tetrastrum	Green	60.4
Lyngbya limnetica	Cyanobacteria	45.3
Centric Diatom, 5 micron	Diatom	45.3
Centric Diatom, 15 micron	Diatom	45.3
Scenedesmus quadricata	Green	30.2
Chlamydomonas	Green	30.2
Oscillatoria	Cyanobacteria	15.1
Nitzschia closterium	Diatom	15.1
Chaetocerous	Diatom	15.1
Naviculodes staurineis	Diatom	15.1
Tetraedron minimum	Green	15.1
Golenkinia	Green	15.1
Ankistrodesmus falcatus	Green	15.1
Coelastrum reticulatum	Green	0.8
Mougeotia	Diatom	0.8
Pleurosigma/Gyrosigma	Diatom	0.3
Euglena	Euglena	0.2
Centric Diatom, 30 micron	Diatom	0.1
	TOTAL	25769.7

MPTB-BIO-2

Species	Division	Cell Count Cells/ml
Single-celled Cyanobacteria, <3 microns	Cyanobacteria	28298.4
Merismopedia tenuissima	Cyanobacteria	18844.8
Microcystis, 1-2 microns	Cyanobacteria	16332.1
Raphidiopsis	Cyanobacteria	5662.5
Lyngbya limnetica	Cyanobacteria	1072.1
Centric Diatom, 10 micron	Diatom	286.9 *
Ankistrodesmus convolutus	Green	271.8
Cryptophyte, 5-10 microns	Cryptophyte	211.4 *
Tetraedron minimum	Green	196.3
Scenedesmus quadricata	Green	181.2
Pennate Diatom, 25-75 microns	Diatom	135.9 *
Crucigenia tetrapedia	Green	120.8
Ankistrodesmus nannosolene	Green	105.7
Chlorogonium	Green	105.7
Merismopedia, 2 micron	Cyanobacteria	90.6
Centric Diatom, 5 micron	Diatom	90.6
Melosira c.f. nummuloides	Diatom	90.6
Ankistrodesmus falcatus	Green	90.6
Schroederia	Green	90.6
Cryptophyte, >15 microns	Cryptophyte	60.4 *
Dictyosphaerium ehrenbergianum	Green	60.4
Scenedesmus abundans	Green	60.4
Scenedesmus bicaudata	Green	60.4
Crucigenia crucifera	Green	60.4
Planktomyces	Bacteria	30.2
Oscillatoria #1	Cyanobacteria	30.2
Centric Diatom, 15 micron	Diatom	30.2
Pennate Diatom, 10-25 microns	Diatom	30.2
Treubaria setigerum	Green	30.2
Chlamydomonas	Green	30.2
Oscillatoria #1	Cyanobacteria	15.1
Dinoflagellates, armoured	Dinoflagellate	15.1
Golenkinia	Green	15.1
Tetraedron lunula	Green	15.1
Tetraedron muticum	Green	15.1
Euglena	Euglena	10.4
Anabaenopsis	Cyanobacteria	1.2
Nitzschia	Diatom	0.9
Pediastrum duplex no var.	Green	0.8
Pennate Diatom, >150 microns	Diatom	0.4
Pleurosigma/Gyrosigma	Diatom	0.1
Centric Diatom, 50 micron	Diatom	0.1
Ceratium	Dinoflagellate	0.1
Closterium	Green	0.1
	TOTAL	72851.4

MPT2-BIO-2

Species	Division	Cell Count Cells/ml	
Single Celled Cyanobacteria	Cyanobacteria	26847.2	
Chlorella c.f.	Green	7320.5	*
Centric Diatom, 10 micron	Diatom	4575.3	*
Ankistrodesmus nannoselene	Green	3050.2	
Euglena	Euglena	2567.0	*
Cryptophyte, 5-15 microns	Cryptophyte	694.6	*
Chaetocerous	Diatom	573.8	
Lyngbya limnetica	Cyanobacteria	483.2	
Naviculodes staurineis	Diatom	483.2	
Pennate Diatom, 25-75	Diatom	422.8	*
Nitzschia closterium	Diatom	211.4	
Ankistrodesmus convolutus	Green	181.2	
Cryptophyte, >15 microns	Cryptophyte	151.0	*
Amphora c.f.	Diatom	151.0	
Amphora, 25 micron	Diatom	151.0	*
Centric Diatom, stacked, 5-15 microns	Diatom	120.8	*
Centric Diatom, 15 micron	Diatom	90.6	*
Navicula, <50 microns	Diatom	90.6	*
Oscillatoria #1	Cyanobacteria	90.6	
Pennate Diatom, 10-25 microns	Diatom	60.4	*
Centric Diatom, 5 micron	Diatom	60.4	
Diploneis	Diatom	30.2	
Amphora, >25 microns	Diatom	30.2	
Oscillatoria #2	Green	30.2	
Navicula, >50 microns	Diatom	14.8	
Oscillatoria, >100 microns	Green	13.0	*
Closterium	Green	1.2	
Pennate, 75-150 microns	Diatom	0.4	
Pleurosigma/Gyrosigma	Diatom	0.2	
Closterium	Green	0.2	
	TOTAL	48497.2	

MPTB-BIO-3

Species	Division	Cell Count Cells/ml
Single-celled Cyanobacteria, <3 microns	Cyanobacteria	37459.1
Cryptophyte, 5-15 microns	Cryptophyte	1326.0 *
Microcystis, 1-2 microns	Cyanobacteria	1092.0
Thalassiosira	Diatom	546.0
Lyngbya limnetica	Cyanobacteria	507.0
Scenedesmus quadricata	Green	182.0
Merismopedia tenuissima	Cyanobacteria	104.0
Melosira	Diatom	104.0
Crucigenia tetrapedia	Green	104.0
Scenedesmus quadricada var alternans	Green	104.0
Raphidiopsis	Cyanobacteria	78.0
Centric Diatom, 10 micron	Diatom	78.0 *
Pennate Diatom, 10-25 microns	Diatom	65.0 *
Ankistrodesmus convolutus	Green	65.0
Centric Diatom, stacked, 10-15 microns	Diatom	52.0 *
Scenedesmus bijuga	Green	52.0
Chlamydomonas	Green	52.0
Tetrastrum heteracanthum	Green	52.0
Lyngbya contorta	Cyanobacteria	26.0
Navicula	Diatom	26.0
Diploneis	Diatom	26.0
Scenedesmus bicaudata	Green	26.0
Schroederia	Green	26.0
Cryptophyte, >15 microns	Cryptophyte	13.0
Oscillatoria #2	Cyanobacteria	13.0
Nitzchia c.f. closterium	Diatom	13.0
Pennate Diatom, <10 microns	Diatom	13.0
Chodatella	Green	13.0
Ankistrodesmus nannoselene	Green	13.0
Nitzschia	Diatom	1.5
Pleurosigma/Gyrosigma	Diatom	0.2
Centric, 50 micron	Diatom	0.1
Surirella	Diatom	0.1
Closterium	Green	0.1
	TOTAL	42232.1

MPT2-BIO-4

Species	Division	Cell Count cells/ml
Single-celled Cyanobacteria, <3 microns	Cyanobacteria	28117.0
Anabaena #2	Cyanobacteria	6085.3 *
Cryptophyte, 5-15 microns	Cryptophyte	2292.7 *
Scenedesmus quadricata	Green	1162.7
Ankistrodesmus nannoselene	Green	694.6
Centric Diatom, 10 micron	Diatom	649.3 *
Raphidiopsis	Cyanobacteria	498.3
Merismopedia tenuissima	Cyanobacteria	241.6
Pediastrum tetras	Green	241.6
Cryptophyte, >15 microns	Cryptophyte	211.4 *
Scenedesmus bijuga	Green	181.2
Chlorella	Green	181.2
Chlamydomonas	Green	135.9
Anabaenopsis	Cyanobacteria	120.8
Crucigenia tetrapedia	Green	120.8
Ankistrodesmus convolutus	Green	105.7
Centric Diatom, 5 micron	Diatom	90.6
Navicula, <50 microns	Diatom	75.5 *
Pennate Diatom, 25-75 microns	Diatom	45.3 *
Oscillatoria #2	Cyanobacteria	30.2
Naviculodes staurineis	Diatom	30.2
Scenedesmus acuminatus	Green	30.2
Tetraedron minimum	Green	30.2
Diploneis	Diatom	15.1
Chaetocerous	Diatom	15.1
Centric Diatom, 15 micron	Diatom	15.1
Nitzschia	Diatom	15.1
Rhizosolenia	Diatom	15.1
Golenkinia	Green	15.1
Pediastrum simplex no var	Green	1.6
Pleurosigma/Gyrosigma	Diatom	1.2
Pennate Diatom, stacked	Diatom	0.4
Scenedesmus quad var maxima	Green	0.4
Euglena	Euglena	0.3
Nitzschia c.f. closterium	Diatom	0.2
Pennate Diatom, >150 microns	Diatom	0.2
Amphora	Diatom	0.2
Navicula, > 50 microns	Diatom	0.1
Closterium	Green	0.1
	TOTAL	41467.6

MPT2-BIO-5

Species	Division	Cell Count	
Single-celled Cyanobacteria, <3 microns	Cyanobacteria	9614.2	
Anabaena#2	Cyanobacteria	4696.1	*
Cryptophyte, 5-15 microns	Cryptophyte	1972.9	*
Centric Diatom, 10 micron	Diatom	755.0	*
Lyngbya limnetica	Cyanobacteria	649.3	
Merismopedia tenuissima	Cyanobacteria	241.6	
Ankistrodesmus nannoselene	Green	211.4	
Crucigenia tetrapedia	Green	181.2	
Navicula, <50 microns	Diatom	135.9	*
Nitzschia	Diatom	60.4	
Scenedesmus acuminatus	Green	60.4	
Scenedesmus bicaudata	Green	60.4	
Ankistrodesmus convolutus	Green	45.3	
Chlamydomonas	Green	45.3	
Tetraedron minimum	Green	45.3	
Cryptophyte, >15 microns	Cryptophyte	30.2	
Raphidiopsis	Cyanobacteria	30.2	
Pennate Diatom, 25-75 microns	Diatom	30.2	*
Centric Diatom, 5 micron	Diatom	30.2	
Chaetocerous	Diatom	30.2	
Naviculodes staurineis	Diatom	30.2	
Scenedesmus bijuga	Green	30.2	
Nitzschia closterium	Diatom	15.1	
Amphiprora	Diatom	15.1	
Dinoflagellates armoured	Dinoflagellate	15.1	
Ankistrodesmus falcatus	Green	15.1	
Euglena	Euglena	2.6	
Synedra	Diatom	2.1	
Pediastrum simplex var duo	Green	1.6	
Pediastrum boryanum	Green	0.8	
Nitzschia c.f. closterium	Diatom	0.6	
Navicula, >50 microns	Diatom	0.2	
Mastigloia	Diatom	0.2	
Pennate Diatom, >150 microns	Diatom	0.1	
Diploneis c.f. didyma	Diatom	0.1	
Surirella	Diatom	0.1	
Pleurosigma/Gyrosigma	Diatom	0.1	
Amphora	Diatom	0.1	
Closterium	Green	0.1	
	TOTAL	19055.2	

MPT2-BIO-6

Species	Division	Cell Counts Cells/ml	
Cryptophyte, 5-15 microns	Cryptophyte	1365.0	
Anabaena #2	Cyanobacteria	520.0	*
Single-celled Cyanobacteria, <3 microns	Cyanobacteria	338.0	
Microcystis, 1-2 micron	Cyanobacteria	130.0	
Lyngbya limnetica	Cyanobacteria	104.0	
Cryptophyte, >15 microns	Cryptophyte	91.0	*
Chlamydomonas	Green	52.0	
Naviculodes staurineis	Diatom	39.0	
Nitzschia closterium	Diatom	39.0	
Navicula, <50 microns	Diatom	39.0	*
Ankistrodesmus nannoselene	Green	39.0	
Centric Diatom, 10 micron	Diatom	26.0	
Pennate Diatom, 10-25 microns	Diatom	26.0	*
Scenedesmus bijuga	Green	26.0	
Oscillatoria #1	Cyanobacteria	13.0	
Cocconeis	Diatom	13.0	
Pennate Diatom, 25-75 microns	Diatom	13.0	*
Hantzschia sp.	Diatom	13.0	
Dinoflagellate, armoured	Dinoflagellate	13.0	
Green #2	Green	13.0	
Pleurosigma/Gyrosigma	Diatom	4.0	
Bacillaria paradoxa	Diatom	1.5	
Pennate Diatom, >150 microns	Diatom	0.8	
Diploneis c.f. didyma	Diatom	0.7	
Synedra	Diatom	0.5	
Navicula, >50 microns	Diatom	0.4	
Closterium	Green	0.4	
Mastigloia	Diatom	0.2	
Oscillatoria #3	Cyanobacteria	0.1	
Euglena	Euglena	0.1	
	TOTAL	2920.7	

MPT2-BIO-8

Species	Division	Cell Count Cells/ml	
Single-celled Cyanobacteria, <3 microns	Cyanobacteria	45793.4	
Cryptophyte, 5-15 microns	Cryptophyte	9342.1	*
Lyngbya limnetica	Cyanobacteria	3099.6	
Ankistrodesmus nannoselene	Green	2116.8	
Centric Diatom, 10 micron	Diatom	907.2	*
Centric Diatom, 5 micron	Diatom	604.8	
Nitzschia c.f. closterium	Diatom	529.2	
Amphora	Diatom	302.4	
Navicula, <50 microns	Diatoms	226.8	*
Ankistrodesmus convolutus	Green	151.2	
Pennate Diatom, 25-75 microns	Diatom	75.6	*
Chaetocerous	Diatom	75.6	
Pleurosigma/Gyrosigma	Diatom	5.0	
Pennate Diatom, >150 microns	Diatoms	1.2	
Mastigloia	Diatom	1.0	
Euglena	Euglena	1.0	
	TOTAL	63232.9	

MPT2-BIO-9

Species	Division	Cell Count Cells/ml	
Single-celled Cyanobacteria, <3 microns	Cyanobacteria	23763.4	
Centric Diatom, 10 micron	Diatom	14239.9	*
Ankistrodesmus nannoselene	Green	2687.8	
Cryptophyte, 5-15 microns	Cryptophyte	1963.0	*
Lyngbya limnetica	Cyanobacteria	1298.6	
Chlorella	Green	1208.0	
Euglena	Euglena	819.2	*
Nitzschia closterium	Diatom	392.6	
Chaetocerous	Diatom	181.2	
Centric Diatom, 5 micron	Diatom	181.2	
Scenedesmus bijuga	Green	120.8	
Centric Diatom, stacked, 5-15 microns	Diatom	90.6	*
Oscillatoria #1	Cyanobacteria	60.4	
Centric Diatom, 15 micron	Diatom	60.4	
Pennate Diatoms, 75-150 microns	Diatom	60.4	*
Cryptophyte, >15 microns	Cryptophyte	30.2	
Raphidiopsis	Cyanobacteria	30.2	
Centric Diatom, 20 microns	Diatom	30.2	
Pennate Diatoms, 25-75 microns	Diatom	30.2	*
Navicula, >50 microns	Diatom	5.2	
Oscillatoria #3	Cyanobacteria	1.4	
Pennate Diatoms, >150 microns	Diatom	1.4	
Pleurosigma/Gyrosigma	Diatom	0.6	
Centric Diatom, 50 micron	Diatom	0.2	
Amphora	Diatom	0.2	
	TOTAL	47257.3	

MPT13-BIO-1

Species	Division	Cell Count Cells/ml	
Single-celled Cyanobacteria, <3 microns	Cyanobacteria	50792.0	
Anabaena#2	Cyanobacteria	33431.4	*
Cryptophyte, 5-15 microns	Cryptophyte	2899.2	*
Centric Diatom 10m	Diatom	2265.0	*
Ankistrodesmus nannoselene	Green	1238.2	
Microcystis, 1-2 microns	Cyanobacteria	1087.2	
Scenedesmus quadricata	Green	543.6	
Lyngbya limnetica	Cyanobacteria	241.6	
Crucigenia tetrapedia	Green	181.2	
Chaetocerous	Diatom	151.0	
Navicula, <50 microns	Diatom	120.8	*
Scenedesmus bijuga	Green	120.8	
Scenedesmus quadricada var alternans	Green	120.8	
Oocystis	Green	120.8	
Nitzschia closterium	Diatom	90.6	
Anabaenopsis	Cyanobacteria	60.4	
Chodatella	Green	60.4	
Tetraedron minimum	Green	60.4	
Cryptophyte, >15 microns	Cryptophyte	30.2	
Raphidiopsis	Cyanobacteria	30.2	
Naviculodes staurineis	Diatom	30.2	
Pennate Diatoms, 10-25 microns	Diatom	30.2	
Centric Diatom, 30 micron	Diatom	30.2	*
Pennate Diatoms, 25-75 microns	Diatom	30.2	*
Tetraedron lunula	Green	30.2	
Ankistrodesmus convolutus	Green	30.2	
Tetraedron regulare	Green	30.2	
Golenkinia	Green	30.2	
Ankistrodesmus falcatus	Green	30.2	
Tetraedron muticum	Green	30.2	
Pleurosigma/Gyrosigma	Diatom	3.2	
Euglena	Euglena	2.6	
Pennate Diatoms, >150 microns	Diatom	1.8	
Navicula, >50 microns	Diatom	1.2	
Amphora	Diatom	0.8	
Surirella	Diatom	0.4	
	TOTAL	93957.8	

MPT13-BIO-2

Species	Division	Cell Count Cells/ml	
Single Celled Cyanobacteria	Cyanobacteria	46619.8	
Anabaena#2	Cyanobacteria	13016.2	*
Cryptophyte,5-15 microns	Cryptophyte	3080.4	*
Ankistrodesmus nannoselene	Green	2144.2	
Centric Diatom, 10 micron	Diatom	573.8	*
Merismopedia, 2 micron	Green	483.2	
Lyngbya limnetica	Cyanobacteria	453.0	
Anabaenopsis	Cyanobacteria	241.6	
Scenedesmus quadricata	Green	241.6	
Navicula, <50 microns	Diatom	151.0	
Centric Diatom, 5 micron	Diatom	151.0	
Crucigenia tetrapedia	Green	120.8	
Tetrastrum heteracanthum	Green	120.8	
Chaetocerous	Diatom	60.4	
Pennate Diatom, 25-75 microns	Diatom	60.4	*
Naviculodes staurineis	Diatom	60.4	
Pennate Diatom, 10-25 microns	Diatom	60.4	
Tetraedron minimum	Green	60.4	
Scenedesmus bijuga	Green	60.4	
Nitzschia closterium	Diatom	30.2	
Centric Diatom, 15 micron	Diatom	30.2	
Achnanthes	Diatom	30.2	
Ankistrodesmus convolutus	Green	30.2	
Euglena	Euglena	10.4	
Pleurosigma/Gyrosigma	Diatom	2.6	
Pediastrum simplex var duo	Green	1.6	
Pediastrum simplex no var	Green	1.6	
Amphora	Diatom	0.8	
Pennate Diatom, >150 microns	Diatom	0.8	
Scenedesmus quad var maxima	Green	0.8	
Nitzschia c.f. closterium	Diatom	0.6	
Centric Diatom, 30 microns	Diatom	0.4	
Surirella	Diatom	0.2	
Synedra	Diatom	0.2	
Navicula, >50 microns	Diatom	0.2	
Amphiprora	Diatom	0.2	
	TOTAL	67901	

MPT13-BIO-3

Species	Division	Cell Count	
Anabaena #2	Cyanobacteria	69007.0	
Single-Celled Cyanobacteria	Cyanobacteria	29931.0	
Ankistrodesmus nannoselene	Green	5843.7	
Cryptophyte, 5-15 microns	Cryptophyte	3080.4	*
Centric Diatom, 10 micron	Diatom	1691.2	*
Microcystis, 1-2 microns	Cyanobacteria	1570.4	
Anabaenopsis	Cyanobacteria	996.6	
Crucigenia tetrapedia	Green	845.6	
Merismopedia tenuissima	Green	483.2	
Kirchneriella contorta	Green	483.2	
Scenedesmus quadricata	Green	422.8	
Lyngbya limnetica	Cyanobacteria	211.4	
Scenedesmus bijuga	Green	181.4	
Chaetocerous	Diatom	181.2	
Scenedesmus dimorphus	Green	181.2	
Pennate Diatom, 10-25 microns	Diatom	151.0	*
Centric Diatoms, stacked, 5-15 microns	Diatom	120.8	*
Tetraedron muticum	Green	120.8	
Scenedesmus quadricada var alternans	Green	120.8	
Raphidiopsis	Cyanobacteria	90.6	
Ankistrodesmus falcatus	Green	90.6	
Centric Diatom, 5 micron	Diatom	60.4	
Chodatella	Green	60.4	
Euglena	Euglena	59.2	
Cosmarium	Green	30.2	
Cryptophyte, >15 microns	Cryptophyte	30.2	
Nitzschia closterium	Diatom	30.2	
Pennate Diatom, 25-75 microns	Diatom	30.2	*
Chlorogonium	Green	30.2	
Oscillatoria #1	Green	30.2	
Pediastrum simplex no var	Green	4.8	
Pediastrum duplex var duo	Green	4.4	
Pediastrum boryanum	Green	3.2	
Pediastrum simplex var duo	Green	1.9	
Scenedesmus quad var maxima	Green	1.6	
Synedra	Diatom	0.2	
Pleurosigma/Gyrosigma	Diatom	0.2	
	TOTAL	116182.4	

APPENDIX G

MACROINVERTEBRATE RAW DATA

BIOLOGICAL COMMUNITY PARAMETERS

KBN - MAYPORT
Sample Type: MACROFAUNA

Sample Date (YY/MM/DD) 92/01/20
Sample Area (sq. m.): 0.0230

NAVISTA ID NUMBER	LAB STATION NUMBER	TOTAL TAXA	MEAN TAXA PER REPL.	TOTAL NO. INDIVIDUALS	MEAN DENSITY	STANDARD DEVIATION	H'	J'	D	$\bar{d}$	e
MPT-2-BIO-2	001	15	7.0	93	1348	883	2.03	0.75	3.09	2.93	0.73
MPT-2-BIO-4	002	32	16.7	418	6058	8184	2.45	0.71	5.14	3.54	0.53
MPT-2-BIO-5	003	14	6.3	59	855	954	1.98	0.75	3.19	2.86	0.79
MPT-2-BIO-6	004	15	8.0	76	1101	708	2.28	0.84	3.23	3.28	0.93
MPT-2-BIO-8	005	11	5.3	62	899	1011	1.73	0.72	2.42	2.49	0.73
MPT-2-BIO-9	006	9	4.3	75	1087	428	1.82	0.83	1.85	2.62	1.00
MPT-B-BIO-1	007	24	14.3	1514	21942	22330	1.00	0.31	3.14	1.44	0.17
MPT-B-BIO-2	008	22	12.7	135	1957	415	2.42	0.78	4.28	3.49	0.77
MPT-B-BIO-3	009	24	12.7	454	6580	8785	1.97	0.62	3.76	2.84	0.42

Taxonomic Species List 03/06/92
KBN - Mayport -- Collected January 1992
==========

ANNELIDA
- HIRUDINEA
  - HIRUDINEA (LPIL)
- OLIGOCHAETA
  - OLIGOCHAETA (LPIL)
  - LUMBRICULIDAE
    - LUMBRICULIDAE (LPIL)
  - NAIDIDAE
    - NAIDIDAE (LPIL)
  - TUBIFICIDAE
    - TUBIFICIDAE (LPIL)
    - TUBIFICOIDES HETEROCHAETUS
- POLYCHAETA
  - AMPHARETIDAE
    - HOBSONIA FLORIDA
  - CAPITELLIDAE
    - CAPITELLA CAPITATA
    - CAPITELLIDAE (LPIL)
  - HESIONIDAE
    - HESIONIDAE (LPIL)
  - MALDANIDAE
    - MALDANIDAE (LPIL)
  - NEREIDAE
    - LAEONEREIS CULVERI
    - NEREIDAE (LPIL)
  - SPIONIDAE
    - POLYDORA CORNUTA
    - POLYDORA SOCIALIS
    - STREBLOSPIO BENEDICTI
  - TRICHOBRANCHIDAE
    - TRICHOBRANCHIDAE (LPIL)

ARTHROPODA (ARACHNIDA)
- ACARINA
  - ACARINA (LPIL)
- HYDRACARINA
  - HYDRACARINA (LPIL)

ARTHROPODA (CRUSTACEA)
- AMPHIPODA
  - AORIDAE
    - GRANDIDIERELLA BONNIEROIDES
  - COROPHIIDAE
    - COROPHIIDAE (LPIL)
    - COROPHIUM (LPIL)
    - COROPHIUM LACUSTRE
  - GAMMARIDAE
    - GAMMARIDAE (LPIL)
    - GAMMARUS (LPIL)
    - GAMMARUS PALUSTRIS
  - MELITIDAE
    - MELITA (LPIL)

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                                MELITA INTERMEDIA
                                MELITIDAE (LPIL)
                           TALITRIDAE
                                ORCHESTIA GRILLUS
                                ORCHESTIA SP.B
                                TALITRIDAE (LPIL)
                     DECAPODA (NATANTIA)
                           PALAEMONIDAE
                                PALAEMONETES PUGIO
                     DECAPODA (REPTANTIA)
                           PORTUNIDAE
                                CALLINECTES SAPIDUS
                     ISOPODA
                           ANTHURIDAE
                                ANTHURIDAE (LPIL)
                                CYATHURA (LPIL)
                                CYATHURA POLITA
                           LIGIIDAE
                                VANDELOSCIA SP.A
                           SPHAEROMATIDAE
                                CASSIDINIDEA OVALIS
                                SPHAEROMATIDAE (LPIL)
                     OSTRACODA
                                OSTRACODA (LPIL)
                           CANDONIDAE
                                CANDONIDAE GENUS A
                           CYTHERIDEIDAE
                                CYTHERIDEIDAE (LPIL)
                                HAPLOCYTHERIDEA SP.A
                     TANAIDACEA
                           PARATANAIDAE
                                HARGERIA (LPIL)
                                HARGERIA RAPAX
                                PARATANAIDAE (LPIL)
          ARTHROPODA (INSECTA)
                     COLEOPTERA
                           CHRYSOMELIDAE
                                AGASICLES HYGROPHILA
                     COLLEMBOLA
                           ISOTOMIDAE
                                ISOTOMURUS PALUSTRIS
                     DIPTERA
                           CHIRONOMIDAE
                                CHIRONOMIDAE GENUS AI
                                CHIRONOMUS SP.A
                                DICROTENDIPES (LPIL)
                                GOELDICHIRONOMUS HOLOPRASINUS
                                POLYPEDILUM SCALAENUM

                           EPHYDRIDAE
                                EPHYDRA (LPIL)
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                    MUSCIDAE
                        MUSCIDAE (LPIL)
                    PSYCHODIDAE
                        TELMATOSCOPUS SUPERBUS
                    STRATIOMYIDAE
                        STRATIOMYS (LPIL)
                    TIPULIDAE
                        ORMOSIA SP.A
                        TIPULIDAE (LPIL)
          HEMIPTERA
                    CORIXIDAE
                        HESPEROCORIXA MINOR
          LEPIDOPTERA
                    PYRALIDAE
                        VOGTIA (LPIL)
          ODONATA
                    COENAGRIONIDAE
                        ENALLAGMA (LPIL)
MOLLUSCA
          GASTROPODA
                        GASTROPODA (LPIL)
                    HYDROBIIDAE
                        HYDROBIIDAE (LPIL)
                    MELAMPIDAE
                        MELAMPUS BIDENTATUS
          PELECYPODA
                        PELECYPODA (LPIL)
                    MYTILIDAE
                        AMYGDALUM SAGITTATUM
RHYNCHOCOELA
                        RHYNCHOCOELA (LPIL)
```

ple Date 92/01/21 Station: 001
ple Size 0.0230 SQ. M Sample Type: MACROFAUNA

Comments: Station MPT-2-BIO-2

TAXON	REPA	REPB	REPC	TOTAL	PERCENT
** ANNELIDA					
OLIGOCHAETA					
OLIGOCHAETA (LPIL)	0	0	23	23	24.73
NAIDIDAE					
NAIDIDAE (LPIL)	0	1	9	10	10.75
TUBIFICIDAE					
TUBIFICIDAE (LPIL)	8	3	0	11	11.83
** MOLLUSCA					
GASTROPODA					
HYDROBIIDAE					
HYDROBIIDAE (LPIL)	0	0	1	1	1.07
** ARTHROPODA (CRUSTACEA)					
ISOPODA					
LIGIIDAE					
VANDELOSCIA SP.A	0	0	1	1	1.07
OSTRACODA					
CANDONIDAE					
CANDONIDAE GENUS A	0	1	0	1	1.07
** ARTHROPODA (INSECTA)					
DIPTERA					
CHIRONOMIDAE					
CHIRONOMUS SP.A	10	3	7	20	21.50
GOELDICHIRONOMUS HOLOPRASINUS	6	3	8	17	18.28
TIPULIDAE					
TIPULIDAE (LPIL)	0	0	1	1	1.07
EPHYDRIDAE					
EPHYDRA (LPIL)	0	1	0	1	1.07
STRATIOMYIDAE					
STRATIOMYS (LPIL)	0	1	0	1	1.07
ODONATA					
COENAGRIONIDAE					
ENALLAGMA (LPIL)	0	0	1	1	1.07

----------Report Continued on Next Page----------

Sample Date 92/01/21
Sample Size 0.0230 SQ. M

Station: 001
Sample Type: MACROFAUNA

Comments: Station MPT-2-BIO-2

TAXON	REPA	REPB	REPC	TOTAL	PERCENT
** ARTHROPODA (INSECTA)					
COLLEMBOLA					
ISOTOMIDAE					
ISOTOMURUS PALUSTRIS	0	0	1	1	1.07
HEMIPTERA					
CORIXIDAE					
HESPEROCORIXA MINOR	3	0	0	3	3.23
COLEOPTERA					
CHRYSOMELIDAE					
AGASICLES HYGROPHILA	0	0	1	1	1.07

----------Report Continued on Next Page----------

ple Date 92/01/21
ple Size 0.0230 SQ. M

Station: 001
Sample Type: MACROFAUNA

Comments: Station MPT-2-BIO-2

NOTE:
LPIL designates the LOWEST PRACTICAL IDENTIFICATION LEVEL

REPA REPB REPC
Total Individuals per Replicate:
27 13 53
Total Taxa per replicate:
4 7 10

Total number of taxa for this station = 15

Total number of individuals for this station = 93

Mean Number Individuals per square meter = 1348

PHYLUM	TOTAL # TAXA	% TAXA	TOTAL # INDIVIDUALS	% INDIVIDUALS
ANNELIDA	3	20.0	44	47.3
MOLLUSCA	1	6.6	1	1.0
ARTHROPODA	11	73.3	48	51.6
ECHINODERMATA	0	.0	0	.0
MISCELLANEOUS	0	.0	0	.0

----------Report Continued on Next Page----------

Sample Date 92/01/22
Sample Size 0.0230 SQ. M

Station: 002
Sample Type: MACROFAUNA

Comments: Station MPT-2-BIO-4

TAXON	REPA	REPB	REPC	TOTAL	PERCENT
** ANNELIDA					
POLYCHAETA					
AMPHARETIDAE					
HOBSONIA FLORIDA	4	1	8	13	3.11
CAPITELLIDAE					
CAPITELLIDAE (LPIL)	0	0	1	1	0.24
CAPITELLA CAPITATA	6	1	27	34	8.13
HESIONIDAE					
HESIONIDAE (LPIL)	0	1	2	3	0.72
MALDANIDAE					
MALDANIDAE (LPIL)	0	0	1	1	0.24
NEREIDAE					
NEREIDAE (LPIL)	0	0	2	2	0.48
LAEONEREIS CULVERI	0	0	7	7	1.68
SPIONIDAE					
POLYDORA SOCIALIS	0	0	4	4	0.96
POLYDORA CORNUTA	0	1	1	2	0.48
STREBLOSPIO BENEDICTI	10	2	45	57	13.64
TRICHOBRANCHIDAE					
TRICHOBRANCHIDAE (LPIL)	1	0	0	1	0.24
OLIGOCHAETA					
OLIGOCHAETA (LPIL)	0	3	39	42	10.05
NAIDIDAE					
NAIDIDAE (LPIL)	2	0	0	2	0.48
TUBIFICIDAE					
TUBIFICIDAE (LPIL)	6	3	62	71	16.99
TUBIFICOIDES HETEROCHAETUS	0	1	11	12	2.87
LUMBRICULIDAE					
LUMBRICULIDAE (LPIL)	0	0	99	99	23.68
** MOLLUSCA					
PELECYPODA					
PELECYPODA (LPIL)	1	0	0	1	0.24
MYTILIDAE					
AMYGDALUM SAGITTATUM	0	0	1	1	0.24

----------Report Continued on Next Page----------

ple Date 92/01/22 Station: 002
ple Size 0.0230 SQ. M Sample Type: MACROFAUNA

Comments: Station MPT-2-BIO-4

TAXON	REPA	REPB	REPC	TOTAL	PERCENT
** MOLLUSCA					
GASTROPODA					
HYDROBIIDAE					
HYDROBIIDAE (LPIL)	1	0	0	1	0.24
** ARTHROPODA (CRUSTACEA)					
ISOPODA					
ANTHURIDAE					
CYATHURA POLITA	1	0	0	1	0.24
SPHAEROMATIDAE					
CASSIDINIDEA OVALIS	0	1	12	13	3.11
AMPHIPODA					
GAMMARIDAE					
GAMMARUS PALUSTRIS	2	0	2	4	0.96
GAMMARUS (LPIL)	0	0	1	1	0.24
TALITRIDAE					
ORCHESTIA GRILLUS	0	1	0	1	0.24
ORCHESTIA SP.B	0	0	1	1	0.24
TANAIDACEA					
PARATANAIDAE					
HARGERIA (LPIL)	1	0	5	6	1.44
DECAPODA (NATANTIA)					
PALAEMONIDAE					
PALAEMONETES PUGIO	0	0	1	1	0.24
DECAPODA (REPTANTIA)					
PORTUNIDAE					
CALLINECTES SAPIDUS	0	0	1	1	0.24
** ARTHROPODA (ARACHNIDA)					
ACARINA					
ACARINA (LPIL)	1	0	0	1	0.24
** ARTHROPODA (INSECTA)					
IPTERA					
CHIRONOMIDAE					
CHIRONOMUS SP.A	8	1	5	14	3.35

----------Report Continued on Next Page----------

Sample Date 92/01/22
Sample Size 0.0230 SQ. M

Station: 002
Sample Type: MACROFAUNA

Comments: Station MPT-2-BIO-4

TAXON	REPA	REPB	REPC	TOTAL	PERCENT
** ARTHROPODA (INSECTA)					
DIPTERA					
CHIRONOMIDAE					
DICROTENDIPES (LPIL)	2	0	17	19	4.54
COLLEMBOLA					
ISOTOMIDAE					
ISOTOMURUS PALUSTRIS	0	0	1	1	0.24

----------Report Continued on Next Page----------

ple Date 92/01/22
ple Size 0.0230 SQ. M

Station: 002
Sample Type: MACROFAUNA

Comments: Station MPT-2-BIO-4

NOTE:
LPIL designates the LOWEST PRACTICAL IDENTIFICATION LEVEL

REPA REPB REPC
Total Individuals per Replicate:
46 16 356
Total Taxa per replicate:
14 11 25

Total number of taxa for this station = 32

Total number of individuals for this station = 418

Mean Number Individuals per square meter = 6058

PHYLUM	TOTAL # TAXA	% TAXA	TOTAL # INDIVIDUALS	% INDIVIDUALS
ANNELIDA	16	50.0	351	83.9
MOLLUSCA	3	9.3	3	.7
ARTHROPODA	13	40.6	64	15.3
ECHINODERMATA	0	.0	0	.0
MISCELLANEOUS	0	.0	0	.0

----------Report Continued on Next Page----------

Sample Date 92/01/22 Station: 003
Sample Size 0.0230 SQ. M Sample Type: MACROFAUNA

Comments: Station MPT-2-BIO-5

TAXON	REPA	REPB	REPC	TOTAL	PERCENT
** ANNELIDA					
POLYCHAETA					
HESIONIDAE					
HESIONIDAE (LPIL)	0	0	1	1	1.70
OLIGOCHAETA					
OLIGOCHAETA (LPIL)	5	0	0	5	8.47
TUBIFICIDAE					
TUBIFICIDAE (LPIL)	1	4	0	5	8.47
TUBIFICOIDES HETEROCHAETUS	1	1	0	2	3.39
** MOLLUSCA					
PELECYPODA					
PELECYPODA (LPIL)	0	1	0	1	1.70
GASTROPODA					
HYDROBIIDAE					
HYDROBIIDAE (LPIL)	0	4	0	4	6.78
** ARTHROPODA (CRUSTACEA)					
ISOPODA					
SPHAEROMATIDAE					
CASSIDINIDEA OVALIS	0	1	0	1	1.70
AMPHIPODA					
GAMMARIDAE					
GAMMARUS (LPIL)	0	1	0	1	1.70
OSTRACODA					
CYTHERIDEIDAE					
HAPLOCYTHERIDEA SP.A	0	1	0	1	1.70
** ARTHROPODA (ARACHNIDA)					
HYDRACARINA					
HYDRACARINA (LPIL)	0	1	0	1	1.70

----------Report Continued on Next Page----------

Sample Date 92/01/22
Sample Size 0.0230 SQ. M

Station: 003
Sample Type: MACROFAUNA

Comments: Station MPT-2-BIO-5

TAXON	REPA	REPB	REPC	TOTAL	PERCENT
** ARTHROPODA (INSECTA)					
DIPTERA					
CHIRONOMIDAE					
CHIRONOMUS SP.A	0	1	1	2	3.39
DICROTENDIPES (LPIL)	0	20	4	24	40.68
GOELDICHIRONOMUS HOLOPRASINUS	0	9	1	10	16.95
MUSCIDAE					
MUSCIDAE (LPIL)	0	1	0	1	1.70

----------Report Continued on Next Page----------

Sample Date 92/01/22
Sample Size 0.0230 SQ. M

Station: 003
Sample Type: MACROFAUNA

Comments: Station MPT-2-BIO-5

NOTE:
LPIL designates the LOWEST PRACTICAL IDENTIFICATION LEVEL

REPA REPB REPC
Total Individuals per Replicate:
7 45 7
Total Taxa per replicate:
3 12 4

Total number of taxa for this station = 14

Total number of individuals for this station = 59

Mean Number Individuals per square meter = 855

PHYLUM	TOTAL # TAXA	% TAXA	TOTAL # INDIVIDUALS	% INDIVIDUALS
ANNELIDA	4	28.5	13	22.0
MOLLUSCA	2	14.2	5	8.4
ARTHROPODA	8	57.1	41	69.4
ECHINODERMATA	0	.0	0	.0
MISCELLANEOUS	0	.0	0	.0

----------Report Continued on Next Page----------

ple Date 92/01/22
ple Size 0.0230 SQ. M

Station: 004
Sample Type: MACROFAUNA

Comments: Station MPT-2-BIO-6

TAXON	REPA	REPB	REPC	TOTAL	PERCENT
** ANNELIDA					
POLYCHAETA					
AMPHARETIDAE					
HOBSONIA FLORIDA	3	2	4	9	11.84
HESIONIDAE					
HESIONIDAE (LPIL)	1	0	18	19	25.00
TRICHOBRANCHIDAE					
TRICHOBRANCHIDAE (LPIL)	1	0	1	2	2.63
OLIGOCHAETA					
OLIGOCHAETA (LPIL)	0	0	2	2	2.63
TUBIFICIDAE					
TUBIFICIDAE (LPIL)	0	7	3	10	13.16
IRUDINEA					
HIRUDINEA (LPIL)	1	0	0	1	1.32
** MOLLUSCA					
PELECYPODA					
PELECYPODA (LPIL)	2	1	0	3	3.95
GASTROPODA					
GASTROPODA (LPIL)	0	0	1	1	1.32
HYDROBIIDAE					
HYDROBIIDAE (LPIL)	4	3	4	11	14.47
MELAMPIDAE					
MELAMPUS BIDENTATUS	0	0	1	1	1.32
** ARTHROPODA (CRUSTACEA)					
AMPHIPODA					
GAMMARIDAE					
GAMMARIDAE (LPIL)	0	0	1	1	1.32
OSTRACODA					
CYTHERIDEIDAE					
HAPLOCYTHERIDEA SP.A	0	1	0	1	1.32

----------Report Continued on Next Page----------

Sample Date 92/01/22
Sample Size 0.0230 SQ. M

Station: 004
Sample Type: MACROFAUNA

Comments: Station MPT-2-BIO-6

TAXON	REPA	REPB	REPC	TOTAL	PERCENT
** ARTHROPODA (INSECTA)					
DIPTERA					
CHIRONOMIDAE					
CHIRONOMUS SP.A	3	0	4	7	9.21
DICROTENDIPES (LPIL)	3	0	0	3	3.95
GOELDICHIRONOMUS HOLOPRASINUS	0	0	5	5	6.58

----------Report Continued on Next Page----------

le Date 92/01/22
ple Size 0.0230 SQ. M

Station: 004
Sample Type: MACROFAUNA

Comments: Station MPT-2-BIO-6

NOTE:
LPIL designates the LOWEST PRACTICAL IDENTIFICATION LEVEL

REPA REPB REPC
Total Individuals per Replicate:
18 14 44
Total Taxa per replicate:
8 5 11

Total number of taxa for this station = 15

Total number of individuals for this station = 76

Mean Number Individuals per square meter = 1101

PHYLUM	TOTAL # TAXA	% TAXA	TOTAL # INDIVIDUALS	% INDIVIDUALS
ANNELIDA	6	40.0	43	56.5
MOLLUSCA	4	26.6	16	21.0
ARTHROPODA	5	33.3	17	22.3
ECHINODERMATA	0	.0	0	.0
MISCELLANEOUS	0	.0	0	.0

----------Report Continued on Next Page----------

Sample Date 92/01/21
Sample Size 0.0230 SQ. M

Station: 005
Sample Type: MACROFAUNA

Comments: Station MPT-2-BIO-8

TAXON	REPA	REPB	REPC	TOTAL	PERCENT
** ANNELIDA					
OLIGOCHAETA					
LUMBRICULIDAE					
LUMBRICULIDAE (LPIL)	0	1	0	1	1.61
** MOLLUSCA					
GASTROPODA					
GASTROPODA (LPIL)	0	1	0	1	1.61
HYDROBIIDAE					
HYDROBIIDAE (LPIL)	0	1	3	4	6.45
** ARTHROPODA (CRUSTACEA)					
ISOPODA					
SPHAEROMATIDAE					
CASSIDINIDEA OVALIS	1	3	1	5	8.06
OSTRACODA					
CYTHERIDEIDAE					
CYTHERIDEIDAE (LPIL)	0	0	2	2	3.23
HAPLOCYTHERIDEA SP.A	0	0	24	24	38.71
** ARTHROPODA (INSECTA)					
DIPTERA					
CHIRONOMIDAE					
CHIRONOMUS SP.A	0	4	0	4	6.45
DICROTENDIPES (LPIL)	0	1	0	1	1.61
CHIRONOMIDAE GENUS AI	1	0	0	1	1.61
GOELDICHIRONOMUS HOLOPRASINUS	1	1	16	18	29.03
COLLEMBOLA					
ISOTOMIDAE					
ISOTOMURUS PALUSTRIS	0	0	1	1	1.61

----------Report Continued on Next Page----------

e Date 92/01/21
Sample Size 0.0230 SQ. M

Station: 005
Sample Type: MACROFAUNA

Comments: Station MPT-2-BIO-8

NOTE:
LPIL designates the LOWEST PRACTICAL IDENTIFICATION LEVEL

REPA REPB REPC
Total Individuals per Replicate:
3 12 47
Total Taxa per replicate:
3 7 6

tal number of taxa for this station = 11

Total number of individuals for this station = 62

Mean Number Individuals per square meter = 899

PHYLUM	TOTAL # TAXA	% TAXA	TOTAL # INDIVIDUALS	% INDIVIDUALS
ANNELIDA	1	9.0	1	1.6
MOLLUSCA	2	18.1	5	8.0
ARTHROPODA	8	72.7	56	90.3
ECHINODERMATA	0	.0	0	.0
MISCELLANEOUS	0	.0	0	.0

----------Report Continued on Next Page----------

Sample Date 92/01/21
Sample Size 0.0230 SQ. M

Station: 006
Sample Type: MACROFAUNA

Comments: Station MPT-2-BIO-9

TAXON	REPA	REPB	REPC	TOTAL	PERCENT
** ANNELIDA					
OLIGOCHAETA					
OLIGOCHAETA (LPIL)	17	0	0	17	22.67
NAIDIDAE					
NAIDIDAE (LPIL)	0	1	0	1	1.33
TUBIFICIDAE					
TUBIFICIDAE (LPIL)	0	5	2	7	9.33
** ARTHROPODA (CRUSTACEA)					
OSTRACODA					
CANDONIDAE					
CANDONIDAE GENUS A	2	0	0	2	2.67
** ARTHROPODA (INSECTA)					
DIPTERA					
CHIRONOMIDAE					
CHIRONOMUS SP.A	7	0	4	11	14.67
GOELDICHIRONOMUS HOLOPRASINUS	0	7	12	19	25.33
TIPULIDAE					
ORMOSIA SP.A	0	0	2	2	2.67
PSYCHODIDAE					
TELMATOSCOPUS SUPERBUS	2	0	13	15	20.00
LEPIDOPTERA					
PYRALIDAE					
VOGTIA (LPIL)	0	1	0	1	1.33

----------Report Continued on Next Page----------

Sample Date 92/01/21
Sample Size 0.0230 SQ. M

Station: 006
Sample Type: MACROFAUNA

Comments: Station MPT-2-BIO-9

NOTE:
LPIL designates the LOWEST PRACTICAL IDENTIFICATION LEVEL

REPA REPB REPC
Total Individuals per Replicate:
28 14 33
Total Taxa per replicate:
4 4 5

Total number of taxa for this station = 9

Total number of individuals for this station = 75

Mean Number Individuals per square meter = 1087

PHYLUM	TOTAL # TAXA	% TAXA	TOTAL # INDIVIDUALS	% INDIVIDUALS
ANNELIDA	3	33.3	25	33.3
MOLLUSCA	0	.0	0	.0
ARTHROPODA	6	66.6	50	66.6
ECHINODERMATA	0	.0	0	.0
MISCELLANEOUS	0	.0	0	.0

----------Report Continued on Next Page----------

Sample Date 92/01/22
Sample Size 0.0230 SQ. M

Station: 007
Sample Type: MACROFAUNA

Comments: Station MPT-B-BIO-1

TAXON	REPA	REPB	REPC	TOTAL	PERCENT
** ANNELIDA					
POLYCHAETA					
AMPHARETIDAE					
HOBSONIA FLORIDA	0	1	1	2	0.13
CAPITELLIDAE					
CAPITELLA CAPITATA	20	5	1	26	1.72
NEREIDAE					
NEREIDAE (LPIL)	0	2	1	3	0.20
LAEONEREIS CULVERI	40	2	9	51	3.37
SPIONIDAE					
POLYDORA SOCIALIS	0	1	0	1	0.07
POLYDORA CORNUTA	0	4	3	7	0.46
STREBLOSPIO BENEDICTI	31	72	8	111	7.33
OLIGOCHAETA					
OLIGOCHAETA (LPIL)	48	7	5	60	3.96
TUBIFICIDAE					
TUBIFICOIDES HETEROCHAETUS	5	15	1	21	1.39
LUMBRICULIDAE					
LUMBRICULIDAE (LPIL)	902	276	1	1179	77.87
** MOLLUSCA					
PELECYPODA					
PELECYPODA (LPIL)	0	0	2	2	0.13
GASTROPODA					
GASTROPODA (LPIL)	0	1	0	1	0.07
** ARTHROPODA (CRUSTACEA)					
ISOPODA					
ANTHURIDAE					
ANTHURIDAE (LPIL)	0	0	1	1	0.07
CYATHURA POLITA	0	1	0	1	0.07
SPHAEROMATIDAE					
CASSIDINIDEA OVALIS	1	1	0	2	0.13

----------Report Continued on Next Page----------

le Date 92/01/22
le Size 0.0230 SQ. M

Station: 007
Sample Type: MACROFAUNA

Comments: Station MPT-B-BIO-1

TAXON	REPA	REPB	REPC	TOTAL	PERCENT
** ARTHROPODA (CRUSTACEA)					
AMPHIPODA					
COROPHIIDAE					
COROPHIUM (LPIL)	0	1	1	2	0.13
GAMMARIDAE					
GAMMARIDAE (LPIL)	0	1	0	1	0.07
GAMMARUS PALUSTRIS	0	2	0	2	0.13
GAMMARUS (LPIL)	0	1	0	1	0.07
TALITRIDAE					
TALITRIDAE (LPIL)	1	0	0	1	0.07
TANAIDACEA					
PARATANAIDAE					
HARGERIA (LPIL)	0	1	0	1	0.07
RACODA					
CYTHERIDEIDAE					
HAPLOCYTHERIDEA SP.A	6	0	9	15	0.99
** ARTHROPODA (INSECTA)					
DIPTERA					
CHIRONOMIDAE					
CHIRONOMUS SP.A	5	0	2	7	0.46
DICROTENDIPES (LPIL)	0	16	0	16	1.06

----------Report Continued on Next Page----------

Sample Date 92/01/22
Sample Size 0.0230 SQ. M

Station: 007
Sample Type: MACROFAUNA

Comments: Station MPT-B-BIO-1

NOTE:
LPIL designates the LOWEST PRACTICAL IDENTIFICATION LEVEL

REPA REPB REPC
Total Individuals per Replicate:
1059 410 45
Total Taxa per replicate:
10 19 14

Total number of taxa for this station = 24

Total number of individuals for this station = 1514

Mean Number Individuals per square meter = 21942

PHYLUM	TOTAL # TAXA	% TAXA	TOTAL # INDIVIDUALS	% INDIVIDUALS
ANNELIDA	10	41.6	1461	96.5
MOLLUSCA	2	8.3	3	.2
ARTHROPODA	12	50.0	50	3.3
ECHINODERMATA	0	.0	0	.0
MISCELLANEOUS	0	.0	0	.0

----------Report Continued on Next Page----------

ple Date 92/01/20
ple Size 0.0230 SQ. M

Station: 008
Sample Type: MACROFAUNA

Comments: Station MPT-B-BIO-2

TAXON	REPA	REPB	REPC	TOTAL	PERCENT
** ANNELIDA					
POLYCHAETA					
AMPHARETIDAE					
HOBSONIA FLORIDA	2	4	0	6	4.44
HESIONIDAE					
HESIONIDAE (LPIL)	1	0	0	1	0.74
NEREIDAE					
LAEONEREIS CULVERI	2	14	1	17	12.59
SPIONIDAE					
POLYDORA SOCIALIS	1	0	0	1	0.74
OLIGOCHAETA					
OLIGOCHAETA (LPIL)	10	0	1	11	8.15
TUBIFICIDAE					
TUBIFICIDAE (LPIL)	1	0	0	1	0.74
** MOLLUSCA					
GASTROPODA					
GASTROPODA (LPIL)	1	1	0	2	1.48
HYDROBIIDAE					
HYDROBIIDAE (LPIL)	0	1	0	1	0.74
MELAMPIDAE					
MELAMPUS BIDENTATUS	0	1	0	1	0.74
** ARTHROPODA (CRUSTACEA)					
ISOPODA					
ANTHURIDAE					
CYATHURA POLITA	3	8	1	12	8.89
CYATHURA (LPIL)	0	0	1	1	0.74
SPHAEROMATIDAE					
SPHAEROMATIDAE (LPIL)	1	0	0	1	0.74
CASSIDINIDEA OVALIS	12	4	22	38	28.15
AMPHIPODA					
MELITIDAE					
MELITIDAE (LPIL)	2	0	0	2	1.48

----------Report Continued on Next Page----------

Sample Date 92/01/20
Sample Size 0.0230 SQ. M

Station: 008
Sample Type: MACROFAUNA

Comments: Station MPT-B-BIO-2

TAXON	REPA	REPB	REPC	TOTAL	PERCENT
** ARTHROPODA (CRUSTACEA)					
AMPHIPODA					
MELITIDAE					
MELITA (LPIL)	4	0	0	4	2.96
TALITRIDAE					
TALITRIDAE (LPIL)	1	0	0	1	0.74
TANAIDACEA					
PARATANAIDAE					
PARATANAIDAE (LPIL)	0	1	1	2	1.48
HARGERIA (LPIL)	5	2	1	8	5.93
** ARTHROPODA (INSECTA)					
DIPTERA					
CHIRONOMIDAE					
CHIRONOMUS SP.A	7	8	1	16	11.85
POLYPEDILUM SCALAENUM	0	0	1	1	0.74
DICROTENDIPES (LPIL)	1	0	4	5	3.70
GOELDICHIRONOMUS HOLOPRASINUS	1	0	2	3	2.22

----------Report Continued on Next Page----------

ple Date 92/01/20
ple Size 0.0230 SQ. M

Station: 008
Sample Type: MACROFAUNA

Comments: Station MPT-B-BIO-2

NOTE:
LPIL designates the LOWEST PRACTICAL IDENTIFICATION LEVEL

REPA REPB REPC
Total Individuals per Replicate:
55 44 36
Total Taxa per replicate:
17 10 11

Total number of taxa for this station = 22

Total number of individuals for this station = 135

Mean Number Individuals per square meter = 1957

PHYLUM	TOTAL # TAXA	% TAXA	TOTAL # INDIVIDUALS	% INDIVIDUALS
ANNELIDA	6	27.2	37	27.4
MOLLUSCA	3	13.6	4	2.9
ARTHROPODA	13	59.0	94	69.6
ECHINODERMATA	0	.0	0	.0
MISCELLANEOUS	0	.0	0	.0

----------Report Continued on Next Page----------

Sample Date 92/01/20
Sample Size 0.0230 SQ. M

Station: 009
Sample Type: MACROFAUNA

Comments: Station MPT-B-BIO-3

TAXON	REPA	REPB	REPC	TOTAL	PERCENT
** RHYNCHOCOELA					
RHYNCHOCOELA (LPIL)	0	1	0	1	0.22
** ANNELIDA					
POLYCHAETA					
CAPITELLIDAE					
CAPITELLIDAE (LPIL)	0	2	0	2	0.44
HESIONIDAE					
HESIONIDAE (LPIL)	2	0	6	8	1.76
NEREIDAE					
NEREIDAE (LPIL)	0	4	0	4	0.88
LAEONEREIS CULVERI	0	8	3	11	2.42
SPIONIDAE					
POLYDORA SOCIALIS	0	2	0	2	0.44
POLYDORA CORNUTA	0	3	2	5	1.10
STREBLOSPIO BENEDICTI	0	13	3	16	3.52
OLIGOCHAETA					
OLIGOCHAETA (LPIL)	0	11	0	11	2.42
** ARTHROPODA (CRUSTACEA)					
ISOPODA					
ANTHURIDAE					
CYATHURA POLITA	0	4	0	4	0.88
SPHAEROMATIDAE					
CASSIDINIDEA OVALIS	0	17	0	17	3.74
AMPHIPODA					
COROPHIIDAE					
COROPHIIDAE (LPIL)	0	11	1	12	2.64
COROPHIUM LACUSTRE	12	194	24	230	50.66
COROPHIUM (LPIL)	2	31	3	36	7.93
AORIDAE					
GRANDIDIERELLA BONNIEROIDES	0	4	0	4	0.88
MELITIDAE					
MELITIDAE (LPIL)	0	4	1	5	1.10
MELITA INTERMEDIA	2	1	0	3	0.66

----------Report Continued on Next Page----------

ple Date 92/01/20
ple Size 0.0230 SQ. M

Station: 009
Sample Type: MACROFAUNA

Comments: Station MPT-B-BIO-3

TAXON	REPA	REPB	REPC	TOTAL	PERCENT
** ARTHROPODA (CRUSTACEA)					
AMPHIPODA					
MELITIDAE					
MELITA (LPIL)	2	29	3	34	7.49
TANAIDACEA					
PARATANAIDAE					
PARATANAIDAE (LPIL)	0	2	0	2	0.44
HARGERIA RAPAX	0	1	0	1	0.22
HARGERIA (LPIL)	0	36	4	40	8.81
OSTRACODA					
OSTRACODA (LPIL)	0	1	0	1	0.22
ARTHROPODA (INSECTA)					
DIPTERA					
CHIRONOMIDAE					
POLYPEDILUM SCALAENUM	0	1	0	1	0.22
DICROTENOIPES (LPIL)	0	4	0	4	0.88

----------Report Continued on Next Page----------

Sample Date 92/01/20
Sample Size 0.0230 SQ. M

Station: 009
Sample Type: MACROFAUNA

Comments: Station MPT-B-BIO-3

NOTE:
LPIL designates the LOWEST PRACTICAL IDENTIFICATION LEVEL

REPA REPB REPC
Total Individuals per Replicate:
20 384 50
Total Taxa per replicate:
5 23 10

Total number of taxa for this station = 24

Total number of individuals for this station = 454

Mean Number Individuals per square meter = 6580

PHYLUM	TOTAL # TAXA	% TAXA	TOTAL # INDIVIDUALS	% INDIVIDUALS
ANNELIDA	8	33.3	59	13.0
MOLLUSCA	0	.0	0	.0
ARTHROPODA	15	62.5	394	86.7
ECHINODERMATA	0	.0	0	.0
MISCELLANEOUS	1	4.1	1	.2

----------Report Continued on Next Page----------

APPENDIX H

VEGETATION OBSERVED AT NAVSTA MAYPORT
JANUARY 1992

Table H-1. Vegetation Observed at SWMU 2 (NIRP Site 2), NAVSTA Mayport (January 1992)

Common Name	Scientific Name	USACE	DER
Groundsel Bush	*Baccharis halimifolia*	FAC	-
Cabbage Palm	*Sabal palmetto*	FAC	I
Seashore Paspalum	*Paspalum vaginatum*	OBL	S
Bermuda Grass	*Cynodon dactylon*	FACU	-
Bushy Broom Grass	*Andropogon glomeratus*	FACW	-
Coastal Plain Pennywort	*Hydrocotyle bonariensis*	FACW	-
Pony-foot	*Dichondra carolinensis*	FACW	-
Southern Fleabane	*Erigeron quercifolius*	FAC	-

Source: KBN Engineering and Applied Sciences, Inc., 1992

Table H-2. Vegetation Observed at SWMU 3 (NIRP Site 4), NAVSTA Mayport (January 1992)

Common Name	Scientific Name	USACE	DER
Marsh Elder	*Iva frutescens*	FACW	S
Bushy Broom Grass	*Andropogon glomeratus*	FACW	-
Pennywort	*Hydrocotyle* sp.	FACW	-
		OBL	-
		OBL	T
Seaside Goldenrod	*Solidago sempervirens*	FACW	-
Sabal Palm	*Sabal palmetto*	FAC	I
Common Beggar's-tick	*Bidens alba*	FACW	-
Bermuda Grass	*Cynodon dactylon*	FACU	-
Chinaberry	*Melia azedarach*	-	-
Camphor Weed	*Heterotheca subaxillaris*	FACU	-
Blue Maidencane	*Amphicarpum muhlenbergianum*	FACW	-
Common Wild Lettuce	*Lactuca graminifolia*	FACU	-
Spiny-leaved Sowthistle	*Sonchus asper*	FAC	-
Pampas Grass	*Cortaderia selloana*	-	-
Fall Panicum	*Panicum dichotomiflorum*	FACW	-
Vasey Grass	*Paspalum urvillei*	FAC	-
Common Ragweed	*Ambrosia artemisiifolia*	FACU	-
Sharp-pod Morning-glory	*Ipomoea cordatotriloba*	FACU	-

Source: KBN Engineering and Applied Sciences, Inc., 1992.

Table H-3. Vegetation Observed at SWMU 4 (NIRP Site 5), NAVSTA Mayport (January 1992)

Common Name	Scientific Name	USACE	DER
Groundsel Bush	*Baccharis halimifolia*	FAC	-
Slash Pine	*Pinus elliottii*	FACW	-
Common Beggar's-tick	*Bidens alba*	FACW	-
Vasey Grass	*Paspalum urvillei*	FAC	-
Seaside Goldenrod	*Solidago sempervirens*	FACW	-
Brazilian Verbena	*Verbena brasiliensis*	FAC	-
Pennywort	*Hydrocotyle* sp.	FACW	-
		OBL	-
		OBL	T
Maypop	*Passiflora incarnata*	-	-
Southern Sandspur	*Cenchrus echinatus*	-	-
Camphor Weed	*Heterotheca subaxillaris*	FACU	-
Crowfoot Grass	*Dactyloctenium aegyptium*	-	-
White Sweet-clover	*Melilotus alba*	FACU	-
Bermuda Grass	*Cynodon dactylon*	FACU	-

Source: KBN Engineering and Applied Sciences, Inc., 1992.

Table H-4. Vegetation Observed at SWMU 5 (NIRP Site 6), NAVSTA Mayport (January 1992) (Page 1 of 2)

Common Name	Scientific Name	USACE	DER
Common Beggar's-tick	*Bidens alba*	FACW	-
Pennywort	*Hydrocotyle* sp.	FACW	-
		OBL	-
		OBL	T
Bermuda Grass	*Cynodon dactylon*	FACU	-
Vasey Grass	*Paspalum urvillei*	FAC	-
Groundsel Bush	*Baccharis halimifolia*	FAC	-
Match-head	*Phyla nodiflora*	FACW	-
Camphor Weed	*Heterotheca subaxillaris*	FACU	-
Southern Dewberry	*Rubus trivialis*	FAC	-
Sand Cord Grass	*Spartina bakeri*	FACW	T
Beach Grass	*Panicum amarum*	FAC	-
Cabbage Palm	*Sabal palmetto*	FAC	I
Coastal Plain Willow	*Salix caroliniana*	OBL	S
Maypop	*Passiflora incarnata*	-	-
Southern Red Cedar	*Juniperus silicicola*	FAC	-
Sugarberry	*Celtis laevigata*	FACW	T
Bushy Broom Grass	*Andropogon glomeratus*	FACW	-
Saltmarsh Cord Grass	*Spartina alterniflora*	OBL	S
Seashore Paspalum	*Paspalum vaginatum*	OBL	S
Seaside Goldenrod	*Solidago sempervirens*	FACW	-
Chestnut Sedge	*Fimbristylis castanea*	OBL	S
Black Needle Rush	*Juncus roemerianus*	OBL	S
Hair Grass	*Muhlenbergia capillaris*	FACU	S
Dune Sandspur	*Cenchrus tribuloides*	FACU	-
Sea Oxeye	*Borrichia frutescens*	OBL	S
Perennial Glasswort	*Salicornia virginica*	OBL	S
Salt Grass	*Distichlis spicata*	FACW	S
Marsh Elder	*Iva frutescens*	FACW	S
Christmas Berry	*Lycium carolinianum*	FACW	-
Southern Cat-tail	*Typha domingensis*	OBL	S
Seashore Dropseed	*Sporobolus virginicus*	FACW	S
Slash Pine	*Pinus elliottii*	FACW	-
Flat-topped Goldenrod	*Euthamia tenuifolia*	FAC	-
Hercules'-club	*Zanthoxylum clava-herculis*	FAC	-
Tough Buckthorn	*Bumelia tenax*	-	-

Table H-4. Vegetation Observed at SWMU 5 (NIRP Site 6), NAVSTA Mayport (January 1992) (Page 2 of 2)

Common Name	Scientific Name	USACE	DER
Date Palm	*Phoenix* hybrid	-	-
Elderberry	*Sambucus canadensis*	FACW	T
Cranesbill	*Geranium carolinianum*	-	-
Black Medic	*Medicago lupulina*	FACU	-
Common Dandelion	*Taraxacum officinale*	FACU	-
Common Chickweed	*Stellaria media*	FACU	-
Wax Myrtle	*Myrica cerifera*	FAC	U*
Live Oak	*Quercus virginiana*	FACU	-
Virginia Creeper	*Parthenocissus quinquefolia*	FAC	-
Scuppernong	*Vitis rotundifolia*	FAC	-
Wild-bamboo	*Smilax auriculata*	FACU	-
Southern Fleabane	*Erigeron quercifolius*	FAC	-
Nuttall's Thistle	*Cirsium nuttallii*	FAC	-
Sharp-pod Morning-glory	*Ipomoea cordatotriloba*	FACU	-

Source: KBN Engineering and Applied Sciences, Inc., 1992.

Table H-5. Vegetation Observed at SWMU 13 (NIRP Site 13), NAVSTA Mayport (January 1992)

Common Name	Scientific Name	USACE	DER
St. Augustine Grass	*Stenotaphrum secundatum*	FAC	-
Goose Grass	*Eleusine indica*	FACU	-
Bermuda Grass	*Cynodon dactylon*	FACU	-
Camphor Weed	*Heterotheca subaxillaris*	FACU	-
Black Medic	*Medicago lupulina*	FACU	-
Match-head	*Phyla nodiflora*	FACW	-
Coastal Plain Pennywort	*Hydrocotyle bonariensis*	FACW	-

Source: KBN Engineering and Applied Sciences, Inc., 1992.

APPENDIX D

LABORATORY DATA SUMMARY TABLES

VOLATILE ORGANIC COMPOUNDS: SEDIMENTS & SURFACE WATER

	A:\MPTDAT1.WK1										
	LOCATION:	MPT-B-SD-1		MPTBSDDUP1		MPTBSDDUP1DL		MPT-B-SW-1		MPTBSWDUP1	
	SAMPLE MATRIX:	SOIL		SOIL		SOIL		WATER		WATER	
	DATE SAMPLED:	01/21/92		01/21/92				01/21/92		01/21/92	
	LAB NUMBER:	20723		20723				20723		20723	
	UNITS:	µg/Kg		µg/Kg		µg/Kg		µg/l		µg/l	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
74-87-3	Chloromethane	14	U	32	U			10	U	10	U
74-83-9	Bromomethane	14	U	32	U			10	U	10	U
75-01-4	Vinyl chloride	14	U	32	U			10	U	10	U
75-00-3	Chloroethane	14	U	32	U			10	U	10	U
75-09-2	Methylene chloride	18	B	25	B			6	B	2	BJ
67-64-1	Acetone	8	BJ	95	B			5	BJ	5	BJ
75-15-0	Carbon disulfide	7	U	19				5	U	5	U
75-69-4	Trichlorofluoromethane	7	U	16	U			5	U	5	U
75-35-4	1,1-Dichloroethylene	7	U	16	U			5	U	5	U
75-34-3	1,1-Dichloroethane	7	U	16	U			5	U	5	U
540-59-0	1,2-Dichloroethene (total)	7	U	16	U			5	U	5	U
67-66-3	Chloroform	7	U	16	U			5	U	5	U
107-06-2	1,2-Dichloroethane	7	U	16	U			5	U	5	U
78-93-3	2-Butanone	14	B	39	B			8	BJ	10	B
71-55-6	1,1,1-Trichloroethane	7	U	16	U			5	U	5	U
56-23-5	Carbon tetrachloride	7	U	16	U			5	U	5	U
108-05-4	Vinyl acetate	14	U	32	U			10	U	10	U
75-27-4	Bromodichloromethane	7	U	16	U			5	U	5	U
78-87-5	1,2-Dichloropropane	7	U	16	U			5	U	5	U
10061-01-5	cis-1,3-Dichloropropene	7	U	16	U			5	U	5	U
79-01-6	Trichloroethene	7	U	16	U			5	U	5	U
124-48-1	Dibromochloromethane	7	U	16	U			5	U	5	U
79-00-5	1,1,2-Trichloroethane	7	U	16	U			5	U	5	U
71-43-2	Benzene	7	U	16	U			5	U	5	U

*Blank entries indicate that sample was not analyzed for that analyte group

VOLATILE ORGANIC COMPOUNDS: SEDIMENTS & SURFACE WATER

	A:\MPTDAT1.WK1										
	LOCATION:	MPT-B-SD-1		MPTBSDDUP1		MPTBSDDUP1DL		MPT-B-SW-1		MPTBSWDUP1	
	SAMPLE MATRIX:	SOIL		SOIL		SOIL		WATER		WATER	
	DATE SAMPLED:	01/21/92		01/21/92				01/21/92		01/21/92	
	LAB NUMBER:	20723		20723				20723		20723	
	UNITS:	µg/Kg		µg/Kg		µg/Kg		µg/l		µg/l	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
10061-02-6	trans-1,3-Dichloropropene	7	U	16	U			5	U	5	U
110-75-8	2-Chloroethylvinylether	14	U	32	U			10	U	10	U
75-25-2	Bromoform	7	U	16	U			5	U	5	U
591-78-6	2-Hexanone	14	U	32	U			10	U	10	U
108-10-1	4-Methyl-2-Pentanone	14	U	32	U			10	U	10	U
127-18-4	Tetrachloroethene	7	U	16	U			5	U	5	U
79-34-5	1,1,2,2-Tetrachloroethane	7	U	16	U			5	U	5	U
108-88-3	Toluene	7	U	16	U			5	U	5	U
108-90-7	Chlorobenzene	7	U	16	U			5	U	5	U
100-41-4	Ethylbenzene	7	U	16	U			5	U	5	U
100-42-5	Styrene	7	U	16	U			5	U	5	U
1330-20-7	Xylene (total)	7	U	16	U			5	U	5	U
541-73-1	1,3-Dichlorobenzene	7	U	16	U			5	U	5	U
106-46-7	1,4-Dichlorobenzene	7	U	16	U			5	U	5	U
95-50-1	1,2-Dichlorobenzene	7	U	16	U			5	U	5	U
107-02-8	Acrolein	140	U	320	U			100	U	100	U
74-88-4	Iodomethane	14	U	32	U			10	U	10	U
107-13-1	Acrylonitrile	140	U	320	U			100	U	100	U
74-95-3	Dibromomethane	7	U	16	U			5	U	5	U
97-63-2	Ethyl Methacrylate	7	U	16	U			5	U	5	U
96-18-4	1,2,3-Trichloropropane	7	U	16	U			5	U	5	U
110-57-6	trans-1,4-Dichloro-2-butene	7	U	16	U			5	U	5	U
75-05-8	Acetonitrile	140	U	320	U			100	U	100	U
107-05-1	3-Chloropropene	7	U	16	U			5	U	5	U

*Blank entries indicate that sample was not analyzed for that analyte group

VOLATILE ORGANIC COMPOUNDS: SEDIMENTS & SURFACE WATER

	A:\MPTDAT1.WK1										
	LOCATION:	MPT-B-SD-1		MPTBSDDUP1		MPTBSDDUP1DL		MPT-B-SW-1		MPTBSWDUP1	
	SAMPLE MATRIX:	SOIL		SOIL		SOIL		WATER		WATER	
	DATE SAMPLED:	01/21/92		01/21/92				01/21/92		01/21/92	
	LAB NUMBER:	20723		20723				20723		20723	
	UNITS:	µg/Kg		µg/Kg		µg/Kg		µg/l		µg/l	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
107-12-0	Propionitrile	140	U	320	U			100	U	100	U
126-98-7	Methacrylonitrile	7	U	16	U			5	U	5	U
123-91-1	1,4-Dioxane	270	U	650	U			200	U	200	U
80-62-6	Methyl methacrylate	14	U	32	U			10	U	10	U
106-93-4	1,2-Dibromoethane	7	U	16	U			5	U	5	U
630-20-6	1,1,1,2-Tetrachloroethane	7	U	16	U			5	U	5	U
96-12-8	1,2-Dibromo-3-chloropropane	14	U	32	U			10	U	10	U
76-01-7	Pentachloroethane	14	U	32	U			10	U	10	U
78-83-1	Isobutyl alcohol	270	U	650	U			200	U	200	U
126-99-8	Chloroprene	270	U	650	U			200	U	200	U

*Blank entries indicate that sample was not analyzed for that analyte group

VOLATILE ORGANIC COMPOUNDS: SEDIMENTS & SURFACE WATER

	A:\MPTDAT1.WK1										
	LOCATION:	MPT-B-SD-2		MPT-B-SW-2		MPT-B-SD-3		MPT-B-SW-3		MPT-2-SD-4	
	SAMPLE MATRIX:	SOIL		WATER		SOIL		WATER		SOIL	
	DATE SAMPLED:	01/21/92		01/21/92		01/21/92		01/21/92		01/22/92	
	LAB NUMBER:	20723		20723		20723		20723		20722	
	UNITS:	µg/Kg		µg/l		µg/Kg		µg/l		µg/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
74-87-3	Chloromethane	13	U	10	U	29	U	10	U	19	U
74-83-9	Bromomethane	13	U	10	U	29	U	10	U	19	U
75-01-4	Vinyl chloride	13	U	10	U	29	U	10	U	19	U
75-00-3	Chloroethane	13	U	10	U	29	U	10	U	19	U
75-09-2	Methylene chloride	21	B	4	BJ	29	B	8	B	12	B
67-64-1	Acetone	15	B	5	BJ	190	B	6	BJ	47	B
75-15-0	Carbon disulfide	7	U	5	U	83		5	U	24	
75-69-4	Trichlorofluoromethane	7	U	5	U	14	U	5	U	9	U
75-35-4	1,1-Dichloroethylene	7	U	5	U	14	U	5	U	9	U
75-34-3	1,1-Dichloroethane	7	U	5	U	14	U	5	U	9	U
540-59-0	1,2-Dichloroethene (total)	7	U	5	U	14	U	5	U	9	U
67-66-3	Chloroform	7	U	5	U	14	U	5	U	9	U
107-06-2	1,2-Dichloroethane	7	U	5	U	14	U	5	U	9	U
78-93-3	2-Butanone	14	B	9	BJ	42	B	9	BJ	22	B
71-55-6	1,1,1-Trichloroethane	7	U	5	U	14	U	5	U	9	U
56-23-5	Carbon tetrachloride	7	U	5	U	14	U	5	U	9	U
108-05-4	Vinyl acetate	13	U	10	U	29	U	10	U	19	U
75-27-4	Bromodichloromethane	7	U	5	U	14	U	5	U	9	U
78-87-5	1,2-Dichloropropane	7	U	5	U	14	U	5	U	9	U
10061-01-5	cis-1,3-Dichloropropene	7	U	5	U	14	U	5	U	9	U
79-01-6	Trichloroethene	7	U	5	U	14	U	5	U	9	U
124-48-1	Dibromochloromethane	7	U	5	U	14	U	5	U	9	U
79-00-5	1,1,2-Trichloroethane	7	U	5	U	14	U	5	U	9	U
71-43-2	Benzene	7	U	5	U	14	U	5	U	9	U

*Blank entries indicate that sample was not analyzed for that analyte group

VOLATILE ORGANIC COMPOUNDS: SEDIMENTS & SURFACE WATER

	A:\MPTDAT1.WK1										
	LOCATION:	MPT-B-SD-2		MPT-B-SW-2		MPT-B-SD-3		MPT-B-SW-3		MPT-2-SD-4	
	SAMPLE MATRIX:	SOIL		WATER		SOIL		WATER		SOIL	
	DATE SAMPLED:	01/21/92		01/21/92		01/21/92		01/21/92		01/22/92	
	LAB NUMBER:	20723		20723		20723		20723		20722	
	UNITS:	µg/Kg		µg/l		µg/Kg		µg/l		µg/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
10061-02-6	trans-1,3-Dichloropropene	7	U	5	U	14	U	5	U	9	U
110-75-8	2-Chloroethylvinylether	13	U	10	U	29	U	10	U	19	U
75-25-2	Bromoform	7	U	5	U	14	U	5	U	9	U
591-78-6	2-Hexanone	13	U	10	U	29	U	10	U	19	U
108-10-1	4-Methyl-2-Pentanone	13	U	10	U	29	U	10	U	19	U
127-18-4	Tetrachloroethene	7	U	5	U	14	U	5	U	9	U
79-34-5	1,1,2,2-Tetrachloroethane	7	U	5	U	14	U	5	U	9	U
108-88-3	Toluene	3	J	5	U	14	U	5	U	9	U
108-90-7	Chlorobenzene	7	U	5	U	14	U	5	U	9	U
100-41-4	Ethylbenzene	7	U	5	U	14	U	5	U	9	U
100-42-5	Styrene	7	U	5	U	14	U	5	U	9	U
1330-20-7	Xylene (total)	7	U	5	U	14	U	5	U	9	U
541-73-1	1,3-Dichlorobenzene	7	U	5	U	14	U	5	U	9	U
106-46-7	1,4-Dichlorobenzene	7	U	5	U	14	U	5	U	9	U
95-50-1	1,2-Dichlorobenzene	7	U	5	U	14	U	5	U	9	U
107-02-8	Acrolein	130	U	100	U	290	U	100	U	190	U
74-88-4	Iodomethane	13	U	10	U	29	U	10	U	19	U
107-13-1	Acrylonitrile	130	U	100	U	290	U	100	U	190	U
74-95-3	Dibromomethane	7	U	5	U	14	U	5	U	9	U
97-63-2	Ethyl Methacrylate	7	U	5	U	14	U	5	U	9	U
96-18-4	1,2,3-Trichloropropane	7	U	5	U	14	U	5	U	9	U
110-57-6	trans-1,4-Dichloro-2-butene	7	U	5	U	14	U	5	U	9	U
75-05-8	Acetonitrile	130	U	100	U	290	U	100	U	190	U
107-05-1	3-Chloropropene	7	U	5	U	14	U	5	U	9	U

*Blank entries indicate that sample was not analyzed for that analyte group

VOLATILE ORGANIC COMPOUNDS: SEDIMENTS & SURFACE WATER

	A:\MPTDAT1.WK1										
	LOCATION:	MPT-B-SD-2		MPT-B-SW-2		MPT-B-SD-3		MPT-B-SW-3		MPT-2-SD-4	
	SAMPLE MATRIX:	SOIL		WATER		SOIL		WATER		SOIL	
	DATE SAMPLED:	01/21/92		01/21/92		01/21/92		01/21/92		01/22/92	
	LAB NUMBER:	20723		20723		20723		20723		20722	
	UNITS:	µg/Kg		µg/l		µg/Kg		µg/l		µg/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
107-12-0	Propionitrile	130	U	100	U	290	U	100	U	190	U
126-98-7	Methacrylonitrile	7	U	5	U	14	U	5	U	9	U
123-91-1	1,4-Dioxane	260	U	200	U	570	U	200	U	370	U
80-62-6	Methyl methacrylate	13	U	10	U	29	U	10	U	19	U
106-93-4	1,2-Dibromoethane	7	U	5	U	14	U	5	U	9	U
630-20-6	1,1,1,2-Tetrachloroethane	7	U	5	U	14	U	5	U	9	U
96-12-8	1,2-Dibromo-3-chloropropane	13	U	10	U	29	U	10	U	19	U
76-01-7	Pentachloroethane	13	U	10	U	29	U	10	U	19	U
78-83-1	Isobutyl alcohol	260	U	200	U	570	U	200	U	370	U
126-99-8	Chloroprene	260	U	200	U	570	U	200	U	370	U

*Blank entries indicate that sample was not analyzed for that analyte group

VOLATILE ORGANIC COMPOUNDS: SEDIMENTS & SURFACE WATER

	A:\MPTDAT1.WK1				
	LOCATION:	MPT-2-SD-4DL		MPT-2-SW-4	
	SAMPLE MATRIX:	SOIL		WATER	
	DATE SAMPLED:	01/22/92		01/22/92	
	LAB NUMBER:	20722		20722	
	UNITS:	µg/Kg		µg/l	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.
74-87-3	Chloromethane			10	U
74-83-9	Bromomethane			10	U
75-01-4	Vinyl chloride			10	U
75-00-3	Chloroethane			10	U
75-09-2	Methylene chloride			2	J
67-64-1	Acetone			6	BJ
75-15-0	Carbon disulfide			5	U
75-69-4	Trichlorofluoromethane			5	U
75-35-4	1,1-Dichloroethylene			5	U
75-34-3	1,1-Dichloroethane			5	U
540-59-0	1,2-Dichloroethene (total)			5	U
67-66-3	Chloroform			5	U
107-06-2	1,2-Dichloroethane			5	U
78-93-3	2-Butanone			8	BJ
71-55-6	1,1,1-Trichloroethane			5	U
56-23-5	Carbon tetrachloride			5	U
108-05-4	Vinyl acetate			10	U
75-27-4	Bromodichloromethane			5	U
78-87-5	1,2-Dichloropropane			5	U
10061-01-5	cis-1,3-Dichloropropene			5	U
79-01-6	Trichloroethene			5	U
124-48-1	Dibromochloromethane			5	U
79-00-5	1,1,2-Trichloroethane			5	U
71-43-2	Benzene			5	U

*Blank entries indicate that sample was not analyzed for that analyte group

VOLATILE ORGANIC COMPOUNDS: SEDIMENTS & SURFACE WATER

	A:\MPTDAT1.WK1				
	LOCATION:	MPT-2-SD-4DL		MPT-2-SW-4	
	SAMPLE MATRIX:	SOIL		WATER	
	DATE SAMPLED:	01/22/92		01/22/92	
	LAB NUMBER:	20722		20722	
	UNITS:	µg/Kg		µg/l	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.
10061-02-6	trans-1,3-Dichloropropene			5	U
110-75-8	2-Chloroethylvinylether			10	U
75-25-2	Bromoform			5	U
591-78-6	2-Hexanone			10	U
108-10-1	4-Methyl-2-Pentanone			10	U
127-18-4	Tetrachloroethene			5	U
79-34-5	1,1,2,2-Tetrachloroethane			5	U
108-88-3	Toluene			5	U
108-90-7	Chlorobenzene			5	U
100-41-4	Ethylbenzene			5	U
100-42-5	Styrene			5	U
1330-20-7	Xylene (total)			5	U
541-73-1	1,3-Dichlorobenzene			5	U
106-46-7	1,4-Dichlorobenzene			5	U
95-50-1	1,2-Dichlorobenzene			5	U
107-02-8	Acrolein			100	U
74-88-4	Iodomethane			10	U
107-13-1	Acrylonitrile			100	U
74-95-3	Dibromomethane			5	U
97-63-2	Ethyl Methacrylate			5	U
96-18-4	1,2,3-Trichloropropane			5	U
110-57-6	trans-1,4-Dichloro-2-butene			5	U
75-05-8	Acetonitrile			100	U
107-05-1	3-Chloropropene			5	U

*Blank entries indicate that sample was not analyzed for that analyte group

VOLATILE ORGANIC COMPOUNDS: SEDIMENTS & SURFACE WATER

	A:\MPTDAT1.WK1				
	LOCATION:	MPT-2-SD-4DL		MPT-2-SW-4	
	SAMPLE MATRIX:	SOIL		WATER	
	DATE SAMPLED:	01/22/92		01/22/92	
	LAB NUMBER:	20722		20722	
	UNITS:	µg/Kg		µg/l	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.
107-12-0	Propionitrile			100	U
126-98-7	Methacrylonitrile			5	U
123-91-1	1,4-Dioxane			200	U
80-62-6	Methyl methacrylate			10	U
106-93-4	1,2-Dibromoethane			5	U
630-20-6	1,1,1,2-Tetrachloroethane			5	U
96-12-8	1,2-Dibromo-3-chloropropane			10	U
76-01-7	Pentachloroethane			10	U
78-83-1	Isobutyl alcohol			200	U
126-99-8	Chloroprene			200	U

*Blank entries indicate that sample was not analyzed for that analyte group

VOLATILE ORGANIC COMPOUNDS: SEDIMENTS AND SURFACE WATER

	A:\MPTDAT2.WK1										
	LOCATION:	MPT-2-SD-5		MPT-2-SD-5DL		MPT-2-SW-5		MPT-2-SD-6		MPT-2-SD-6DL	
	SAMPLE MATRIX:	SOIL		SOIL		WATER		SOIL		SOIL	
	DATE SAMPLED:	01/22/92		01/22/92		01/22/92		01/22/92		01/22/92	
	LAB NUMBER:	20722		20722		20722		20722		20722	
	UNITS:	µg/Kg		µg/Kg		µg/l		µg/Kg		µg/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
74-87-3	Chloromethane	23	U			10	U	30	U		
74-83-9	Bromomethane	23	U			10	U	30	U		
75-01-4	Vinyl chloride	23	U			10	U	30	U		
75-00-3	Chloroethane	23	U			10	U	30	U		
75-09-2	Methylene chloride	17	B			5		14	BJ		
67-64-1	Acetone	110	B			6	BJ	18	BJ		
75-15-0	Carbon disulfide	54				5	U	15	U		
75-69-4	Trichlorofluoromethane	12	U			5	U	15	U		
75-35-4	1,1-Dichloroethylene	12	U			5	U	15	U		
75-34-3	1,1-Dichloroethane	12	U			5	U	15	U		
540-59-0	1,2-Dichloroethene (total)	12	U			5	U	15	U		
67-66-3	Chloroform	12	U			5	U	15	U		
107-06-2	1,2-Dichloroethane	12	U			5	U	15	U		
78-93-3	2-Butanone	28	B			7	BJ	30	U		
71-55-6	1,1,1-Trichloroethane	12	U			5	U	15	U		
56-23-5	Carbon tetrachloride	12	U			5	U	15	U		
108-05-4	Vinyl acetate	23	U			10	U	30	U		
75-27-4	Bromodichloromethane	12	U			5	U	15	U		
78-87-5	1,2-Dichloropropane	12	U			5	U	15	U		
10061-01-5	cis-1,3-Dichloropropene	12	U			5	U	15	U		
79-01-6	Trichloroethene	12	U			5	U	15	U		
124-48-1	Dibromochloromethane	12	U			5	U	15	U		
79-00-5	1,1,2-Trichloroethane	12	U			5	U	15	U		
71-43-2	Benzene	12	U			5	U	15	U		

*Blank entries indicate that sample was not analyzed for that analyte group

VOLATILE ORGANIC COMPOUNDS: SEDIMENTS AND SURFACE WATER

	A:\MPTDAT2.WK1										
	LOCATION:	MPT-2-SD-5		MPT-2-SD-5DL		MPT-2-SW-5		MPT-2-SD-6		MPT-2-SD-6DL	
	SAMPLE MATRIX:	SOIL		SOIL		WATER		SOIL		SOIL	
	DATE SAMPLED:	01/22/92		01/22/92		01/22/92		01/22/92		01/22/92	
	LAB NUMBER:	20722		20722		20722		20722		20722	
	UNITS:	µg/Kg		µg/Kg		µg/l		µg/Kg		µg/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
10061-02-6	trans-1,3-Dichloropropene	12	U			5	U	15	U		
110-75-8	2-Chloroethylvinylether	23	U			10	U	30	U		
75-25-2	Bromoform	12	U			5	U	15	U		
591-78-6	2-Hexanone	23	U			10	U	30	U		
108-10-1	4-Methyl-2-Pentanone	23	U			10	U	30	U		
127-18-4	Tetrachloroethene	12	U			5	U	15	U		
79-34-5	1,1,2,2-Tetrachloroethane	12	U			5	U	15	U		
108-88-3	Toluene	12	U			5	U	15	U		
108-90-7	Chlorobenzene	12	U			5	U	15	U		
100-41-4	Ethylbenzene	12	U			5	U	15	U		
100-42-5	Styrene	12	U			5	U	15	U		
1330-20-7	Xylene (total)	12	U			5	U	15	U		
541-73-1	1,3-Dichlorobenzene	12	U			5	U	15	U		
106-46-7	1,4-Dichlorobenzene	12	U			5	U	15	U		
95-50-1	1,2-Dichlorobenzene	12	U			5	U	15	U		
107-02-8	Acrolein	230	U			100	U	300	U		
74-88-4	Iodomethane	23	U			10	U	30	U		
107-13-1	Acrylonitrile	230	U			100	U	300	U		
74-95-3	Dibromomethane	12	U			5	U	15	U		
97-63-2	Ethyl Methacrylate	12	U			5	U	15	U		
96-18-4	1,2,3-Trichloropropane	12	U			5	U	15	U		
110-57-6	trans-1,4-Dichloro-2-butene	12	U			5	U	15	U		
75-05-8	Acetonitrile	230	U			100	U	300	U		
107-05-1	3-Chloropropene	12	U			5	U	15	U		

*Blank entries indicate that sample was not analyzed for that analyte group

VOLATILE ORGANIC COMPOUNDS: SEDIMENTS AND SURFACE WATER

	A:\MPTDAT2.WK1										
	LOCATION:	MPT-2-SD-5		MPT-2-SD-5DL		MPT-2-SW-5		MPT-2-SD-6		MPT-2-SD-6DL	
	SAMPLE MATRIX:	SOIL		SOIL		WATER		SOIL		SOIL	
	DATE SAMPLED:	01/22/92		01/22/92		01/22/92		01/22/92		01/22/92	
	LAB NUMBER:	20722		20722		20722		20722		20722	
	UNITS:	µg/Kg		µg/Kg		µg/l		µg/Kg		µg/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
107-12-0	Propionitrile	230	U			100	U	300	U		
126-98-7	Methacrylonitrile	12	U			5	U	15	U		
123-91-1	1,4-Dioxane	470	U			200	U	610	U		
80-62-6	Methyl methacrylate	23	U			10	U	30	U		
106-93-4	1,2-Dibromoethane	12	U			5	U	15	U		
630-20-6	1,1,1,2-Tetrachloroethane	12	U			5	U	15	U		
96-12-8	1,2-Dibromo-3-chloropropane	23	U			10	U	30	U		
76-01-7	Pentachloroethane	23	U			10	U	30	U		
78-83-1	Isobutyl alcohol	470	U			200	U	610	U		
126-99-8	Chloroprene	470	U			200	U	610	U		

*Blank entries indicate that sample was not analyzed for that analyte group

VOLATILE ORGANIC COMPOUNDS: SEDIMENTS AND SURFACE WATER

	A:\MPTDAT2.WK1										
	LOCATION:	MPT-2-SW-6		MPT-2-SD-7		MPT-2-SD-7A		MPT-2-SD-7DL		MPT-2-SD-7ADL	
	SAMPLE MATRIX:	WATER		SOIL		SOIL		SOIL		SOIL	
	DATE SAMPLED:	01/22/92		01/23/92		01/23/92		01/23/92		01/23/92	
	LAB NUMBER:	20722		20740		20740		20740		20740	
	UNITS:	µg/l		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
74-87-3	Chloromethane	10	U	14	U	15	U				
74-83-9	Bromomethane	10	U	14	U	15	U				
75-01-4	Vinyl chloride	10	U	14	U	15	U				
75-00-3	Chloroethane	10	U	14	U	15	U				
75-09-2	Methylene chloride	2	J	9	B	22	B				
67-64-1	Acetone	5	BJ	12	BJ	27	B				
75-15-0	Carbon disulfide	5	U	7	U	7	U				
75-69-4	Trichlorofluoromethane	5	U	7	U	7	U				
75-35-4	1,1-Dichloroethylene	5	U	7	U	7	U				
75-34-3	1,1-Dichloroethane	5	U	7	U	7	U				
540-59-0	1,2-Dichloroethene (total)	5	U	7	U	7	U				
67-66-3	Chloroform	5	U	7	U	7	U				
107-06-2	1,2-Dichloroethane	5	U	7	U	7	U				
78-93-3	2-Butanone	8	BJ	12	BJ	15	B				
71-55-6	1,1,1-Trichloroethane	5	U	7	U	7	U				
56-23-5	Carbon tetrachloride	5	U	7	U	7	U				
108-05-4	Vinyl acetate	10	U	14	U	15	U				
75-27-4	Bromodichloromethane	5	U	7	U	7	U				
78-87-5	1,2-Dichloropropane	5	U	7	U	7	U				
10061-01-5	cis-1,3-Dichloropropene	5	U	7	U	7	U				
79-01-6	Trichloroethene	5	U	7	U	7	U				
124-48-1	Dibromochloromethane	5	U	7	U	7	U				
79-00-5	1,1,2-Trichloroethane	5	U	7	U	7	U				
71-43-2	Benzene	5	U	7	U	7	U				

*Blank entries indicate that sample was not analyzed for that analyte group

VOLATILE ORGANIC COMPOUNDS: SEDIMENTS AND SURFACE WATER

	A:\MPTDAT2.WK1										
	LOCATION:	MPT-2-SW-6		MPT-2-SD-7		MPT-2-SD-7A		MPT-2-SD-7DL		MPT-2-SD-7ADL	
	SAMPLE MATRIX:	WATER		SOIL		SOIL		SOIL		SOIL	
	DATE SAMPLED:	01/22/92		01/23/92		01/23/92		01/23/92		01/23/92	
	LAB NUMBER:	20722		20740		20740		20740		20740	
	UNITS:	µg/l		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
10061-02-6	trans-1,3-Dichloropropene	5	U	7	U	7	U				
110-75-8	2-Chloroethylvinylether	10	U	14	U	15	U				
75-25-2	Bromoform	5	U	7	U	7	U				
591-78-6	2-Hexanone	10	U	14	U	15	U				
108-10-1	4-Methyl-2-Pentanone	10	U	14	U	15	U				
127-18-4	Tetrachloroethene	5	U	7	U	7	U				
79-34-5	1,1,2,2-Tetrachloroethane	5	U	7	U	7	U				
108-88-3	Toluene	5	U	7	U	7	U				
108-90-7	Chlorobenzene	5	U	7	U	7	U				
100-41-4	Ethylbenzene	5	U	7	U	7	U				
100-42-5	Styrene	5	U	7	U	7	U				
1330-20-7	Xylene (total)	5	U	7	U	7	U				
541-73-1	1,3-Dichlorobenzene	5	U	7	U	7	U				
106-46-7	1,4-Dichlorobenzene	5	U	7	U	7	U				
95-50-1	1,2-Dichlorobenzene	5	U	7	U	7	U				
107-02-8	Acrolein	100	U	140	U	150	U				
74-88-4	Iodomethane	10	U	14	U	15	U				
107-13-1	Acrylonitrile	100	U	140	U	150	U				
74-95-3	Dibromomethane	5	U	7	U	7	U				
97-63-2	Ethyl Methacrylate	5	U	7	U	7	U				
96-18-4	1,2,3-Trichloropropane	5	U	7	U	7	U				
110-57-6	trans-1,4-Dichloro-2-butene	5	U	7	U	7	U				
75-05-8	Acetonitrile	100	U	140	U	150	U				
107-05-1	3-Chloropropene	5	U	7	U	7	U				

*Blank entries indicate that sample was not analyzed for that analyte group

VOLATILE ORGANIC COMPOUNDS: SEDIMENTS AND SURFACE WATER

	A:\MPTDAT2.WK1										
	LOCATION:	MPT-2-SW-6		MPT-2-SD-7		MPT-2-SD-7A		MPT-2-SD-7DL		MPT-2-SD-7ADL	
	SAMPLE MATRIX:	WATER		SOIL		SOIL		SOIL		SOIL	
	DATE SAMPLED:	01/22/92		01/23/92		01/23/92		01/23/92		01/23/92	
	LAB NUMBER:	20722		20740		20740		20740		20740	
	UNITS:	µg/l		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
107-12-0	Propionitrile	100	U	140	U	150	U				
126-98-7	Methacrylonitrile	5	U	7	U	7	U				
123-91-1	1,4-Dioxane	200	U	290	U	300	U				
80-62-6	Methyl methacrylate	10	U	14	U	15	U				
106-93-4	1,2-Dibromoethane	5	U	7	U	7	U				
630-20-6	1,1,1,2-Tetrachloroethane	5	U	7	U	7	U				
96-12-8	1,2-Dibromo-3-chloropropane	10	U	14	U	15	U				
76-01-7	Pentachloroethane	10	U	14	U	15	U				
78-83-1	Isobutyl alcohol	200	U	290	U	300	U				
126-99-8	Chloroprene	200	U	290	U	300	U				

*Blank entries indicate that sample was not analyzed for that analyte group

VOLATILE ORGANIC COMPOUNDS: SEDIMENTS AND SURFACE WATER

	A:\MPTDAT2.WK1				
	LOCATION:	MPT-2-SW-7		MPT-2-SW-7A	
	SAMPLE MATRIX:	WATER		WATER	
	DATE SAMPLED:	01/23/92		01/23/92	
	LAB NUMBER:	20740		20740	
	UNITS:	µg/l		µg/l	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.
74-87-3	Chloromethane	10	U	10	U
74-83-9	Bromomethane	10	U	10	U
75-01-4	Vinyl chloride	10	U	10	U
75-00-3	Chloroethane	10	U	10	U
75-09-2	Methylene chloride	6	B	5	B
67-64-1	Acetone	7	BJ	7	BJ
75-15-0	Carbon disulfide	5	U	5	U
75-69-4	Trichlorofluoromethane	5	U	5	U
75-35-4	1,1-Dichloroethylene	5	U	5	U
75-34-3	1,1-Dichloroethane	5	U	5	U
540-59-0	1,2-Dichloroethene (total)	5	U	5	U
67-66-3	Chloroform	5	U	5	U
107-06-2	1,2-Dichloroethane	5	U	5	U
78-93-3	2-Butanone	9	BJ	10	B
71-55-6	1,1,1-Trichloroethane	5	U	5	U
56-23-5	Carbon tetrachloride	5	U	5	U
108-05-4	Vinyl acetate	10	U	10	U
75-27-4	Bromodichloromethane	5	U	5	U
78-87-5	1,2-Dichloropropane	5	U	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U	5	U
79-01-6	Trichloroethene	5	U	5	U
124-48-1	Dibromochloromethane	5	U	5	U
79-00-5	1,1,2-Trichloroethane	5	U	5	U
71-43-2	Benzene	5	U	5	U

*Blank entries indicate that sample was not analyzed for that analyte group

VOLATILE ORGANIC COMPOUNDS: SEDIMENTS AND SURFACE WATER

	A:\MPTDAT2.WK1				
	LOCATION:	MPT-2-SW-7		MPT-2-SW-7A	
	SAMPLE MATRIX:	WATER		WATER	
	DATE SAMPLED:	01/23/92		01/23/92	
	LAB NUMBER:	20740		20740	
	UNITS:	µg/l		µg/l	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.
10061-02-6	trans-1,3-Dichloropropene	5	U	5	U
110-75-8	2-Chloroethylvinylether	10	U	10	U
75-25-2	Bromoform	5	U	5	U
591-78-6	2-Hexanone	10	U	10	U
108-10-1	4-Methyl-2-Pentanone	10	U	10	U
127-18-4	Tetrachloroethene	5	U	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U	5	U
108-88-3	Toluene	5	U	5	U
108-90-7	Chlorobenzene	5	U	5	U
100-41-4	Ethylbenzene	5	U	5	U
100-42-5	Styrene	5	U	5	U
1330-20-7	Xylene (total)	5	U	5	U
541-73-1	1,3-Dichlorobenzene	5	U	5	U
106-46-7	1,4-Dichlorobenzene	5	U	5	U
95-50-1	1,2-Dichlorobenzene	5	U	5	U
107-02-8	Acrolein	100	U	100	U
74-88-4	Iodomethane	10	U	10	U
107-13-1	Acrylonitrile	100	U	100	U
74-95-3	Dibromomethane	5	U	5	U
97-63-2	Ethyl Methacrylate	5	U	5	U
96-18-4	1,2,3-Trichloropropane	5	U	5	U
110-57-6	trans-1,4-Dichloro-2-butene	5	U	5	U
75-05-8	Acetonitrile	100	U	100	U
107-05-1	3-Chloropropene	5	U	5	U

*Blank entries indicate that sample was not analyzed for that analyte group

VOLATILE ORGANIC COMPOUNDS: SEDIMENTS AND SURFACE WATER

	A:\MPTDAT2.WK1				
	LOCATION:	MPT-2-SW-7		MPT-2-SW-7A	
	SAMPLE MATRIX:	WATER		WATER	
	DATE SAMPLED:	01/23/92		01/23/92	
	LAB NUMBER:	20740		20740	
	UNITS:	µg/l		µg/l	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.
107-12-0	Propionitrile	100	U	100	U
126-98-7	Methacrylonitrile	5	U	5	U
123-91-1	1,4-Dioxane	200	U	200	U
80-62-6	Methyl methacrylate	10	U	10	U
106-93-4	1,2-Dibromoethane	5	U	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U	5	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U	10	U
76-01-7	Pentachloroethane	10	U	10	U
78-83-1	Isobutyl alcohol	200	U	200	U
126-99-8	Chloroprene	200	U	200	U

*Blank entries indicate that sample was not analyzed for that analyte group

VOLATILE ORGANIC COMPOUNDS: SEDIMENTS AND SURFACE WATER

	A:\MPTDAT3.WK1										
	LOCATION:	MPT-2-SD-8		MPT-2-SD-9		MPT-2-SD-9DL		MPT-2-SW-9		MPT-13-SD-1	
	SAMPLE MATRIX:	SOIL		SOIL		SOIL		WATER		SOIL	
	DATE SAMPLED:	02/12/92		01/23/92		01/23/92		01/23/92		01/23/92	
	LAB NUMBER:	20902		20740		20740		20740		20740	
	UNITS:	µg/Kg		µg/Kg		µg/Kg		µg/l		µg/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
74-87-3	Chloromethane	19	U	12	U			10	U	14	U
74-83-9	Bromomethane	19	U	12	U			10	U	14	U
75-01-4	Vinyl chloride	19	U	12	U			10	U	14	U
75-00-3	Chloroethane	19	U	12	U			10	U	14	U
75-09-2	Methylene chloride	10	B	7	B			6		19	B
67-64-1	Acetone	15	BJ	8	BJ			7	BJ	12	BJ
75-15-0	Carbon disulfide	3	J	6	U			5	U	7	U
75-69-4	Trichlorofluoromethane	9	U	6	U			5	U	7	U
75-35-4	1,1-Dichloroethylene	9	U	6	U			5	U	7	U
75-34-3	1,1-Dichloroethane	9	U	6	U			5	U	7	U
540-59-0	1,2-Dichloroethene (total)	9	U	6	U			5	U	7	U
67-66-3	Chloroform	9	U	6	U			5	U	7	U
107-06-2	1,2-Dichloroethane	9	U	6	U			5	U	7	U
78-93-3	2-Butanone	19	U	10	BJ			10	B	13	BJ
71-55-6	1,1,1-Trichloroethane	9	U	6	U			5	U	7	U
56-23-5	Carbon tetrachloride	9	U	6	U			5	U	7	U
108-05-4	Vinyl acetate	19	U	12	U			10	U	14	U
75-27-4	Bromodichloromethane	9	U	6	U			5	U	7	U
78-87-5	1,2-Dichloropropane	9	U	6	U			5	U	7	U
10061-01-5	cis-1,3-Dichloropropene	9	U	6	U			5	U	7	U
79-01-6	Trichloroethene	9	U	6	U			5	U	7	U
124-48-1	Dibromochloromethane	9	U	6	U			5	U	7	U
79-00-5	1,1,2-Trichloroethane	9	U	6	U			5	U	7	U
71-43-2	Benzene	9	U	6	U			5	U	7	U

*Blank entries indicate that sample was not analyzed for that analyte group

VOLATILE ORGANIC COMPOUNDS: SEDIMENTS AND SURFACE WATER

	A:\MPTDAT3.WK1										
	LOCATION:	MPT-2-SD-8		MPT-2-SD-9		MPT-2-SD-9DL		MPT-2-SW-9		MPT-13-SD-1	
	SAMPLE MATRIX:	SOIL		SOIL		SOIL		WATER		SOIL	
	DATE SAMPLED:	02/12/92		01/23/92		01/23/92		01/23/92		01/23/92	
	LAB NUMBER:	20902		20740		20740		20740		20740	
	UNITS:	µg/Kg		µg/Kg		µg/Kg		µg/l		µg/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
10061-02-6	trans-1,3-Dichloropropene	9	U	6	U			5	U	7	U
110-75-8	2-Chloroethylvinylether	19	U	12	U			10	U	14	U
75-25-2	Bromoform	9	U	6	U			5	U	7	U
591-78-6	2-Hexanone	19	U	12	U			10	U	14	U
108-10-1	4-Methyl-2-Pentanone	19	U	12	U			10	U	14	U
127-18-4	Tetrachloroethene	9	U	6	U			5	U	7	U
79-34-5	1,1,2,2-Tetrachloroethane	9	U	6	U			5	U	7	U
108-88-3	Toluene	9	U	6	U			5	U	7	U
108-90-7	Chlorobenzene	9	U	6	U			5	U	7	U
100-41-4	Ethylbenzene	9	U	6	U			5	U	7	U
100-42-5	Styrene	9	U	6	U			5	U	7	U
1330-20-7	Xylene (total)	9	U	6	U			5	U	7	U
541-73-1	1,3-Dichlorobenzene	9	U	6	U			5	U	7	U
106-46-7	1,4-Dichlorobenzene	9	U	6	U			5	U	7	U
95-50-1	1,2-Dichlorobenzene	9	U	6	U			5	U	7	U
107-02-8	Acrolein	190	U	120	U			100	U	140	U
74-88-4	Iodomethane	19	U	12	U			10	U	14	U
107-13-1	Acrylonitrile	190	U	120	U			100	U	140	U
74-95-3	Dibromomethane	9	U	6	U			5	U	7	U
97-63-2	Ethyl Methacrylate	9	U	6	U			5	U	7	U
96-18-4	1,2,3-Trichloropropane	9	U	6	U			5	U	7	U
110-57-6	trans-1,4-Dichloro-2-butene	9	U	6	U			5	U	7	U
75-05-8	Acetonitrile	190	U	120	U			100	U	140	U
107-05-1	3-Chloropropene	9	U	6	U			5	U	7	U

*Blank entries indicate that sample was not analyzed for that analyte group

VOLATILE ORGANIC COMPOUNDS: SEDIMENTS AND SURFACE WATER

	A:\MPTDAT3.WK1										
	LOCATION:	MPT-2-SD-8		MPT-2-SD-9		MPT-2-SD-9DL		MPT-2-SW-9		MPT-13-SD-1	
	SAMPLE MATRIX:	SOIL		SOIL		SOIL		WATER		SOIL	
	DATE SAMPLED:	02/12/92		01/23/92		01/23/92		01/23/92		01/23/92	
	LAB NUMBER:	20902		20740		20740		20740		20740	
	UNITS:	µg/Kg		µg/Kg		µg/Kg		µg/l		µg/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
107-12-0	Propionitrile	1900	U	120	U			100	U	140	U
126-98-7	Methacrylonitrile	9	U	6	U			5	U	7	U
123-91-1	1,4-Dioxane	370	U	250	U			200	U	290	U
80-62-6	Methyl methacrylate	19	U	12	U			10	U	14	U
106-93-4	1,2-Dibromoethane	9	U	6	U			5	U	7	U
630-20-6	1,1,1,2-Tetrachloroethane	9	U	6	U			5	U	7	U
96-12-8	1,2-Dibromo-3-chloropropane	19	U	12	U			10	U	14	U
76-01-7	Pentachloroethane	19	U	12	U			10	U	14	U
78-83-1	Isobutyl alcohol	370	U	250	U			200	U	290	U
126-99-8	Chloroprene	370	U	250	U			200	U	290	U

*Blank entries indicate that sample was not analyzed for that analyte group

VOLATILE ORGANIC COMPOUNDS: SEDIMENTS AND SURFACE WATER

	A:\MPTDAT3.WK1								
	LOCATION:	MPT-13-SD-1DL		MPT-13-SD-2		MPT-13-SD-3		MPT-13-SD-3DL	
	SAMPLE MATRIX:	SOIL		SOIL		SOIL		SOIL	
	DATE SAMPLED:	01/23/92		01/23/92		01/23/92		01/23/92	
	LAB NUMBER:	20740		20740		20740		20740	
	UNITS:	µg/Kg		µg/Kg		µg/Kg		µg/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
74-87-3	Chloromethane			13	U	14	U		
74-83-9	Bromomethane			13	U	14	U		
75-01-4	Vinyl chloride			13	U	14	U		
75-00-3	Chloroethane			13	U	14	U		
75-09-2	Methylene chloride			17	B	26	B		
67-64-1	Acetone			10	BJ	12	BJ		
75-15-0	Carbon disulfide			6	U	7	U		
75-69-4	Trichlorofluoromethane			6	U	7	U		
75-35-4	1,1-Dichloroethylene			6	U	7	U		
75-34-3	1,1-Dichloroethane			6	U	7	U		
540-59-0	1,2-Dichloroethene (total)			6	U	7	U		
67-66-3	Chloroform			6	U	7	U		
107-06-2	1,2-Dichloroethane			6	U	7	U		
78-93-3	2-Butanone			9	BJ	15	B		
71-55-6	1,1,1-Trichloroethane			6	U	7	U		
56-23-5	Carbon tetrachloride			6	U	7	U		
108-05-4	Vinyl acetate			13	U	14	U		
75-27-4	Bromodichloromethane			6	U	7	U		
78-87-5	1,2-Dichloropropane			6	U	7	U		
10061-01-5	cis-1,3-Dichloropropene			6	U	7	U		
79-01-6	Trichloroethene			6	U	7	U		
124-48-1	Dibromochloromethane			6	U	7	U		
79-00-5	1,1,2-Trichloroethane			6	U	7	U		
71-43-2	Benzene			6	U	7	U		

*Blank entries indicate that sample was not analyzed for that analyte group

VOLATILE ORGANIC COMPOUNDS: SEDIMENTS AND SURFACE WATER

	A:\MPTDAT3.WK1								
	LOCATION:	MPT-13-SD-1DL		MPT-13-SD-2		MPT-13-SD-3		MPT-13-SD-3DL	
	SAMPLE MATRIX:	SOIL		SOIL		SOIL		SOIL	
	DATE SAMPLED:	01/23/92		01/23/92		01/23/92		01/23/92	
	LAB NUMBER:	20740		20740		20740		20740	
	UNITS:	µg/Kg		µg/Kg		µg/Kg		µg/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
10061-02-6	trans-1,3-Dichloropropene			6	U	7	U		
110-75-8	2-Chloroethylvinylether			13	U	14	U		
75-25-2	Bromoform			6	U	7	U		
591-78-6	2-Hexanone			13	U	14	U		
108-10-1	4-Methyl-2-Pentanone			13	U	14	U		
127-18-4	Tetrachloroethene			6	U	7	U		
79-34-5	1,1,2,2-Tetrachloroethane			6	U	7	U		
108-88-3	Toluene			6	U	7	U		
108-90-7	Chlorobenzene			6	U	7	U		
100-41-4	Ethylbenzene			6	U	7	U		
100-42-5	Styrene			6	U	7	U		
1330-20-7	Xylene (total)			6	U	7	U		
541-73-1	1,3-Dichlorobenzene			6	U	7	U		
106-46-7	1,4-Dichlorobenzene			6	U	7	U		
95-50-1	1,2-Dichlorobenzene			6	U	7	U		
107-02-8	Acrolein			130	U	140	U		
74-88-4	Iodomethane			13	U	14	U		
107-13-1	Acrylonitrile			130	U	140	U		
74-95-3	Dibromomethane			6	U	7	U		
97-63-2	Ethyl Methacrylate			6	U	7	U		
96-18-4	1,2,3-Trichloropropane			6	U	7	U		
110-57-6	trans-1,4-Dichloro-2-butene			6	U	7	U		
75-05-8	Acetonitrile			130	U	140	U		
107-05-1	3-Chloropropene			6	U	7	U		

*Blank entries indicate that sample was not analyzed for that analyte group

VOLATILE ORGANIC COMPOUNDS: SEDIMENTS AND SURFACE WATER

	A:\MPTDAT3.WK1								
	LOCATION:	MPT-13-SD-1DL		MPT-13-SD-2		MPT-13-SD-3		MPT-13-SD-3DL	
	SAMPLE MATRIX:	SOIL		SOIL		SOIL		SOIL	
	DATE SAMPLED:	01/23/92		01/23/92		01/23/92		01/23/92	
	LAB NUMBER:	20740		20740		20740		20740	
	UNITS:	µg/Kg		µg/Kg		µg/Kg		µg/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
107-12-0	Propionitrile			130	U	140	U		
126-98-7	Methacrylonitrile			6	U	7	U		
123-91-1	1,4-Dioxane			250	U	270	U		
80-62-6	Methyl methacrylate			13	U	14	U		
106-93-4	1,2-Dibromoethane			6	U	7	U		
630-20-6	1,1,1,2-Tetrachloroethane			6	U	7	U		
96-12-8	1,2-Dibromo-3-chloropropane			13	U	14	U		
76-01-7	Pentachloroethane			13	U	14	U		
78-83-1	Isobutyl alcohol			250	U	270	U		
126-99-8	Chloroprene			250	U	270	U		

*Blank entries indicate that sample was not analyzed for that analyte group

VOLATILE ORGANIC COMPOUNDS: SEDIMENTS AND SURFACE WATER

	A:\MPTDAT4.WK1		
	LOCATION:	MPT-2-SW-8	
	SAMPLE MATRIX:	WATER	
	DATE SAMPLED:	02/12/92	
	LAB NUMBER:	20902	
	UNITS:	µg/l	
CAS RN	Common name	Conc.	Qual.
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	8	B
67-64-1	Acetone	9	BJ
75-15-0	Carbon disulfide	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethylene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon tetrachloride	5	U
108-05-4	Vinyl acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U

*Blank entries indicate that sample was not analyzed for that analyte group

VOLATILE ORGANIC COMPOUNDS: SEDIMENTS AND SURFACE WATER

	A:\MPTDAT4.WK1		
	LOCATION:	MPT-2-SW-8	
	SAMPLE MATRIX:	WATER	
	DATE SAMPLED:	02/12/92	
	LAB NUMBER:	20902	
	UNITS:	µg/l	
CAS RN	Common name	Conc.	Qual.
10061-02-6	trans-1,3-Dichloropropene	5	U
110-75-8	2-Chloroethylvinylether	10	U
75-25-2	Bromoform	5	U
591-78-6	2-Hexanone	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
107-02-8	Acrolein	100	U
74-88-4	Iodomethane	10	U
107-13-1	Acrylonitrile	100	U
74-95-3	Dibromomethane	5	U
97-63-2	Ethyl Methacrylate	5	U
96-18-4	1,2,3-Trichloropropane	5	U
110-57-6	trans-1,4-Dichloro-2-butene	5	U
75-05-8	Acetonitrile	100	U
107-05-1	3-Chloropropene	5	U

*Blank entries indicate that sample was not analyzed for that analyte group

VOLATILE ORGANIC COMPOUNDS: SEDIMENTS AND SURFACE WATER

	A:\MPTDAT4.WK1		
	LOCATION:	MPT-2-SW-8	
	SAMPLE MATRIX:	WATER	
	DATE SAMPLED:	02/12/92	
	LAB NUMBER:	20902	
	UNITS:	µg/l	
CAS RN	Common name	Conc.	Qual.
107-12-0	Propionitrile	100	U
126-98-7	Methacrylonitrile	5	U
123-91-1	1,4-Dioxane	200	U
80-62-6	Methyl methacrylate	10	U
106-93-4	1,2-Dibromoethane	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
76-01-7	Pentachloroethane	10	U
78-83-1	Isobutyl alcohol	200	U
126-99-8	Chloroprene	200	U

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: SEDIMENTS & SURFACE WATER

	A:\MPTDAT1.WK1										
	LOCATION:	MPT-B-SD-1		MPTBSDDUP1		MPTBSDDUP1DL		MPT-B-SW-1		MPTBSWDUP1	
	SAMPLE MATRIX:	SOIL		SOIL		SOIL		WATER		WATER	
	DATE SAMPLED:	01/21/92		01/21/92				01/21/92		01/21/92	
	LAB NUMBER:	20723		20723				20723		20723	
	UNITS:	µg/Kg		µg/Kg		µg/Kg		µg/l		µg/l	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
62-75-9	N-Nitrosodimethylamine	440	U	650	U			10	U	10	U
108-95-2	Phenol	440	U	650	U			10	U	10	U
62-53-3	Aniline	440	U	650	U			10	U	10	U
111-44-4	bis(2-Chloroethyl)Ether	440	U	650	U			10	U	10	U
95-57-8	2-Chlorophenol	440	U	650	U			10	U	10	U
541-73-1	1,3-Dichlorobenzene	440	U	650	U			10	U	10	U
106-46-7	1,4-Dichlorobenzene	440	U	650	U			10	U	10	U
100-51-6	Benzyl alcohol	440	U	650	U			10	U	10	U
95-50-1	1,2-Dichlorobenzene	440	U	650	U			10	U	10	U
95-48-7	2-Methylphenol	440	U	650	U			10	U	10	U
39638-32-9	bis(2-chloroethyl)Ether	440	U	650	U			10	U	10	U
106-44-5	4-Methylphenol	440	U	650	U			10	U	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	440	U	650	U			10	U	10	U
67-72-1	Hexachloroethane	440	U	650	U			10	U	10	U
98-95-3	Nitrobenzene	440	U	650	U			10	U	10	U
78-59-1	Isophorone	440	U	650	U			10	U	10	U
88-75-5	2-Nitrophenol	440	U	650	U			10	U	10	U
105-67-9	2,4-Dimethylphenol	440	U	650	U			10	U	10	U
65-?5-0	Benzoic Acid	2100	U	3100	U			50	U	50	U
111-91-1	Bis(2-chloroethoxy)methane	440	U	650	U			10	U	10	U
120-83-2	2,4-Dichlorophenol	440	U	650	U			10	U	10	U
120-82-1	1,2,4-Trichlorobenzene	440	U	650	U			10	U	10	U
91-20-3	Naphthalene	440	U	650	U			10	U	10	U
106-47-8	4-Chloroaniline	440	U	650	U			10	U	10	U

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: SEDIMENTS & SURFACE WATER

	A:\MPTDAT1.WK1										
	LOCATION:	MPT-B-SD-1		MPTBSDDUP1		MPTBSDDUP1DL		MPT-B-SW-1		MPTBSWDUP1	
	SAMPLE MATRIX:	SOIL		SOIL		SOIL		WATER		WATER	
	DATE SAMPLED:	01/21/92		01/21/92				01/21/92		01/21/92	
	LAB NUMBER:	20723		20723				20723		20723	
	UNITS:	µg/Kg		µg/Kg		µg/Kg		µg/l		µg/l	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
87-68-3	Hexachlorobutadiene	440	U	650	U			10	U	10	U
59-50-7	4-Chloro-3-Methylphenol	440	U	650	U			10	U	10	U
91-57-6	2-Methylnaphthalene	440	U	650	U			10	U	10	U
77-47-4	Hexachlorocyclopentadiene	440	U	650	U			10	U	10	U
88-06-2	2,4,6-Trichlorophenol	440	U	650	U			10	U	10	U
95-95-4	2,4,5-Trichlorophenol	2100	U	3100	U			50	U	50	U
91-58-7	2-Chloronaphthalene	440	U	650	U			10	U	10	U
88-74-4	2-Nitroaniline	2100	U	3100	U			50	U	50	U
131-11-3	Dimethyl phthalate	440	U	650	U			10	U	10	U
208-96-8	Acenaphthylene	440	U	650	U			10	U	10	U
606-20-2	2,6-Dinitrotoluene	440	U	650	U			10	U	10	U
99-09-2	3-Nitroaniline	2100	U	3100	U			50	U	50	U
83-32-9	Acenaphthene	440	U	650	U			10	U	10	U
51-28-5	2,4-Dinitrophenol	2100	U	3100	U			50	U	50	U
100-02-7	4-Nitrophenol	2100	U	3100	U			50	U	50	U
132-64-9	Dibenzofuran	440	U	650	U			10	U	10	U
121-14-2	2,4-Dinitrotoluene	440	U	650	U			10	U	10	U
84-66-2	Diethyl phthalate	440	U	650	U			10	U	10	U
7005-72-3	4-Chlorophenyl phenyl ether	440	U	650	U			10	U	10	U
86-73-7	Fluorene	440	U	650	U			10	U	10	U
100-10-6	4-Nitroaniline	2100	U	3100	U			50	U	50	U
534-52-1	4,6-Dinitro-2-Methylphenol	2100	U	3100	U			50	U	50	U
86-30-6	N-Nitrosodiphenylamine	440	U	650	U			10	U	10	U
122-66-7	1,2-Diphenylhydrazine	440	U	650	U			10	U	10	U

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: SEDIMENTS & SURFACE WATER

	A:\MPTDAT1.WK1										
	LOCATION:	MPT-B-SD-1		MPTBSDDUP1		MPTBSDDUP1DL		MPT-B-SW-1		MPTBSWDUP1	
	SAMPLE MATRIX:	SOIL		SOIL		SOIL		WATER		WATER	
	DATE SAMPLED:	01/21/92		01/21/92				01/21/92		01/21/92	
	LAB NUMBER:	20723		20723				20723		20723	
	UNITS:	µg/Kg		µg/Kg		µg/Kg		µg/l		µg/l	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
101-55-3	4-Bromophenyl phenyl ether	440	U	650	U			10	U	10	U
118-74-1	Hexachlorobenzene	440	U	650	U			10	U	10	U
87-86-5	Pentachlorophenol	2100	U	3100	U			50	U	50	U
85-01-8	Phenanthrene	440	U	650	U			10	U	10	U
120-12-7	Anthracene	440	U	650	U			10	U	10	U
84-74-2	Di-n-butyl phthalate	440	U	71	J			10	U	10	U
206-44-0	Fluoranthene	440	U	650	U			10	U	10	U
129-00-0	Pyrene	440	U	650	U			10	U	10	U
85-68-7	Butyl benzyl phthalate	440	U	650	U			10	U	10	U
91-94-1	3,3'-Dichlorobenzidine	880	U	1300	U			20	U	20	U
56-55-3	Benzo[a]anthracene	440	U	650	U			10	U	10	U
218-01-9	Chrysene	440	U	650	U			10	U	10	U
117-81-7	Bis(2-ethylhexyl) phthalate	440	U	650	U			10	U	10	U
117-84-0	Di-n-octyl phthalate	440	U	650	U			10	U	10	U
205-99-2	Benzo[b]fluoranthene	440	U	650	U			10	U	10	U
207-08-9	Benzo[k]fluoranthene	440	U	650	U			10	U	10	U
50-32-8	Benzo[a]pyrene	440	U	650	U			10	U	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	440	U	650	U			10	U	10	U
53-70-3	Dibenz[a,h]anthracene	440	U	650	U			10	U	10	U
191-24-2	Benzo[ghi]perylene	440	U	650	U			10	U	10	U
109-06-8	2-Picoline	2100	U	3100	U			50	U	50	U
66-27-3	Methyl methanesulfonate	440	U	650	U			10	U	10	U
62-50-0	Ethyl methanesulfonate	440	U	650	U			10	U	10	U
98-86-2	Acetophenone	440	U	650	U			10	U	10	U

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: SEDIMENTS & SURFACE WATER

	A:\MPTDAT1.WK1										
	LOCATION:	MPT-B-SD-1		MPTBSDDUP1		MPTBSDDUP1DL		MPT-B-SW-1		MPTBSWDUP1	
	SAMPLE MATRIX:	SOIL		SOIL		SOIL		WATER		WATER	
	DATE SAMPLED:	01/21/92		01/21/92				01/21/92		01/21/92	
	LAB NUMBER:	20723		20723				20723		20723	
	UNITS:	µg/Kg		µg/Kg		µg/Kg		µg/l		µg/l	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
100-75-4	N-Nitrosopiperidine	440	U	650	U			10	U	10	U
122-09-8	Phenyl-tert-butylamine	2100	U	3100	U			50	U	50	U
87-65-0	2,6-Dichlorophenol	440	U	650	U			10	U	10	U
924-16-3	N-Nitrosodi-n-butylamine	440	U	650	U			10	U	10	U
55-18-5	N-Nitrosodiethylamine	440	U	650	U			10	U	10	U
930-55-2	N-Nitrosopyrrolidine	440	U	650	U			10	U	10	U
92-87-5	Benzidine	2100	U	3100	U			50	U	50	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2100	U	3100	U			50	U	50	U
608-93-5	Pentachlorobenzene	2100	U	3100	U			50	U	50	U
134-32-7	1-Naphthylamine	2100	U	3100	U			50	U	50	U
91-59-8	2-Naphthylamine	2100	U	3100	U			50	U	50	U
58-90-2	2,3,4,6-Tetrachlorophenol	440	U	650	U			10	U	10	U
122-39-4	Diphenylamine	440	U	650	U			10	U	10	U
62-44-2	Phenacetin	440	U	650	U			10	U	10	U
92-67-1	4-Aminobiphenyl	2100	U	3100	U			50	U	50	U
82-68-8	Pentachloronitrobenzene	2100	U	3100	U			50	U	50	U
23950-58-5	Pronamide	440	U	650	U			10	U	10	U
60-11-7	p-(Dimethylamino)azobenzene	440	U	650	U			10	U	10	U
57-97-6	7,12-Dimethylbenz[a]anthracene	440	U	650	U			10	U	10	U
56-49-5	Methylcholanthrene	440	U	650	U			10	U	10	U
110-86-1	Pyridine	2100	U	3100	U			50	U	50	U
10595-95-6	N-Nitrosomethylethylamine	440	U	650	U			10	U	10	U
59-89-2	N-Nitrosomorpholine	440	U	650	U			10	U	10	U
95-53-4	o-Toluidine	440	U	650	U			10	U	10	U

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: SEDIMENTS & SURFACE WATER

	A:\MPTDAT1.WK1										
	LOCATION:	MPT-B-SD-1		MPTBSDDUP1		MPTBSDDUP1DL		MPT-B-SW-1		MPTBSWDUP1	
	SAMPLE MATRIX:	SOIL		SOIL		SOIL		WATER		WATER	
	DATE SAMPLED:	01/21/92		01/21/92				01/21/92		01/21/92	
	LAB NUMBER:	20723		20723				20723		20723	
	UNITS:	µg/Kg		µg/Kg		µg/Kg		µg/l		µg/l	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
108-39-4	3-Methylphenol	440	U	650	U			10	U	10	U
1888-71-7	Hexachloropropene	2100	U	3100	U			50	U	50	U
106-50-3	p-Phenylenediamine	2100	U	3100	U			50	U	50	U
94-59-7	Safrole	2100	U	3100	U			50	U	50	U
120-58-1	Isosafrole	2100	U	3100	U			50	U	50	U
130-15-4	1,4-Naphthoquinone	2100	U	3100	U			50	U	50	U
99-65-0	1,3-Dinitrobenzene	440	U	650	U			20	U	10	U
99-55-8	5-Nitro-o-toluidine	440	U	650	U			10	U	10	U
99-35-4	1,3,5-Trinitrobenzene	440	U	650	U			10	U	10	U
56-57-5	4-Nitroquinoline 1-oxide	440	U	650	U			10	U	10	U
91-80-5	Methapyrilene	2100	U	3100	U			50	U	50	U
119-93-7	3,3'-Dimethylbenzidine	440	U	650	U			10	U	10	U
53-96-3	2-Acetylaminofluorene	440	U	650	U			10	U	10	U
70-30-4	Hexachlorophene	2100	U	3100	U			50	U	50	U

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: SEDIMENTS & SURFACE WATER

	A:\MPTDAT1.WK1										
	LOCATION:	MPT-B-SD-2		MPT-B-SW-2		MPT-B-SD-3		MPT-B-SW-3		MPT-2-SD-4	
	SAMPLE MATRIX:	SOIL		WATER		SOIL		WATER		SOIL	
	DATE SAMPLED:	01/21/92		01/21/92		01/21/92		01/21/92		01/22/92	
	LAB NUMBER:	20723		20723		20723		20723		20722	
	UNITS:	µg/Kg		µg/l		µg/Kg		µg/l		µg/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
62-75-9	N-Nitrosodimethylamine	430	U	10	U	610	U	10	U	550	U
108-95-2	Phenol	430	U	10	U	610	U	10	U	550	U
62-53-3	Aniline	430	U	10	U	610	U	10	U	550	U
111-44-4	bis(2-Chloroethyl)Ether	430	U	10	U	610	U	10	U	550	U
95-57-8	2-Chlorophenol	430	U	10	U	610	U	10	U	550	U
541-73-1	1,3-Dichlorobenzene	430	U	10	U	610	U	10	U	550	U
106-46-7	1,4-Dichlorobenzene	430	U	10	U	610	U	10	U	550	U
100-51-6	Benzyl alcohol	430	U	10	U	610	U	10	U	550	U
95-50-1	1,2-Dichlorobenzene	430	U	10	U	610	U	10	U	550	U
95-48-7	2-Methylphenol	430	U	10	U	610	U	10	U	550	U
39638-32-9	bis(2-chloroethyl)Ether	430	U	10	U	610	U	10	U	550	U
106-44-5	4-Methylphenol	430	U	10	U	610	U	10	U	550	U
621-64-7	N-Nitroso-Di-n-Propylamine	430	U	10	U	610	U	10	U	550	U
67-72-1	Hexachloroethane	430	U	10	U	610	U	10	U	550	U
98-95-3	Nitrobenzene	430	U	10	U	610	U	10	U	550	U
78-59-1	Isophorone	430	U	10	U	610	U	10	U	550	U
88-75-5	2-Nitrophenol	430	U	10	U	610	U	10	U	550	U
105-67-9	2,4-Dimethylphenol	430	U	10	U	610	U	10	U	550	U
65-?5-0	Benzoic Acid	2100	U	50	U	3000	U	50	U	2700	U
111-91-1	Bis(2-chloroethoxy)methane	430	U	10	U	610	U	10	U	550	U
120-83-2	2,4-Dichlorophenol	430	U	10	U	610	U	10	U	550	U
120-82-1	1,2,4-Trichlorobenzene	430	U	10	U	610	U	10	U	550	U
91-20-3	Naphthalene	430	U	10	U	610	U	10	U	550	U
106-47-8	4-Chloroaniline	430	U	10	U	610	U	10	U	550	U

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: SEDIMENTS & SURFACE WATER

	A:\MPTDAT1.WK1										
	LOCATION:	MPT-B-SD-2		MPT-B-SW-2		MPT-B-SD-3		MPT-B-SW-3		MPT-2-SD-4	
	SAMPLE MATRIX:	SOIL		WATER		SOIL		WATER		SOIL	
	DATE SAMPLED:	01/21/92		01/21/92		01/21/92		01/21/92		01/22/92	
	LAB NUMBER:	20723		20723		20723		20723		20722	
	UNITS:	µg/Kg		µg/l		µg/Kg		µg/l		µg/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
87-68-3	Hexachlorobutadiene	430	U	10	U	610	U	10	U	550	U
59-50-7	4-Chloro-3-Methylphenol	430	U	10	U	610	U	10	U	550	U
91-57-6	2-Methylnaphthalene	430	U	10	U	610	U	10	U	550	U
77-47-4	Hexachlorocyclopentadiene	430	U	10	U	610	U	10	U	550	U
88-06-2	2,4,6-Trichlorophenol	430	U	10	U	610	U	10	U	550	U
95-95-4	2,4,5-Trichlorophenol	2100	U	50	U	3000	U	50	U	2700	U
91-58-7	2-Chloronaphthalene	430	U	10	U	610	U	10	U	550	U
88-74-4	2-Nitroaniline	2100	U	50	U	3000	U	50	U	2700	U
131-11-3	Dimethyl phthalate	430	U	10	U	610	U	10	U	550	U
208-96-8	Acenaphthylene	430	U	10	U	610	U	10	U	550	U
606-20-2	2,6-Dinitrotoluene	430	U	10	U	610	U	10	U	550	U
99-09-2	3-Nitroaniline	2100	U	50	U	3000	U	50	U	2700	U
83-32-9	Acenaphthene	430	U	10	U	610	U	10	U	550	U
51-28-5	2,4-Dinitrophenol	2100	U	50	U	3000	U	50	U	2700	U
100-02-7	4-Nitrophenol	2100	U	50	U	3000	U	50	U	2700	U
132-64-9	Dibenzofuran	430	U	10	U	610	U	10	U	550	U
121-14-2	2,4-Dinitrotoluene	430	U	10	U	610	U	10	U	550	U
84-66-2	Diethyl phthalate	430	U	10	U	610	U	10	U	550	U
7005-72-3	4-Chlorophenyl phenyl ether	430	U	10	U	610	U	10	U	550	U
86-73-7	Fluorene	430	U	10	U	610	U	10	U	550	U
100-10-6	4-Nitroaniline	2100	U	50	U	3000	U	50	U	2700	U
534-52-1	4,6-Dinitro-2-Methylphenol	2100	U	50	U	3000	U	50	U	2700	U
86-30-6	N-Nitrosodiphenylamine	430	U	10	U	610	U	10	U	550	U
122-66-7	1,2-Diphenylhydrazine	430	U	10	U	610	U	10	U	550	U

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: SEDIMENTS & SURFACE WATER

	A:\MPTDAT1.WK1										
	LOCATION:	MPT-B-SD-2		MPT-B-SW-2		MPT-B-SD-3		MPT-B-SW-3		MPT-2-SD-4	
	SAMPLE MATRIX:	SOIL		WATER		SOIL		WATER		SOIL	
	DATE SAMPLED:	01/21/92		01/21/92		01/21/92		01/21/92		01/22/92	
	LAB NUMBER:	20723		20723		20723		20723		20722	
	UNITS:	µg/Kg		µg/l		µg/Kg		µg/l		µg/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
101-55-3	4-Bromophenyl phenyl ether	430	U	10	U	610	U	10	U	550	U
118-74-1	Hexachlorobenzene	430	U	10	U	610	U	10	U	550	U
87-86-5	Pentachlorophenol	2100	U	50	U	3000	U	50	U	2700	U
85-01-8	Phenanthrene	430	U	10	U	610	U	10	U	550	U
120-12-7	Anthracene	430	U	10	U	610	U	10	U	550	U
84-74-2	Di-n-butyl phthalate	54	J	10	U	70	J	10	U	63	J
206-44-0	Fluoranthene	430	U	10	U	610	U	10	U	110	J
129-00-0	Pyrene	430	U	10	U	610	U	10	U	110	J
85-68-7	Butyl benzyl phthalate	430	U	10	U	610	U	10	U	550	U
91-94-1	3,3'-Dichlorobenzidine	870	U	20	U	1200	U	20	U	1100	U
56-55-3	Benzo[a]anthracene	430	U	10	U	610	U	10	U	61	J
218-01-9	Chrysene	430	U	10	U	610	U	10	U	94	J
117-81-7	Bis(2-ethylhexyl) phthalate	430	U	3	J	260	J	10	U	550	U
117-84-0	Di-n-octyl phthalate	430	U	10	U	610	U	10	U	550	U
205-99-2	Benzo[b]fluoranthene	430	U	10	U	610	U	10	U	550	U
207-08-9	Benzo[k]fluoranthene	430	U	10	U	610	U	10	U	550	U
50-32-8	Benzo[a]pyrene	430	U	10	U	610	U	10	U	59	J
193-39-5	Indeno(1,2,3-cd)pyrene	430	U	10	U	610	U	10	U	550	U
53-70-3	Dibenz[a,h]anthracene	430	U	10	U	610	U	10	U	550	U
191-24-2	Benzo[ghi]perylene	430	U	10	U	610	U	10	U	550	U
109-06-8	2-Picoline	2100	U	50	U	3000	U	50	U	2700	U
66-27-3	Methyl methanesulfonate	430	U	10	U	610	U	10	U	550	U
62-50-0	Ethyl methanesulfonate	430	U	10	U	610	U	10	U	550	U
98-86-2	Acetophenone	430	U	10	U	610	U	10	U	550	U

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: SEDIMENTS & SURFACE WATER

	A:\MPTDAT1.WK1										
	LOCATION:	MPT-B-SD-2		MPT-B-SW-2		MPT-B-SD-3		MPT-B-SW-3		MPT-2-SD-4	
	SAMPLE MATRIX:	SOIL		WATER		SOIL		WATER		SOIL	
	DATE SAMPLED:	01/21/92		01/21/92		01/21/92		01/21/92		01/22/92	
	LAB NUMBER:	20723		20723		20723		20723		20722	
	UNITS:	µg/Kg		µg/l		µg/Kg		µg/l		µg/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
100-75-4	N-Nitrosopiperidine	430	U	10	U	610	U	10	U	550	U
122-09-8	Phenyl-tert-butylamine	2100	U	50	U	3000	U	50	U	2700	U
87-65-0	2,6-Dichlorophenol	430	U	10	U	610	U	10	U	550	U
924-16-3	N-Nitrosodi-n-butylamine	430	U	10	U	610	U	10	U	550	U
55-18-5	N-Nitrosodiethylamine	430	U	10	U	610	U	10	U	550	U
930-55-2	N-Nitrosopyrrolidine	430	U	10	U	610	U	10	U	550	U
92-87-5	Benzidine	2100	U	50	U	3000	U	50	U	2700	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2100	U	50	U	3000	U	50	U	2700	U
608-93-5	Pentachlorobenzene	2100	U	50	U	3000	U	50	U	2700	U
134-32-7	1-Naphthylamine	2100	U	50	U	3000	U	50	U	2700	U
91-59-8	2-Naphthylamine	2100	U	50	U	3000	U	50	U	2700	U
58-90-2	2,3,4,6-Tetrachlorophenol	430	U	10	U	610	U	10	U	550	U
122-39-4	Diphenylamine	430	U	10	U	610	U	10	U	550	U
62-44-2	Phenacetin	430	U	10	U	610	U	10	U	550	U
92-67-1	4-Aminobiphenyl	2100	U	50	U	3000	U	50	U	2700	U
82-68-8	Pentachloronitrobenzene	2100	U	50	U	3000	U	50	U	2700	U
23950-58-5	Pronamide	430	U	10	U	610	U	10	U	550	U
60-11-7	p-(Dimethylamino)azobenzene	430	U	10	U	610	U	10	U	550	U
57-97-6	7,12-Dimethylbenz[a]anthracene	430	U	10	U	610	U	10	U	550	U
56-49-5	Methylcholanthrene	430	U	10	U	610	U	10	U	550	U
110-86-1	Pyridine	2100	U	50	U	3000	U	50	U	2700	U
10595-95-6	N-Nitrosomethylethylamine	430	U	10	U	610	U	10	U	550	U
59-89-2	N-Nitrosomorpholine	430	U	10	U	610	U	10	U	550	U
95-53-4	o-Toluidine	430	U	10	U	610	U	10	U	550	U

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: SEDIMENTS & SURFACE WATER

	A:\MPTDAT1.WK1										
	LOCATION:	MPT-B-SD-2		MPT-B-SW-2		MPT-B-SD-3		MPT-B-SW-3		MPT-2-SD-4	
	SAMPLE MATRIX:	SOIL		WATER		SOIL		WATER		SOIL	
	DATE SAMPLED:	01/21/92		01/21/92		01/21/92		01/21/92		01/22/92	
	LAB NUMBER:	20723		20723		20723		20723		20722	
	UNITS:	µg/Kg		µg/l		µg/Kg		µg/l		µg/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
108-39-4	3-Methylphenol	430	U	10	U	610	U	10	U	550	U
1888-71-7	Hexachloropropene	2100	U	50	U	3000	U	50	U	2700	U
106-50-3	p-Phenylenediamine	2100	U	50	U	3000	U	50	U	2700	U
94-59-7	Safrole	2100	U	50	U	3000	U	50	U	2700	U
120-58-1	Isosafrole	2100	U	50	U	3000	U	50	U	2700	U
130-15-4	1,4-Naphthoquinone	2100	U	50	U	3000	U	50	U	2700	U
99-65-0	1,3-Dinitrobenzene	430	U	10	U	610	U	10	U	550	U
99-55-8	5-Nitro-o-toluidine	430	U	10	U	610	U	10	U	550	U
99-35-4	1,3,5-Trinitrobenzene	430	U	10	U	610	U	10	U	550	U
56-57-5	4-Nitroquinoline 1-oxide	430	U	10	U	610	U	10	U	550	U
91-80-5	Methapyrilene	2100	U	50	U	3000	U	50	U	2700	U
119-93-7	3,3'-Dimethylbenzidine	430	U	10	U	610	U	10	U	550	U
53-96-3	2-Acetylaminofluorene	430	U	10	U	610	U	10	U	550	U
70-30-4	Hexachlorophene	2100	U	50	U	3000	U	50	U	2700	U

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: SEDIMENTS & SURFACE WATER

	A:\MPTDAT1.WK1				
	LOCATION:	MPT-2-SD-4DL		MPT-2-SW-4	
	SAMPLE MATRIX:	SOIL		WATER	
	DATE SAMPLED:	01/22/92		01/22/92	
	LAB NUMBER:	20722		20722	
	UNITS:	µg/Kg		µg/l	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.
62-75-9	N-Nitrosodimethylamine			10	U
108-95-2	Phenol			10	U
62-53-3	Aniline			10	U
111-44-4	bis(2-Chloroethyl)Ether			10	U
95-57-8	2-Chlorophenol			10	U
541-73-1	1,3-Dichlorobenzene			10	U
106-46-7	1,4-Dichlorobenzene			10	U
100-51-6	Benzyl alcohol			10	U
95-50-1	1,2-Dichlorobenzene			10	U
95-48-7	2-Methylphenol			10	U
39638-32-9	bis(2-chloroethyl)Ether			10	U
106-44-5	4-Methylphenol			10	U
621-64-7	N-Nitroso-Di-n-Propylamine			10	U
67-72-1	Hexachloroethane			10	U
98-95-3	Nitrobenzene			10	U
78-59-1	Isophorone			10	U
88-75-5	2-Nitrophenol			10	U
105-67-9	2,4-Dimethylphenol			10	U
65-?5-0	Benzoic Acid			50	U
111-91-1	Bis(2-chloroethoxy)methane			10	U
120-83-2	2,4-Dichlorophenol			10	U
120-82-1	1,2,4-Trichlorobenzene			10	U
91-20-3	Naphthalene			10	U
106-47-8	4-Chloroaniline			10	U

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: SEDIMENTS & SURFACE WATER

	A:\MPTDAT1.WK1				
	LOCATION:	MPT-2-SD-4DL		MPT-2-SW-4	
	SAMPLE MATRIX:	SOIL		WATER	
	DATE SAMPLED:	01/22/92		01/22/92	
	LAB NUMBER:	20722		20722	
	UNITS:	µg/Kg		µg/l	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.
87-68-3	Hexachlorobutadiene			10	U
59-50-7	4-Chloro-3-Methylphenol			10	U
91-57-6	2-Methylnaphthalene			10	U
77-47-4	Hexachlorocyclopentadiene			10	U
88-06-2	2,4,6-Trichlorophenol			10	U
95-95-4	2,4,5-Trichlorophenol			50	U
91-58-7	2-Chloronaphthalene			10	U
88-74-4	2-Nitroaniline			50	U
131-11-3	Dimethyl phthalate			10	U
208-96-8	Acenaphthylene			10	U
606-20-2	2,6-Dinitrotoluene			10	U
99-09-2	3-Nitroaniline			50	U
83-32-9	Acenaphthene			10	U
51-28-5	2,4-Dinitrophenol			50	U
100-02-7	4-Nitrophenol			50	U
132-64-9	Dibenzofuran			10	U
121-14-2	2,4-Dinitrotoluene			10	U
84-66-2	Diethyl phthalate			10	U
7005-72-3	4-Chlorophenyl phenyl ether			10	U
86-73-7	Fluorene			10	U
100-10-6	4-Nitroaniline			50	U
534-52-1	4,6-Dinitro-2-Methylphenol			50	U
86-30-6	N-Nitrosodiphenylamine			10	U
122-66-7	1,2-Diphenylhydrazine			10	U

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: SEDIMENTS & SURFACE WATER

	A:\MPTDAT1.WK1				
	LOCATION:	MPT-2-SD-4DL		MPT-2-SW-4	
	SAMPLE MATRIX:	SOIL		WATER	
	DATE SAMPLED:	01/22/92		01/22/92	
	LAB NUMBER:	20722		20722	
	UNITS:	µg/Kg		µg/l	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.
101-55-3	4-Bromophenyl phenyl ether			10	U
118-74-1	Hexachlorobenzene			10	U
87-86-5	Pentachlorophenol			50	U
85-01-8	Phenanthrene			10	U
120-12-7	Anthracene			10	U
84-74-2	Di-n-butyl phthalate			10	U
206-44-0	Fluoranthene			10	U
129-00-0	Pyrene			10	U
85-68-7	Butyl benzyl phthalate			10	U
91-94-1	3,3'-Dichlorobenzidine			20	U
56-55-3	Benzo[a]anthracene			10	U
218-01-9	Chrysene			10	U
117-81-7	Bis(2-ethylhexyl) phthalate			10	U
117-84-0	Di-n-octyl phthalate			10	U
205-99-2	Benzo[b]fluoranthene			10	U
207-08-9	Benzo[k]fluoranthene			10	U
50-32-8	Benzo[a]pyrene			10	U
193-39-5	Indeno(1,2,3-cd)pyrene			10	U
53-70-3	Dibenz[a,h]anthracene			10	U
191-24-2	Benzo[ghi]perylene			10	U
109-06-8	2-Picoline			50	U
66-27-3	Methyl methanesulfonate			10	U
62-50-0	Ethyl methanesulfonate			10	U
98-86-2	Acetophenone			10	U

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: SEDIMENTS & SURFACE WATER

	A:\MPTDAT1.WK1				
	LOCATION:	MPT-2-SD-4DL		MPT-2-SW-4	
	SAMPLE MATRIX:	SOIL		WATER	
	DATE SAMPLED:	01/22/92		01/22/92	
	LAB NUMBER:	20722		20722	
	UNITS:	µg/Kg		µg/l	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.
100-75-4	N-Nitrosopiperidine			10	U
122-09-8	Phenyl-tert-butylamine			50	U
87-65-0	2,6-Dichlorophenol			10	U
924-16-3	N-Nitrosodi-n-butylamine			10	U
55-18-5	N-Nitrosodiethylamine			10	U
930-55-2	N-Nitrosopyrrolidine			10	U
92-87-5	Benzidine			50	U
95-94-3	1,2,4,5-Tetrachlorobenzene			50	U
608-93-5	Pentachlorobenzene			50	U
134-32-7	1-Naphthylamine			50	U
91-59-8	2-Naphthylamine			50	U
58-90-2	2,3,4,6-Tetrachlorophenol			10	U
122-39-4	Diphenylamine			10	U
62-44-2	Phenacetin			10	U
92-67-1	4-Aminobiphenyl			50	U
82-68-8	Pentachloronitrobenzene			50	U
23950-58-5	Pronamide			10	U
60-11-7	p-(Dimethylamino)azobenzene			10	U
57-97-6	7,12-Dimethylbenz[a]anthracene			10	U
56-49-5	Methylcholanthrene			10	U
110-86-1	Pyridine			50	U
10595-95-6	N-Nitrosomethylethylamine			10	U
59-89-2	N-Nitrosomorpholine			10	U
95-53-4	o-Toluidine			10	U

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: SEDIMENTS & SURFACE WATER

	A:\MPTDAT1.WK1				
	LOCATION:	MPT-2-SD-4DL		MPT-2-SW-4	
	SAMPLE MATRIX:	SOIL		WATER	
	DATE SAMPLED:	01/22/92		01/22/92	
	LAB NUMBER:	20722		20722	
	UNITS:	µg/Kg		µg/l	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.
108-39-4	3-Methylphenol			10	U
1888-71-7	Hexachloropropene			50	U
106-50-3	p-Phenylenediamine			50	U
94-59-7	Safrole			50	U
120-58-1	Isosafrole			50	U
130-15-4	1,4-Naphthoquinone			50	U
99-65-0	1,3-Dinitrobenzene			10	U
99-55-8	5-Nitro-o-toluidine			10	U
99-35-4	1,3,5-Trinitrobenzene			10	U
56-57-5	4-Nitroquinoline 1-oxide			10	U
91-80-5	Methapyrilene			50	U
119-93-7	3,3'-Dimethylbenzidine			10	U
53-96-3	2-Acetylaminofluorene			10	U
70-30-4	Hexachlorophene			50	U

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: SEDIMENTS AND SURFACE WATER

	A:\MPTDAT2.WK1										
	LOCATION:	MPT-2-SD-5		MPT-2-SD-5DL		MPT-2-SW-5		MPT-2-SD-6		MPT-2-SD-6DL	
	SAMPLE MATRIX:	SOIL		SOIL		WATER		SOIL		SOIL	
	DATE SAMPLED:	01/22/92		01/22/92		01/22/92		01/22/92		01/22/92	
	LAB NUMBER:	20722		20722		20722		20722		20722	
	UNITS:	µg/Kg		µg/Kg		µg/l		µg/Kg		µg/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
62-75-9	N-Nitrosodimethylamine	690	U			10	U	940	U		
108-95-2	Phenol	690	U			10	U	940	U		
62-53-3	Aniline	690	U			10	U	940	U		
111-44-4	bis(2-Chloroethyl)Ether	690	U			10	U	940	U		
95-57-8	2-Chlorophenol	690	U			10	U	940	U		
541-73-1	1,3-Dichlorobenzene	690	U			10	U	940	U		
106-46-7	1,4-Dichlorobenzene	690	U			10	U	940	U		
100-51-6	Benzyl alcohol	690	U			10	U	940	U		
95-50-1	1,2-Dichlorobenzene	690	U			10	U	940	U		
95-48-7	2-Methylphenol	690	U			10	U	940	U		
39638-32-9	bis(2-chloroethyl)Ether	690	U			10	U	940	U		
106-44-5	4-Methylphenol	690	U			10	U	940	U		
621-64-7	N-Nitroso-Di-n-Propylamine	690	U			10	U	940	U		
67-72-1	Hexachloroethane	690	U			10	U	940	U		
98-95-3	Nitrobenzene	690	U			10	U	940	U		
78-59-1	Isophorone	690	U			10	U	940	U		
88-75-5	2-Nitrophenol	690	U			10	U	940	U		
105-67-9	2,4-Dimethylphenol	690	U			10	U	940	U		
65-?5-0	Benzoic Acid	690	U			10	U	940	U		
111-91-1	Bis(2-chloroethoxy)methane	3300	U			50	U	4600	U		
120-83-2	2,4-Dichlorophenol	690	U			10	U	940	U		
120-82-1	1,2,4-Trichlorobenzene	690	U			10	U	940	U		
91-20-3	Naphthalene	690	U			10	U	940	U		
106-47-8	4-Chloroaniline	690	U			10	U	940	U		

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: SEDIMENTS AND SURFACE WATER

	A:\MPTDAT2.WK1											
	LOCATION:	MPT-2-SW-6		MPT-2-SD-7		MPT-2-SD-7A		MPT-2-SD-7DL		MPT-2-SD-7ADL		
	SAMPLE MATRIX:	WATER		SOIL		SOIL		SOIL		SOIL		
	DATE SAMPLED:	01/22/92		01/23/92		01/23/92		01/23/92		01/23/92		
	LAB NUMBER:	20722		20740		20740		20740		20740		
	UNITS:	µg/l		µg/Kg		µg/Kg		µg/Kg		µg/Kg		
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	
62-75-9	N-Nitrosodimethylamine	10	U	520	U	490	U					
108-95-2	Phenol	10	U	520	U	490	U					
62-53-3	Aniline	10	U	520	U	490	U					
111-44-4	bis(2-Chloroethyl)Ether	10	U	520	U	490	U					
95-57-8	2-Chlorophenol	10	U	520	U	490	U					
541-73-1	1,3-Dichlorobenzene	10	U	520	U	490	U					
106-46-7	1,4-Dichlorobenzene	10	U	520	U	490	U					
100-51-6	Benzyl alcohol	10	U	520	U	490	U					
95-50-1	1,2-Dichlorobenzene	10	U	520	U	490	U					
95-48-7	2-Methylphenol	10	U	520	U	490	U					
39638-32-9	bis(2-chloroethyl)Ether	10	U	520	U	490	U					
106-44-5	4-Methylphenol	10	U	520	U	490	U					
621-64-7	N-Nitroso-Di-n-Propylamine	10	U	520	U	490	U					
67-72-1	Hexachloroethane	10	U	520	U	490	U					
98-95-3	Nitrobenzene	10	U	520	U	490	U					
78-59-1	Isophorone	10	U	520	U	490	U					
88-75-5	2-Nitrophenol	10	U	520	U	490	U					
105-67-9	2,4-Dimethylphenol	10	U	520	U	490	U					
65-?5-0	Benzoic Acid	10	U	520	U	490	U					
111-91-1	Bis(2-chloroethoxy)methane	50	U	2500	U	2400	U					
120-83-2	2,4-Dichlorophenol	10	U	520	U	490	U					
120-82-1	1,2,4-Trichlorobenzene	10	U	520	U	490	U					
91-20-3	Naphthalene	10	U	520	U	490	U					
106-47-8	4-Chloroaniline	10	U	520	U	490	U					

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: SEDIMENTS AND SURFACE WATER

	A:\MPTDAT2.WK1				
	LOCATION:	MPT-2-SW-7		MPT-2-SW-7A	
	SAMPLE MATRIX:	WATER		WATER	
	DATE SAMPLED:	01/23/92		01/23/92	
	LAB NUMBER:	20740		20740	
	UNITS:	µg/l		µg/l	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.
62-75-9	N-Nitrosodimethylamine	10	U	10	U
108-95-2	Phenol	10	U	10	U
62-53-3	Aniline	10	U	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U	10	U
95-57-8	2-Chlorophenol	10	U	10	U
541-73-1	1,3-Dichlorobenzene	10	U	10	U
106-46-7	1,4-Dichlorobenzene	10	U	10	U
100-51-6	Benzyl alcohol	10	U	10	U
95-50-1	1,2-Dichlorobenzene	10	U	10	U
95-48-7	2-Methylphenol	10	U	10	U
39638-32-9	bis(2-chloroethyl)Ether	10	U	10	U
106-44-5	4-Methylphenol	10	U	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U	10	U
67-72-1	Hexachloroethane	10	U	10	U
98-95-3	Nitrobenzene	10	U	10	U
78-59-1	Isophorone	10	U	10	U
88-75-5	2-Nitrophenol	10	U	10	U
105-67-9	2,4-Dimethylphenol	10	U	10	U
65-?5-0	Benzoic Acid	50	U	50	U
111-91-1	Bis(2-chloroethoxy)methane	10	U	10	U
120-83-2	2,4-Dichlorophenol	10	U	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U	10	U
91-20-3	Naphthalene	10	U	10	U
106-47-8	4-Chloroaniline	10	U	10	U

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: SEDIMENTS AND SURFACE WATER

	A:\MPTDAT2.WK1										
	LOCATION:	MPT-2-SD-5		MPT-2-SD-5DL		MPT-2-SW-5		MPT-2-SD-6		MPT-2-SD-6DL	
	SAMPLE MATRIX:	SOIL		SOIL		WATER		SOIL		SOIL	
	DATE SAMPLED:	01/22/92		01/22/92		01/22/92		01/22/92		01/22/92	
	LAB NUMBER:	20722		20722		20722		20722		20722	
	UNITS:	µg/Kg		µg/Kg		µg/l		µg/Kg		µg/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
100-75-4	N-Nitrosopiperidine	690	U			10	U	940	U		
122-09-8	Phenyl-tert-butylamine	3300	U			50	U	4600	U		
87-65-0	2,6-Dichlorophenol	690	U			10	U	940	U		
924-16-3	N-Nitrosodi-n-butylamine	690	U			10	U	940	U		
55-18-5	N-Nitrosodiethylamine	690	U			10	U	940	U		
930-55-2	N-Nitrosopyrrolidine	690	U			10	U	940	U		
92-87-5	Benzidine	3300	U			50	U	4600	U		
95-94-3	1,2,4,5-Tetrachlorobenzene	3300	U			50	U	4600	U		
608-93-5	Pentachlorobenzene	3300	U			50	U	4600	U		
134-32-7	1-Naphthylamine	3300	U			50	U	4600	U		
91-59-8	2-Naphthylamine	3300	U			50	U	4600	U		
58-90-2	2,3,4,6-Tetrachlorophenol	690	U			10	U	940	U		
122-39-4	Diphenylamine	690	U			10	U	940	U		
62-44-2	Phenacetin	690	U			10	U	940	U		
92-67-1	4-Aminobiphenyl	3300	U			50	U	4600	U		
82-68-8	Pentachloronitrobenzene	3300	U			50	U	4600	U		
23950-58-5	Pronamide	690	U			10	U	940	U		
60-11-7	p-(Dimethylamino)azobenzene	690	U			10	U	940	U		
57-97-6	7,12-Dimethylbenz[a]anthracene	690	U			10	U	940	U		
56-49-5	Methylcholanthrene	690	U			10	U	940	U		
110-86-1	Pyridine	3300	U			50	U	4600	U		
10595-95-6	N-Nitrosomethylethylamine	690	U			10	U	940	U		
59-89-2	N-Nitrosomorpholine	690	U			10	U	940	U		
95-53-4	o-Toluidine	690	U			10	U	940	U		

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: SEDIMENTS AND SURFACE WATER

	A:\MPTDAT2.WK1										
	LOCATION:	MPT-2-SD-5		MPT-2-SD-5DL		MPT-2-SW-5		MPT-2-SD-6		MPT-2-SD-6DL	
	SAMPLE MATRIX:	SOIL		SOIL		WATER		SOIL		SOIL	
	DATE SAMPLED:	01/22/92		01/22/92		01/22/92		01/22/92		01/22/92	
	LAB NUMBER:	20722		20722		20722		20722		20722	
	UNITS:	µg/Kg		µg/Kg		µg/l		µg/Kg		µg/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
108-39-4	3-Methylphenol	690	U			10	U	940	U		
1888-71-7	Hexachloropropene	3300	U			50	U	4600	U		
106-50-3	p-Phenylenediamine	3300	U			50	U	4600	U		
94-59-7	Safrole	3300	U			50	U	4600	U		
120-58-1	Isosafrole	3300	U			50	U	4600	U		
130-15-4	1,4-Naphthoquinone	3300	U			50	U	4600	U		
99-65-0	1,3-Dinitrobenzene	690	U			10	U	940	U		
99-55-8	5-Nitro-o-toluidine	690	U			10	U	940	U		
99-35-4	1,3,5-Trinitrobenzene	690	U			10	U	940	U		
56-57-5	4-Nitroquinoline 1-oxide	690	U			10	U	940	U		
91-80-5	Methapyrilene	3300	U			50	U	4600	U		
119-93-7	3,3'-Dimethylbenzidine	690	U			10	U	940	U		
53-96-3	2-Acetylaminofluorene	690	U			10	U	940	U		
70-30-4	Hexachlorophene	3300	U			50	U	4600	U		

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: SEDIMENTS AND SURFACE WATER

	A:\MPTDAT2.WK1										
	LOCATION:	MPT-2-SW-6		MPT-2-SD-7		MPT-2-SD-7A		MPT-2-SD-7DL		MPT-2-SD-7ADL	
	SAMPLE MATRIX:	WATER		SOIL		SOIL		SOIL		SOIL	
	DATE SAMPLED:	01/22/92		01/23/92		01/23/92		01/23/92		01/23/92	
	LAB NUMBER:	20722		20740		20740		20740		20740	
	UNITS:	µg/l		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
62-75-9	N-Nitrosodimethylamine	10	U	520	U	490	U				
108-95-2	Phenol	10	U	520	U	490	U				
62-53-3	Aniline	10	U	520	U	490	U				
111-44-4	bis(2-Chloroethyl)Ether	10	U	520	U	490	U				
95-57-8	2-Chlorophenol	10	U	520	U	490	U				
541-73-1	1,3-Dichlorobenzene	10	U	520	U	490	U				
106-46-7	1,4-Dichlorobenzene	10	U	520	U	490	U				
100-51-6	Benzyl alcohol	10	U	520	U	490	U				
95-50-1	1,2-Dichlorobenzene	10	U	520	U	490	U				
95-48-7	2-Methylphenol	10	U	520	U	490	U				
39638-32-9	bis(2-chloroethyl)Ether	10	U	520	U	490	U				
106-44-5	4-Methylphenol	10	U	520	U	490	U				
621-64-7	N-Nitroso-Di-n-Propylamine	10	U	520	U	490	U				
67-72-1	Hexachloroethane	10	U	520	U	490	U				
98-95-3	Nitrobenzene	10	U	520	U	490	U				
78-59-1	Isophorone	10	U	520	U	490	U				
88-75-5	2-Nitrophenol	10	U	520	U	490	U				
105-67-9	2,4-Dimethylphenol	10	U	520	U	490	U				
65-?5-0	Benzoic Acid	50	U	2500	U	2400	U				
111-91-1	Bis(2-chloroethoxy)methane	10	U	520	U	490	U				
120-83-2	2,4-Dichlorophenol	10	U	520	U	490	U				
120-82-1	1,2,4-Trichlorobenzene	10	U	520	U	490	U				
91-20-3	Naphthalene	10	U	520	U	490	U				
106-47-8	4-Chloroaniline	10	U	520	U	490	U				

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: SEDIMENTS AND SURFACE WATER

	A:\MPTDAT2.WK1										
	LOCATION:	MPT-2-SW-6		MPT-2-SD-7		MPT-2-SD-7A		MPT-2-SD-7DL		MPT-2-SD-7ADL	
	SAMPLE MATRIX:	WATER		SOIL		SOIL		SOIL		SOIL	
	DATE SAMPLED:	01/22/92		01/23/92		01/23/92		01/23/92		01/23/92	
	LAB NUMBER:	20722		20740		20740		20740		20740	
	UNITS:	µg/l		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
87-68-3	Hexachlorobutadiene	10	U	520	U	490	U				
59-50-7	4-Chloro-3-Methylphenol	10	U	520	U	490	U				
91-57-6	2-Methylnaphthalene	10	U	520	U	490	U				
77-47-4	Hexachlorocyclopentadiene	10	U	520	U	490	U				
88-06-2	2,4,6-Trichlorophenol	10	U	520	U	490	U				
95-95-4	2,4,5-Trichlorophenol	50	U	2500	U	2400	U				
91-58-7	2-Chloronaphthalene	10	U	520	U	490	U				
88-74-4	2-Nitroaniline	50	U	2500	U	2400	U				
131-11-3	Dimethyl phthalate	10	U	520	U	490	U				
208-96-8	Acenaphthylene	10	U	520	U	490	U				
606-20-2	2,6-Dinitrotoluene	10	U	520	U	490	U				
99-09-2	3-Nitroaniline	50	U	2500	U	2400	U				
83-32-9	Acenaphthene	10	U	520	U	490	U				
51-28-5	2,4-Dinitrophenol	50	U	2500	U	2400	U				
100-02-7	4-Nitrophenol	50	U	2500	U	2400	U				
132-64-9	Dibenzofuran	10	U	520	U	490	U				
121-14-2	2,4-Dinitrotoluene	10	U	520	U	490	U				
84-66-2	Diethyl phthalate	10	U	520	U	490	U				
7005-72-3	4-Chlorophenyl phenyl ether	10	U	520	U	490	U				
86-73-7	Fluorene	10	U	520	U	490	U				
100-10-6	4-Nitroaniline	50	U	2500	U	2400	U				
534-52-1	4,6-Dinitro-2-Methylphenol	50	U	2500	U	2400	U				
86-30-6	N-Nitrosodiphenylamine	10	U	520	U	490	U				
122-66-7	1,2-Diphenylhydrazine	10	U	520	U	490	U				

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: SEDIMENTS AND SURFACE WATER

	A:\MPTDAT2.WK1										
	LOCATION:	MPT-2-SW-6		MPT-2-SD-7		MPT-2-SD-7A		MPT-2-SD-7DL		MPT-2-SD-7ADL	
	SAMPLE MATRIX:	WATER		SOIL		SOIL		SOIL		SOIL	
	DATE SAMPLED:	01/22/92		01/23/92		01/23/92		01/23/92		01/23/92	
	LAB NUMBER:	20722		20740		20740		20740		20740	
	UNITS:	µg/l		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
101-55-3	4-Bromophenyl phenyl ether	10	U	520	U	490	U				
118-74-1	Hexachlorobenzene	10	U	520	U	490	U				
87-86-5	Pentachlorophenol	50	U	430	J	2400	U				
85-01-8	Phenanthrene	10	U	520	U	490	U				
120-12-7	Anthracene	10	U	520	U	490	U				
84-74-2	Di-n-butyl phthalate	10	U	520	BU	57	BJ				
206-44-0	Fluoranthene	10	U	520	U	490	U				
129-00-0	Pyrene	10	U	520	U	490	U				
85-68-7	Butyl benzyl phthalate	10	U	520	U	490	U				
91-94-1	3,3'-Dichlorobenzidine	20	U	1000	U	490	U				
56-55-3	Benzo[a]anthracene	10	U	520	U	490	U				
218-01-9	Chrysene	10	U	520	U	490	U				
117-81-7	Bis(2-ethylhexyl) phthalate	10	U	160	J	120	J				
117-84-0	Di-n-octyl phthalate	10	U	520	U	490	U				
205-99-2	Benzo[b]fluoranthene	10	U	520	U	490	U				
207-08-9	Benzo[k]fluoranthene	10	U	520	U	490	U				
50-32-8	Benzo[a]pyrene	10	U	520	U	490	U				
193-39-5	Indeno(1,2,3-cd)pyrene	10	U	520	U	490	U				
53-70-3	Dibenz[a,h]anthracene	10	U	520	U	490	U				
191-24-2	Benzo[ghi]perylene	10	U	520	U	490	U				
109-06-8	2-Picoline	50	U	2500	U	2400	U				
66-27-3	Methyl methanesulfonate	10	U	520	U	490	U				
62-50-0	Ethyl methanesulfonate	10	U	520	U	490	U				
98-86-2	Acetophenone	10	U	520	U	490	U				

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: SEDIMENTS AND SURFACE WATER

	A:\MPTDAT2.WK1										
	LOCATION:	MPT-2-SW-6		MPT-2-SD-7		MPT-2-SD-7A		MPT-2-SD-7DL		MPT-2-SD-7ADL	
	SAMPLE MATRIX:	WATER		SOIL		SOIL		SOIL		SOIL	
	DATE SAMPLED:	01/22/92		01/23/92		01/23/92		01/23/92		01/23/92	
	LAB NUMBER:	20722		20740		20740		20740		20740	
	UNITS:	µg/l		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
100-75-4	N-Nitrosopiperidine	10	U	520	U	490	U				
122-09-8	Phenyl-tert-butylamine	50	U	2500	U	2400	U				
87-65-0	2,6-Dichlorophenol	10	U	520	U	490	U				
924-16-3	N-Nitrosodi-n-butylamine	10	U	520	U	490	U				
55-18-5	N-Nitrosodiethylamine	10	U	520	U	490	U				
930-55-2	N-Nitrosopyrrolidine	10	U	520	U	490	U				
92-87-5	Benzidine	50	U	2500	U	2400	U				
95-94-3	1,2,4,5-Tetrachlorobenzene	50	U	2500	U	2400	U				
608-93-5	Pentachlorobenzene	50	U	2500	U	2400	U				
134-32-7	1-Naphthylamine	50	U	2500	U	2400	U				
91-59-8	2-Naphthylamine	50	U	2500	U	2400	U				
58-90-2	2,3,4,6-Tetrachlorophenol	10	U	520	U	490	U				
122-39-4	Diphenylamine	10	U	520	U	490	U				
62-44-2	Phenacetin	10	U	520	U	490	U				
92-67-1	4-Aminobiphenyl	50	U	2500	U	2400	U				
82-68-8	Pentachloronitrobenzene	50	U	2500	U	2400	U				
23950-58-5	Pronamide	10	U	520	U	490	U				
60-11-7	p-(Dimethylamino)azobenzene	10	U	520	U	490	U				
57-97-6	7,12-Dimethylbenz[a]anthracene	10	U	520	U	490	U				
56-49-5	Methylcholanthrene	10	U	520	U	490	U				
110-86-1	Pyridine	50	U	2500	U	2400	U				
10595-95-6	N-Nitrosomethylethylamine	10	U	520	U	490	U				
59-89-2	N-Nitrosomorpholine	10	U	520	U	490	U				
95-53-4	o-Toluidine	10	U	520	U	490	U				

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: SEDIMENTS AND SURFACE WATER

	A:\MPTDAT2.WK1										
	LOCATION:	MPT-2-SW-6		MPT-2-SD-7		MPT-2-SD-7A		MPT-2-SD-7DL		MPT-2-SD-7ADL	
	SAMPLE MATRIX:	WATER		SOIL		SOIL		SOIL		SOIL	
	DATE SAMPLED:	01/22/92		01/23/92		01/23/92		01/23/92		01/23/92	
	LAB NUMBER:	20722		20740		20740		20740		20740	
	UNITS:	µg/l		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
108-39-4	3-Methylphenol	10	U	520	U	490	U				
1888-71-7	Hexachloropropene	50	U	2500	U	2400	U				
106-50-3	p-Phenylenediamine	50	U	2500	U	2400	U				
94-59-7	Safrole	50	U	2500	U	2400	U				
120-58-1	Isosafrole	50	U	2500	U	2400	U				
130-15-4	1,4-Naphthoquinone	50	U	2500	U	2400	U				
99-65-0	1,3-Dinitrobenzene	10	U	520	U	490	U				
99-55-8	5-Nitro-o-toluidine	10	U	520	U	490	U				
99-35-4	1,3,5-Trinitrobenzene	10	U	520	U	490	U				
56-57-5	4-Nitroquinoline 1-oxide	10	U	520	U	490	U				
91-80-5	Methapyrilene	50	U	2500	U	2400	U				
119-93-7	3,3'-Dimethylbenzidine	10	U	520	U	490	U				
53-96-3	2-Acetylaminofluorene	10	U	520	U	490	U				
70-30-4	Hexachlorophene	50	U	2500	U	2400	U				

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: SEDIMENTS AND SURFACE WATER

	A:\MPTDAT2.WK1				
	LOCATION:	MPT-2-SW-7		MPT-2-SW-7A	
	SAMPLE MATRIX:	WATER		WATER	
	DATE SAMPLED:	01/23/92		01/23/92	
	LAB NUMBER:	20740		20740	
	UNITS:	µg/l		µg/l	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.
62-75-9	N-Nitrosodimethylamine	10	U	10	U
108-95-2	Phenol	10	U	10	U
62-53-3	Aniline	10	U	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U	10	U
95-57-8	2-Chlorophenol	10	U	10	U
541-73-1	1,3-Dichlorobenzene	10	U	10	U
106-46-7	1,4-Dichlorobenzene	10	U	10	U
100-51-6	Benzyl alcohol	10	U	10	U
95-50-1	1,2-Dichlorobenzene	10	U	10	U
95-48-7	2-Methylphenol	10	U	10	U
39638-32-9	bis(2-chloroethyl)Ether	10	U	10	U
106-44-5	4-Methylphenol	10	U	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U	10	U
67-72-1	Hexachloroethane	10	U	10	U
98-95-3	Nitrobenzene	10	U	10	U
78-59-1	Isophorone	10	U	10	U
88-75-5	2-Nitrophenol	10	U	10	U
105-67-9	2,4-Dimethylphenol	10	U	10	U
65-?5-0	Benzoic Acid	50	U	50	U
111-91-1	Bis(2-chloroethoxy)methane	10	U	10	U
120-83-2	2,4-Dichlorophenol	10	U	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U	10	U
91-20-3	Naphthalene	10	U	10	U
106-47-8	4-Chloroaniline	10	U	10	U

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: SEDIMENTS AND SURFACE WATER

	A:\MPTDAT2.WK1				
	LOCATION:	MPT-2-SW-7		MPT-2-SW-7A	
	SAMPLE MATRIX:	WATER		WATER	
	DATE SAMPLED:	01/23/92		01/23/92	
	LAB NUMBER:	20740		20740	
	UNITS:	µg/l		µg/l	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.
87-68-3	Hexachlorobutadiene	10	U	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U	10	U
91-57-6	2-Methylnaphthalene	10	U	10	U
77-47-4	Hexachlorocyclopentadiene	10	U	10	U
88-06-2	2,4,6-Trichlorophenol	10	U	10	U
95-95-4	2,4,5-Trichlorophenol	50	U	50	U
91-58-7	2-Chloronaphthalene	10	U	10	U
88-74-4	2-Nitroaniline	50	U	50	U
131-11-3	Dimethyl phthalate	10	U	10	U
208-96-8	Acenaphthylene	10	U	10	U
606-20-2	2,6-Dinitrotoluene	10	U	10	U
99-09-2	3-Nitroaniline	50	U	50	U
83-32-9	Acenaphthene	10	U	10	U
51-28-5	2,4-Dinitrophenol	50	U	50	U
100-02-7	4-Nitrophenol	50	U	50	U
132-64-9	Dibenzofuran	10	U	10	U
121-14-2	2,4-Dinitrotoluene	10	U	10	U
84-66-2	Diethyl phthalate	10	U	10	U
7005-72-3	4-Chlorophenyl phenyl ether	10	U	10	U
86-73-7	Fluorene	10	U	10	U
100-10-6	4-Nitroaniline	50	U	50	U
534-52-1	4,6-Dinitro-2-Methylphenol	50	U	50	U
86-30-6	N-Nitrosodiphenylamine	10	U	10	U
122-66-7	1,2-Diphenylhydrazine	10	U	10	U

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: SEDIMENTS AND SURFACE WATER

	A:\MPTDAT2.WK1				
	LOCATION:	MPT-2-SW-7		MPT-2-SW-7A	
	SAMPLE MATRIX:	WATER		WATER	
	DATE SAMPLED:	01/23/92		01/23/92	
	LAB NUMBER:	20740		20740	
	UNITS:	µg/l		µg/l	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.
101-55-3	4-Bromophenyl phenyl ether	10	U	10	U
118-74-1	Hexachlorobenzene	10	U	10	U
87-86-5	Pentachlorophenol	50	U	50	U
85-01-8	Phenanthrene	10	U	10	U
120-12-7	Anthracene	10	U	10	U
84-74-2	Di-n-butyl phthalate	2	BJ	16	B
206-44-0	Fluoranthene	10	U	10	U
129-00-0	Pyrene	10	U	10	U
85-68-7	Butyl benzyl phthalate	10	U	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U	20	U
56-55-3	Benzo[a]anthracene	10	U	10	U
218-01-9	Chrysene	10	U	10	U
117-81-7	Bis(2-ethylhexyl) phthalate	3	J	10	U
117-84-0	Di-n-octyl phthalate	10	U	10	U
205-99-2	Benzo[b]fluoranthene	10	U	10	U
207-08-9	Benzo[k]fluoranthene	10	U	10	U
50-32-8	Benzo[a]pyrene	10	U	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U	10	U
53-70-3	Dibenz[a,h]anthracene	10	U	10	U
191-24-2	Benzo[ghi]perylene	10	U	10	U
109-06-8	2-Picoline	50	U	50	U
66-27-3	Methyl methanesulfonate	10	U	10	U
62-50-0	Ethyl methanesulfonate	10	U	10	U
98-86-2	Acetophenone	10	U	10	U

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: SEDIMENTS AND SURFACE WATER

	A:\MPTDAT2.WK1				
	LOCATION:	MPT-2-SW-7		MPT-2-SW-7A	
	SAMPLE MATRIX:	WATER		WATER	
	DATE SAMPLED:	01/23/92		01/23/92	
	LAB NUMBER:	20740		20740	
	UNITS:	µg/l		µg/l	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.
100-75-4	N-Nitrosopiperidine	10	U	10	U
122-09-8	Phenyl-tert-butylamine	50	U	50	U
87-65-0	2,6-Dichlorophenol	10	U	10	U
924-16-3	N-Nitrosodi-n-butylamine	10	U	10	U
55-18-5	N-Nitrosodiethylamine	10	U	10	U
930-55-2	N-Nitrosopyrrolidine	10	U	10	U
92-87-5	Benzidine	50	U	50	U
95-94-3	1,2,4,5-Tetrachlorobenzene	50	U	50	U
608-93-5	Pentachlorobenzene	50	U	50	U
134-32-7	1-Naphthylamine	50	U	50	U
91-59-8	2-Naphthylamine	50	U	50	U
58-90-2	2,3,4,6-Tetrachlorophenol	10	U	10	U
122-39-4	Diphenylamine	10	U	10	U
62-44-2	Phenacetin	10	U	10	U
92-67-1	4-Aminobiphenyl	50	U	50	U
82-68-8	Pentachloronitrobenzene	50	U	50	U
23950-58-5	Pronamide	10	U	10	U
60-11-7	p-(Dimethylamino)azobenzene	10	U	10	U
57-97-6	7,12-Dimethylbenz[a]anthracene	10	U	10	U
56-49-5	Methylcholanthrene	10	U	10	U
110-86-1	Pyridine	50	U	50	U
10595-95-6	N-Nitrosomethylethylamine	10	U	10	U
59-89-2	N-Nitrosomorpholine	10	U	10	U
95-53-4	o-Toluidine	10	U	10	U

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: SEDIMENTS AND SURFACE WATER

	A:\MPTDAT2.WK1				
	LOCATION:	MPT-2-SW-7		MPT-2-SW-7A	
	SAMPLE MATRIX:	WATER		WATER	
	DATE SAMPLED:	01/23/92		01/23/92	
	LAB NUMBER:	20740		20740	
	UNITS:	µg/l		µg/l	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.
108-39-4	3-Methylphenol	10	U	10	U
1888-71-7	Hexachloropropene	50	U	50	U
106-50-3	p-Phenylenediamine	50	U	50	U
94-59-7	Safrole	50	U	50	U
120-58-1	Isosafrole	50	U	50	U
130-15-4	1,4-Naphthoquinone	50	U	50	U
99-65-0	1,3-Dinitrobenzene	10	U	10	U
99-55-8	5-Nitro-o-toluidine	10	U	10	U
99-35-4	1,3,5-Trinitrobenzene	10	U	10	U
56-57-5	4-Nitroquinoline 1-oxide	10	U	10	U
91-80-5	Methapyrilene	50	U	50	U
119-93-7	3,3'-Dimethylbenzidine	10	U	10	U
53-96-3	2-Acetylaminofluorene	10	U	10	U
70-30-4	Hexachlorophene	50	U	50	U

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: SEDIMENTS AND SURFACE WATER

	A:\MPTDAT3.WK1										
	LOCATION:	MPT-2-SD-8		MPT-2-SD-9		MPT-2-SD-9DL		MPT-2-SW-9		MPT-13-SD-1	
	SAMPLE MATRIX:	SOIL		SOIL		SOIL		WATER		SOIL	
	DATE SAMPLED:	02/12/92		01/23/92		01/23/92		01/23/92		01/23/92	
	LAB NUMBER:	20902		20740		20740		20740		20740	
	UNITS:	µg/Kg		µg/Kg		µg/Kg		µg/l		µg/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
62-75-9	N-Nitrosodimethylamine	520	U	410	U			10	U	430	U
108-95-2	Phenol	520	U	410	U			10	U	430	U
62-53-3	Aniline	520	U	410	U			10	U	430	U
111-44-4	bis(2-Chloroethyl)Ether	520	U	410	U			10	U	430	U
95-57-8	2-Chlorophenol	520	U	410	U			10	U	430	U
541-73-1	1,3-Dichlorobenzene	520	U	410	U			10	U	430	U
106-46-7	1,4-Dichlorobenzene	520	U	410	U			10	U	430	U
100-51-6	Benzyl alcohol	520	U	410	U			10	U	430	U
95-50-1	1,2-Dichlorobenzene	520	U	410	U			10	U	430	U
95-48-7	2-Methylphenol	520	U	410	U			10	U	430	U
39638-32-9	bis(2-chloroethyl)Ether	520	U	410	U			10	U	430	U
106-44-5	4-Methylphenol	520	U	410	U			10	U	430	U
621-64-7	N-Nitroso-Di-n-Propylamine	520	U	410	U			10	U	430	U
67-72-1	Hexachloroethane	520	U	410	U			10	U	430	U
98-95-3	Nitrobenzene	520	U	410	U			10	U	430	U
78-59-1	Isophorone	520	U	410	U			10	U	430	U
88-75-5	2-Nitrophenol	520	U	410	U			10	U	430	U
105-67-9	2,4-Dimethylphenol	520	U	410	U			10	U	430	U
65-?5-0	Benzoic Acid	2500	U	2000	U			50	U	2100	U
111-91-1	Bis(2-chloroethoxy)methane	520	U	410	U			10	U	430	U
120-83-2	2,4-Dichlorophenol	520	U	410	U			10	U	430	U
120-82-1	1,2,4-Trichlorobenzene	520	U	410	U			10	U	430	U
91-20-3	Naphthalene	520	U	410	U			10	U	430	U
106-47-8	4-Chloroaniline	520	U	410	U			10	U	430	U

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: SEDIMENTS AND SURFACE WATER

	A:\MPTDAT3.WK1										
	LOCATION:	MPT-2-SD-8		MPT-2-SD-9		MPT-2-SD-9DL		MPT-2-SW-9		MPT-13-SD-1	
	SAMPLE MATRIX:	SOIL		SOIL		SOIL		WATER		SOIL	
	DATE SAMPLED:	02/12/92		01/23/92		01/23/92		01/23/92		01/23/92	
	LAB NUMBER:	20902		20740		20740		20740		20740	
	UNITS:	µg/Kg		µg/Kg		µg/Kg		µg/l		µg/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
87-68-3	Hexachlorobutadiene	520	U	410	U			10	U	430	U
59-50-7	4-Chloro-3-Methylphenol	520	U	410	U			10	U	430	U
91-57-6	2-Methylnaphthalene	520	U	410	U			10	U	430	U
77-47-4	Hexachlorocyclopentadiene	520	U	410	U			10	U	430	U
88-06-2	2,4,6-Trichlorophenol	520	U	410	U			10	U	430	U
95-95-4	2,4,5-Trichlorophenol	2500	U	2000	U			50	U	2100	U
91-58-7	2-Chloronaphthalene	520	U	410	U			10	U	430	U
88-74-4	2-Nitroaniline	2500	U	2000	U			50	U	2100	U
131-11-3	Dimethyl phthalate	520	U	410	U			10	U	430	U
208-96-8	Acenaphthylene	520	U	410	U			10	U	430	U
606-20-2	2,6-Dinitrotoluene	520	U	410	U			10	U	430	U
99-09-2	3-Nitroaniline	2500	U	2000	U			50	U	2100	U
83-32-9	Acenaphthene	520	U	410	U			10	U	430	U
51-28-5	2,4-Dinitrophenol	2500	U	2000	U			50	U	2100	U
100-02-7	4-Nitrophenol	2500	U	2000	U			50	U	2100	U
132-64-9	Dibenzofuran	520	U	410	U			10	U	430	U
121-14-2	2,4-Dinitrotoluene	520	U	410	U			10	U	430	U
84-66-2	Diethyl phthalate	520	U	410	U			10	U	430	U
7005-72-3	4-Chlorophenyl phenyl ether	520	U	410	U			10	U	430	U
86-73-7	Fluorene	520	U	410	U			10	U	430	U
100-10-6	4-Nitroaniline	2500	U	2000	U			50	U	2100	U
534-52-1	4,6-Dinitro-2-Methylphenol	2500	U	2000	U			50	U	2100	U
86-30-6	N-Nitrosodiphenylamine	520	U	410	U			10	U	430	U
122-66-7	1,2-Diphenylhydrazine	520	U	410	U			10	U	430	U

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: SEDIMENTS AND SURFACE WATER

	A:\MPTDAT3.WK1										
	LOCATION:	MPT-2-SD-8		MPT-2-SD-9		MPT-2-SD-9DL		MPT-2-SW-9		MPT-13-SD-1	
	SAMPLE MATRIX:	SOIL		SOIL		SOIL		WATER		SOIL	
	DATE SAMPLED:	02/12/92		01/23/92		01/23/92		01/23/92		01/23/92	
	LAB NUMBER:	20902		20740		20740		20740		20740	
	UNITS:	µg/Kg		µg/Kg		µg/Kg		µg/l		µg/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
101-55-3	4-Bromophenyl phenyl ether	520	U	410	U			10	U	430	U
118-74-1	Hexachlorobenzene	520	U	410	U			10	U	430	U
87-86-5	Pentachlorophenol	2500	U	2000	U			50	U	2100	U
85-01-8	Phenanthrene	520	U	100	J			10	U	430	U
120-12-7	Anthracene	520	U	410	U			10	U	430	U
84-74-2	Di-n-butyl phthalate	78	J	410	BU			2	BJ	48	BJ
206-44-0	Fluoranthene	520	U	150	J			10	U	53	J
129-00-0	Pyrene	520	U	100	J			10	U	51	J
85-68-7	Butyl benzyl phthalate	520	U	410	U			10	U	430	U
91-94-1	3,3'-Dichlorobenzidine	1000	U	810	U			20	U	870	U
56-55-3	Benzo[a]anthracene	520	U	410	U			10	U	430	U
218-01-9	Chrysene	520	U	65	J			10	U	59	J
117-81-7	Bis(2-ethylhexyl) phthalate	520	U	55	J			10	U	170	J
117-84-0	Di-n-octyl phthalate	520	U	410	U			10	U	430	U
205-99-2	Benzo[b]fluoranthene	520	U	410	U			10	U	430	U
207-08-9	Benzo[k]fluoranthene	520	U	410	U			10	U	430	U
50-32-8	Benzo[a]pyrene	520	U	410	U			10	U	430	U
193-39-5	Indeno(1,2,3-cd)pyrene	520	U	410	U			10	U	430	U
53-70-3	Dibenz[a,h]anthracene	520	U	410	U			10	U	430	U
191-24-2	Benzo[ghi]perylene	520	U	410	U			10	U	430	U
109-06-8	2-Picoline	2500	U	2000	U			50	U	2100	U
66-27-3	Methyl methanesulfonate	520	U	410	U			10	U	430	U
62-50-0	Ethyl methanesulfonate	520	U	410	U			10	U	430	U
98-86-2	Acetophenone	520	U	410	U			10	U	430	U

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: SEDIMENTS AND SURFACE WATER

	A:\MPTDAT3.WK1										
	LOCATION:	MPT-2-SD-8		MPT-2-SD-9		MPT-2-SD-9DL		MPT-2-SW-9		MPT-13-SD-1	
	SAMPLE MATRIX:	SOIL		SOIL		SOIL		WATER		SOIL	
	DATE SAMPLED:	02/12/92		01/23/92		01/23/92		01/23/92		01/23/92	
	LAB NUMBER:	20902		20740		20740		20740		20740	
	UNITS:	µg/Kg		µg/Kg		µg/Kg		µg/l		µg/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
100-75-4	N-Nitrosopiperidine	520	U	410	U			10	U	430	U
122-09-8	Phenyl-tert-butylamine	2500	U	2000	U			50	U	2100	U
87-65-0	2,6-Dichlorophenol	520	U	410	U			10	U	430	U
924-16-3	N-Nitrosodi-n-butylamine	520	U	410	U			10	U	430	U
55-18-5	N-Nitrosodiethylamine	520	U	410	U			10	U	430	U
930-55-2	N-Nitrosopyrrolidine	520	U	410	U			10	U	430	U
92-87-5	Benzidine	2500	U	2000	U			50	U	2100	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2500	U	2000	U			50	U	2100	U
608-93-5	Pentachlorobenzene	2500	U	2000	U			50	U	2100	U
134-32-7	1-Naphthylamine	2500	U	2000	U			50	U	2100	U
91-59-8	2-Naphthylamine	2500	U	2000	U			50	U	2100	U
58-90-2	2,3,4,6-Tetrachlorophenol	520	U	410	U			10	U	430	U
122-39-4	Diphenylamine	520	U	410	U			10	U	430	U
62-44-2	Phenacetin	520	U	410	U			10	U	430	U
92-67-1	4-Aminobiphenyl	2500	U	2000	U			50	U	2100	U
82-68-8	Pentachloronitrobenzene	2500	U	2000	U			50	U	2100	U
23950-58-5	Pronamide	520	U	410	U			10	U	430	U
60-11-7	p-(Dimethylamino)azobenzene	520	U	410	U			10	U	430	U
57-97-6	7,12-Dimethylbenz[a]anthracene	520	U	410	U			10	U	430	U
56-49-5	Methylcholanthrene	520	U	410	U			10	U	430	U
110-86-1	Pyridine	2500	U	2000	U			50	U	2100	U
10595-95-6	N-Nitrosomethylethylamine	520	U	410	U			10	U	430	U
59-89-2	N-Nitrosomorpholine	520	U	410	U			10	U	430	U
95-53-4	o-Toluidine	520	U	410	U			10	U	430	U

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: SEDIMENTS AND SURFACE WATER

	A:\MPTDAT3.WK1										
	LOCATION:	MPT-2-SD-8		MPT-2-SD-9		MPT-2-SD-9DL		MPT-2-SW-9		MPT-13-SD-1	
	SAMPLE MATRIX:	SOIL		SOIL		SOIL		WATER		SOIL	
	DATE SAMPLED:	02/12/92		01/23/92		01/23/92		01/23/92		01/23/92	
	LAB NUMBER:	20902		20740		20740		20740		20740	
	UNITS:	µg/Kg		µg/Kg		µg/Kg		µg/l		µg/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
108-39-4	3-Methylphenol	520	U	410	U			10	U	430	U
1888-71-7	Hexachloropropene	2500	U	2000	U			50	U	2100	U
106-50-3	p-Phenylenediamine	2500	U	2000	U			50	U	2100	U
94-59-7	Safrole	2500	U	2000	U			50	U	2100	U
120-58-1	Isosafrole	2500	U	2000	U			50	U	2100	U
130-15-4	1,4-Naphthoquinone	2500	U	2000	U			50	U	2100	U
99-65-0	1,3-Dinitrobenzene	520	U	410	U			10	U	430	U
99-55-8	5-Nitro-o-toluidine	520	U	410	U			10	U	430	U
99-35-4	1,3,5-Trinitrobenzene	520	U	410	U			10	U	430	U
56-57-5	4-Nitroquinoline 1-oxide	520	U	410	U			10	U	430	U
91-80-5	Methapyrilene	2500	U	2000	U			50	U	2100	U
119-93-7	3,3'-Dimethylbenzidine	520	U	410	U			10	U	430	U
53-96-3	2-Acetylaminofluorene	520	U	410	U			10	U	430	U
70-30-4	Hexachlorophene	2500	U	2000	U			50	U	2100	U

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: SEDIMENTS AND SURFACE WATER

	A:\MPTDAT3.WK1								
	LOCATION:	MPT-13-SD-1DL		MPT-13-SD-2		MPT-13-SD-3		MPT-13-SD-3DL	
	SAMPLE MATRIX:	SOIL		SOIL		SOIL		SOIL	
	DATE SAMPLED:	01/23/92		01/23/92		01/23/92		01/23/92	
	LAB NUMBER:	20740		20740		20740		20740	
	UNITS:	µg/Kg		µg/Kg		µg/Kg		µg/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
62-75-9	N-Nitrosodimethylamine			420	U	430	U		
108-95-2	Phenol			420	U	430	U		
62-53-3	Aniline			420	U	430	U		
111-44-4	bis(2-Chloroethyl)Ether			420	U	430	U		
95-57-8	2-Chlorophenol			420	U	430	U		
541-73-1	1,3-Dichlorobenzene			420	U	430	U		
106-46-7	1,4-Dichlorobenzene			420	U	430	U		
100-51-6	Benzyl alcohol			420	U	430	U		
95-50-1	1,2-Dichlorobenzene			420	U	430	U		
95-48-7	2-Methylphenol			420	U	430	U		
39638-32-9	bis(2-chloroethyl)Ether			420	U	430	U		
106-44-5	4-Methylphenol			420	U	430	U		
621-64-7	N-Nitroso-Di-n-Propylamine			420	U	430	U		
67-72-1	Hexachloroethane			420	U	430	U		
98-95-3	Nitrobenzene			420	U	430	U		
78-59-1	Isophorone			420	U	430	U		
88-75-5	2-Nitrophenol			420	U	430	U		
105-67-9	2,4-Dimethylphenol			420	U	430	U		
65-?5-0	Benzoic Acid			2100	U	2100	U		
111-91-1	Bis(2-chloroethoxy)methane			420	U	430	U		
120-83-2	2,4-Dichlorophenol			420	U	430	U		
120-82-1	1,2,4-Trichlorobenzene			420	U	430	U		
91-20-3	Naphthalene			420	U	430	U		
106-47-8	4-Chloroaniline			420	U	430	U		

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: SEDIMENTS AND SURFACE WATER

	A:\MPTDAT3.WK1								
	LOCATION:	MPT-13-SD-1DL		MPT-13-SD-2		MPT-13-SD-3		MPT-13-SD-3DL	
	SAMPLE MATRIX:	SOIL		SOIL		SOIL		SOIL	
	DATE SAMPLED:	01/23/92		01/23/92		01/23/92		01/23/92	
	LAB NUMBER:	20740		20740		20740		20740	
	UNITS:	µg/Kg		µg/Kg		µg/Kg		µg/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
87-68-3	Hexachlorobutadiene			420	U	430	U		
59-50-7	4-Chloro-3-Methylphenol			420	U	430	U		
91-57-6	2-Methylnaphthalene			420	U	430	U		
77-47-4	Hexachlorocyclopentadiene			420	U	430	U		
88-06-2	2,4,6-Trichlorophenol			420	U	430	U		
95-95-4	2,4,5-Trichlorophenol			2100	U	2100	U		
91-58-7	2-Chloronaphthalene			420	U	430	U		
88-74-4	2-Nitroaniline			2100	U	2100	U		
131-11-3	Dimethyl phthalate			420	U	430	U		
208-96-8	Acenaphthylene			420	U	430	U		
606-20-2	2,6-Dinitrotoluene			420	U	430	U		
99-09-2	3-Nitroaniline			2100	U	2100	U		
83-32-9	Acenaphthene			420	U	430	U		
51-28-5	2,4-Dinitrophenol			2100	U	2100	U		
100-02-7	4-Nitrophenol			2100	U	2100	U		
132-64-9	Dibenzofuran			420	U	430	U		
121-14-2	2,4-Dinitrotoluene			420	U	430	U		
84-66-2	Diethyl phthalate			420	U	430	U		
7005-72-3	4-Chlorophenyl phenyl ether			420	U	430	U		
86-73-7	Fluorene			420	U	430	U		
100-10-6	4-Nitroaniline			2100	U	2100	U		
534-52-1	4,6-Dinitro-2-Methylphenol			2100	U	2100	U		
86-30-6	N-Nitrosodiphenylamine			420	U	430	U		
122-66-7	1,2-Diphenylhydrazine			420	U	430	U		

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: SEDIMENTS AND SURFACE WATER

	A:\MPTDAT3.WK1								
	LOCATION:	MPT-13-SD-1DL		MPT-13-SD-2		MPT-13-SD-3		MPT-13-SD-3DL	
	SAMPLE MATRIX:	SOIL		SOIL		SOIL		SOIL	
	DATE SAMPLED:	01/23/92		01/23/92		01/23/92		01/23/92	
	LAB NUMBER:	20740		20740		20740		20740	
	UNITS:	µg/Kg		µg/Kg		µg/Kg		µg/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
101-55-3	4-Bromophenyl phenyl ether			420	U	430	U		
118-74-1	Hexachlorobenzene			420	U	430	U		
87-86-5	Pentachlorophenol			2100	U	2100	U		
85-01-8	Phenanthrene			420	U	430	U		
120-12-7	Anthracene			420	U	430	U		
84-74-2	Di-n-butyl phthalate			49	BJ	51	BJ		
206-44-0	Fluoranthene			420	U	430	U		
129-00-0	Pyrene			420	U	430	U		
85-68-7	Butyl benzyl phthalate			420	U	430	U		
91-94-1	3,3'-Dichlorobenzidine			850	U	860	U		
56-55-3	Benzo[a]anthracene			420	U	430	U		
218-01-9	Chrysene			420	U	430	U		
117-81-7	Bis(2-ethylhexyl) phthalate			420	U	45	J		
117-84-0	Di-n-octyl phthalate			420	U	430	U		
205-99-2	Benzo[b]fluoranthene			420	U	430	U		
207-08-9	Benzo[k]fluoranthene			420	U	430	U		
50-32-8	Benzo[a]pyrene			420	U	430	U		
193-39-5	Indeno(1,2,3-cd)pyrene			420	U	430	U		
53-70-3	Dibenz[a,h]anthracene			420	U	430	U		
191-24-2	Benzo[ghi]perylene			420	U	430	U		
109-06-8	2-Picoline			2100	U	2100	U		
66-27-3	Methyl methanesulfonate			420	U	430	U		
62-50-0	Ethyl methanesulfonate			420	U	430	U		
98-86-2	Acetophenone			420	U	430	U		

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: SEDIMENTS AND SURFACE WATER

	A:\MPTDAT3.WK1								
	LOCATION:	MPT-13-SD-1DL		MPT-13-SD-2		MPT-13-SD-3		MPT-13-SD-3DL	
	SAMPLE MATRIX:	SOIL		SOIL		SOIL		SOIL	
	DATE SAMPLED:	01/23/92		01/23/92		01/23/92		01/23/92	
	LAB NUMBER:	20740		20740		20740		20740	
	UNITS:	µg/Kg		µg/Kg		µg/Kg		µg/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
100-75-4	N-Nitrosopiperidine			420	U	430	U		
122-09-8	Phenyl-tert-butylamine			2100	U	2100	U		
87-65-0	2,6-Dichlorophenol			420	U	430	U		
924-16-3	N-Nitrosodi-n-butylamine			420	U	430	U		
55-18-5	N-Nitrosodiethylamine			420	U	430	U		
930-55-2	N-Nitrosopyrrolidine			420	U	430	U		
92-87-5	Benzidine			2100	U	2100	U		
95-94-3	1,2,4,5-Tetrachlorobenzene			2100	U	2100	U		
608-93-5	Pentachlorobenzene			2100	U	2100	U		
134-32-7	1-Naphthylamine			2100	U	2100	U		
91-59-8	2-Naphthylamine			2100	U	2100	U		
58-90-2	2,3,4,6-Tetrachlorophenol			420	U	430	U		
122-39-4	Diphenylamine			420	U	430	U		
62-44-2	Phenacetin			420	U	430	U		
92-67-1	4-Aminobiphenyl			2100	U	2100	U		
82-68-8	Pentachloronitrobenzene			2100	U	2100	U		
23950-58-5	Pronamide			420	U	430	U		
60-11-7	p-(Dimethylamino)azobenzene			420	U	430	U		
57-97-6	7,12-Dimethylbenz[a]anthracene			420	U	430	U		
56-49-5	Methylcholanthrene			420	U	430	U		
110-86-1	Pyridine			2100	U	2100	U		
10595-95-6	N-Nitrosomethylethylamine			420	U	430	U		
59-89-2	N-Nitrosomorpholine			420	U	430	U		
95-53-4	o-Toluidine			420	U	430	U		

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: SEDIMENTS AND SURFACE WATER

	A:\MPTDAT3.WK1								
	LOCATION:	MPT-13-SD-1DL		MPT-13-SD-2		MPT-13-SD-3		MPT-13-SD-3DL	
	SAMPLE MATRIX:	SOIL		SOIL		SOIL		SOIL	
	DATE SAMPLED:	01/23/92		01/23/92		01/23/92		01/23/92	
	LAB NUMBER:	20740		20740		20740		20740	
	UNITS:	µg/Kg		µg/Kg		µg/Kg		µg/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
108-39-4	3-Methylphenol			420	U	430	U		
1888-71-7	Hexachloropropene			2100	U	2100	U		
106-50-3	p-Phenylenediamine			2100	U	2100	U		
94-59-7	Safrole			2100	U	2100	U		
120-58-1	Isosafrole			2100	U	2100	U		
130-15-4	1,4-Naphthoquinone			2100	U	2100	U		
99-65-0	1,3-Dinitrobenzene			420	U	430	U		
99-55-8	5-Nitro-o-toluidine			420	U	430	U		
99-35-4	1,3,5-Trinitrobenzene			420	U	430	U		
56-57-5	4-Nitroquinoline 1-oxide			420	U	430	U		
91-80-5	Methapyrilene			2100	U	2100	U		
119-93-7	3,3'-Dimethylbenzidine			420	U	430	U		
53-96-3	2-Acetylaminofluorene			420	U	430	U		
70-30-4	Hexachlorophene			2100	U	2100	U		

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: SEDIMENTS AND SURFACE WATER

	A:\MPTDAT4.WK1		
	LOCATION:	MPT-2-SW-8	
	SAMPLE MATRIX:	WATER	
	DATE SAMPLED:	02/12/92	
	LAB NUMBER:	20902	
	UNITS:	µg/l	
CAS RN	Common name	Conc.	Qual.
62-75-9	N-Nitrosodimethylamine	10	U
108-95-2	Phenol	10	U
62-53-3	Aniline	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
39638-32-9	bis(2-chloroethyl)Ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-?5-0	Benzoic Acid	50	U
111-91-1	Bis(2-chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: SEDIMENTS AND SURFACE WATER

	A:\MPTDAT4.WK1		
	LOCATION:	MPT-2-SW-8	
	SAMPLE MATRIX:	WATER	
	DATE SAMPLED:	02/12/92	
	LAB NUMBER:	20902	
	UNITS:	µg/l	
CAS RN	Common name	Conc.	Qual.
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethyl phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethyl phthalate	10	U
7005-72-3	4-Chlorophenyl phenyl ether	10	U
86-73-7	Fluorene	10	U
100-10-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-Methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine	10	U
122-66-7	1,2-Diphenylhydrazine	10	U

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: SEDIMENTS AND SURFACE WATER

	A:\MPTDAT4.WK1		
	LOCATION:	MPT-2-SW-8	
	SAMPLE MATRIX:	WATER	
	DATE SAMPLED:	02/12/92	
	LAB NUMBER:	20902	
	UNITS:	µg/l	
CAS RN	Common name	Conc.	Qual.
101-55-3	4-Bromophenyl phenyl ether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-butyl phthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butyl benzyl phthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo[a]anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	Bis(2-ethylhexyl) phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
205-99-2	Benzo[b]fluoranthene	10	U
207-08-9	Benzo[k]fluoranthene	10	U
50-32-8	Benzo[a]pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz[a,h]anthracene	10	U
191-24-2	Benzo[ghi]perylene	10	U
109-06-8	2-Picoline	50	U
66-27-3	Methyl methanesulfonate	10	U
62-50-0	Ethyl methanesulfonate	10	U
98-86-2	Acetophenone	10	U

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: SEDIMENTS AND SURFACE WATER

	A:\MPTDAT4.WK1		
	LOCATION:	MPT-2-SW-8	
	SAMPLE MATRIX:	WATER	
	DATE SAMPLED:	02/12/92	
	LAB NUMBER:	20902	
	UNITS:	µg/l	
CAS RN	Common name	Conc.	Qual.
100-75-4	N-Nitrosopiperidine	10	U
122-09-8	Phenyl-tert-butylamine	50	U
87-65-0	2,6-Dichlorophenol	10	U
924-16-3	N-Nitrosodi-n-butylamine	10	U
55-18-5	N-Nitrosodiethylamine	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
92-87-5	Benzidine	50	U
95-94-3	1,2,4,5-Tetrachlorobenzene	50	U
608-93-5	Pentachlorobenzene	50	U
134-32-7	1-Naphthylamine	50	U
91-59-8	2-Naphthylamine	50	U
58-90-2	2,3,4,6-Tetrachlorophenol	10	U
122-39-4	Diphenylamine	10	U
62-44-2	Phenacetin	10	U
92-67-1	4-Aminobiphenyl	50	U
82-68-8	Pentachloronitrobenzene	50	U
23950-58-5	Pronamide	10	U
60-11-7	p-(Dimethylamino)azobenzene	10	U
57-97-6	7,12-Dimethylbenz[a]anthracene	10	U
56-49-5	Methylcholanthrene	10	U
110-86-1	Pyridine	50	U
10595-95-6	N-Nitrosomethylethylamine	10	U
59-89-2	N-Nitrosomorpholine	10	U
95-53-4	o-Toluidine	10	U

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: SEDIMENTS AND SURFACE WATER

	A:\MPTDAT4.WK1		
	LOCATION:	MPT-2-SW-8	
	SAMPLE MATRIX:	WATER	
	DATE SAMPLED:	02/12/92	
	LAB NUMBER:	20902	
	UNITS:	µg/l	
CAS RN	Common name	Conc.	Qual.
108-39-4	3-Methylphenol	10	U
1888-71-7	Hexachloropropene	50	U
106-50-3	p-Phenylenediamine	50	U
94-59-7	Safrole	50	U
120-58-1	Isosafrole	50	U
130-15-4	1,4-Naphthoquinone	50	U
99-65-0	1,3-Dinitrobenzene	10	U
99-55-8	5-Nitro-o-toluidine	10	U
99-35-4	1,3,5-Trinitrobenzene	10	U
56-57-5	4-Nitroquinoline 1-oxide	10	U
91-80-5	Methapyrilene	50	U
119-93-7	3,3'-Dimethylbenzidine	10	U
53-96-3	2-Acetylaminofluorene	10	U
70-30-4	Hexachlorophene	50	U

*Blank entries indicate that sample was not analyzed for that analyte group

PCB & CHLORINATED PESTICIDES: SEDIMENTS & SURFACE WATER

	A:\MPTDAT1.WK1										
	LOCATION:	MPT-B-SD-1		MPTBSDDUP1		MPTBSDDUP1DL		MPT-B-SW-1		MPTBSWDUP1	
	SAMPLE MATRIX:	SOIL		SOIL		SOIL		WATER		WATER	
	DATE SAMPLED:	01/21/92		01/21/92				01/21/92		01/21/92	
	LAB NUMBER:	20723		20723				20723		20723	
	UNITS:	µg/Kg		µg/Kg		µg/Kg		µg/l		µg/l	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
319-84-6	alpha-BHC	0.5	U	0.8	U	3.9	U	0.01	U	0.01	U
319-85-7	beta-BHC	1.1	U	1.6	U	7.8	U	0.02	U	0.02	U
319-86-8	delta-BHC	0.5	U	0.8	U	3.9	U	0.01	U	0.01	U
58-89-9	gamma-BHC; Lindane	0.5	U	0.8	U	3.9	U	0.01	U	0.01	U
76-44-8	Heptachlor	0.5	U	0.8	U	3.9	U	0.01	U	0.01	U
309-00-2	Aldrin	0.5	U	0.8	U	3.9	U	0.01	U	0.01	U
1024-57-3	Heptachlor epoxide	0.5	U	0.8	U	3.9	U	0.01	U	0.01	U
959-98-8	Endosulfan I	1.1	U	1.6	U	7.8	U	0.02	U	0.02	U
60-57-1	Dieldrin	1.1	U	1.6	U	7.8	U	0.02	U	0.02	U
72-55-9	4,4'-DDE	3		1.6	U	7.8	U	0.02	U	0.02	U
72-20-8	Endrin	1.1	U	1.6	U	7.8	U	0.02	U	0.02	U
33213-65-9	Endosulfan II	1.1	U	1.6	U	7.8	U	0.02	U	0.02	U
72-54-8	4,4'-DDD	1.1	U	1.6	U	7.8	U	0.02	U	0.02	U
7421-93-4	Endrin aldehyde	NR		NR		NR		NR		NR	
1031-07-8	Endosulfan sulfate	1.1	U	1.6	U	7.8	U	0.02	U	0.02	U
50-29-3	4,4'-DDT	0.8	JX	1.6	U	7.8	U	0.02	U	0.02	U
72-43-5	Methoxychlor	2.1	U	3.1	U	16	U	0.04	U	0.04	U
53494-70-5	Endrin Ketone	1.1	U	1.6	U	7.8	U	0.02	U	0.02	U
57-74-09	Chlordane	5	U	8	U	39	U	0.1	U	0.1	U
8001-35-2	Toxaphene	27	U	39	U	200	U	0.5	U	0.5	U
12674-11-2	Aroclor-1016	43	U	63	U	310	U	0.8	U	0.8	U
11104-28-2	Aroclor-1221	110	U	160	U	780	U	2	U	2	U
11141-16-5	Aroclor-1232	110	U	160	U	780	U	2	U	2	U
53469-21-9	Aroclor-1242	43	U	63	U	310	U	0.8	U	0.8	U

*Blank entries indicate that sample was not analyzed for that analyte group

PCB & CHLORINATED PESTICIDES: SEDIMENTS & SURFACE WATER

	A:\MPTDAT1.WK1										
	LOCATION:	MPT-B-SD-1		MPTBSDDUP1		MPTBSDDUP1DL		MPT-B-SW-1		MPTBSWDUP1	
	SAMPLE MATRIX:	SOIL		SOIL		SOIL		WATER		WATER	
	DATE SAMPLED:	01/21/92		01/21/92				01/21/92		01/21/92	
	LAB NUMBER:	20723		20723				20723		20723	
	UNITS:	µg/Kg		µg/Kg		µg/Kg		µg/l		µg/l	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
12672-29-6	Aroclor-1248	21	U	31	U	160	U	0.4	U	0.4	U
11097-69-1	Aroclor-1254	11	U	16	U	78	U	0.2	U	0.2	U
11096-82-5	Aroclor-1260	11	U	16	U	78	U	0.2	U	0.2	U
510-15-6	Chlorobenzilate	27	U	39	U	20	U	0.5	U	0.5	U
2303-16-4	Diallate	53	U	78	U	390	U	1	U	1	U
465-73-6	Isodrin	1.1	U	1.6	U	7.8	U	0.02	U	0.02	U
143-50-0	Kepone	NR		NR		NR		NR		NR	

*Blank entries indicate that sample was not analyzed for that analyte group

PCB & CHLORINATED PESTICIDES: SEDIMENTS & SURFACE WATER

	A:\MPTDAT1.WK1										
	LOCATION:	MPT-B-SD-2		MPT-B-SW-2		MPT-B-SD-3		MPT-B-SW-3		MPT-2-SD-4	
	SAMPLE MATRIX:	SOIL		WATER		SOIL		WATER		SOIL	
	DATE SAMPLED:	01/21/92		01/21/92		01/21/92		01/21/92		01/22/92	
	LAB NUMBER:	20723		20723		20723		20723		20722	
	UNITS:	µg/Kg		µg/l		µg/Kg		µg/l		µg/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
319-84-6	alpha-BHC	0.5	U	0.01	U	3.7	U	0.01	U	0.7	U
319-85-7	beta-BHC	1	U	0.02	U	7.4	U	0.02	U	1.3	U
319-86-8	delta-BHC	0.5	U	0.01	U	3.7	U	0.01	U	0.7	U
58-89-9	gamma-BHC; Lindane	0.5	U	0.01	U	3.7	U	0.01	U	0.7	U
76-44-8	Heptachlor	0.5	U	0.01	U	3.7	U	0.01	U	0.7	U
309-00-2	Aldrin	0.5	U	0.01	U	3.7	U	0.01	U	0.7	U
1024-57-3	Heptachlor epoxide	0.5	U	0.01	U	3.7	U	0.01	U	0.7	U
959-98-8	Endosulfan I	1	U	0.02	U	7.4	U	0.02	U	1.3	U
60-57-1	Dieldrin	1	U	0.02	U	7.4	U	0.02	U	1.3	U
72-55-9	4,4'-DDE	1	U	0.02	U	7.4	U	0.02	U	1.3	U
72-20-8	Endrin	1	U	0.02	U	7.4	U	0.02	U	1.3	U
33213-65-9	Endosulfan II	1	U	0.02	U	7.4	U	0.02	U	1.3	U
72-54-8	4,4'-DDD	1	U	0.02	U	7.4	U	0.02	U	1.3	U
7421-93-4	Endrin aldehyde	NR		NR		NR		NR		NR	
1031-07-8	Endosulfan sulfate	1	U	0.02	U	7.4	U	0.02	U	1.3	U
50-29-3	4,4'-DDT	1	U	0.02	U	7.4	U	0.02	U	1.3	U
72-43-5	Methoxychlor	2.1	U	0.04	U	15	U	0.04	U	2.7	U
53494-70-5	Endrin Ketone	1	U	0.02	U	7.4	U	0.02	U	1.3	U
57-74-09	Chlordane	5	U	0.1	U	37	U	0.1	U	7	U
8001-35-2	Toxaphene	26	U	0.5	U	180	U	0.5	U	33	U
12674-11-2	Aroclor-1016	42	U	0.8	U	300	U	0.8	U	53	U
11104-28-2	Aroclor-1221	100	U	2	U	740	U	2	U	130	U
11141-16-5	Aroclor-1232	100	U	2	U	740	U	2	U	130	U
53469-21-9	Aroclor-1242	42	U	0.8	U	300	U	0.8	U	53	U

*Blank entries indicate that sample was not analyzed for that analyte group

PCB & CHLORINATED PESTICIDES: SEDIMENTS & SURFACE WATER

	A:\MPTDAT1.WK1										
	LOCATION:	MPT-B-SD-2		MPT-B-SW-2		MPT-B-SD-3		MPT-B-SW-3		MPT-2-SD-4	
	SAMPLE MATRIX:	SOIL		WATER		SOIL		WATER		SOIL	
	DATE SAMPLED:	01/21/92		01/21/92		01/21/92		01/21/92		01/22/92	
	LAB NUMBER:	20723		20723		20723		20723		20722	
	UNITS:	µg/Kg		µg/l		µg/Kg		µg/l		µg/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
12672-29-6	Aroclor-1248	21	U	0.4	U	150	U	0.4	U	27	U
11097-69-1	Aroclor-1254	10	U	0.2	U	74	U	0.2	U	13	U
11096-82-5	Aroclor-1260	10	U	0.2	U	74	U	0.2	U	13	U
510-15-6	Chlorobenzilate	26	U	0.5	U	180	U	0.5	U	33	U
2303-16-4	Diallate	53	U	1	U	370	U	1	U	67	U
465-73-6	Isodrin	1	U	0.02	U	7.4	U	0.02	U	1.3	U
143-50-0	Kepone	NR		NR		NR		NR		NR	

*Blank entries indicate that sample was not analyzed for that analyte group

PCB & CHLORINATED PESTICIDES: SEDIMENTS & SURFACE WATER

	A:\MPTDAT1.WK1				
	LOCATION:	MPT-2-SD-4DL		MPT-2-SW-4	
	SAMPLE MATRIX:	SOIL		WATER	
	DATE SAMPLED:	01/22/92		01/22/92	
	LAB NUMBER:	20722		20722	
	UNITS:	µg/Kg		µg/l	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.
319-84-6	alpha-BHC	3.3	U	0.01	U
319-85-7	beta-BHC	6.7	U	0.02	U
319-86-8	delta-BHC	3.3	U	0.01	U
58-89-9	gamma-BHC; Lindane	3.3	U	0.01	U
76-44-8	Heptachlor	3.3	U	0.01	U
309-00-2	Aldrin	3.3	U	0.01	U
1024-57-3	Heptachlor epoxide	3.3	U	0.01	U
959-98-8	Endosulfan I	6.7	U	0.02	U
60-57-1	Dieldrin	6.7	U	0.02	U
72-55-9	4,4'-DDE	6.7	U	0.02	U
72-20-8	Endrin	6.7	U	0.02	U
33213-65-9	Endosulfan II	6.7	U	0.02	U
72-54-8	4,4'-DDD	6.7	U	0.02	U
7421-93-4	Endrin aldehyde	NR		NR	
1031-07-8	Endosulfan sulfate	6.7	U	0.02	U
50-29-3	4,4'-DDT	6.7	U	0.02	U
72-43-5	Methoxychlor	13	U	0.04	U
53494-70-5	Endrin Ketone	6.7	U	0.02	U
57-74-09	Chlordane	33	U	0.1	U
8001-35-2	Toxaphene	170	U	0.5	U
12674-11-2	Aroclor-1016	270	U	0.8	U
11104-28-2	Aroclor-1221	670	U	2	U
11141-16-5	Aroclor-1232	670	U	2	U
53469-21-9	Aroclor-1242	270	U	0.8	U

*Blank entries indicate that sample was not analyzed for that analyte group

PCB & CHLORINATED PESTICIDES: SEDIMENTS & SURFACE WATER

	A:\MPTDAT1.WK1				
	LOCATION:	MPT-2-SD-4DL		MPT-2-SW-4	
	SAMPLE MATRIX:	SOIL		WATER	
	DATE SAMPLED:	01/22/92		01/22/92	
	LAB NUMBER:	20722		20722	
	UNITS:	µg/Kg		µg/l	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.
12672-29-6	Aroclor-1248	130	U	0.4	U
11097-69-1	Aroclor-1254	67	U	0.2	U
11096-82-5	Aroclor-1260	67	U	0.2	U
510-15-6	Chlorobenzilate	170	U	0.5	U
2303-16-4	Diallate	330	U	1	U
465-73-6	Isodrin	6.7	U	0.02	U
143-50-0	Kepone	NR		NR	

*Blank entries indicate that sample was not analyzed for that analyte group

PCB & CHLORINATED PESTICIDES: SEDIMENTS AND SURFACE WATER

	A:\MPTDAT2.WK1										
	LOCATION:	MPT-2-SD-5		MPT-2-SD-5DL		MPT-2-SW-5		MPT-2-SD-6		MPT-2-SD-6DL	
	SAMPLE MATRIX:	SOIL		SOIL		WATER		SOIL		SOIL	
	DATE SAMPLED:	01/22/92		01/22/92		01/22/92		01/22/92		01/22/92	
	LAB NUMBER:	20722		20722		20722		20722		20722	
	UNITS:	µg/Kg		µg/Kg		µg/l		µg/Kg		µg/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
319-84-6	alpha-BHC	1.7	U	4.2	U	0.01	U	1.1	U	5.7	U
319-85-7	beta-BHC	3.3	U	8.3	U	0.02	U	2.3	U	11	U
319-86-8	delta-BHC	1.7	U	4.2	U	0.01	U	1.1	U	5.7	U
58-89-9	gamma-BHC; Lindane	1.7	U	4.2	U	0.01	U	1.1	U	5.7	U
76-44-8	Heptachlor	1.7	U	4.2	U	0.01	U	1.1	U	5.7	U
309-00-2	Aldrin	1.7	U	4.2	U	0.01	U	1.1	U	5.7	U
1024-57-3	Heptachlor epoxide	1.7	U	4.2	U	0.01	U	1.1	U	5.7	U
959-98-8	Endosulfan I	3.3	U	8.3	U	0.02	U	2.3	U	11	U
60-57-1	Dieldrin	3.3	U	8.3	U	0.02	U	2.3	U	11	U
72-55-9	4,4'-DDE	3.3	U	8.3	U	0.02	U	3		11	U
72-20-8	Endrin	3.3	U	8.3	U	0.02	U	2.3	U	11	U
33213-65-9	Endosulfan II	3.3	U	8.3	U	0.02	U	2.3	U	11	U
72-54-8	4,4'-DDD	6		5	JX	0.02	U	2.3	U	11	U
7421-93-4	Endrin aldehyde		NR		NR		NR		NR		NR
1031-07-8	Endosulfan sulfate	3.3	U	8.3	U	0.02	U	2.3	U	11	U
50-29-3	4,4'-DDT	56		56		0.02	U	2.3	U	11	U
72-43-5	Methoxychlor	6.7	U	17	U	0.04	U	4.6	U	23	U
53494-70-5	Endrin Ketone	3.3	U	8.3	U	0.02	U	2.3	U	11	U
57-74-09	Chlordane	17	U	42	U	0.1	U	11	U	57	U
8001-35-2	Toxaphene	83	U	210	U	0.5	U	57	U	280	U
12674-11-2	Aroclor-1016	130	U	330	U	0.8	U	91	U	460	U
11104-28-2	Aroclor-1221	330	U	830	U	2	U	230	U	1100	U
11141-16-5	Aroclor-1232	330	U	830	U	2	U	230	U	1100	U
53469-21-9	Aroclor-1242	130	U	330	U	0.8	U	91	U	460	U

*Blank entries indicate that sample was not analyzed for that analyte group

PCB & CHLORINATED PESTICIDES: SEDIMENTS AND SURFACE WATER

	A:\MPTDAT2.WK1										
	LOCATION:	MPT-2-SD-5		MPT-2-SD-5DL		MPT-2-SW-5		MPT-2-SD-6		MPT-2-SD-6DL	
	SAMPLE MATRIX:	SOIL		SOIL		WATER		SOIL		SOIL	
	DATE SAMPLED:	01/22/92		01/22/92		01/22/92		01/22/92		01/22/92	
	LAB NUMBER:	20722		20722		20722		20722		20722	
	UNITS:	µg/Kg		µg/Kg		µg/l		µg/Kg		µg/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
12672-29-6	Aroclor-1248	67	U	170	U	0.4	U	46	U	230	U
11097-69-1	Aroclor-1254	33	U	83	U	0.2	U	23	U	110	U
11096-82-5	Aroclor-1260	33	U	83	U	0.2	U	23	U	110	U
510-15-6	Chlorobenzilate	83	U	210	U	0.5	U	57	U	280	U
2303-16-4	Diallate	170	U	420	U	1	U	110	U	570	U
465-73-6	Isodrin	3.3	U	8.3	U	0.02	U	2.3	U	11	U
143-50-0	Kepone		NR		NR		NR		NR		NR

*Blank entries indicate that sample was not analyzed for that analyte group

PCB & CHLORINATED PESTICIDES: SEDIMENTS AND SURFACE WATER

	A:\MPTDAT2.WK1										
	LOCATION:	MPT-2-SW-6		MPT-2-SD-7		MPT-2-SD-7A		MPT-2-SD-7DL		MPT-2-SD-7ADL	
	SAMPLE MATRIX:	WATER		SOIL		SOIL		SOIL		SOIL	
	DATE SAMPLED:	01/22/92		01/23/92		01/23/92		01/23/92		01/23/92	
	LAB NUMBER:	20722		20740		20740		20740		20740	
	UNITS:	µg/l		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
319-84-6	alpha-BHC	0.01	U	0.6	U	0.6	U	3.2	U	3	U
319-85-7	beta-BHC	0.02	U	1.3	U	1.2	U	6.3	U	6	U
319-86-8	delta-BHC	0.01	U	0.6	U	0.6	U	3.2	U	3	U
58-89-9	gamma-BHC; Lindane	0.01	U	0.6	U	0.6	U	3.2	U	3	U
76-44-8	Heptachlor	0.01	U	0.6	U	0.6	U	3.2	U	3	U
309-00-2	Aldrin	0.01	U	0.6	U	0.6	U	3.2	U	3	U
1024-57-3	Heptachlor epoxide	0.01	U	0.6	U	0.6	U	3.2	U	3	U
959-98-8	Endosulfan I	0.02	U	1.3	U	1.2	U	6.3	U	6	U
60-57-1	Dieldrin	0.02	U	1.3	U	1.2	U	6.3	U	6	U
72-55-9	4,4'-DDE	0.02	U	3.4		3.6	U	3.5	JX	4.1	JX
72-20-8	Endrin	0.02	U	1.3	U	1.2	U	6.3	U	6	U
33213-65-9	Endosulfan II	0.02	U	1.3	U	1.2	U	6.3	U	6	U
72-54-8	4,4'-DDD	0.02	U	1.3	JX	1.5	U	6.3	U	6	U
7421-93-4	Endrin aldehyde		NR		NR		NR		NR		NR
1031-07-8	Endosulfan sulfate	0.02	U	1.3	U	1.2	U	6.3	U	6	U
50-29-3	4,4'-DDT	0.02	U	1.3	U	1.2	U	6.3	U	6	U
72-43-5	Methoxychlor	0.04	U	2.5	U	2.4	U	13	U	12	U
53494-70-5	Endrin Ketone	0.02	U	1.3	U	1.2	U	6.3	U	6	U
57-74-09	Chlordane	0.1	U	6.3	U	6	U	32	U	30	U
8001-35-2	Toxaphene	0.5	U	32	U	30	U	160	U	150	U
12674-11-2	Aroclor-1016	0.8	U	51	U	48	U	250	U	240	U
11104-28-2	Aroclor-1221	2	U	130	U	120	U	630	U	600	U
11141-16-5	Aroclor-1232	2	U	130	U	120	U	630	U	600	U
53469-21-9	Aroclor-1242	0.8	U	51	U	48	U	250	U	240	U

*Blank entries indicate that sample was not analyzed for that analyte group

PCB & CHLORINATED PESTICIDES: SEDIMENTS AND SURFACE WATER

	A:\MPTDAT2.WK1										
	LOCATION:	MPT-2-SW-6		MPT-2-SD-7		MPT-2-SD-7A		MPT-2-SD-7DL		MPT-2-SD-7ADL	
	SAMPLE MATRIX:	WATER		SOIL		SOIL		SOIL		SOIL	
	DATE SAMPLED:	01/22/92		01/23/92		01/23/92		01/23/92		01/23/92	
	LAB NUMBER:	20722		20740		20740		20740		20740	
	UNITS:	µg/l		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
12672-29-6	Aroclor-1248	0.4	U	25	U	24	U	130	U	120	U
11097-69-1	Aroclor-1254	0.2	U	13	U	12	U	63	U	60	U
11096-82-5	Aroclor-1260	0.2	U	13	U	12	U	63	U	60	U
510-15-6	Chlorobenzilate	0.5	U	32	U	30	U	160	U	150	U
2303-16-4	Diallate	1	U	63	U	60	U	320	U	300	U
465-73-6	Isodrin	0.02	U	1.3	U	1.2	U	6.3	U	6	U
143-50-0	Kepone		NR		NR		NR		NR		NR

*Blank entries indicate that sample was not analyzed for that analyte group

PCB & CHLORINATED PESTICIDES: SEDIMENTS AND SURFACE WATER

	A:\MPTDAT2.WK1				
	LOCATION:	MPT-2-SW-7		MPT-2-SW-7A	
	SAMPLE MATRIX:	WATER		WATER	
	DATE SAMPLED:	01/23/92		01/23/92	
	LAB NUMBER:	20740		20740	
	UNITS:	µg/l		µg/l	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.
319-84-6	alpha-BHC	0.01	U	0.01	U
319-85-7	beta-BHC	0.02	U	0.02	U
319-86-8	delta-BHC	0.01	U	0.01	U
58-89-9	gamma-BHC; Lindane	0.01	U	0.01	U
76-44-8	Heptachlor	0.01	U	0.01	U
309-00-2	Aldrin	0.01	U	0.01	U
1024-57-3	Heptachlor epoxide	0.01	U	0.01	U
959-98-8	Endosulfan I	0.02	U	0.02	U
60-57-1	Dieldrin	0.02	U	0.02	U
72-55-9	4,4'-DDE	0.02	U	0.02	U
72-20-8	Endrin	0.02	U	0.02	U
33213-65-9	Endosulfan II	0.02	U	0.02	U
72-54-8	4,4'-DDD	0.02	U	0.02	U
7421-93-4	Endrin aldehyde		NR		NR
1031-07-8	Endosulfan sulfate	0.02	U	0.02	U
50-29-3	4,4'-DDT	0.02	U	0.02	U
72-43-5	Methoxychlor	0.04	U	0.04	U
53494-70-5	Endrin Ketone	0.02	U	0.02	U
57-74-09	Chlordane	0.1	U	0.1	U
8001-35-2	Toxaphene	0.5	U	0.5	U
12674-11-2	Aroclor-1016	0.8	U	0.8	U
11104-28-2	Aroclor-1221	2	U	2	U
11141-16-5	Aroclor-1232	2	U	2	U
53469-21-9	Aroclor-1242	0.8	U	0.8	U

*Blank entries indicate that sample was not analyzed for that analyte group

PCB & CHLORINATED PESTICIDES: SEDIMENTS AND SURFACE WATER

	A:\MPTDAT2.WK1				
	LOCATION:	MPT-2-SW-7		MPT-2-SW-7A	
	SAMPLE MATRIX:	WATER		WATER	
	DATE SAMPLED:	01/23/92		01/23/92	
	LAB NUMBER:	20740		20740	
	UNITS:	µg/l		µg/l	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.
12672-29-6	Aroclor-1248	0.4	U	0.4	U
11097-69-1	Aroclor-1254	0.2	U	0.2	U
11096-82-5	Aroclor-1260	0.2	U	0.2	U
510-15-6	Chlorobenzilate	0.5	U	0.5	U
2303-16-4	Diallate	1	U	1	U
465-73-6	Isodrin	0.02	U	0.02	U
143-50-0	Kepone		NR		NR

*Blank entries indicate that sample was not analyzed for that analyte group

PCB & CHLORINATED PESTICIDES: SEDIMENTS AND SURFACE WATER

	A:\MPTDAT3.WK1										
	LOCATION:	MPT-2-SD-8		MPT-2-SD-9		MPT-2-SD-9DL		MPT-2-SW-9		MPT-13-SD-1	
	SAMPLE MATRIX:	SOIL		SOIL		SOIL		WATER		SOIL	
	DATE SAMPLED:	02/12/92		01/23/92		01/23/92		01/23/92		01/23/92	
	LAB NUMBER:	20902		20740		20740		20740		20740	
	UNITS:	µg/Kg		µg/Kg		µg/Kg		µg/l		µg/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
319-84-6	alpha-BHC	0.6	U	0.5	U	2.5	U	0.01	U	0.5	U
319-85-7	beta-BHC	1.2	U	1	U	4.9	U	0.02	U	1.1	U
319-86-8	delta-BHC	0.6	U	0.5	U	2.5	U	0.01	U	0.5	U
58-89-9	gamma-BHC; Lindane	0.6	U	0.5	U	2.5	U	0.01	U	0.5	U
76-44-8	Heptachlor	0.6	U	0.5	U	2.5	U	0.01	U	0.5	U
309-00-2	Aldrin	0.6	U	0.5	U	2.5	U	0.01	U	0.5	U
1024-57-3	Heptachlor epoxide	0.6	U	0.5	U	2.5	U	0.01	U	0.5	U
959-98-8	Endosulfan I	1.2	U	1	U	4.9	U	0.02	U	1.1	U
60-57-1	Dieldrin	1.2	U	1	U	4.9	U	0.02	U	1.1	U
72-55-9	4,4'-DDE	1.2	U	1.5		4.9	U	0.02	U	1.2	
72-20-8	Endrin	1.2	U	1	U	4.9	U	0.02	U	1.1	U
33213-65-9	Endosulfan II	1.2	U	1	U	4.9	U	0.02	U	1.1	U
72-54-8	4,4'-DDD	1.2	U	1.7		2.6	JX	0.02	U	1.1	U
7421-93-4	Endrin aldehyde	1.2	U	1	U	4.9	U	0.02	U	1.1	U
1031-07-8	Endosulfan sulfate	1.2	U	1	U	4.9	U	0.02	U	1.1	U
50-29-3	4,4'-DDT	1.2	U	1	U	4.9	U	0.02	U	1.1	U
72-43-5	Methoxychlor	2.5	U	4	U	9.8	U	0.04	U	2.2	U
53494-70-5	Endrin Ketone	1.2	U	1	U	4.9	U	0.02	U	1.1	U
57-74-09	Chlordane	6	U	4.9	U	25	U	0.1	U	9.4	
8001-35-2	Toxaphene	31	U	25	U	120	U	0.5	U	26	U
12674-11-2	Aroclor-1016	50	U	40	U	200	U	0.8	U	42	U
11104-28-2	Aroclor-1221	120	U	99	U	490	U	2	U	110	U
11141-16-5	Aroclor-1232	120	U	99	U	490	U	2	U	110	U
53469-21-9	Aroclor-1242	50	U	40	U	200	U	0.8	U	42	U

*Blank entries indicate that sample was not analyzed for that analyte group

PCB & CHLORINATED PESTICIDES: SEDIMENTS AND SURFACE WATER

	A:\MPTDAT3.WK1										
	LOCATION:	MPT-2-SD-8		MPT-2-SD-9		MPT-2-SD-9DL		MPT-2-SW-9		MPT-13-SD-1	
	SAMPLE MATRIX:	SOIL		SOIL		SOIL		WATER		SOIL	
	DATE SAMPLED:	02/12/92		01/23/92		01/23/92		01/23/92		01/23/92	
	LAB NUMBER:	20902		20740		20740		20740		20740	
	UNITS:	µg/Kg		µg/Kg		µg/Kg		µg/l		µg/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
12672-29-6	Aroclor-1248	25	U	20	U	99	U	0.4	U	21	U
11097-69-1	Aroclor-1254	12	U	9.9	U	49	U	0.2	U	11	U
11096-82-5	Aroclor-1260	12	U	9.9	U	49	U	0.2	U	11	U
510-15-6	Chlorobenzilate	31	U	25	U	123	U	0.5	U	26	U
2303-16-4	Diallate	62	U	49	U	250	U	1	U	53	U
465-73-6	Isodrin	1.2	U	1	U	4.9	U	0.02	U	1.1	U
143-50-0	Kepone	NR		NR		NR		NR		NR	

*Blank entries indicate that sample was not analyzed for that analyte group

PCB & CHLORINATED PESTICIDES: SEDIMENTS AND SURFACE WATER

	A:\MPTDAT3.WK1								
	LOCATION:	MPT-13-SD-1DL		MPT-13-SD-2		MPT-13-SD-3		MPT-13-SD-3DL	
	SAMPLE MATRIX:	SOIL		SOIL		SOIL		SOIL	
	DATE SAMPLED:	01/23/92		01/23/92		01/23/92		01/23/92	
	LAB NUMBER:	20740		20740		20740		20740	
	UNITS:	µg/Kg		µg/Kg		µg/Kg		µg/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
319-84-6	alpha-BHC	2.6	U	0.5	U	0.5	U	2.6	U
319-85-7	beta-BHC	5.3	U	1.3	U	1.1	U	5.3	U
319-86-8	delta-BHC	2.6	U	0.5	U	0.5	U	2.6	U
58-89-9	gamma-BHC; Lindane	2.6	U	0.5	U	0.5	U	2.6	U
76-44-8	Heptachlor	2.6	U	0.5	U	0.5	U	2.6	U
309-00-2	Aldrin	2.6	U	0.5	U	0.5	U	2.6	U
1024-57-3	Heptachlor epoxide	2.6	U	0.5	U	0.5	U	2.6	U
959-98-8	Endosulfan I	5.3	U	1.3	U	1.1	U	5.3	U
60-57-1	Dieldrin	5.3	U	1.3	U	1.1	U	5.3	U
72-55-9	4,4'-DDE	5.3	U	1.3	U	2.4		2.4	JX
72-20-8	Endrin	5.3	U	1.3	U	1.1	U	5.3	U
33213-65-9	Endosulfan II	5.3	U	1.3	U	1.1	U	5.3	U
72-54-8	4,4'-DDD	5.3	U	1.3	U	2.8		4.1	JX
7421-93-4	Endrin aldehyde	5.3	U	1.3	U	1.1	U	5.3	U
1031-07-8	Endosulfan sulfate	5.3	U	1.3	U	1.1	U	5.3	U
50-29-3	4,4'-DDT	5.3	U	1.3	U	1.1	U	5.3	U
72-43-5	Methoxychlor	11	U	2.6	U	2.1	U	11	U
53494-70-5	Endrin Ketone	5.3	U	1.3	U	1.1	U	5.3	U
57-74-09	Chlordane	26	U	5.1	U	11	U	26	U
8001-35-2	Toxaphene	130	U	26	U	226	U	130	U
12674-11-2	Aroclor-1016	210	U	41	U	42	U	210	U
11104-28-2	Aroclor-1221	530	U	100	U	110	U	530	U
11141-16-5	Aroclor-1232	530	U	100	U	110	U	530	U
53469-21-9	Aroclor-1242	210	U	41	U	42	U	210	U

*Blank entries indicate that sample was not analyzed for that analyte group

PCB & CHLORINATED PESTICIDES: SEDIMENTS AND SURFACE WATER

	A:\MPTDAT3.WK1							
	LOCATION:	MPT-13-SD-1DL		MPT-13-SD-2		MPT-13-SD-3		MPT-13-SD-3DL	
	SAMPLE MATRIX:	SOIL		SOIL		SOIL		SOIL	
	DATE SAMPLED:	01/23/92		01/23/92		01/23/92		01/23/92	
	LAB NUMBER:	20740		20740		20740		20740	
	UNITS:	µg/Kg		µg/Kg		µg/Kg		µg/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
12672-29-6	Aroclor-1248	110	U	21	U	21	U	110	U
11097-69-1	Aroclor-1254	53	U	10	U	11	U	53	U
11096-82-5	Aroclor-1260	53	U	10	U	11	U	53	U
510-15-6	Chlorobenzilate	130	U	26	U	26	U	130	U
2303-16-4	Diallate	260	U	51	U	53	U	260	U
465-73-6	Isodrin	5.3	U	1	U	1.1	U	5.3	U
143-50-0	Kepone	NR		NR		NR		NR	

*Blank entries indicate that sample was not analyzed for that analyte group

PCB & CHLORINATED PESTICIDES: SEDIMENTS AND SURFACE WATER

	A:\MPTDAT4.WK1		
	LOCATION:	MPT-2-SW-8	
	SAMPLE MATRIX:	WATER	
	DATE SAMPLED:	02/12/92	
	LAB NUMBER:	20902	
	UNITS:	µg/l	
CAS RN	Common name	Conc.	Qual.
319-84-6	alpha-BHC	0.01	U
319-85-7	beta-BHC	0.02	U
319-86-8	delta-BHC	0.01	U
58-89-9	gamma-BHC; Lindane	0.01	U
76-44-8	Heptachlor	0.01	U
309-00-2	Aldrin	0.01	U
1024-57-3	Heptachlor epoxide	0.01	U
959-98-8	Endosulfan I	0.02	U
60-57-1	Dieldrin	0.02	U
72-55-9	4,4'-DDE	0.02	U
72-20-8	Endrin	0.02	U
33213-65-9	Endosulfan II	0.02	U
72-54-8	4,4'-DDD	0.02	U
7421-93-4	Endrin aldehyde	0.02	U
1031-07-8	Endosulfan sulfate	0.02	U
50-29-3	4,4'-DDT	0.02	U
72-43-5	Methoxychlor	0.04	U
53494-70-5	Endrin Ketone	0.02	U
57-74-09	Chlordane	0.1	U
8001-35-2	Toxaphene	0.5	U
12674-11-2	Aroclor-1016	0.8	U
11104-28-2	Aroclor-1221	2	U
11141-16-5	Aroclor-1232	2	U
53469-21-9	Aroclor-1242	0.8	U

*Blank entries indicate that sample was not analyzed for that analyte group

PCB & CHLORINATED PESTICIDES: SEDIMENTS AND SURFACE WATER

	A:\MPTDAT4.WK1		
	LOCATION:	MPT-2-SW-8	
	SAMPLE MATRIX:	WATER	
	DATE SAMPLED:	02/12/92	
	LAB NUMBER:	20902	
	UNITS:	µg/l	
CAS RN	Common name	Conc.	Qual.
12672-29-6	Aroclor-1248	0.4	U
11097-69-1	Aroclor-1254	0.2	U
11096-82-5	Aroclor-1260	0.2	U
510-15-6	Chlorobenzilate	0.5	U
2303-16-4	Diallate	1	U
465-73-6	Isodrin	0.02	U
143-50-0	Kepone	NR	

*Blank entries indicate that sample was not analyzed for that analyte group

METALS & CYANIDE: SEDIMENTS & SURFACE WATER

	A:\MPTDAT1.WK1										
	LOCATION:	MPT-B-SD-1		MPTBSDDUP1		MPTBSDDUP1DL		MPT-B-SW-1		MPTBSWDUP1	
	SAMPLE MATRIX:	SOIL		SOIL		SOIL		WATER		WATER	
	DATE SAMPLED:	01/21/92		01/21/92				01/21/92		01/21/92	
	LAB NUMBER:	20723		20723				20723		20723	
	UNITS:	mg/Kg		mg/Kg		mg/Kg		µg/l		µg/l	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
7440-36-0	Antimony	11.4	U	16.4	U			40	U	40	U
7440-38-2	Arsenic	0.68	B	6.6				1.2	B	1.4	B
7440-39-3	Barium	3.6	B	15.2	B			11.1	B	15.4	B
7440-41-7	Beryllium	0.059	B	0.54	B			0.1	U	0.1	U
7440-43-9	Cadmium	0.46	U	0.66	U			1.6	U	2.4	B
7440-47-3	Chromium	2.5	B	26.6				1.9	U	4	B
7440-48-4	Cobalt	2.1	B	4.9	B			5.1	U	9.7	B
7440-50-8	Copper	2	B	3.5	B			1.4	U	1.4	U
7440-92-1	Lead	3.4		10				1.3	B	1.5	B
7440-97-6	Mercury	0.078	U	0.13	U			0.16	U	0.16	U
7440-02-0	Nickel	2	U	6.4	B			7	U	7	U
7440-49-2	Selenium	0.39	B	0.62	B			2.6	B	1.3	U
7440-22-4	Silver	0.66	U	0.95	U			2.3	U	2.3	U
7440-28-0	Thallium	0.4	U	0.58	U			1.4	U	1.4	U
7440-31-5	Tin	59.1	U	85.4	U			208	U	208	U
7440-62-2	Vanadium	2.2	B	26.2				3.6	B	2.7	U
7440-66-6	Zinc	7.7		32.1				6.1	B	8.4	B
	Cyanide		NR		NR			3	B	1.8	U

*Blank entries indicate that sample was not analyzed for that analyte group

METALS & CYANIDE: SEDIMENTS & SURFACE WATER

	A:\MPTDAT1.WK1										
	LOCATION:	MPT-B-SD-2		MPT-B-SW-2		MPT-B-SD-3		MPT-B-SW-3		MPT-2-SD-4	
	SAMPLE MATRIX:	SOIL		WATER		SOIL		WATER		SOIL	
	DATE SAMPLED:	01/21/92		01/21/92		01/21/92		01/21/92		01/22/92	
	LAB NUMBER:	20723		20723		20723		20723		20722	
	UNITS:	mg/Kg		µg/l		mg/Kg		µg/l		mg/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
7440-36-0	Antimony	11	U	40	U	18.2	U	57.5	B	18.8	B
7440-38-2	Arsenic	0.21	U	0.86	B	4.2	B	1.2	B	5.1	
7440-39-3	Barium	7.4	B	12.3	B	16.1		15.4	B	15.9	B
7440-41-7	Beryllium	0.045	B	0.1	U	0.59		0.1	U	0.35	B
7440-43-9	Cadmium	0.44	U	1.6	U	0.82		1.6	U	0.55	U
7440-47-3	Chromium	4.4		1.9	U	28.1		1.9	U	24	
7440-48-4	Cobalt	1.5	B	5.6	B	6.4		9.7	B	5	B
7440-50-8	Copper	2.3	B	37.2		3.1		2.4	B	14.2	
7440-92-1	Lead	3		0.78	U	8.5		0.91	B	29.1	
7440-97-6	Mercury	0.068	U	0.16	U	0.15		0.16	U	0.39	
7440-02-0	Nickel	5.5	B	19.8	B	7.1		7	U	7.5	B
7440-49-2	Selenium	0.32	B	1.1	U	0.52		1.8	B	0.43	B
7440-22-4	Silver	0.64	U	2.3	U	1.1		2.3	U	0.79	U
7440-28-0	Thallium	0.39	U	1.4	U	0.64		1.4	U	0.48	U
7440-31-5	Tin	57.3	U	208	U	94.8		208	U	71.2	U
7440-62-2	Vanadium	3.7	B	2.7	U	28.4		2.7	U	24.4	
7440-66-6	Zinc	6.1		23.5		26.7		10.7	B	59.7	
	Cyanide		NR	1.8	U		NR	1.8	U		NR

*Blank entries indicate that sample was not analyzed for that analyte group

METALS & CYANIDE: SEDIMENTS & SURFACE WATER

	A:\MPTDAT1.WK1				
	LOCATION:	MPT-2-SD-4DL		MPT-2-SW-4	
	SAMPLE MATRIX:	SOIL		WATER	
	DATE SAMPLED:	01/22/92		01/22/92	
	LAB NUMBER:	20722		20722	
	UNITS:	mg/Kg		µg/l	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.
7440-36-0	Antimony			43.1	B
7440-38-2	Arsenic			1	B
7440-39-3	Barium			12.4	B
7440-41-7	Beryllium			0.1	U
7440-43-9	Cadmium			1.6	U
7440-47-3	Chromium			1.9	U
7440-48-4	Cobalt			8.1	B
7440-50-8	Copper			24.5	B
7440-92-1	Lead			1.1	B
7440-97-6	Mercury			0.16	U
7440-02-0	Nickel			16.2	B
7440-49-2	Selenium			1.1	U
7440-22-4	Silver			2.3	U
7440-28-0	Thallium			1.4	U
7440-31-5	Tin			208	U
7440-62-2	Vanadium			2.7	U
7440-66-6	Zinc			13.4	B
	Cyanide			3.9	B

*Blank entries indicate that sample was not analyzed for that analyte group

METALS AND CYANIDE: SEDIMENTS AND SURFACE WATER

	A:\MPTDAT2.WK1										
	LOCATION:	MPT-2-SD-5		MPT-2-SD-5DL		MPT-2-SW-5		MPT-2-SD-6		MPT-2-SD-6DL	
	SAMPLE MATRIX:	SOIL		SOIL		WATER		SOIL		SOIL	
	DATE SAMPLED:	01/22/92		01/22/92		01/22/92		01/22/92		01/22/92	
	LAB NUMBER:	20722		20722		20722		20722		20722	
	UNITS:	mg/Kg		mg/Kg		µg/l		mg/Kg		mg/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
7440-36-0	Antimony	15.8	U			66.7		23.1	U		
7440-38-2	Arsenic	8.9				1.7	B	10.8			
7440-39-3	Barium	25.8	B			10.9	B	33.7	B		
7440-41-7	Beryllium	0.5	B			0.96	B	0.96	B		
7440-43-9	Cadmium	0.64	U			1.6	U	0.93	U		
7440-47-3	Chromium	30.9				2	B	50.1			
7440-48-4	Cobalt	6.2	B			6.8	B	11.3	B		
7440-50-8	Copper	15.6				1.4	U	15.7			
7440-92-1	Lead	27.9				2.2	B	27.9			
7440-97-6	Mercury	0.11	B			0.16	U	0.18	U		
7440-02-0	Nickel	13.3	B			7	U	12.2	B		
7440-49-2	Selenium	0.5	B			5.1		0.76	B		
7440-22-4	Silver	0.91	U			2.3	U	1.3	U		
7440-28-0	Thallium	0.56	U			1.4	U	0.81	U		
7440-31-5	Tin	82.2	U			208	U	120	U		
7440-62-2	Vanadium	32.9				2.7	U	56.5			
7440-66-6	Zinc	80.6				3.7	U	96.5			
	Cyanide		NR			5	B		NR		

*Blank entries indicate that sample was not analyzed for that analyte group

METALS AND CYANIDE: SEDIMENTS AND SURFACE WATER

	A:\MPTDAT2.WK1										
	LOCATION:	MPT-2-SW-6		MPT-2-SD-7		MPT-2-SD-7A		MPT-2-SD-7DL		MPT-2-SD-7ADL	
	SAMPLE MATRIX:	WATER		SOIL		SOIL		SOIL		SOIL	
	DATE SAMPLED:	01/22/92		01/23/92		01/23/92		01/23/92		01/23/92	
	LAB NUMBER:	20722		20740		20740		20740		20740	
	UNITS:	µg/l		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
7440-36-0	Antimony	40	U	15.5	U	15.4	B				
7440-38-2	Arsenic	1.5	B	1.1	B	0.98	B				
7440-39-3	Barium	9.7	B	8.1	B	6.8	B				
7440-41-7	Beryllium	0.1	U	0.041	U	0.032	U				
7440-43-9	Cadmium	1.6	U	0.63	U	0.49	U				
7440-47-3	Chromium	2	B	3.3	B	2.9	B				
7440-48-4	Cobalt	5.1	U	2.4	B	1.6	U				
7440-50-8	Copper	1.4	U	4	B	4.6	B				
7440-92-1	Lead	1.6	B	4.9		3.8					
7440-97-6	Mercury	0.16	U	0.1	U	0.044	U				
7440-02-0	Nickel	7	U	2.7	U	2.4	B				
7440-49-2	Selenium	1.4	B	0.5	U	0.39	U				
7440-22-4	Silver	2.3	U	0.9	U	0.7	U				
7440-28-0	Thallium	1.4	U	0.55	U	0.43	U				
7440-31-5	Tin	208	U	80.8	U	63.3	U				
7440-62-2	Vanadium	3.8	B	2.9	B	2.5	B				
7440-66-6	Zinc	3.7	U	48.6		49.3					
	Cyanide	7.4	B		NR		NR				

*Blank entries indicate that sample was not analyzed for that analyte group

METALS AND CYANIDE: SEDIMENTS AND SURFACE WATER

	A:\MPTDAT2.WK1				
	LOCATION:	MPT-2-SW-7		MPT-2-SW-7A	
	SAMPLE MATRIX:	WATER		WATER	
	DATE SAMPLED:	01/23/92		01/23/92	
	LAB NUMBER:	20740		20740	
	UNITS:	µg/l		µg/l	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.
7440-36-0	Antimony	40	U	40	U
7440-38-2	Arsenic	2.6	B	2.2	B
7440-39-3	Barium	22.3	B	21.3	B
7440-41-7	Beryllium	0.1	U	0.1	U
7440-43-9	Cadmium	1.6	U	1.6	U
7440-47-3	Chromium	1.9	U	1.9	U
7440-48-4	Cobalt	5.1	U	5.1	U
7440-50-8	Copper	8.7	B	3.8	B
7440-92-1	Lead	3.3		3.3	
7440-97-6	Mercury	0.16	U	0.16	U
7440-02-0	Nickel	7	U	7	U
7440-49-2	Selenium	1.4	B	7.7	
7440-22-4	Silver	2.3	U	2.3	U
7440-28-0	Thallium	1.4	U	1.4	U
7440-31-5	Tin	208	U	208	U
7440-62-2	Vanadium	2.7	U	2.7	U
7440-66-6	Zinc	34.4		25.7	
	Cyanide	4.7	B	5.3	B

*Blank entries indicate that sample was not analyzed for that analyte group

METALS & CYANIDE: SEDIMENTS AND SURFACE WATER

	A:\MPTDAT3.WK1										
	LOCATION:	MPT-2-SD-8		MPT-2-SD-9		MPT-2-SD-9DL		MPT-2-SW-9		MPT-13-SD-1	
	SAMPLE MATRIX:	SOIL		SOIL		SOIL		WATER		SOIL	
	DATE SAMPLED:	02/12/92		01/23/92		01/23/92		01/23/92		01/23/92	
	LAB NUMBER:	20902		20740		20740		20740		20740	
	UNITS:	mg/Kg		mg/Kg		mg/Kg		µg/l		mg/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
7440-36-0	Antimony	3.3	U	9.8	U			40	U	11.7	U
7440-38-2	Arsenic	1.2	B	0.51	B			4.3	B	0.42	B
7440-39-3	Barium	4.7	B	3.8	B			11.7	B	4.1	B
7440-41-7	Beryllium	0.16	B	0.026	U			0.1	U	0.031	U
7440-43-9	Cadmium	0.89	U	0.39	U			2.6	B	1.1	B
7440-47-3	Chromium	4.7		2.7				1.9	U	3.3	
7440-48-4	Cobalt	2.1	B	1.4	B			5.1	U	2.5	B
7440-50-8	Copper	4.5	B	1.6	B			24.1	B	4.1	B
7440-92-1	Lead	2.8		3.5				3.2		5.3	
7440-97-6	Mercury	0	U	0.048	U			0.16	U	0.058	U
7440-02-0	Nickel	4	B	1.7	U			7	U	2	U
7440-49-2	Selenium	0.37	U	0.31	U			2.3	B	0.38	U
7440-22-4	Silver	0.59	B	0.56	U			2.3	U	0.68	U
7440-28-0	Thallium	0.5	U	0.34	U			1.4	U	0.41	U
7440-31-5	Tin	8	U	50.8	U			208	U	60.9	U
7440-62-2	Vanadium	4.5	B	1.4	B			2.7	U	3.1	B
7440-66-6	Zinc	12.5		12				3.7	U	37.6	
	Cyanide		NR		NR			5.4	B		NR

*Blank entries indicate that sample was not analyzed for that analyte group

METALS & CYANIDE: SEDIMENTS AND SURFACE WATER

	A:\MPTDAT3.WK1								
	LOCATION:	MPT-13-SD-1DL		MPT-13-SD-2		MPT-13-SD-3		MPT-13-SD-3DL	
	SAMPLE MATRIX:	SOIL		SOIL		SOIL		SOIL	
	DATE SAMPLED:	01/23/92		01/23/92		01/23/92		01/23/92	
	LAB NUMBER:	20740		20740		20740		20740	
	UNITS:	mg/Kg		mg/Kg		mg/Kg		mg/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
7440-36-0	Antimony			11.1	U	10.5	U		
7440-38-2	Arsenic			0.33	B	0.69	B		
7440-39-3	Barium			1.8	B	5.2	B		
7440-41-7	Beryllium			0.029	U	0.027	U		
7440-43-9	Cadmium			0.45	U	0.66	B		
7440-47-3	Chromium			1.7	B	3.7			
7440-48-4	Cobalt			1.4	U	1.7	B		
7440-50-8	Copper			0.43	B	5.4	B		
7440-92-1	Lead			0.97		7.5			
7440-97-6	Mercury			0.092	U	0.076	U		
7440-02-0	Nickel			1.9	U	1.8	U		
7440-49-2	Selenium			0.36	U	0.34	U		
7440-22-4	Silver			0.64	U	0.6	U		
7440-28-0	Thallium			0.39	U	0.37	U		
7440-31-5	Tin			58	U	54.5	U		
7440-62-2	Vanadium			1	B	3.7	B		
7440-66-6	Zinc			4.6	B	17.2			
	Cyanide				NR		NR		

*Blank entries indicate that sample was not analyzed for that analyte group

METALS & CYANIDE: SEDIMENTS AND SURFACE WATER

	A:\MPTDAT4.WK1		
	LOCATION:	MPT-2-SW-8	
	SAMPLE MATRIX:	WATER	
	DATE SAMPLED:	02/12/92	
	LAB NUMBER:	20902	
	UNITS:	µg/l	
CAS RN	Common name	Conc.	Qual.
7440-36-0	Antimony	29.8	B
7440-38-2	Arsenic	1.3	B
7440-39-3	Barium	11.6	B
7440-41-7	Beryllium	0.3	U
7440-43-9	Cadmium	1	U
7440-70-2	Calcium	181000	
7440-47-3	Chromium	2	U
7440-48-4	Cobalt	3.1	U
7440-50-8	Copper	1.4	U
7440-89-6	Iron	4830	
7440-92-1	Lead	0.7	U
7440-95-4	Magnesium	317000	
7440-96-5	Manganese	247	
7440-97-6	Mercury	0.1	U
7440-02-0	Nickel	6.5	U
7440-49-2	Selenium	6	U
7440-22-4	Silver	1.2	U
7440-23-5	Sodium	2720000	
7440-28-0	Thallium	0.9	U
7440-62-2	Vanadium	6.1	B
7440-66-6	Zinc	6.3	B
7440-31-5	Tin	14.5	U
	Cyanide	3	U

*Blank entries indicate that sample was not analyzed for that analyte group

VOLATILE ORGANIC COMPOUNDS: GROUNDWATER

	A:\MPTDAT4.WK1										
	LOCATION:	MPT-2-MW1-1		MPT-2-MW2-1		MPT-2-MW2-1D		MPT-2-MW3-1		MPT-2-MW4-1	
	SAMPLE MATRIX:	WATER		WATER		WATER		WATER		WATER	
	DATE SAMPLED:	02/11/92		02/11/92		02/11/92		02/09/92		02/10/92	
	LAB NUMBER:	20884		20884		20884		20866		20877	
	UNITS:	µg/l		µg/l		µg/l		µg/l		µg/l	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
74-87-3	Chloromethane	10	U	10	U	10	U	10	U	10	U
74-83-9	Bromomethane	10	U	10	U	10	U	10	U	10	U
75-01-4	Vinyl chloride	10	U	10	U	10	U	10	U	10	U
75-00-3	Chloroethane	10	U	10	U	10	U	10	U	10	U
75-09-2	Methylene chloride	8	B	3	J	5		6	B	2	BJ
67-64-1	Acetone	8	BJ	5	BJ	9	BJ	10	B	14	B
75-15-0	Carbon disulfide	5	U	5	U	5	U	2	J	3	J
75-69-4	Trichlorofluoromethane	5	U	5	U	5	U	5	U	5	U
75-35-4	1,1-Dichloroethylene	5	U	5	U	5	U	5	U	5	U
75-34-3	1,1-Dichloroethane	5	U	5	U	5	U	5	U	5	U
540-59-0	1,2-Dichloroethene (total)	5	U	5	U	5	U	5	U	5	U
67-66-3	Chloroform	5	U	5	U	5	U	5	U	5	U
107-06-2	1,2-Dichloroethane	5	U	5	U	5	U	5	U	5	U
78-93-3	2-Butanone	10	U	10	U	10	U	10	U	10	U
71-55-6	1,1,1-Trichloroethane	5	U	5	U	5	U	5	U	5	U
56-23-5	Carbon tetrachloride	5	U	5	U	5	U	5	U	5	U
108-05-4	Vinyl acetate	10	U	10	U	10	U	10	U	10	U
75-27-4	Bromodichloromethane	5	U	5	U	5	U	5	U	5	U
78-87-5	1,2-Dichloropropane	5	U	5	U	5	U	5	U	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U	5	U	5	U	5	U	5	U
79-01-6	Trichloroethene	5	U	5	U	5	U	5	U	5	U
124-48-1	Dibromochloromethane	5	U	5	U	5	U	5	U	5	U
79-00-5	1,1,2-Trichloroethane	5	U	5	U	5	U	5	U	5	U
71-43-2	Benzene	5	U	5	U	5	U	5	U	2	J

*Blank entries indicate that sample was not analyzed for that analyte group

VOLATILE ORGANIC COMPOUNDS: GROUNDWATER

	A:\MPTDAT4.WK1										
	LOCATION:	MPT-2-MW1-1		MPT-2-MW2-1		MPT-2-MW2-1D		MPT-2-MW3-1		MPT-2-MW4-1	
	SAMPLE MATRIX:	WATER		WATER		WATER		WATER		WATER	
	DATE SAMPLED:	02/11/92		02/11/92		02/11/92		02/09/92		02/10/92	
	LAB NUMBER:	20884		20884		20884		20866		20877	
	UNITS:	µg/l		µg/l		µg/l		µg/l		µg/l	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
10061-02-6	trans-1,3-Dichloropropene	5	U	5	U	5	U	5	U	5	U
110-75-8	2-Chloroethylvinylether	10	U	10	U	10	U	10	U	10	U
75-25-2	Bromoform	5	U	5	U	5	U	5	U	5	U
591-78-6	2-Hexanone	10	U	10	U	10	U	10	U	10	U
108-10-1	4-Methyl-2-Pentanone	10	U	10	U	10	U	10	U	10	U
127-18-4	Tetrachloroethene	5	U	5	U	5	U	5	U	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U	5	U	5	U	5	U	5	U
108-88-3	Toluene	5	U	5	U	5	U	5	U	5	U
108-90-7	Chlorobenzene	5	U	5	U	5	U	10		13	
100-41-4	Ethylbenzene	5	U	5	U	5	U	5	U	5	U
100-42-5	Styrene	5	U	5	U	5	U	5	U	5	U
1330-20-7	Xylene (total)	5	U	5	U	5	U	5	U	5	U
541-73-1	1,3-Dichlorobenzene	5	U	5	U	5	U	5	U	5	U
106-46-7	1,4-Dichlorobenzene	5	U	5	U	5	U	2	J	3	J
95-50-1	1,2-Dichlorobenzene	5	U	5	U	5	U	5	U	5	U
107-02-8	Acrolein	100	U	100	U	100	U	100	U	100	U
74-88-4	Iodomethane	10	U	10	U	10	U	10	U	10	U
107-13-1	Acrylonitrile	100	U	100	U	100	U	100	U	100	U
74-95-3	Dibromomethane	5	U	5	U	5	U	5	U	5	U
97-63-2	Ethyl Methacrylate	5	U	5	U	5	U	5	U	5	U
96-18-4	1,2,3-Trichloropropane	5	U	5	U	5	U	5	U	5	U
110-57-6	trans-1,4-Dichloro-2-butene	5	U	5	U	5	U	5	U	5	U
75-05-8	Acetonitrile	100	U	100	U	100	U	100	U	100	U
107-05-1	3-Chloropropene	5	U	5	U	5	U	5	U	5	U

*Blank entries indicate that sample was not analyzed for that analyte group

VOLATILE ORGANIC COMPOUNDS: GROUNDWATER

	A:\MPTDAT4.WK1									
	LOCATION:	MPT-2-MW1-1		MPT-2-MW2-1		MPT-2-MW2-1D		MPT-2-MW3-1		MPT-2-MW4-1
	SAMPLE MATRIX:	WATER		WATER		WATER		WATER		WATER
	DATE SAMPLED:	02/11/92		02/11/92		02/11/92		02/09/92		02/10/92
	LAB NUMBER:	20884		20884		20884		20866		20877
	UNITS:	µg/l		µg/l		µg/l		µg/l		µg/l
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
107-12-0	Propionitrile	100	U	100	U	100	U	100	U	100	U
126-98-7	Methacrylonitrile	5	U	5	U	5	U	5	U	5	U
123-91-1	1,4-Dioxane	200	U	200	U	200	U	200	U	200	U
80-62-6	Methyl methacrylate	10	U	10	U	10	U	10	U	10	U
106-93-4	1,2-Dibromoethane	5	U	5	U	5	U	5	U	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U	5	U	5	U	5	U	5	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U	10	U	10	U	10	U	10	U
76-01-7	Pentachloroethane	10	U	10	U	10	U	10	U	10	U
78-83-1	Isobutyl alcohol	200	U	200	U	200	U	200	U	200	U
126-99-8	Chloroprene	200	U	200	U	200	U	200	U	200	U

*Blank entries indicate that sample was not analyzed for that analyte group

VOLATILE ORGANIC COMPOUNDS: GROUNDWATER

	A:\MPTDAT4.WK1									
	LOCATION:	MPT-2-MW5-1		MPT-2-MW5-1D		MPT-2-MW6-1		MPT-2-MW7S-1		MPT-2-MW7D-1
	SAMPLE MATRIX:	WATER		WATER		WATER		WATER		WATER
	DATE SAMPLED:	02/10/92		02/10/92		02/11/92		02/11/92		02/11/92
	LAB NUMBER:	20877		20877		20884		20884		20884
	UNITS:	µg/l		µg/l		µg/l		µg/l		µg/l
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
74-87-3	Chloromethane	10	U	10	U	10	U	10	U	10	U
74-83-9	Bromomethane	10	U	10	U	10	U	10	U	10	U
75-01-4	Vinyl chloride	10	U	10	U	10	U	10	U	10	U
75-00-3	Chloroethane	10	U	10	U	10	U	10	U	10	U
75-09-2	Methylene chloride	2	BJ	2	BJ	3	BJ	2	BJ	5	
67-64-1	Acetone	22	B	13	B	5	BJ	4	BJ	14	B
75-15-0	Carbon disulfide	5	U	5	U	5	U	5	U	3	J
75-69-4	Trichlorofluoromethane	5	U	5	U	5	U	5	U	5	U
75-35-4	1,1-Dichloroethylene	5	U	5	U	5	U	5	U	5	U
75-34-3	1,1-Dichloroethane	5	U	5	U	5	U	5	U	5	U
540-59-0	1,2-Dichloroethene (total)	5	U	5	U	5	U	5	U	5	U
67-66-3	Chloroform	5	U	5	U	5	U	5	U	5	U
107-06-2	1,2-Dichloroethane	5	U	5	U	5	U	5	U	5	U
78-93-3	2-Butanone	10	U	10	U	10	U	10	U	10	U
71-55-6	1,1,1-Trichloroethane	5	U	5	U	5	U	5	U	5	U
56-23-5	Carbon tetrachloride	5	U	5	U	5	U	5	U	5	U
108-05-4	Vinyl acetate	10	U	10	U	10	U	10	U	10	U
75-27-4	Bromodichloromethane	5	U	5	U	5	U	5	U	5	U
78-87-5	1,2-Dichloropropane	5	U	5	U	5	U	5	U	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U	5	U	5	U	5	U	5	U
79-01-6	Trichloroethene	5	U	5	U	5	U	5	U	5	U
124-48-1	Dibromochloromethane	5	U	5	U	5	U	5	U	5	U
79-00-5	1,1,2-Trichloroethane	5	U	5	U	5	U	5	U	5	U
71-43-2	Benzene	5	U	5	U	5	U	5	U	5	U

*Blank entries indicate that sample was not analyzed for that analyte group

VOLATILE ORGANIC COMPOUNDS: GROUNDWATER

	A:\MPTDAT4.WK1									
	LOCATION:	MPT-2-MW5-1		MPT-2-MW5-1D		MPT-2-MW6-1		MPT-2-MW7S-1		MPT-2-MW7D-1
	SAMPLE MATRIX:	WATER		WATER		WATER		WATER		WATER
	DATE SAMPLED:	02/10/92		02/10/92		02/11/92		02/11/92		02/11/92
	LAB NUMBER:	20877		20877		20884		20884		20884
	UNITS:	µg/l		µg/l		µg/l		µg/l		µg/l
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
10061-02-6	trans-1,3-Dichloropropene	5	U	5	U	5	U	5	U	5	U
110-75-8	2-Chloroethylvinylether	10	U	10	U	10	U	10	U	10	U
75-25-2	Bromoform	5	U	5	U	5	U	5	U	5	U
591-78-6	2-Hexanone	10	U	10	U	10	U	10	U	10	U
108-10-1	4-Methyl-2-Pentanone	10	U	10	U	10	U	10	U	10	U
127-18-4	Tetrachloroethene	5	U	5	U	5	U	5	U	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U	5	U	5	U	5	U	5	U
108-88-3	Toluene	5	U	5	U	5	U	5	U	5	U
108-90-7	Chlorobenzene	5	U	5	U	5	U	5	U	5	U
100-41-4	Ethylbenzene	5	U	5	U	5	U	5	U	5	U
100-42-5	Styrene	5	U	5	U	5	U	5	U	5	U
1330-20-7	Xylene (total)	5	U	5	U	5	U	5	U	5	U
541-73-1	1,3-Dichlorobenzene	5	U	5	U	5	U	5	U	5	U
106-46-7	1,4-Dichlorobenzene	5	U	5	U	5	U	5	U	5	U
95-50-1	1,2-Dichlorobenzene	5	U	5	U	5	U	5	U	5	U
107-02-8	Acrolein	100	U	100	U	100	U	100	U	100	U
74-88-4	Iodomethane	10	U	10	U	10	U	10	U	10	U
107-13-1	Acrylonitrile	100	U	100	U	100	U	100	U	100	U
74-95-3	Dibromomethane	5	U	5	U	5	U	5	U	5	U
97-63-2	Ethyl Methacrylate	5	U	5	U	5	U	5	U	5	U
96-18-4	1,2,3-Trichloropropane	5	U	5	U	5	U	5	U	5	U
110-57-6	trans-1,4-Dichloro-2-butene	5	U	5	U	5	U	5	U	5	U
75-05-8	Acetonitrile	100	U	100	U	100	U	100	U	100	U
107-05-1	3-Chloropropene	5	U	5	U	5	U	5	U	5	U

*Blank entries indicate that sample was not analyzed for that analyte group

VOLATILE ORGANIC COMPOUNDS: GROUNDWATER

	A:\MPTDAT4.WK1									
	LOCATION:	MPT-2-MW5-1		MPT-2-MW5-1D		MPT-2-MW6-1		MPT-2-MW7S-1		MPT-2-MW7D-1
	SAMPLE MATRIX:	WATER		WATER		WATER		WATER		WATER
	DATE SAMPLED:	02/10/92		02/10/92		02/11/92		02/11/92		02/11/92
	LAB NUMBER:	20877		20877		20884		20884		20884
	UNITS:	µg/l		µg/l		µg/l		µg/l		µg/l
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
107-12-0	Propionitrile	100	U	100	U	100	U	100	U	100	U
126-98-7	Methacrylonitrile	5	U	5	U	5	U	5	U	5	U
123-91-1	1,4-Dioxane	200	U	200	U	200	U	200	U	200	U
80-62-6	Methyl methacrylate	10	U	10	U	10	U	10	U	10	U
106-93-4	1,2-Dibromoethane	5	U	5	U	5	U	5	U	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U	5	U	5	U	5	U	5	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U	10	U	10	U	10	U	10	U
76-01-7	Pentachloroethane	10	U	10	U	10	U	10	U	10	U
78-83-1	Isobutyl alcohol	200	U	200	U	200	U	200	U	200	U
126-99-8	Chloroprene	200	U	200	U	200	U	200	U	200	U

*Blank entries indicate that sample was not analyzed for that analyte group

VOLATILE ORGANIC COMPOUNDS: GROUNDWATER

	A:\MPTDAT5.WK1										
	LOCATION:	MPT-2-MW9S-1		MPT-2-MW9D-1		MPT-2-MW10-1		MPT-2-MW11-1		MPT-2-MW12S-1	
	SAMPLE MATRIX:	WATER		WATER		WATER		WATER		WATER	
	DATE SAMPLED:	02/09/92		02/09/92		02/10/92		02/05/92		02/05/92	
	LAB NUMBER:	20866		20866		20877		20837		20837	
	UNITS:	µg/l		µg/l		µg/l		µg/l		µg/l	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
74-87-3	Chloromethane	10	U	10	U	10	U	10	U	10	U
74-83-9	Bromomethane	10	U	10	U	10	U	10	U	10	U
75-01-4	Vinyl chloride	10	U	10	U	10	U	10	U	10	U
75-00-3	Chloroethane	10	U	10	U	10	U	10	U	10	U
75-09-2	Methylene chloride	6	B	6	B	15	B	3	J	2	J
67-64-1	Acetone	6	BJ	29	B	20	B	15	B	41	B
75-15-0	Carbon disulfide	5	U	2	J	1	J	5	U	5	U
75-69-4	Trichlorofluoromethane	5	U	5	U	5	U	5	U	5	U
75-35-4	1,1-Dichloroethylene	5	U	5	U	5	U	5	U	5	U
75-34-3	1,1-Dichloroethane	5	U	5	U	5	U	5	U	5	U
540-59-0	1,2-Dichloroethene (total)	5	U	5	U	5	U	5	U	5	U
67-66-3	Chloroform	5	U	5	U	5	U	5	U	5	U
107-06-2	1,2-Dichloroethane	5	U	5	U	5	U	5	U	5	U
78-93-3	2-Butanone	10	U	9	J	10	U	10	U	10	U
71-55-6	1,1,1-Trichloroethane	5	U	5	U	5	U	5	U	5	U
56-23-5	Carbon tetrachloride	5	U	5	U	5	U	5	U	5	U
108-05-4	Vinyl acetate	10	U	10	U	10	U	10	U	10	U
75-27-4	Bromodichloromethane	5	U	5	U	5	U	5	U	5	U
78-87-5	1,2-Dichloropropane	5	U	5	U	5	U	5	U	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U	5	U	5	U	5	U	5	U
79-01-6	Trichloroethene	5	U	5	U	5	U	5	U	5	U
124-48-1	Dibromochloromethane	5	U	5	U	5	U	5	U	5	U
79-00-5	1,1,2-Trichloroethane	5	U	5	U	5	U	5	U	5	U
71-43-2	Benzene	5	U	5	U	5	U	5	U	5	U

*Blank entries indicate that sample was not analyzed for that analyte group

VOLATILE ORGANIC COMPOUNDS: GROUNDWATER

	A:\MPTDAT5.WK1										
	LOCATION:	MPT-2-MW9S-1		MPT-2-MW9D-1		MPT-2-MW10-1		MPT-2-MW11-1		MPT-2-MW12S-1	
	SAMPLE MATRIX:	WATER		WATER		WATER		WATER		WATER	
	DATE SAMPLED:	02/09/92		02/09/92		02/10/92		02/05/92		02/05/92	
	LAB NUMBER:	20866		20866		20877		20837		20837	
	UNITS:	µg/l		µg/l		µg/l		µg/l		µg/l	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
10061-02-6	trans-1,3-Dichloropropene	5	U	5	U	5	U	5	U	5	U
110-75-8	2-Chloroethylvinylether	10	U	10	U	10	U	10	U	10	U
75-25-2	Bromoform	5	U	5	U	5	U	5	U	5	U
591-78-6	2-Hexanone	10	U	10	U	10	U	10	U	10	U
108-10-1	4-Methyl-2-Pentanone	10	U	10	U	10	U	10	U	10	U
127-18-4	Tetrachloroethene	5	U	5	U	5	U	5	U	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U	5	U	5	U	5	U	5	U
108-88-3	Toluene	5	U	5	U	5	U	5	U	5	U
108-90-7	Chlorobenzene	5	U	5	U	5	U	5	U	5	U
100-41-4	Ethylbenzene	5	U	5	U	5	U	5	U	5	U
100-42-5	Styrene	5	U	5	U	5	U	5	U	5	U
1330-20-7	Xylene (total)	5	U	5	U	5	U	5	U	5	U
541-73-1	1,3-Dichlorobenzene	5	U	5	U	5	U	5	U	5	U
106-46-7	1,4-Dichlorobenzene	5	U	5	U	5	U	5	U	5	U
95-50-1	1,2-Dichlorobenzene	5	U	5	U	5	U	5	U	5	U
107-02-8	Acrolein	100	U	100	U	100	U	100	U	100	U
74-88-4	Iodomethane	10	U	10	U	10	U	10	U	10	U
107-13-1	Acrylonitrile	100	U	100	U	100	U	100	U	100	U
74-95-3	Dibromomethane	5	U	5	U	5	U	5	U	5	U
97-63-2	Ethyl Methacrylate	5	U	5	U	5	U	5	U	5	U
96-18-4	1,2,3-Trichloropropane	5	U	5	U	5	U	5	U	5	U
110-57-6	trans-1,4-Dichloro-2-butene	5	U	5	U	5	U	5	U	5	U
75-05-8	Acetonitrile	100	U	100	U	100	U	100	U	100	U
107-05-1	3-Chloropropene	5	U	5	U	5	U	5	U	5	U

*Blank entries indicate that sample was not analyzed for that analyte group

VOLATILE ORGANIC COMPOUNDS: GROUNDWATER

	A:\MPTDAT5.WK1									
	LOCATION:	MPT-2-MW9S-1		MPT-2-MW9D-1		MPT-2-MW10-1		MPT-2-MW11-1		MPT-2-MW12S-1	
	SAMPLE MATRIX:	WATER		WATER		WATER		WATER		WATER	
	DATE SAMPLED:	02/09/92		02/09/92		02/10/92		02/05/92		02/05/92	
	LAB NUMBER:	20866		20866		20877		20837		20837	
	UNITS:	µg/l		µg/l		µg/l		µg/l		µg/l	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
107-12-0	Propionitrile	100	U	100	U	100	U	100	U	100	U
126-98-7	Methacrylonitrile	5	U	5	U	5	U	5	U	5	U
123-91-1	1,4-Dioxane	200	U	200	U	200	U	200	U	200	U
80-62-6	Methyl methacrylate	10	U	10	U	10	U	10	U	10	U
106-93-4	1,2-Dibromoethane	5	U	5	U	5	U	5	U	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U	5	U	5	U	5	U	5	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U	10	U	10	U	10	U	10	U
76-01-7	Pentachloroethane	10	U	10	U	10	U	10	U	10	U
78-83-1	Isobutyl alcohol	200	U	200	U	200	U	200	U	200	U
126-99-8	Chloroprene	200	U	200	U	200	U	200	U	200	U

*Blank entries indicate that sample was not analyzed for that analyte group

VOLATILE ORGANIC COMPOUNDS: GROUNDWATER

	A:\MPTDAT5.WK1										
	LOCATION:	MPT-2-MW12S-1D		MPT-2-MW12D-1		MPT-2-MW15S-1		MPT-2-MW15D-1		MPT-2-MW15D-1R	
	SAMPLE MATRIX:	WATER		WATER		WATER		WATER		WATER	
	DATE SAMPLED:	02/05/92		02/12/92		02/10/92		02/10/92		02/10/92	
	LAB NUMBER:	20837		20902		20877		20877		20877	
	UNITS:	µg/l		µg/l		µg/l		µg/l		µg/l	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
74-87-3	Chloromethane	10	U	10	U	10	U	10	U		
74-83-9	Bromomethane	10	U	10	U	10	U	10	U		
75-01-4	Vinyl chloride	10	U	10	U	10	U	10	U		
75-00-3	Chloroethane	10	U	10	U	10	U	10	U		
75-09-2	Methylene chloride	3	J	16	B	4	BJ	6	B		
67-64-1	Acetone	38	B	68	B	9	BJ	51	B		
75-15-0	Carbon disulfide	5	U	10		5	U	3	J		
75-69-4	Trichlorofluoromethane	5	U	5	U	5	U	5	U		
75-35-4	1,1-Dichloroethylene	5	U	5	U	5	U	5	U		
75-34-3	1,1-Dichloroethane	5	U	5	U	5	U	5	U		
540-59-0	1,2-Dichloroethene (total)	5	U	5	U	5	U	5	U		
67-66-3	Chloroform	5	U	5	U	5	U	5	U		
107-06-2	1,2-Dichloroethane	5	U	5	U	5	U	5	U		
78-93-3	2-Butanone	10	U	13		10	U	10	U		
71-55-6	1,1,1-Trichloroethane	5	U	5	U	5	U	5	U		
56-23-5	Carbon tetrachloride	5	U	5	U	5	U	5	U		
108-05-4	Vinyl acetate	10	U	10	U	10	U	10	U		
75-27-4	Bromodichloromethane	5	U	5	U	5	U	5	U		
78-87-5	1,2-Dichloropropane	5	U	5	U	5	U	5	U		
10061-01-5	cis-1,3-Dichloropropene	5	U	5	U	5	U	5	U		
79-01-6	Trichloroethene	5	U	5	U	5	U	5	U		
124-48-1	Dibromochloromethane	5	U	5	U	5	U	5	U		
79-00-5	1,1,2-Trichloroethane	5	U	5	U	5	U	5	U		
71-43-2	Benzene	5	U	5	U	5	U	5	U		

*Blank entries indicate that sample was not analyzed for that analyte group

VOLATILE ORGANIC COMPOUNDS: GROUNDWATER

	A:\MPTDAT5.WK1										
	LOCATION:	MPT-2-MW12S-1D		MPT-2-MW12D-1		MPT-2-MW15S-1		MPT-2-MW15D-1		MPT-2-MW15D-1R	
	SAMPLE MATRIX:	WATER		WATER		WATER		WATER		WATER	
	DATE SAMPLED:	02/05/92		02/12/92		02/10/92		02/10/92		02/10/92	
	LAB NUMBER:	20837		20902		20877		20877		20877	
	UNITS:	µg/l		µg/l		µg/l		µg/l		µg/l	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
10061-02-6	trans-1,3-Dichloropropene	5	U	5	U	5	U	5	U		
110-75-8	2-Chloroethylvinylether	10	U	10	U	10	U	10	U		
75-25-2	Bromoform	5	U	5	U	5	U	5	U		
591-78-6	2-Hexanone	10	U	10	U	10	U	10	U		
108-10-1	4-Methyl-2-Pentanone	10	U	10	U	10	U	10	U		
127-18-4	Tetrachloroethene	5	U	5	U	5	U	5	U		
79-34-5	1,1,2,2-Tetrachloroethane	5	U	5	U	5	U	5	U		
108-88-3	Toluene	5	U	5	U	5	U	16			
108-90-7	Chlorobenzene	5	U	5	U	5	U	5	U		
100-41-4	Ethylbenzene	5	U	5	U	5	U	5	U		
100-42-5	Styrene	5	U	5	U	5	U	5	U		
1330-20-7	Xylene (total)	5	U	5	U	5	U	2	J		
541-73-1	1,3-Dichlorobenzene	5	U	5	U	5	U	5	U		
106-46-7	1,4-Dichlorobenzene	5	U	5	U	5	U	5	U		
95-50-1	1,2-Dichlorobenzene	5	U	5	U	5	U	5	U		
107-02-8	Acrolein	100	U	100	U	100	U	100	U		
74-88-4	Iodomethane	10	U	10	U	10	U	10	U		
107-13-1	Acrylonitrile	100	U	100	U	100	U	100	U		
74-95-3	Dibromomethane	5	U	5	U	5	U	5	U		
97-63-2	Ethyl Methacrylate	5	U	5	U	5	U	5	U		
96-18-4	1,2,3-Trichloropropane	5	U	5	U	5	U	5	U		
110-57-6	trans-1,4-Dichloro-2-butene	5	U	5	U	5	U	5	U		
75-05-8	Acetonitrile	100	U	100	U	100	U	100	U		
107-05-1	3-Chloropropene	5	U	5	U	5	U	5	U		

*Blank entries indicate that sample was not analyzed for that analyte group

VOLATILE ORGANIC COMPOUNDS: GROUNDWATER

	A:\MPTDAT5.WK1										
	LOCATION:	MPT-2-MW12S-1D		MPT-2-MW12D-1		MPT-2-MW15S-1		MPT-2-MW15D-1		MPT-2-MW15D-1R	
	SAMPLE MATRIX:	WATER		WATER		WATER		WATER		WATER	
	DATE SAMPLED:	02/05/92		02/12/92		02/10/92		02/10/92		02/10/92	
	LAB NUMBER:	20837		20902		20877		20877		20877	
	UNITS:	µg/l		µg/l		µg/l		µg/l		µg/l	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
107-12-0	Propionitrile	100	U	100	U	100	U	100	U		
126-98-7	Methacrylonitrile	5	U	5	U	5	U	5	U		
123-91-1	1,4-Dioxane	200	U	200	U	200	U	200	U		
80-62-6	Methyl methacrylate	10	U	10	U	10	U	10	U		
106-93-4	1,2-Dibromoethane	5	U	5	U	5	U	5	U		
630-20-6	1,1,1,2-Tetrachloroethane	5	U	5	U	5	U	5	U		
96-12-8	1,2-Dibromo-3-chloropropane	10	U	10	U	10	U	10	U		
76-01-7	Pentachloroethane	10	U	10	U	10	U	10	U		
78-83-1	Isobutyl alcohol	200	U	200	U	200	U	200	U		
126-99-8	Chloroprene	200	U	200	U	200	U	200	U		

*Blank entries indicate that sample was not analyzed for that analyte group

VOLATILE ORGANIC COMPOUNDS: GROUNDWATER

	A:\MPTDAT5.WK1								
	LOCATION:	MPT-2-MW16S-1		MPT-2-MW16DD-1		MPT-2-MW17S-1		MPT-2-MW17D-1	
	SAMPLE MATRIX:	WATER		WATER		WATER		WATER	
	DATE SAMPLED:	02/10/92		02/14/92		02/12/92			
	LAB NUMBER:	20877		20931		20902			
	UNITS:	µg/l		µg/l		µg/l		µg/l	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
74-87-3	Chloromethane	10	U	10	U	10	U		
74-83-9	Bromomethane	10	U	10	U	10	U		
75-01-4	Vinyl chloride	10	U	10	U	10	U		
75-00-3	Chloroethane	10	U	10	U	10	U		
75-09-2	Methylene chloride	5	B	4	J	7			
67-64-1	Acetone	9	BJ	28	B	5	BJ		
75-15-0	Carbon disulfide	5	U	5	U	5	U		
75-69-4	Trichlorofluoromethane	5	U	5	U	5	U		
75-35-4	1,1-Dichloroethylene	5	U	5	U	5	U		
75-34-3	1,1-Dichloroethane	5	U	5	U	5	U		
540-59-0	1,2-Dichloroethene (total)	5	U	5	U	5	U		
67-66-3	Chloroform	5	U	1	J	5	U		
107-06-2	1,2-Dichloroethane	5	U	5	U	5	U		
78-93-3	2-Butanone	10	U	10	U	10	U		
71-55-6	1,1,1-Trichloroethane	5	U	5	U	5	U		
56-23-5	Carbon tetrachloride	5	U	5	U	5	U		
108-05-4	Vinyl acetate	10	U	10	U	10	U		
75-27-4	Bromodichloromethane	5	U	5	U	5	U		
78-87-5	1,2-Dichloropropane	5	U	5	U	5	U		
10061-01-5	cis-1,3-Dichloropropene	5	U	5	U	5	U		
79-01-6	Trichloroethene	5	U	5	U	5	U		
124-48-1	Dibromochloromethane	5	U	5	U	5	U		
79-00-5	1,1,2-Trichloroethane	5	U	5	U	5	U		
71-43-2	Benzene	5	U	5	U	5	U		

*Blank entries indicate that sample was not analyzed for that analyte group

VOLATILE ORGANIC COMPOUNDS: GROUNDWATER

	A:\MPTDAT5.WK1								
	LOCATION:	MPT-2-MW16S-1		MPT-2-MW16DD-1		MPT-2-MW17S-1		MPT-2-MW17D-1	
	SAMPLE MATRIX:	WATER		WATER		WATER		WATER	
	DATE SAMPLED:	02/10/92		02/14/92		02/12/92			
	LAB NUMBER:	20877		20931		20902			
	UNITS:	µg/l		µg/l		µg/l		µg/l	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
10061-02-6	trans-1,3-Dichloropropene	5	U	5	U	5	U		
110-75-8	2-Chloroethylvinylether	10	U	10	U	10	U		
75-25-2	Bromoform	5	U	5	U	5	U		
591-78-6	2-Hexanone	10	U	10	U	10	U		
108-10-1	4-Methyl-2-Pentanone	10	U	10	U	10	U		
127-18-4	Tetrachloroethene	5	U	5	U	5	U		
79-34-5	1,1,2,2-Tetrachloroethane	5	U	5	U	5	U		
108-88-3	Toluene	5	U	5	U	5	U		
108-90-7	Chlorobenzene	5	U	5	U	5	U		
100-41-4	Ethylbenzene	5	U	5	U	5	U		
100-42-5	Styrene	5	U	5	U	5	U		
1330-20-7	Xylene (total)	5	U	5	U	5	U		
541-73-1	1,3-Dichlorobenzene	5	U	5	U	5	U		
106-46-7	1,4-Dichlorobenzene	5	U	5	U	5	U		
95-50-1	1,2-Dichlorobenzene	5	U	5	U	5	U		
107-02-8	Acrolein	100	U	100	U	100	U		
74-88-4	Iodomethane	10	U	10	U	10	U		
107-13-1	Acrylonitrile	100	U	100	U	100	U		
74-95-3	Dibromomethane	5	U	5	U	5	U		
97-63-2	Ethyl Methacrylate	5	U	5	U	5	U		
96-18-4	1,2,3-Trichloropropane	5	U	5	U	5	U		
110-57-6	trans-1,4-Dichloro-2-butene	5	U	5	U	5	U		
75-05-8	Acetonitrile	100	U	100	U	100	U		
107-05-1	3-Chloropropene	5	U	5	U	5	U		

*Blank entries indicate that sample was not analyzed for that analyte group

VOLATILE ORGANIC COMPOUNDS: GROUNDWATER

	A:\MPTDAT5.WK1								
	LOCATION:	MPT-2-MW16S-1		MPT-2-MW16DD-1		MPT-2-MW17S-1		MPT-2-MW17D-1	
	SAMPLE MATRIX:	WATER		WATER		WATER		WATER	
	DATE SAMPLED:	02/10/92		02/14/92		02/12/92			
	LAB NUMBER:	20877		20931		20902			
	UNITS:	µg/l		µg/l		µg/l		µg/l	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
107-12-0	Propionitrile	100	U	100	U	100	U		
126-98-7	Methacrylonitrile	5	U	5	U	5	U		
123-91-1	1,4-Dioxane	200	U	200	U	200	U		
80-62-6	Methyl methacrylate	10	U	10	U	10	U		
106-93-4	1,2-Dibromoethane	5	U	5	U	5	U		
630-20-6	1,1,1,2-Tetrachloroethane	5	U	5	U	5	U		
96-12-8	1,2-Dibromo-3-chloropropane	10	U	10	U	10	U		
76-01-7	Pentachloroethane	10	U	10	U	10	U		
78-83-1	Isobutyl alcohol	200	U	200	U	200	U		
126-99-8	Chloroprene	200	U	200	U	200	U		

*Blank entries indicate that sample was not analyzed for that analyte group

VOLATILE ORGANIC COMPOUNDS: GROUNDWATER

	A:\MPTDAT6.WK1									
	LOCATION:	MPT-13-MW1-1		MPT-13-MW2-1		MPT-13-MW3-1		MPT-13-MW4-1		MPT-13-MW5-1	
	SAMPLE MATRIX:	WATER		WATER		WATER		WATER		WATER	
	DATE SAMPLED:	02/11/92		02/11/92		02/11/92		02/05/92		02/05/92	
	LAB NUMBER:	20884		20884		20884		20850		20850	
	UNITS:	µg/l		µg/l		µg/l		µg/l		µg/l	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
74-87-3	Chloromethane	10	U	10	U	10	U	10	U	10	U
74-83-9	Bromomethane	10	U	10	U	10	U	10	U	10	U
75-01-4	Vinyl chloride	10	U	10	U	10	U	10	U	10	U
75-00-3	Chloroethane	10	U	10	U	10	U	10	U	10	U
75-09-2	Methylene chloride	8	B	10	B	11	B	4	BJ	2	BJ
67-64-1	Acetone	6	BJ	5	BJ	7	BJ	61	B	10	B
75-15-0	Carbon disulfide	5	U	5	U	1	J	5	U	5	U
75-69-4	Trichlorofluoromethane	5	U	5	U	5	U	5	U	5	U
75-35-4	1,1-Dichloroethylene	5	U	5	U	5	U	5	U	5	U
75-34-3	1,1-Dichloroethane	5	U	5	U	5	U	5	U	5	U
540-59-0	1,2-Dichloroethene (total)	5	U	5	U	5	U	5	U	5	U
67-66-3	Chloroform	5	U	5	U	5	U	5	U	5	U
107-06-2	1,2-Dichloroethane	5	U	5	U	5	U	5	U	5	U
78-93-3	2-Butanone	10	U	10	U	10	U	10	U	10	U
71-55-6	1,1,1-Trichloroethane	5	U	5	U	5	U	5	U	5	U
56-23-5	Carbon tetrachloride	5	U	5	U	5	U	5	U	5	U
108-05-4	Vinyl acetate	10	U	10	U	10	U	10	U	10	U
75-27-4	Bromodichloromethane	5	U	5	U	5	U	5	U	5	U
78-87-5	1,2-Dichloropropane	5	U	5	U	5	U	5	U	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U	5	U	5	U	5	U	5	U
79-01-6	Trichloroethene	5	U	5	U	5	U	5	U	5	U
124-48-1	Dibromochloromethane	5	U	5	U	5	U	5	U	5	U
79-00-5	1,1,2-Trichloroethane	5	U	5	U	5	U	5	U	5	U
71-43-2	Benzene	5	U	5	U	5	U	5	U	5	U

*Blank entries indicate that sample was not analyzed for that analyte group

VOLATILE ORGANIC COMPOUNDS: GROUNDWATER

	A:\MPTDAT6.WK1										
	LOCATION:	MPT-13-MW1-1		MPT-13-MW2-1		MPT-13-MW3-1		MPT-13-MW4-1		MPT-13-MW5-1	
	SAMPLE MATRIX:	WATER		WATER		WATER		WATER		WATER	
	DATE SAMPLED:	02/11/92		02/11/92		02/11/92		02/05/92		02/05/92	
	LAB NUMBER:	20884		20884		20884		20850		20850	
	UNITS:	µg/l		µg/l		µg/l		µg/l		µg/l	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
10061-02-6	trans-1,3-Dichloropropene	5	U	5	U	5	U	5	U	5	U
110-75-8	2-Chloroethylvinylether	10	U	10	U	10	U	10	U	10	U
75-25-2	Bromoform	5	U	5	U	5	U	5	U	5	U
591-78-6	2-Hexanone	10	U	10	U	10	U	10	U	10	U
108-10-1	4-Methyl-2-Pentanone	10	U	10	U	10	U	10	U	10	U
127-18-4	Tetrachloroethene	5	U	5	U	5	U	5	U	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U	5	U	5	U	5	U	5	U
108-88-3	Toluene	5	U	5	U	5	U	5	U	5	U
108-90-7	Chlorobenzene	5	U	5	U	5	U	5	U	5	U
100-41-4	Ethylbenzene	5	U	5	U	5	U	5	U	5	U
100-42-5	Styrene	5	U	5	U	5	U	5	U	5	U
1330-20-7	Xylene (total)	5	U	5	U	5	U	5	U	5	U
541-73-1	1,3-Dichlorobenzene	5	U	5	U	5	U	5	U	5	U
106-46-7	1,4-Dichlorobenzene	5	U	5	U	5	U	5	U	5	U
95-50-1	1,2-Dichlorobenzene	5	U	5	U	5	U	5	U	5	U
107-02-8	Acrolein	100	U	100	U	100	U	100	U	100	U
74-88-4	Iodomethane	10	U	10	U	10	U	10	U	10	U
107-13-1	Acrylonitrile	100	U	100	U	100	U	100	U	100	U
74-95-3	Dibromomethane	5	U	5	U	5	U	5	U	5	U
97-63-2	Ethyl Methacrylate	5	U	5	U	5	U	5	U	5	U
96-18-4	1,2,3-Trichloropropane	5	U	5	U	5	U	5	U	5	U
110-57-6	trans-1,4-Dichloro-2-butene	5	U	5	U	5	U	5	U	5	U
75-05-8	Acetonitrile	100	U	100	U	100	U	100	U	100	U
107-05-1	3-Chloropropene	5	U	5	U	5	U	5	U	5	U

*Blank entries indicate that sample was not analyzed for that analyte group

VOLATILE ORGANIC COMPOUNDS: GROUNDWATER

	A:\MPTDAT6.WK1									
	LOCATION:	MPT-13-MW1-1		MPT-13-MW2-1		MPT-13-MW3-1		MPT-13-MW4-1		MPT-13-MW5-1	
	SAMPLE MATRIX:	WATER		WATER		WATER		WATER		WATER	
	DATE SAMPLED:	02/11/92		02/11/92		02/11/92		02/05/92		02/05/92	
	LAB NUMBER:	20884		20884		20884		20850		20850	
	UNITS:	µg/l		µg/l		µg/l		µg/l		µg/l	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
107-12-0	Propionitrile	100	U	100	U	100	U	100	U	100	U
126-98-7	Methacrylonitrile	5	U	5	U	5	U	5	U	5	U
123-91-1	1,4-Dioxane	200	U	200	U	200	U	200	U	200	U
80-62-6	Methyl methacrylate	10	U	10	U	10	U	10	U	10	U
106-93-4	1,2-Dibromoethane	5	U	5	U	5	U	5	U	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U	5	U	5	U	5	U	5	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U	10	U	10	U	10	U	10	U
76-01-7	Pentachloroethane	10	U	10	U	10	U	10	U	10	U
78-83-1	Isobutyl alcohol	200	U	200	U	200	U	200	U	200	U
126-99-8	Chloroprene	200	U	200	U	200	U	200	U	200	U

*Blank entries indicate that sample was not analyzed for that analyte group

VOLATILE ORGANIC COMPOUNDS: GROUNDWATER

	A:\MPTDAT6.WK1							
	LOCATION:	MPT-13-MW6-1		MPT-22-MW1-1		MPT-1-MW1-1		MPT-S-1-1	
	SAMPLE MATRIX:	WATER		WATER		WATER		WATER	
	DATE SAMPLED:	02/11/92		02/05/92		02/12/92		02/12/92	
	LAB NUMBER:	20884		20837		20902		20902	
	UNITS:	µg/l		µg/l		µg/l		µg/l	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
74-87-3	Chloromethane	10	U	10	U	10	U	10	U
74-83-9	Bromomethane	10	U	10	U	10	U	10	U
75-01-4	Vinyl chloride	10	U	2	U	10	U	10	U
75-00-3	Chloroethane	10	U	10	U	10	U	10	U
75-09-2	Methylene chloride	7	B	3	J	7	B	7	B
67-64-1	Acetone	16	B	8	BJ	3	BJ	5	BJ
75-15-0	Carbon disulfide	5	U	5	U	5	U	1	J
75-69-4	Trichlorofluoromethane	5	U	5	U	5	U	5	U
75-35-4	1,1-Dichloroethylene	5	U	5	U	5	U	5	U
75-34-3	1,1-Dichloroethane	5	U	5	U	5	U	5	U
540-59-0	1,2-Dichloroethene (total)	5	U	5	U	5	U	5	U
67-66-3	Chloroform	5	U	5	U	5	U	5	U
107-06-2	1,2-Dichloroethane	5	U	5	U	5	U	5	U
78-93-3	2-Butanone	10	U	10	U	10	U	10	U
71-55-6	1,1,1-Trichloroethane	5	U	5	U	5	U	5	U
56-23-5	Carbon tetrachloride	5	U	3	U	5	U	5	U
108-05-4	Vinyl acetate	10	U	10	U	10	U	10	U
75-27-4	Bromodichloromethane	5	U	5	U	5	U	5	U
78-87-5	1,2-Dichloropropane	5	U	5	U	5	U	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U	5	U	5	U	5	U
79-01-6	Trichloroethene	5	U	5	U	5	U	5	U
124-48-1	Dibromochloromethane	5	U	5	U	5	U	5	U
79-00-5	1,1,2-Trichloroethane	5	U	5	U	5	U	5	U
71-43-2	Benzene	5	U	1	U	5	U	5	U

*Blank entries indicate that sample was not analyzed for that analyte group

VOLATILE ORGANIC COMPOUNDS: GROUNDWATER

	A:\MPTDAT6.WK1							
	LOCATION:	MPT-13-MW6-1		MPT-22-MW1-1		MPT-1-MW1-1		MPT-S-1-1	
	SAMPLE MATRIX:	WATER		WATER		WATER		WATER	
	DATE SAMPLED:	02/11/92		02/05/92		02/12/92		02/12/92	
	LAB NUMBER:	20884		20837		20902		20902	
	UNITS:	µg/l		µg/l		µg/l		µg/l	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
10061-02-6	trans-1,3-Dichloropropene	5	U	5	U	5	U	5	U
110-75-8	2-Chloroethylvinylether	10	U	10	U	10	U	10	U
75-25-2	Bromoform	5	U	5	U	5	U	5	U
591-78-6	2-Hexanone	10	U	10	U	10	U	10	U
108-10-1	4-Methyl-2-Pentanone	10	U	10	U	10	U	10	U
127-18-4	Tetrachloroethene	5	U	3	U	5	U	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U	5	U	5	U	5	U
108-88-3	Toluene	5	U	5	U	5	U	5	U
108-90-7	Chlorobenzene	5	U	5	U	5	U	5	U
100-41-4	Ethylbenzene	5	U	5	U	5	U	5	U
100-42-5	Styrene	5	U	5	U	5	U	5	U
1330-20-7	Xylene (total)	5	U	5	U	5	U	5	U
541-73-1	1,3-Dichlorobenzene	5	U	5	U	5	U	5	U
106-46-7	1,4-Dichlorobenzene	5	U	5	U	5	U	5	U
95-50-1	1,2-Dichlorobenzene	5	U	5	U	5	U	5	U
107-02-8	Acrolein	100	U	100	U	100	U	100	U
74-88-4	Iodomethane	10	U	10	U	10	U	10	U
107-13-1	Acrylonitrile	100	U	100	U	100	U	100	U
74-95-3	Dibromomethane	5	U	5	U	5	U	5	U
97-63-2	Ethyl Methacrylate	5	U	5	U	5	U	5	U
96-18-4	1,2,3-Trichloropropane	5	U	5	U	5	U	5	U
110-57-6	trans-1,4-Dichloro-2-butene	5	U	5	U	5	U	5	U
75-05-8	Acetonitrile	100	U	100	U	100	U	100	U
107-05-1	3-Chloropropene	5	U	5	U	5	U	5	U

*Blank entries indicate that sample was not analyzed for that analyte group

VOLATILE ORGANIC COMPOUNDS: GROUNDWATER

	A:\MPTDAT6.WK1							
	LOCATION:	MPT-13-MW6-1		MPT-22-MW1-1		MPT-1-MW1-1		MPT-S-1-1	
	SAMPLE MATRIX:	WATER		WATER		WATER		WATER	
	DATE SAMPLED:	02/11/92		02/05/92		02/12/92		02/12/92	
	LAB NUMBER:	20884		20837		20902		20902	
	UNITS:	µg/l		µg/l		µg/l		µg/l	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
107-12-0	Propionitrile	100	U	100	U	100	U	100	U
126-98-7	Methacrylonitrile	5	U	5	U	5	U	5	U
123-91-1	1,4-Dioxane	200	U	200	U	200	U	200	U
80-62-6	Methyl methacrylate	10	U	10	U	10	U	10	U
106-93-4	1,2-Dibromoethane	5	U	5	U	5	U	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U	5	U	5	U	5	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U	10	U	10	U	10	U
76-01-7	Pentachloroethane	10	U	10	U	10	U	10	U
78-83-1	Isobutyl alcohol	200	U	200	U	200	U	200	U
126-99-8	Chloroprene	200	U	200	U	200	U	200	U

*Blank entries indicate that sample was not analyzed for that analyte group

VOLATILE ORGANIC COMPOUNDS: GROUNDWATER

	A:\MPTDAT4.WK1		
	LOCATION:	MPT-2-MW8-1	
	SAMPLE MATRIX:	WATER	
	DATE SAMPLED:	02/10/92	
	LAB NUMBER:	20877	
	UNITS:	µg/l	
CAS RN	Common name	Conc.	Qual.
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	4	BJ
67-64-1	Acetone	7	BJ
75-15-0	Carbon disulfide	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethylene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon tetrachloride	5	U
108-05-4	Vinyl acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U

*Blank entries indicate that sample was not analyzed for that analyte group

VOLATILE ORGANIC COMPOUNDS: GROUNDWATER

	A:\MPTDAT4.WK1		
	LOCATION:	MPT-2-MW8-1	
	SAMPLE MATRIX:	WATER	
	DATE SAMPLED:	02/10/92	
	LAB NUMBER:	20877	
	UNITS:	µg/l	
CAS RN	Common name	Conc.	Qual.
10061-02-6	trans-1,3-Dichloropropene	5	U
110-75-8	2-Chloroethylvinylether	10	U
75-25-2	Bromoform	5	U
591-78-6	2-Hexanone	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
107-02-8	Acrolein	100	U
74-88-4	Iodomethane	10	U
107-13-1	Acrylonitrile	100	U
74-95-3	Dibromomethane	5	U
97-63-2	Ethyl Methacrylate	5	U
96-18-4	1,2,3-Trichloropropane	5	U
110-57-6	trans-1,4-Dichloro-2-butene	5	U
75-05-8	Acetonitrile	100	U
107-05-1	3-Chloropropene	5	U

*Blank entries indicate that sample was not analyzed for that analyte group

VOLATILE ORGANIC COMPOUNDS: GROUNDWATER

	A:\MPTDAT4.WK1		
	LOCATION:	MPT-2-MW8-1	
	SAMPLE MATRIX:	WATER	
	DATE SAMPLED:	02/10/92	
	LAB NUMBER:	20877	
	UNITS:	µg/l	
CAS RN	Common name	Conc.	Qual.
107-12-0	Propionitrile	100	U
126-98-7	Methacrylonitrile	5	U
123-91-1	1,4-Dioxane	200	U
80-62-6	Methyl methacrylate	10	U
106-93-4	1,2-Dibromoethane	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
76-01-7	Pentachloroethane	10	U
78-83-1	Isobutyl alcohol	200	U
126-99-8	Chloroprene	200	U

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: GROUNDWATER

	A:\MPTDAT4.WK1										
	LOCATION:	MPT-2-MW1-1		MPT-2-MW2-1		MPT-2-MW2-1D		MPT-2-MW3-1		MPT-2-MW4-1	
	SAMPLE MATRIX:	WATER		WATER		WATER		WATER		WATER	
	DATE SAMPLED:	02/11/92		02/11/92		02/11/92		02/09/92		02/10/92	
	LAB NUMBER:	20884		20884		20884		20866		20877	
	UNITS:	µg/l		µg/l		µg/l		µg/l		µg/l	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
62-75-9	N-Nitrosodimethylamine	10	U	10	U	10	U	10	U	10	U
108-95-2	Phenol	10	U	10	U	10	U	10	U	10	U
62-53-3	Aniline	10	U	10	U	10	U	10	U	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U	10	U	10	U	10	U	10	U
95-57-8	2-Chlorophenol	10	U	10	U	10	U	10	U	10	U
541-73-1	1,3-Dichlorobenzene	10	U	10	U	10	U	10	U	10	U
106-46-7	1,4-Dichlorobenzene	10	U	10	U	10	U	10	U	10	U
100-51-6	Benzyl alcohol	10	U	10	U	10	U	10	U	10	U
95-50-1	1,2-Dichlorobenzene	10	U	10	U	10	U	10	U	10	U
95-48-7	2-Methylphenol	10	U	10	U	10	U	10	U	10	U
39638-32-9	bis(2-chloroethyl)Ether	10	U	10	U	10	U	10	U	10	U
106-44-5	4-Methylphenol	10	U	10	U	10	U	10	U	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U	10	U	10	U	10	U	10	U
67-72-1	Hexachloroethane	10	U	10	U	10	U	10	U	10	U
98-95-3	Nitrobenzene	10	U	10	U	10	U	10	U	10	U
78-59-1	Isophorone	10	U	10	U	10	U	10	U	10	U
88-75-5	2-Nitrophenol	10	U	10	U	10	U	10	U	10	U
105-67-9	2,4-Dimethylphenol	10	U	10	U	10	U	10	U	10	U
65-?5-0	Benzoic Acid	50	U	50	U	50	U	50	U	50	U
111-91-1	Bis(2-chloroethoxy)methane	10	U	10	U	10	U	10	U	10	U
120-83-2	2,4-Dichlorophenol	10	U	10	U	10	U	10	U	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U	10	U	10	U	10	U	10	U
91-20-3	Naphthalene	10	U	10	U	10	U	10	U	10	U
106-47-8	4-Chloroaniline	10	U	10	U	10	U	10	U	10	U

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: GROUNDWATER

	A:\MPTDAT4.WK1									
	LOCATION:	MPT-2-MW1-1		MPT-2-MW2-1		MPT-2-MW2-1D		MPT-2-MW3-1		MPT-2-MW4-1
	SAMPLE MATRIX:	WATER		WATER		WATER		WATER		WATER
	DATE SAMPLED:	02/11/92		02/11/92		02/11/92		02/09/92		02/10/92
	LAB NUMBER:	20884		20884		20884		20866		20877
	UNITS:	µg/l		µg/l		µg/l		µg/l		µg/l
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
87-68-3	Hexachlorobutadiene	10	U	10	U	10	U	10	U	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U	10	U	10	U	10	U	10	U
91-57-6	2-Methylnaphthalene	10	U	10	U	10	U	10	U	10	U
77-47-4	Hexachlorocyclopentadiene	10	U	10	U	10	U	10	U	10	U
88-06-2	2,4,6-Trichlorophenol	10	U	10	U	10	U	10	U	10	U
95-95-4	2,4,5-Trichlorophenol	50	U	50	U	50	U	50	U	50	U
91-58-7	2-Chloronaphthalene	10	U	10	U	10	U	10	U	10	U
88-74-4	2-Nitroaniline	50	U	50	U	50	U	50	U	50	U
131-11-3	Dimethyl phthalate	10	U	10	U	10	U	10	U	10	U
208-96-8	Acenaphthylene	10	U	10	U	10	U	10	U	10	U
606-20-2	2,6-Dinitrotoluene	10	U	10	U	10	U	10	U	10	U
99-09-2	3-Nitroaniline	50	U	50	U	50	U	50	U	50	U
83-32-9	Acenaphthene	10	U	39		52		10	U	10	U
51-28-5	2,4-Dinitrophenol	50	U	50	U	50	U	50	U	50	U
100-02-7	4-Nitrophenol	50	U	50	U	50	U	50	U	50	U
132-64-9	Dibenzofuran	10	U	10	U	10	U	10	U	10	U
121-14-2	2,4-Dinitrotoluene	10	U	10	U	10	U	10	U	10	U
84-66-2	Diethyl phthalate	10	U	10	U	10	U	10	U	10	U
7005-72-3	4-Chlorophenyl phenyl ether	10	U	10	U	10	U	10	U	10	U
86-73-7	Fluorene	10	U	3	J	4	J	10	U	10	U
100-10-6	4-Nitroaniline	50	U	50	U	50	U	50	U	50	U
534-52-1	4,6-Dinitro-2-Methylphenol	50	U	50	U	50	U	50	U	50	U
86-30-6	N-Nitrosodiphenylamine	10	U	10	U	10	U	10	U	10	U
122-66-7	1,2-Diphenylhydrazine	10	U	10	U	10	U	10	U	10	U

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: GROUNDWATER

	A:\MPTDAT4.WK1										
	LOCATION:	MPT-2-MW1-1		MPT-2-MW2-1		MPT-2-MW2-1D		MPT-2-MW3-1		MPT-2-MW4-1	
	SAMPLE MATRIX:	WATER		WATER		WATER		WATER		WATER	
	DATE SAMPLED:	02/11/92		02/11/92		02/11/92		02/09/92		02/10/92	
	LAB NUMBER:	20884		20884		20884		20866		20877	
	UNITS:	µg/l		µg/l		µg/l		µg/l		µg/l	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
101-55-3	4-Bromophenyl phenyl ether	10	U	10	U	10	U	10	U	10	U
118-74-1	Hexachlorobenzene	10	U	10	U	10	U	10	U	10	U
87-86-5	Pentachlorophenol	50	U	50	U	50	U	50	U	50	U
85-01-8	Phenanthrene	10	U	10	U	10	U	10	U	10	U
120-12-7	Anthracene	10	U	10	U	10	U	10	U	10	U
84-74-2	Di-n-butyl phthalate	3	BJ	6	BJ	4	BJ	5	BJ	3	J
206-44-0	Fluoranthene	10	U	10	U	10	U	10	U	10	U
129-00-0	Pyrene	10	U	10	U	10	U	10	U	10	U
85-68-7	Butyl benzyl phthalate	10	U	10	U	10	U	10	U	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U	20	U	20	U	20	U	20	U
56-55-3	Benzo[a]anthracene	10	U	10	U	10	U	10	U	10	U
218-01-9	Chrysene	10	U	10	U	10	U	10	U	10	U
117-81-7	Bis(2-ethylhexyl) phthalate	4	J	7	J	5	J	8	J	8	J
117-84-0	Di-n-octyl phthalate	10	U	10	U	10	U	10	U	10	U
205-99-2	Benzo[b]fluoranthene	10	U	10	U	10	U	10	U	10	U
207-08-9	Benzo[k]fluoranthene	10	U	10	U	10	U	10	U	10	U
50-32-8	Benzo[a]pyrene	10	U	10	U	10	U	10	U	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U	10	U	10	U	10	U	10	U
53-70-3	Dibenz[a,h]anthracene	10	U	10	U	10	U	10	U	10	U
191-24-2	Benzo[ghi]perylene	10	U	10	U	10	U	10	U	10	U
109-06-8	2-Picoline	50	U	50	U	50	U	50	U	50	U
66-27-3	Methyl methanesulfonate	10	U	10	U	10	U	10	U	10	U
62-50-0	Ethyl methanesulfonate	10	U	10	U	10	U	10	U	10	U
98-86-2	Acetophenone	10	U	10	U	10	U	10	U	10	U

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: GROUNDWATER

	A:\MPTDAT4.WK1										
	LOCATION:	MPT-2-MW1-1		MPT-2-MW2-1		MPT-2-MW2-1D		MPT-2-MW3-1		MPT-2-MW4-1	
	SAMPLE MATRIX:	WATER		WATER		WATER		WATER		WATER	
	DATE SAMPLED:	02/11/92		02/11/92		02/11/92		02/09/92		02/10/92	
	LAB NUMBER:	20884		20884		20884		20866		20877	
	UNITS:	µg/l		µg/l		µg/l		µg/l		µg/l	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
100-75-4	N-Nitrosopiperidine	10	U	10	U	10	U	10	U	10	U
122-09-8	Phenyl-tert-butylamine	50	U	50	U	50	U	50	U	50	U
87-65-0	2,6-Dichlorophenol	10	U	10	U	10	U	10	U	10	U
924-16-3	N-Nitrosodi-n-butylamine	10	U	10	U	10	U	10	U	10	U
55-18-5	N-Nitrosodiethylamine	10	U	10	U	10	U	10	U	10	U
930-55-2	N-Nitrosopyrrolidine	10	U	10	U	10	U	10	U	10	U
92-87-5	Benzidine	50	U	50	U	50	U	50	U	50	U
95-94-3	1,2,4,5-Tetrachlorobenzene	50	U	50	U	50	U	50	U	50	U
608-93-5	Pentachlorobenzene	50	U	50	U	50	U	50	U	50	U
134-32-7	1-Naphthylamine	50	U	50	U	50	U	50	U	50	U
91-59-8	2-Naphthylamine	50	U	50	U	50	U	50	U	50	U
58-90-2	2,3,4,6-Tetrachlorophenol	10	U	10	U	10	U	10	U	10	U
122-39-4	Diphenylamine	10	U	10	U	10	U	10	U	10	U
62-44-2	Phenacetin	10	U	10	U	10	U	10	U	10	U
92-67-1	4-Aminobiphenyl	50	U	50	U	50	U	50	U	50	U
82-68-8	Pentachloronitrobenzene	50	U	50	U	50	U	50	U	50	U
23950-58-5	Pronamide	10	U	10	U	10	U	10	U	10	U
60-11-7	p-(Dimethylamino)azobenzene	10	U	10	U	10	U	10	U	10	U
57-97-6	7,12-Dimethylbenz[a]anthracene	10	U	10	U	10	U	10	U	10	U
56-49-5	Methylcholanthrene	10	U	10	U	10	U	10	U	10	U
110-86-1	Pyridine	50	U	50	U	50	U	50	U	50	U
10595-95-6	N-Nitrosomethylethylamine	10	U	10	U	10	U	10	U	10	U
59-89-2	N-Nitrosomorpholine	10	U	10	U	10	U	10	U	10	U
95-53-4	o-Toluidine	10	U	10	U	10	U	10	U	10	U

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: GROUNDWATER

	A:\MPTDAT4.WK1										
	LOCATION:	MPT-2-MW1-1		MPT-2-MW2-1		MPT-2-MW2-1D		MPT-2-MW3-1		MPT-2-MW4-1	
	SAMPLE MATRIX:	WATER		WATER		WATER		WATER		WATER	
	DATE SAMPLED:	02/11/92		02/11/92		02/11/92		02/09/92		02/10/92	
	LAB NUMBER:	20884		20884		20884		20866		20877	
	UNITS:	µg/l		µg/l		µg/l		µg/l		µg/l	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
108-39-4	3-Methylphenol	10	U	10	U	10	U	10	U	10	U
1888-71-7	Hexachloropropene	50	U	50	U	50	U	50	U	50	U
106-50-3	p-Phenylenediamine	50	U	50	U	50	U	50	U	50	U
94-59-7	Safrole	50	U	50	U	50	U	50	U	50	U
120-58-1	Isosafrole	50	U	50	U	50	U	50	U	50	U
130-15-4	1,4-Naphthoquinone	50	U	50	U	50	U	50	U	50	U
99-65-0	1,3-Dinitrobenzene	10	U	10	U	10	U	10	U	10	U
99-55-8	5-Nitro-o-toluidine	10	U	10	U	10	U	10	U	10	U
99-35-4	1,3,5-Trinitrobenzene	10	U	10	U	10	U	10	U	10	U
56-57-5	4-Nitroquinoline 1-oxide	10	U	10	U	10	U	10	U	10	U
91-80-5	Methapyrilene	50	U	50	U	50	U	50	U	50	U
119-93-7	3,3'-Dimethylbenzidine	10	U	10	U	10	U	10	U	10	U
53-96-3	2-Acetylaminofluorene	10	U	10	U	10	U	10	U	10	U
70-30-4	Hexachlorophene	50	U	50	U	50	U	50	U	50	U

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: GROUNDWATER

	A:\MPTDAT4.WK1										
	LOCATION:	MPT-2-MW5-1		MPT-2-MW5-1D		MPT-2-MW6-1		MPT-2-MW7S-1		MPT-2-MW7D-1	
	SAMPLE MATRIX:	WATER		WATER		WATER		WATER		WATER	
	DATE SAMPLED:	02/10/92		02/10/92		02/11/92		02/11/92		02/11/92	
	LAB NUMBER:	20877		20877		20884		20884		20884	
	UNITS:	µg/l		µg/l		µg/l		µg/l		µg/l	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
62-75-9	N-Nitrosodimethylamine	10	U	10	U	10	U	10	U	10	U
108-95-2	Phenol	10	U	10	U	10	U	10	U	10	U
62-53-3	Aniline	10	U	10	U	10	U	10	U	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U	10	U	10	U	10	U	10	U
95-57-8	2-Chlorophenol	10	U	10	U	10	U	10	U	10	U
541-73-1	1,3-Dichlorobenzene	10	U	10	U	10	U	10	U	10	U
106-46-7	1,4-Dichlorobenzene	10	U	10	U	10	U	10	U	10	U
100-51-6	Benzyl alcohol	10	U	10	U	10	U	10	U	10	U
95-50-1	1,2-Dichlorobenzene	10	U	10	U	10	U	10	U	10	U
95-48-7	2-Methylphenol	10	U	10	U	10	U	10	U	10	U
39638-32-9	bis(2-chloroethyl)Ether	10	U	10	U	10	U	10	U	10	U
106-44-5	4-Methylphenol	10	U	10	U	10	U	10	U	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U	10	U	10	U	10	U	10	U
67-72-1	Hexachloroethane	10	U	10	U	10	U	10	U	10	U
98-95-3	Nitrobenzene	10	U	10	U	10	U	10	U	10	U
78-59-1	Isophorone	10	U	10	U	10	U	10	U	10	U
88-75-5	2-Nitrophenol	10	U	10	U	10	U	10	U	10	U
105-67-9	2,4-Dimethylphenol	10	U	10	U	10	U	10	U	10	U
65-?5-0	Benzoic Acid	50	U	50	U	50	U	50	U	50	U
111-91-1	Bis(2-chloroethoxy)methane	10	U	10	U	10	U	10	U	10	U
120-83-2	2,4-Dichlorophenol	10	U	10	U	10	U	10	U	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U	10	U	10	U	10	U	10	U
91-20-3	Naphthalene	10	U	10	U	10	U	10	U	10	U
106-47-8	4-Chloroaniline	10	U	10	U	10	U	10	U	10	U

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: GROUNDWATER

	A:\MPTDAT4.WK1										
	LOCATION:	MPT-2-MW5-1		MPT-2-MW5-1D		MPT-2-MW6-1		MPT-2-MW7S-1		MPT-2-MW7D-1	
	SAMPLE MATRIX:	WATER		WATER		WATER		WATER		WATER	
	DATE SAMPLED:	02/10/92		02/10/92		02/11/92		02/11/92		02/11/92	
	LAB NUMBER:	20877		20877		20884		20884		20884	
	UNITS:	µg/l		µg/l		µg/l		µg/l		µg/l	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
87-68-3	Hexachlorobutadiene	10	U	10	U	10	U	10	U	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U	10	U	10	U	10	U	10	U
91-57-6	2-Methylnaphthalene	10	U	10	U	10	U	10	U	10	U
77-47-4	Hexachlorocyclopentadiene	10	U	10	U	10	U	10	U	10	U
88-06-2	2,4,6-Trichlorophenol	10	U	10	U	10	U	10	U	10	U
95-95-4	2,4,5-Trichlorophenol	50	U	50	U	50	U	50	U	50	U
91-58-7	2-Chloronaphthalene	10	U	10	U	10	U	10	U	10	U
88-74-4	2-Nitroaniline	50	U	50	U	50	U	50	U	50	U
131-11-3	Dimethyl phthalate	10	U	10	U	10	U	10	U	10	U
208-96-8	Acenaphthylene	10	U	10	U	10	U	10	U	10	U
606-20-2	2,6-Dinitrotoluene	10	U	10	U	10	U	10	U	10	U
99-09-2	3-Nitroaniline	50	U	50	U	50	U	50	U	50	U
83-32-9	Acenaphthene	10	U	10	U	10	U	10	U	10	U
51-28-5	2,4-Dinitrophenol	50	U	50	U	50	U	50	U	50	U
100-02-7	4-Nitrophenol	50	U	50	U	50	U	50	U	50	U
132-64-9	Dibenzofuran	10	U	10	U	10	U	10	U	10	U
121-14-2	2,4-Dinitrotoluene	10	U	10	U	10	U	10	U	10	U
84-66-2	Diethyl phthalate	10	U	10	U	10	U	10	U	10	U
7005-72-3	4-Chlorophenyl phenyl ether	10	U	10	U	10	U	10	U	10	U
86-73-7	Fluorene	10	U	10	U	10	U	10	U	10	U
100-10-6	4-Nitroaniline	50	U	50	U	50	U	50	U	50	U
534-52-1	4,6-Dinitro-2-Methylphenol	50	U	50	U	50	U	50	U	50	U
86-30-6	N-Nitrosodiphenylamine	10	U	10	U	10	U	10	U	10	U
122-66-7	1,2-Diphenylhydrazine	10	U	10	U	10	U	10	U	10	U

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: GROUNDWATER

	A:\MPTDAT4.WK1										
	LOCATION:	MPT-2-MW5-1		MPT-2-MW5-1D		MPT-2-MW6-1		MPT-2-MW7S-1		MPT-2-MW7D-1	
	SAMPLE MATRIX:	WATER		WATER		WATER		WATER		WATER	
	DATE SAMPLED:	02/10/92		02/10/92		02/11/92		02/11/92		02/11/92	
	LAB NUMBER:	20877		20877		20884		20884		20884	
	UNITS:	µg/l		µg/l		µg/l		µg/l		µg/l	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
101-55-3	4-Bromophenyl phenyl ether	10	U	10	U	10	U	10	U	10	U
118-74-1	Hexachlorobenzene	10	U	10	U	10	U	10	U	10	U
87-86-5	Pentachlorophenol	50	U	50	U	50	U	50	U	50	U
85-01-8	Phenanthrene	10	U	10	U	10	U	10	U	10	U
120-12-7	Anthracene	10	U	10	U	10	U	10	U	10	U
84-74-2	Di-n-butyl phthalate	2	BJ	10	U	3	J	3	BJ	4	BJ
206-44-0	Fluoranthene	10	U	10	U	10	U	10	U	10	U
129-00-0	Pyrene	10	U	10	U	10	U	10	U	10	U
85-68-7	Butyl benzyl phthalate	10	U	10	U	10	U	10	U	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U	20	U	20	U	20	U	20	U
56-55-3	Benzo[a]anthracene	10	U	10	U	10	U	10	U	10	U
218-01-9	Chrysene	10	U	10	U	10	U	10	U	10	U
117-81-7	Bis(2-ethylhexyl) phthalate	2	BJ	10	U	17		6	J	10	
117-84-0	Di-n-octyl phthalate	10	U	10	U	10	U	10	U	10	U
205-99-2	Benzo[b]fluoranthene	10	U	10	U	10	U	10	U	10	U
207-08-9	Benzo[k]fluoranthene	10	U	10	U	10	U	10	U	10	U
50-32-8	Benzo[a]pyrene	10	U	10	U	10	U	10	U	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U	10	U	10	U	10	U	10	U
53-70-3	Dibenz[a,h]anthracene	10	U	10	U	10	U	10	U	10	U
191-24-2	Benzo[ghi]perylene	10	U	10	U	10	U	10	U	10	U
109-06-8	2-Picoline	50	U	50	U	50	U	50	U	50	U
66-27-3	Methyl methanesulfonate	10	U	10	U	10	U	10	U	10	U
62-50-0	Ethyl methanesulfonate	10	U	10	U	10	U	10	U	10	U
98-86-2	Acetophenone	10	U	10	U	10	U	10	U	10	U

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: GROUNDWATER

	A:\MPTDAT4.WK1										
	LOCATION:	MPT-2-MW5-1		MPT-2-MW5-1D		MPT-2-MW6-1		MPT-2-MW7S-1		MPT-2-MW7D-1	
	SAMPLE MATRIX:	WATER		WATER		WATER		WATER		WATER	
	DATE SAMPLED:	02/10/92		02/10/92		02/11/92		02/11/92		02/11/92	
	LAB NUMBER:	20877		20877		20884		20884		20884	
	UNITS:	µg/l		µg/l		µg/l		µg/l		µg/l	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
100-75-4	N-Nitrosopiperidine	10	U	10	U	10	U	10	U	10	U
122-09-8	Phenyl-tert-butylamine	50	U	50	U	50	U	50	U	50	U
87-65-0	2,6-Dichlorophenol	10	U	10	U	10	U	10	U	10	U
924-16-3	N-Nitrosodi-n-butylamine	10	U	10	U	10	U	10	U	10	U
55-18-5	N-Nitrosodiethylamine	10	U	10	U	10	U	10	U	10	U
930-55-2	N-Nitrosopyrrolidine	10	U	10	U	10	U	10	U	10	U
92-87-5	Benzidine	50	U	50	U	50	U	50	U	50	U
95-94-3	1,2,4,5-Tetrachlorobenzene	50	U	50	U	50	U	50	U	50	U
608-93-5	Pentachlorobenzene	50	U	50	U	50	U	50	U	50	U
134-32-7	1-Naphthylamine	50	U	50	U	50	U	50	U	50	U
91-59-8	2-Naphthylamine	50	U	50	U	50	U	50	U	50	U
58-90-2	2,3,4,6-Tetrachlorophenol	10	U	10	U	10	U	10	U	10	U
122-39-4	Diphenylamine	10	U	10	U	10	U	10	U	10	U
62-44-2	Phenacetin	10	U	10	U	10	U	10	U	10	U
92-67-1	4-Aminobiphenyl	50	U	50	U	50	U	50	U	50	U
82-68-8	Pentachloronitrobenzene	50	U	50	U	50	U	50	U	50	U
23950-58-5	Pronamide	10	U	10	U	10	U	10	U	10	U
60-11-7	p-(Dimethylamino)azobenzene	10	U	10	U	10	U	10	U	10	U
57-97-6	7,12-Dimethylbenz[a]anthracene	10	U	10	U	10	U	10	U	10	U
56-49-5	Methylcholanthrene	10	U	10	U	10	U	10	U	10	U
110-86-1	Pyridine	50	U	50	U	50	U	50	U	50	U
10595-95-6	N-Nitrosomethylethylamine	10	U	10	U	10	U	10	U	10	U
59-89-2	N-Nitrosomorpholine	10	U	10	U	10	U	10	U	10	U
95-53-4	o-Toluidine	10	U	10	U	10	U	10	U	10	U

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: GROUNDWATER

	A:\MPTDAT4.WK1									
	LOCATION:	MPT-2-MW5-1		MPT-2-MW5-1D		MPT-2-MW6-1		MPT-2-MW7S-1		MPT-2-MW7D-1
	SAMPLE MATRIX:	WATER		WATER		WATER		WATER		WATER
	DATE SAMPLED:	02/10/92		02/10/92		02/11/92		02/11/92		02/11/92
	LAB NUMBER:	20877		20877		20884		20884		20884
	UNITS:	µg/l		µg/l		µg/l		µg/l		µg/l
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
108-39-4	3-Methylphenol	10	U	10	U	10	U	10	U	10	U
1888-71-7	Hexachloropropene	50	U	50	U	50	U	50	U	50	U
106-50-3	p-Phenylenediamine	50	U	50	U	50	U	50	U	50	U
94-59-7	Safrole	50	U	50	U	50	U	50	U	50	U
120-58-1	Isosafrole	50	U	50	U	50	U	50	U	50	U
130-15-4	1,4-Naphthoquinone	50	U	50	U	50	U	50	U	50	U
99-65-0	1,3-Dinitrobenzene	10	U	10	U	10	U	10	U	10	U
99-55-8	5-Nitro-o-toluidine	10	U	10	U	10	U	10	U	10	U
99-35-4	1,3,5-Trinitrobenzene	10	U	10	U	10	U	10	U	10	U
56-57-5	4-Nitroquinoline 1-oxide	10	U	10	U	10	U	10	U	10	U
91-80-5	Methapyrilene	50	U	50	U	50	U	50	U	50	U
119-93-7	3,3'-Dimethylbenzidine	10	U	10	U	10	U	10	U	10	U
53-96-3	2-Acetylaminofluorene	10	U	10	U	10	U	10	U	10	U
70-30-4	Hexachlorophene	50	U	50	U	50	U	50	U	50	U

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: GROUNDWATER

	A:\MPTDAT4.WK1		
	LOCATION:	MPT-2-MW8-1	
	SAMPLE MATRIX:	WATER	
	DATE SAMPLED:	02/10/92	
	LAB NUMBER:	20877	
	UNITS:	µg/l	
CAS RN	Common name	Conc.	Qual.
62-75-9	N-Nitrosodimethylamine	10	U
108-95-2	Phenol	10	U
62-53-3	Aniline	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
39638-32-9	bis(2-chloroethyl)Ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	13	
65-?5-0	Benzoic Acid	50	U
111-91-1	Bis(2-chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: GROUNDWATER

	A:\MPTDAT4.WK1		
	LOCATION:	MPT-2-MW8-1	
	SAMPLE MATRIX:	WATER	
	DATE SAMPLED:	02/10/92	
	LAB NUMBER:	20877	
	UNITS:	µg/l	
CAS RN	Common name	Conc.	Qual.
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethyl phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethyl phthalate	10	U
7005-72-3	4-Chlorophenyl phenyl ether	10	U
86-73-7	Fluorene	10	U
100-10-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-Methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine	10	U
122-66-7	1,2-Diphenylhydrazine	10	U

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: GROUNDWATER

	A:\MPTDAT4.WK1		
	LOCATION:	MPT-2-MW8-1	
	SAMPLE MATRIX:	WATER	
	DATE SAMPLED:	02/10/92	
	LAB NUMBER:	20877	
	UNITS:	µg/l	
CAS RN	Common name	Conc.	Qual.
101-55-3	4-Bromophenyl phenyl ether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-butyl phthalate	3	BJ
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butyl benzyl phthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo[a]anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	Bis(2-ethylhexyl) phthalate	4	BJ
117-84-0	Di-n-octyl phthalate	10	U
205-99-2	Benzo[b]fluoranthene	10	U
207-08-9	Benzo[k]fluoranthene	10	U
50-32-8	Benzo[a]pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz[a,h]anthracene	10	U
191-24-2	Benzo[ghi]perylene	10	U
109-06-8	2-Picoline	50	U
66-27-3	Methyl methanesulfonate	10	U
62-50-0	Ethyl methanesulfonate	10	U
98-86-2	Acetophenone	10	U

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: GROUNDWATER

	A:\MPTDAT4.WK1		
	LOCATION:	MPT-2-MW8-1	
	SAMPLE MATRIX:	WATER	
	DATE SAMPLED:	02/10/92	
	LAB NUMBER:	20877	
	UNITS:	µg/l	
CAS RN	Common name	Conc.	Qual.
100-75-4	N-Nitrosopiperidine	10	U
122-09-8	Phenyl-tert-butylamine	50	U
87-65-0	2,6-Dichlorophenol	10	U
924-16-3	N-Nitrosodi-n-butylamine	10	U
55-18-5	N-Nitrosodiethylamine	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
92-87-5	Benzidine	50	U
95-94-3	1,2,4,5-Tetrachlorobenzene	50	U
608-93-5	Pentachlorobenzene	50	U
134-32-7	1-Naphthylamine	50	U
91-59-8	2-Naphthylamine	50	U
58-90-2	2,3,4,6-Tetrachlorophenol	10	U
122-39-4	Diphenylamine	10	U
62-44-2	Phenacetin	10	U
92-67-1	4-Aminobiphenyl	50	U
82-68-8	Pentachloronitrobenzene	50	U
23950-58-5	Pronamide	10	U
60-11-7	p-(Dimethylamino)azobenzene	10	U
57-97-6	7,12-Dimethylbenz[a]anthracene	10	U
56-49-5	Methylcholanthrene	10	U
110-86-1	Pyridine	50	U
10595-95-6	N-Nitrosomethylethylamine	10	U
59-89-2	N-Nitrosomorpholine	10	U
95-53-4	o-Toluidine	10	U

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: GROUNDWATER

	A:\MPTDAT4.WK1		
	LOCATION:	MPT-2-MW8-1	
	SAMPLE MATRIX:	WATER	
	DATE SAMPLED:	02/10/92	
	LAB NUMBER:	20877	
	UNITS:	µg/l	
CAS RN	Common name	Conc.	Qual.
108-39-4	3-Methylphenol	10	U
1888-71-7	Hexachloropropene	50	U
106-50-3	p-Phenylenediamine	50	U
94-59-7	Safrole	50	U
120-58-1	Isosafrole	50	U
130-15-4	1,4-Naphthoquinone	50	U
99-65-0	1,3-Dinitrobenzene	10	U
99-55-8	5-Nitro-o-toluidine	10	U
99-35-4	1,3,5-Trinitrobenzene	10	U
56-57-5	4-Nitroquinoline 1-oxide	10	U
91-80-5	Methapyrilene	50	U
119-93-7	3,3'-Dimethylbenzidine	10	U
53-96-3	2-Acetylaminofluorene	10	U
70-30-4	Hexachlorophene	50	U

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: GROUNDWATER

	A:\MPTDAT5.WK1										
	LOCATION:	MPT-2-MW9S-1		MPT-2-MW9D-1		MPT-2-MW10-1		MPT-2-MW11-1		MPT-2-MW12S-1	
	SAMPLE MATRIX:	WATER		WATER		WATER		WATER		WATER	
	DATE SAMPLED:	02/09/92		02/09/92		02/10/92		02/05/92		02/05/92	
	LAB NUMBER:	20866		20866		20877		20837		20837	
	UNITS:	µg/l		µg/l		µg/l		µg/l		µg/l	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
62-75-9	N-Nitrosodimethylamine	10	U	10	U	10	U	10	U	10	U
108-95-2	Phenol	10	U	10	U	10	U	10	U	10	U
62-53-3	Aniline	10	U	10	U	10	U	10	U	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U	10	U	10	U	10	U	10	U
95-57-8	2-Chlorophenol	10	U	10	U	10	U	10	U	10	U
541-73-1	1,3-Dichlorobenzene	10	U	10	U	10	U	10	U	10	U
106-46-7	1,4-Dichlorobenzene	10	U	10	U	10	U	10	U	10	U
100-51-6	Benzyl alcohol	10	U	10	U	10	U	10	U	10	U
95-50-1	1,2-Dichlorobenzene	10	U	10	U	10	U	10	U	10	U
95-48-7	2-Methylphenol	10	U	10	U	10	U	10	U	10	U
39638-32-9	bis(2-chloroethyl)Ether	10	U	10	U	10	U	10	U	10	U
106-44-5	4-Methylphenol	10	U	10	U	10	U	10	U	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U	10	U	10	U	10	U	10	U
67-72-1	Hexachloroethane	10	U	10	U	10	U	10	U	10	U
98-95-3	Nitrobenzene	10	U	10	U	10	U	10	U	10	U
78-59-1	Isophorone	10	U	10	U	10	U	10	U	10	U
88-75-5	2-Nitrophenol	10	U	10	U	10	U	10	U	10	U
105-67-9	2,4-Dimethylphenol	10	U	10	U	10	U	10	U	10	U
65-?5-0	Benzoic Acid	50	U	50	U	50	U	50	U	50	U
111-91-1	Bis(2-chloroethoxy)methane	10	U	10	U	10	U	10	U	10	U
120-83-2	2,4-Dichlorophenol	10	U	10	U	10	U	10	U	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U	10	U	10	U	10	U	10	U
91-20-3	Naphthalene	10	U	10	U	10	U	10	U	10	U
106-47-8	4-Chloroaniline	10	U	10	U	10	U	10	U	10	U

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: GROUNDWATER

	A:\MPTDAT5.WK1									
	LOCATION:	MPT-2-MW9S-1		MPT-2-MW9D-1		MPT-2-MW10-1		MPT-2-MW11-1		MPT-2-MW12S-1	
	SAMPLE MATRIX:	WATER		WATER		WATER		WATER		WATER	
	DATE SAMPLED:	02/09/92		02/09/92		02/10/92		02/05/92		02/05/92	
	LAB NUMBER:	20866		20866		20877		20837		20837	
	UNITS:	µg/l		µg/l		µg/l		µg/l		µg/l	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
87-68-3	Hexachlorobutadiene	10	U	10	U	10	U	10	U	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U	10	U	10	U	10	U	10	U
91-57-6	2-Methylnaphthalene	10	U	10	U	10	U	10	U	10	U
77-47-4	Hexachlorocyclopentadiene	10	U	10	U	10	U	10	U	10	U
88-06-2	2,4,6-Trichlorophenol	10	U	10	U	10	U	10	U	10	U
95-95-4	2,4,5-Trichlorophenol	50	U	50	U	50	U	50	U	50	U
91-58-7	2-Chloronaphthalene	10	U	10	U	10	U	10	U	10	U
88-74-4	2-Nitroaniline	50	U	50	U	50	U	50	U	50	U
131-11-3	Dimethyl phthalate	10	U	10	U	10	U	10	U	10	U
208-96-8	Acenaphthylene	10	U	10	U	10	U	10	U	10	U
606-20-2	2,6-Dinitrotoluene	10	U	10	U	10	U	10	U	10	U
99-09-2	3-Nitroaniline	50	U	50	U	50	U	50	U	50	U
83-32-9	Acenaphthene	10	U	10	U	10	U	10	U	10	U
51-28-5	2,4-Dinitrophenol	50	U	50	U	50	U	50	U	50	U
100-02-7	4-Nitrophenol	50	U	50	U	50	U	50	U	50	U
132-64-9	Dibenzofuran	10	U	10	U	10	U	10	U	10	U
121-14-2	2,4-Dinitrotoluene	10	U	10	U	10	U	10	U	10	U
84-66-2	Diethyl phthalate	10	U	10	U	10	U	10	U	10	U
7005-72-3	4-Chlorophenyl phenyl ether	10	U	10	U	10	U	10	U	10	U
86-73-7	Fluorene	10	U	10	U	10	U	10	U	10	U
100-10-6	4-Nitroaniline	50	U	50	U	50	U	50	U	50	U
534-52-1	4,6-Dinitro-2-Methylphenol	50	U	50	U	50	U	50	U	50	U
86-30-6	N-Nitrosodiphenylamine	10	U	10	U	10	U	10	U	10	U
122-66-7	1,2-Diphenylhydrazine	10	U	10	U	10	U	10	U	10	U

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: GROUNDWATER

	A:\MPTDAT5.WK1										
	LOCATION:	MPT-2-MW9S-1		MPT-2-MW9D-1		MPT-2-MW10-1		MPT-2-MW11-1		MPT-2-MW12S-1	
	SAMPLE MATRIX:	WATER		WATER		WATER		WATER		WATER	
	DATE SAMPLED:	02/09/92		02/09/92		02/10/92		02/05/92		02/05/92	
	LAB NUMBER:	20866		20866		20877		20837		20837	
	UNITS:	µg/l		µg/l		µg/l		µg/l		µg/l	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
101-55-3	4-Bromophenyl phenyl ether	10	U	10	U	10	U	10	U	10	U
118-74-1	Hexachlorobenzene	10	U	10	U	10	U	10	U	10	U
87-86-5	Pentachlorophenol	50	U	50	U	50	U	50	U	50	U
85-01-8	Phenanthrene	10	U	10	U	10	U	10	U	10	U
120-12-7	Anthracene	10	U	10	U	10	U	10	U	10	U
84-74-2	Di-n-butyl phthalate	2	BJ	6	BJ	10	U	6	BJ	3	BJ
206-44-0	Fluoranthene	10	U	10	U	10	U	10	U	10	U
129-00-0	Pyrene	10	U	10	U	10	U	10	U	10	U
85-68-7	Butyl benzyl phthalate	10	U	10	U	10	U	10	U	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U	20	U	20	U	20	U	20	U
56-55-3	Benzo[a]anthracene	10	U	10	U	10	U	10	U	10	U
218-01-9	Chrysene	10	U	10	U	10	U	10	U	10	U
117-81-7	Bis(2-ethylhexyl) phthalate	6	J	10	U	3	BJ	10	U	10	U
117-84-0	Di-n-octyl phthalate	10	U	10	U	10	U	10	U	10	U
205-99-2	Benzo[b]fluoranthene	10	U	10	U	10	U	10	U	10	U
207-08-9	Benzo[k]fluoranthene	10	U	10	U	10	U	10	U	10	U
50-32-8	Benzo[a]pyrene	10	U	10	U	10	U	10	U	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U	10	U	10	U	10	U	10	U
53-70-3	Dibenz[a,h]anthracene	10	U	10	U	10	U	10	U	10	U
191-24-2	Benzo[ghi]perylene	10	U	10	U	10	U	10	U	10	U
109-06-8	2-Picoline	50	U	50	U	50	U	50	U	50	U
66-27-3	Methyl methanesulfonate	10	U	10	U	10	U	10	U	10	U
62-50-0	Ethyl methanesulfonate	10	U	10	U	10	U	10	U	10	U
98-86-2	Acetophenone	10	U	10	U	10	U	10	U	10	U

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: GROUNDWATER

	A:\MPTDAT5.WK1									
	LOCATION:	MPT-2-MW9S-1		MPT-2-MW9D-1		MPT-2-MW10-1		MPT-2-MW11-1		MPT-2-MW12S-1	
	SAMPLE MATRIX:	WATER		WATER		WATER		WATER		WATER	
	DATE SAMPLED:	02/09/92		02/09/92		02/10/92		02/05/92		02/05/92	
	LAB NUMBER:	20866		20866		20877		20837		20837	
	UNITS:	µg/l		µg/l		µg/l		µg/l		µg/l	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
100-75-4	N-Nitrosopiperidine	10	U	10	U	10	U	10	U	10	U
122-09-8	Phenyl-tert-butylamine	50	U	50	U	50	U	50	U	50	U
87-65-0	2,6-Dichlorophenol	10	U	10	U	10	U	10	U	10	U
924-16-3	N-Nitrosodi-n-butylamine	10	U	10	U	10	U	10	U	10	U
55-18-5	N-Nitrosodiethylamine	10	U	10	U	10	U	10	U	10	U
930-55-2	N-Nitrosopyrrolidine	10	U	10	U	10	U	10	U	10	U
92-87-5	Benzidine	50	U	50	U	50	U	50	U	50	U
95-94-3	1,2,4,5-Tetrachlorobenzene	50	U	50	U	50	U	50	U	50	U
608-93-5	Pentachlorobenzene	50	U	50	U	50	U	50	U	50	U
134-32-7	1-Naphthylamine	50	U	50	U	50	U	50	U	50	U
91-59-8	2-Naphthylamine	50	U	50	U	50	U	50	U	50	U
58-90-2	2,3,4,6-Tetrachlorophenol	10	U	10	U	10	U	10	U	10	U
122-39-4	Diphenylamine	10	U	10	U	10	U	10	U	10	U
62-44-2	Phenacetin	10	U	10	U	10	U	10	U	10	U
92-67-1	4-Aminobiphenyl	50	U	50	U	50	U	50	U	50	U
82-68-8	Pentachloronitrobenzene	50	U	50	U	50	U	50	U	50	U
23950-58-5	Pronamide	10	U	10	U	10	U	10	U	10	U
60-11-7	p-(Dimethylamino)azobenzene	10	U	10	U	10	U	10	U	10	U
57-97-6	7,12-Dimethylbenz[a]anthracene	10	U	10	U	10	U	10	U	10	U
56-49-5	Methylcholanthrene	10	U	10	U	10	U	10	U	10	U
110-86-1	Pyridine	50	U	50	U	50	U	50	U	50	U
10595-95-6	N-Nitrosomethylethylamine	10	U	10	U	10	U	10	U	10	U
59-89-2	N-Nitrosomorpholine	10	U	10	U	10	U	10	U	10	U
95-53-4	o-Toluidine	10	U	10	U	10	U	10	U	10	U

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: GROUNDWATER

	A:\MPTDAT5.WK1									
	LOCATION:	MPT-2-MW9S-1		MPT-2-MW9D-1		MPT-2-MW10-1		MPT-2-MW11-1		MPT-2-MW12S-1	
	SAMPLE MATRIX:	WATER		WATER		WATER		WATER		WATER	
	DATE SAMPLED:	02/09/92		02/09/92		02/10/92		02/05/92		02/05/92	
	LAB NUMBER:	20866		20866		20877		20837		20837	
	UNITS:	µg/l		µg/l		µg/l		µg/l		µg/l	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
108-39-4	3-Methylphenol	10	U	10	U	10	U	10	U	10	U
1888-71-7	Hexachloropropene	50	U	50	U	50	U	50	U	50	U
106-50-3	p-Phenylenediamine	50	U	50	U	50	U	50	U	50	U
94-59-7	Safrole	50	U	50	U	50	U	50	U	50	U
120-58-1	Isosafrole	50	U	50	U	50	U	50	U	50	U
130-15-4	1,4-Naphthoquinone	50	U	50	U	50	U	50	U	50	U
99-65-0	1,3-Dinitrobenzene	10	U	10	U	10	U	10	U	10	U
99-55-8	5-Nitro-o-toluidine	10	U	10	U	10	U	10	U	10	U
99-35-4	1,3,5-Trinitrobenzene	10	U	10	U	10	U	10	U	10	U
56-57-5	4-Nitroquinoline 1-oxide	10	U	10	U	10	U	10	U	10	U
91-80-5	Methapyrilene	50	U	50	U	50	U	50	U	50	U
119-93-7	3,3'-Dimethylbenzidine	10	U	10	U	10	U	10	U	10	U
53-96-3	2-Acetylaminofluorene	10	U	10	U	10	U	10	U	10	U
70-30-4	Hexachlorophene	50	U	50	U	50	U	50	U	50	U

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: GROUNDWATER

	A:\MPTDAT5.WK1										
	LOCATION:	MPT-2-MW12S-1D		MPT-2-MW12D-1		MPT-2-MW15S-1		MPT-2-MW15D-1		MPT-2-MW15D-1R	
	SAMPLE MATRIX:	WATER		WATER		WATER		WATER		WATER	
	DATE SAMPLED:	02/05/92		02/12/92		02/10/92		02/10/92		02/10/92	
	LAB NUMBER:	20837		20902		20877		20877		20877	
	UNITS:	µg/l		µg/l		µg/l		µg/l		µg/l	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
62-75-9	N-Nitrosodimethylamine	10	U	10	U	10	U	10	U		
108-95-2	Phenol	10	U	10	U	10	U	10	U		
62-53-3	Aniline	10	U	10	U	10	U	10	U		
111-44-4	bis(2-Chloroethyl)Ether	10	U	10	U	10	U	10	U		
95-57-8	2-Chlorophenol	10	U	10	U	10	U	10	U		
541-73-1	1,3-Dichlorobenzene	10	U	10	U	10	U	10	U		
106-46-7	1,4-Dichlorobenzene	10	U	10	U	10	U	10	U		
100-51-6	Benzyl alcohol	10	U	10	U	10	U	10	U		
95-50-1	1,2-Dichlorobenzene	10	U	10	U	10	U	10	U		
95-48-7	2-Methylphenol	10	U	10	U	10	U	10	U		
39638-32-9	bis(2-chloroethyl)Ether	10	U	10	U	10	U	10	U		
106-44-5	4-Methylphenol	10	U	10	U	10	U	10	U		
621-64-7	N-Nitroso-Di-n-Propylamine	10	U	10	U	10	U	10	U		
67-72-1	Hexachloroethane	10	U	10	U	10	U	10	U		
98-95-3	Nitrobenzene	10	U	10	U	10	U	10	U		
78-59-1	Isophorone	10	U	10	U	10	U	10	U		
88-75-5	2-Nitrophenol	10	U	10	U	10	U	10	U		
105-67-9	2,4-Dimethylphenol	10	U	10	U	10	U	10	U		
65-?5-0	Benzoic Acid	50	U	50	U	50	U	50	U		
111-91-1	Bis(2-chloroethoxy)methane	10	U	10	U	10	U	10	U		
120-83-2	2,4-Dichlorophenol	10	U	10	U	10	U	10	U		
120-82-1	1,2,4-Trichlorobenzene	10	U	10	U	10	U	10	U		
91-20-3	Naphthalene	10	U	10	U	10	U	10	U		
106-47-8	4-Chloroaniline	10	U	10	U	10	U	10	U		

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: GROUNDWATER

	A:\MPTDAT5.WK1										
	LOCATION:	MPT-2-MW12S-1D		MPT-2-MW12D-1		MPT-2-MW15S-1		MPT-2-MW15D-1		MPT-2-MW15D-1R	
	SAMPLE MATRIX:	WATER		WATER		WATER		WATER		WATER	
	DATE SAMPLED:	02/05/92		02/12/92		02/10/92		02/10/92		02/10/92	
	LAB NUMBER:	20837		20902		20877		20877		20877	
	UNITS:	µg/l		µg/l		µg/l		µg/l		µg/l	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
87-68-3	Hexachlorobutadiene	10	U	10	U	10	U	10	U		
59-50-7	4-Chloro-3-Methylphenol	10	U	10	U	10	U	10	U		
91-57-6	2-Methylnaphthalene	10	U	10	U	10	U	10	U		
77-47-4	Hexachlorocyclopentadiene	10	U	10	U	10	U	10	U		
88-06-2	2,4,6-Trichlorophenol	10	U	10	U	10	U	10	U		
95-95-4	2,4,5-Trichlorophenol	50	U	50	U	50	U	50	U		
91-58-7	2-Chloronaphthalene	10	U	10	U	10	U	10	U		
88-74-4	2-Nitroaniline	50	U	50	U	50	U	50	U		
131-11-3	Dimethyl phthalate	10	U	10	U	10	U	10	U		
208-96-8	Acenaphthylene	10	U	10	U	10	U	10	U		
606-20-2	2,6-Dinitrotoluene	10	U	10	U	10	U	10	U		
99-09-2	3-Nitroaniline	50	U	50	U	50	U	50	U		
83-32-9	Acenaphthene	10	U	10	U	10	U	10	U		
51-28-5	2,4-Dinitrophenol	50	U	50	U	50	U	50	U		
100-02-7	4-Nitrophenol	50	U	50	U	50	U	50	U		
132-64-9	Dibenzofuran	10	U	10	U	10	U	10	U		
121-14-2	2,4-Dinitrotoluene	10	U	10	U	10	U	10	U		
84-66-2	Diethyl phthalate	10	U	10	U	10	U	10	U		
7005-72-3	4-Chlorophenyl phenyl ether	10	U	10	U	10	U	10	U		
86-73-7	Fluorene	10	U	10	U	10	U	10	U		
100-10-6	4-Nitroaniline	50	U	50	U	50	U	50	U		
534-52-1	4,6-Dinitro-2-Methylphenol	50	U	50	U	50	U	50	U		
86-30-6	N-Nitrosodiphenylamine	10	U	10	U	10	U	10	U		
122-66-7	1,2-Diphenylhydrazine	10	U	10	U	10	U	10	U		

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: GROUNDWATER

	A:\MPTDAT5.WK1										
	LOCATION:	MPT-2-MW12S-1D		MPT-2-MW12D-1		MPT-2-MW15S-1		MPT-2-MW15D-1		MPT-2-MW15D-1R	
	SAMPLE MATRIX:	WATER		WATER		WATER		WATER		WATER	
	DATE SAMPLED:	02/05/92		02/12/92		02/10/92		02/10/92		02/10/92	
	LAB NUMBER:	20837		20902		20877		20877		20877	
	UNITS:	µg/l		µg/l		µg/l		µg/l		µg/l	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
101-55-3	4-Bromophenyl phenyl ether	10	U	10	U	10	U	10	U		
118-74-1	Hexachlorobenzene	10	U	10	U	10	U	10	U		
87-86-5	Pentachlorophenol	50	U	50	U	50	U	50	U		
85-01-8	Phenanthrene	10	U	10	U	10	U	10	U		
120-12-7	Anthracene	10	U	10	U	10	U	10	U		
84-74-2	Di-n-butyl phthalate	6	BJ	3	BJ	10	U	10	U		
206-44-0	Fluoranthene	10	U	10	U	10	U	10	U		
129-00-0	Pyrene	10	U	10	U	10	U	10	U		
85-68-7	Butyl benzyl phthalate	10	U	10	U	10	U	10	U		
91-94-1	3,3'-Dichlorobenzidine	20	U	20	U	20	U	20	U		
56-55-3	Benzo[a]anthracene	10	U	10	U	10	U	10	U		
218-01-9	Chrysene	10	U	10	U	10	U	10	U		
117-81-7	Bis(2-ethylhexyl) phthalate	2	BJ	4	J	10	U	10	U		
117-84-0	Di-n-octyl phthalate	10	U	10	U	10	U	10	U		
205-99-2	Benzo[b]fluoranthene	10	U	10	U	10	U	10	U		
207-08-9	Benzo[k]fluoranthene	10	U	10	U	10	U	10	U		
50-32-8	Benzo[a]pyrene	10	U	10	U	10	U	10	U		
193-39-5	Indeno(1,2,3-cd)pyrene	10	U	10	U	10	U	10	U		
53-70-3	Dibenz[a,h]anthracene	10	U	10	U	10	U	10	U		
191-24-2	Benzo[ghi]perylene	10	U	10	U	10	U	10	U		
109-06-8	2-Picoline	50	U	50	U	50	U	50	U		
66-27-3	Methyl methanesulfonate	10	U	10	U	10	U	10	U		
62-50-0	Ethyl methanesulfonate	10	U	10	U	10	U	10	U		
98-86-2	Acetophenone	10	U	10	U	10	U	10	U		

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: GROUNDWATER

	A:\MPTDAT5.WK1									
	LOCATION:	MPT-2-MW12S-1D		MPT-2-MW12D-1		MPT-2-MW15S-1		MPT-2-MW15D-1		MPT-2-MW15D-1R	
	SAMPLE MATRIX:	WATER		WATER		WATER		WATER		WATER	
	DATE SAMPLED:	02/05/92		02/12/92		02/10/92		02/10/92		02/10/92	
	LAB NUMBER:	20837		20902		20877		20877		20877	
	UNITS:	µg/l		µg/l		µg/l		µg/l		µg/l	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
100-75-4	N-Nitrosopiperidine	10	U	10	U	10	U	10	U		
122-09-8	Phenyl-tert-butylamine	50	U	50	U	50	U	50	U		
87-65-0	2,6-Dichlorophenol	10	U	10	U	10	U	10	U		
924-16-3	N-Nitrosodi-n-butylamine	10	U	10	U	10	U	10	U		
55-18-5	N-Nitrosodiethylamine	10	U	10	U	10	U	10	U		
930-55-2	N-Nitrosopyrrolidine	10	U	10	U	10	U	10	U		
92-87-5	Benzidine	50	U	50	U	50	U	50	U		
95-94-3	1,2,4,5-Tetrachlorobenzene	50	U	50	U	50	U	50	U		
608-93-5	Pentachlorobenzene	50	U	50	U	50	U	50	U		
134-32-7	1-Naphthylamine	50	U	50	U	50	U	50	U		
91-59-8	2-Naphthylamine	50	U	50	U	50	U	50	U		
58-90-2	2,3,4,6-Tetrachlorophenol	10	U	10	U	10	U	10	U		
122-39-4	Diphenylamine	10	U	10	U	10	U	10	U		
62-44-2	Phenacetin	10	U	10	U	10	U	10	U		
92-67-1	4-Aminobiphenyl	50	U	50	U	50	U	50	U		
82-68-8	Pentachloronitrobenzene	50	U	50	U	50	U	50	U		
23950-58-5	Pronamide	10	U	10	U	10	U	10	U		
60-11-7	p-(Dimethylamino)azobenzene	10	U	10	U	10	U	10	U		
57-97-6	7,12-Dimethylbenz[a]anthracene	10	U	10	U	10	U	10	U		
56-49-5	Methylcholanthrene	10	U	10	U	10	U	10	U		
110-86-1	Pyridine	50	U	50	U	50	U	50	U		
10595-95-6	N-Nitrosomethylethylamine	10	U	10	U	10	U	10	U		
59-89-2	N-Nitrosomorpholine	10	U	10	U	10	U	10	U		
95-53-4	o-Toluidine	10	U	10	U	10	U	10	U		

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: GROUNDWATER

	A:\MPTDAT5.WK1										
	LOCATION:	MPT-2-MW12S-1D		MPT-2-MW12D-1		MPT-2-MW15S-1		MPT-2-MW15D-1		MPT-2-MW15D-1R	
	SAMPLE MATRIX:	WATER		WATER		WATER		WATER		WATER	
	DATE SAMPLED:	02/05/92		02/12/92		02/10/92		02/10/92		02/10/92	
	LAB NUMBER:	20837		20902		20877		20877		20877	
	UNITS:	µg/l		µg/l		µg/l		µg/l		µg/l	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
108-39-4	3-Methylphenol	10	U	10	U	10	U	10	U		
1888-71-7	Hexachloropropene	50	U	50	U	50	U	50	U		
106-50-3	p-Phenylenediamine	50	U	50	U	50	U	50	U		
94-59-7	Safrole	50	U	50	U	50	U	50	U		
120-58-1	Isosafrole	50	U	50	U	50	U	50	U		
130-15-4	1,4-Naphthoquinone	50	U	50	U	50	U	50	U		
99-65-0	1,3-Dinitrobenzene	10	U	10	U	10	U	10	U		
99-55-8	5-Nitro-o-toluidine	10	U	10	U	10	U	10	U		
99-35-4	1,3,5-Trinitrobenzene	10	U	10	U	10	U	10	U		
56-57-5	4-Nitroquinoline 1-oxide	10	U	10	U	10	U	10	U		
91-80-5	Methapyrilene	50	U	50	U	50	U	50	U		
119-93-7	3,3'-Dimethylbenzidine	10	U	10	U	10	U	10	U		
53-96-3	2-Acetylaminofluorene	10	U	10	U	10	U	10	U		
70-30-4	Hexachlorophene	50	U	50	U	50	U	50	U		

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: GROUNDWATER

	A:\MPTDAT5.WK1								
	LOCATION:	MPT-2-MW16S-1		MPT-2-MW16DD-1		MPT-2-MW17S-1		MPT-2-MW17D-1	
	SAMPLE MATRIX:	WATER		WATER		WATER		WATER	
	DATE SAMPLED:	02/10/92		02/14/92		02/12/92			
	LAB NUMBER:	20877		20931		20902			
	UNITS:	µg/l		µg/l		µg/l		µg/l	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
62-75-9	N-Nitrosodimethylamine	10	U	10	U	10	U		
108-95-2	Phenol	10	U	10	U	10	U		
62-53-3	Aniline	10	U	10	U	10	U		
111-44-4	bis(2-Chloroethyl)Ether	10	U	10	U	10	U		
95-57-8	2-Chlorophenol	10	U	10	U	10	U		
541-73-1	1,3-Dichlorobenzene	10	U	10	U	10	U		
106-46-7	1,4-Dichlorobenzene	10	U	10	U	10	U		
100-51-6	Benzyl alcohol	10	U	10	U	10	U		
95-50-1	1,2-Dichlorobenzene	10	U	10	U	10	U		
95-48-7	2-Methylphenol	10	U	10	U	10	U		
39638-32-9	bis(2-chloroethyl)Ether	10	U	10	U	10	U		
106-44-5	4-Methylphenol	10	U	10	U	10	U		
621-64-7	N-Nitroso-Di-n-Propylamine	10	U	10	U	10	U		
67-72-1	Hexachloroethane	10	U	10	U	10	U		
98-95-3	Nitrobenzene	10	U	10	U	10	U		
78-59-1	Isophorone	10	U	10	U	10	U		
88-75-5	2-Nitrophenol	10	U	10	U	10	U		
105-67-9	2,4-Dimethylphenol	10	U	10	U	10	U		
65-?5-0	Benzoic Acid	50	U	50	U	50	U		
111-91-1	Bis(2-chloroethoxy)methane	10	U	10	U	10	U		
120-83-2	2,4-Dichlorophenol	10	U	10	U	10	U		
120-82-1	1,2,4-Trichlorobenzene	10	U	10	U	10	U		
91-20-3	Naphthalene	10	U	10	U	10	U		
106-47-8	4-Chloroaniline	10	U	10	U	10	U		

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: GROUNDWATER

	A:\MPTDAT5.WK1								
	LOCATION:	MPT-2-MW16S-1		MPT-2-MW16DD-1		MPT-2-MW17S-1		MPT-2-MW17D-1	
	SAMPLE MATRIX:	WATER		WATER		WATER		WATER	
	DATE SAMPLED:	02/10/92		02/14/92		02/12/92			
	LAB NUMBER:	20877		20931		20902			
	UNITS:	µg/l		µg/l		µg/l		µg/l	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
87-68-3	Hexachlorobutadiene	10	U	10	U	10	U		
59-50-7	4-Chloro-3-Methylphenol	10	U	10	U	10	U		
91-57-6	2-Methylnaphthalene	10	U	10	U	10	U		
77-47-4	Hexachlorocyclopentadiene	10	U	10	U	10	U		
88-06-2	2,4,6-Trichlorophenol	10	U	10	U	10	U		
95-95-4	2,4,5-Trichlorophenol	50	U	50	U	50	U		
91-58-7	2-Chloronaphthalene	10	U	10	U	10	U		
88-74-4	2-Nitroaniline	50	U	50	U	50	U		
131-11-3	Dimethyl phthalate	10	U	10	U	10	U		
208-96-8	Acenaphthylene	10	U	10	U	10	U		
606-20-2	2,6-Dinitrotoluene	10	U	10	U	10	U		
99-09-2	3-Nitroaniline	50	U	50	U	50	U		
83-32-9	Acenaphthene	10	U	10	U	10	U		
51-28-5	2,4-Dinitrophenol	50	U	50	U	50	U		
100-02-7	4-Nitrophenol	50	U	50	U	50	U		
132-64-9	Dibenzofuran	10	U	10	U	10	U		
121-14-2	2,4-Dinitrotoluene	10	U	10	U	10	U		
84-66-2	Diethyl phthalate	10	U	10	U	10	U		
7005-72-3	4-Chlorophenyl phenyl ether	10	U	10	U	10	U		
86-73-7	Fluorene	10	U	10	U	10	U		
100-10-6	4-Nitroaniline	50	U	50	U	50	U		
534-52-1	4,6-Dinitro-2-Methylphenol	50	U	50	U	50	U		
86-30-6	N-Nitrosodiphenylamine	10	U	10	U	10	U		
122-66-7	1,2-Diphenylhydrazine	10	U	10	U	10	U		

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: GROUNDWATER

	A:\MPTDAT5.WK1								
	LOCATION:	MPT-2-MW16S-1		MPT-2-MW16DD-1		MPT-2-MW17S-1		MPT-2-MW17D-1	
	SAMPLE MATRIX:	WATER		WATER		WATER		WATER	
	DATE SAMPLED:	02/10/92		02/14/92		02/12/92			
	LAB NUMBER:	20877		20931		20902			
	UNITS:	µg/l		µg/l		µg/l		µg/l	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
101-55-3	4-Bromophenyl phenyl ether	10	U	10	U	10	U		
118-74-1	Hexachlorobenzene	10	U	10	U	10	U		
87-86-5	Pentachlorophenol	50	U	50	U	50	U		
85-01-8	Phenanthrene	10	U	10	U	10	U		
120-12-7	Anthracene	10	U	10	U	10	U		
84-74-2	Di-n-butyl phthalate	10	U	2	BJ	2	BJ		
206-44-0	Fluoranthene	10	U	10	U	10	U		
129-00-0	Pyrene	10	U	10	U	10	U		
85-68-7	Butyl benzyl phthalate	10	U	10	U	10	U		
91-94-1	3,3'-Dichlorobenzidine	20	U	20	U	20	U		
56-55-3	Benzo[a]anthracene	10	U	10	U	10	U		
218-01-9	Chrysene	10	U	10	U	10	U		
117-81-7	Bis(2-ethylhexyl) phthalate	10	U	2	J	10	U		
117-84-0	Di-n-octyl phthalate	10	U	10	U	10	U		
205-99-2	Benzo[b]fluoranthene	10	U	10	U	10	U		
207-08-9	Benzo[k]fluoranthene	10	U	10	U	10	U		
50-32-8	Benzo[a]pyrene	10	U	10	U	10	U		
193-39-5	Indeno(1,2,3-cd)pyrene	10	U	10	U	10	U		
53-70-3	Dibenz[a,h]anthracene	10	U	10	U	10	U		
191-24-2	Benzo[ghi]perylene	10	U	10	U	10	U		
109-06-8	2-Picoline	50	U	50	U	50	U		
66-27-3	Methyl methanesulfonate	10	U	10	U	10	U		
62-50-0	Ethyl methanesulfonate	10	U	10	U	10	U		
98-86-2	Acetophenone	10	U	10	U	10	U		

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: GROUNDWATER

	A:\MPTDAT5.WK1								
	LOCATION:	MPT-2-MW16S-1		MPT-2-MW16DD-1		MPT-2-MW17S-1		MPT-2-MW17D-1	
	SAMPLE MATRIX:	WATER		WATER		WATER		WATER	
	DATE SAMPLED:	02/10/92		02/14/92		02/12/92			
	LAB NUMBER:	20877		20931		20902			
	UNITS:	µg/l		µg/l		µg/l		µg/l	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
100-75-4	N-Nitrosopiperidine	10	U	10	U	10	U		
122-09-8	Phenyl-tert-butylamine	50	U	50	U	50	U		
87-65-0	2,6-Dichlorophenol	10	U	10	U	10	U		
924-16-3	N-Nitrosodi-n-butylamine	10	U	10	U	10	U		
55-18-5	N-Nitrosodiethylamine	10	U	10	U	10	U		
930-55-2	N-Nitrosopyrrolidine	10	U	10	U	10	U		
92-87-5	Benzidine	50	U	50	U	50	U		
95-94-3	1,2,4,5-Tetrachlorobenzene	50	U	50	U	50	U		
608-93-5	Pentachlorobenzene	50	U	50	U	50	U		
134-32-7	1-Naphthylamine	50	U	50	U	50	U		
91-59-8	2-Naphthylamine	50	U	50	U	50	U		
58-90-2	2,3,4,6-Tetrachlorophenol	10	U	10	U	10	U		
122-39-4	Diphenylamine	10	U	10	U	10	U		
62-44-2	Phenacetin	10	U	10	U	10	U		
92-67-1	4-Aminobiphenyl	50	U	50	U	50	U		
82-68-8	Pentachloronitrobenzene	50	U	50	U	50	U		
23950-58-5	Pronamide	10	U	10	U	10	U		
60-11-7	p-(Dimethylamino)azobenzene	10	U	10	U	10	U		
57-97-6	7,12-Dimethylbenz[a]anthracene	10	U	10	U	10	U		
56-49-5	Methylcholanthrene	10	U	10	U	10	U		
110-86-1	Pyridine	50	U	50	U	50	U		
10595-95-6	N-Nitrosomethylethylamine	10	U	10	U	10	U		
59-89-2	N-Nitrosomorpholine	10	U	10	U	10	U		
95-53-4	o-Toluidine	10	U	10	U	10	U		

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: GROUNDWATER

	A:\MPTDAT5.WK1								
	LOCATION:	MPT-2-MW16S-1		MPT-2-MW16DD-1		MPT-2-MW17S-1		MPT-2-MW17D-1	
	SAMPLE MATRIX:	WATER		WATER		WATER		WATER	
	DATE SAMPLED:	02/10/92		02/14/92		02/12/92			
	LAB NUMBER:	20877		20931		20902			
	UNITS:	µg/l		µg/l		µg/l		µg/l	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
108-39-4	3-Methylphenol	10	U	10	U	10	U		
1888-71-7	Hexachloropropene	50	U	50	U	50	U		
106-50-3	p-Phenylenediamine	50	U	50	U	50	U		
94-59-7	Safrole	50	U	50	U	50	U		
120-58-1	Isosafrole	50	U	50	U	50	U		
130-15-4	1,4-Naphthoquinone	50	U	50	U	50	U		
99-65-0	1,3-Dinitrobenzene	10	U	10	U	10	U		
99-55-8	5-Nitro-o-toluidine	10	U	10	U	10	U		
99-35-4	1,3,5-Trinitrobenzene	10	U	10	U	10	U		
56-57-5	4-Nitroquinoline 1-oxide	10	U	10	U	10	U		
91-80-5	Methapyrilene	50	U	50	U	50	U		
119-93-7	3,3'-Dimethylbenzidine	10	U	10	U	10	U		
53-96-3	2-Acetylaminofluorene	10	U	10	U	10	U		
70-30-4	Hexachlorophene	50	U	50	U	50	U		

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: GROUNDWATER

	A:\MPTDAT6.WK1										
	LOCATION:	MPT-13-MW1-1		MPT-13-MW2-1		MPT-13-MW3-1		MPT-13-MW4-1		MPT-13-MW5-1	
	SAMPLE MATRIX:	WATER		WATER		WATER		WATER		WATER	
	DATE SAMPLED:	02/11/92		02/11/92		02/11/92		02/05/92		02/05/92	
	LAB NUMBER:	20884		20884		20884		20850		20850	
	UNITS:	µg/l		µg/l		µg/l		µg/l		µg/l	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
62-75-9	N-Nitrosodimethylamine	10	U	10	U	10	U	10	U	10	U
108-95-2	Phenol	10	U	10	U	10	U	10	U	10	U
62-53-3	Aniline	10	U	10	U	10	U	10	U	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U	10	U	10	U	10	U	10	U
95-57-8	2-Chlorophenol	10	U	10	U	10	U	10	U	10	U
541-73-1	1,3-Dichlorobenzene	10	U	10	U	10	U	10	U	10	U
106-46-7	1,4-Dichlorobenzene	10	U	10	U	10	U	10	U	10	U
100-51-6	Benzyl alcohol	10	U	10	U	10	U	10	U	10	U
95-50-1	1,2-Dichlorobenzene	10	U	10	U	10	U	10	U	10	U
95-48-7	2-Methylphenol	10	U	10	U	10	U	10	U	10	U
39638-32-9	bis(2-chloroethyl)Ether	10	U	10	U	10	U	10	U	10	U
106-44-5	4-Methylphenol	10	U	10	U	10	U	10	U	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U	10	U	10	U	10	U	10	U
67-72-1	Hexachloroethane	10	U	10	U	10	U	10	U	10	U
98-95-3	Nitrobenzene	10	U	10	U	10	U	10	U	10	U
78-59-1	Isophorone	10	U	10	U	10	U	10	U	10	U
88-75-5	2-Nitrophenol	10	U	10	U	10	U	10	U	10	U
105-67-9	2,4-Dimethylphenol	10	U	10	U	10	U	10	U	10	U
65-?5-0	Benzoic Acid	50	U	50	U	50	U	50	U	50	U
111-91-1	Bis(2-chloroethoxy)methane	10	U	10	U	10	U	10	U	10	U
120-83-2	2,4-Dichlorophenol	10	U	10	U	10	U	10	U	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U	10	U	10	U	10	U	10	U
91-20-3	Naphthalene	10	U	10	U	10	U	10	U	10	U
106-47-8	4-Chloroaniline	10	U	10	U	10	U	10	U	10	U

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: GROUNDWATER

	A:\MPTDAT6.WK1									
	LOCATION:	MPT-13-MW1-1		MPT-13-MW2-1		MPT-13-MW3-1		MPT-13-MW4-1		MPT-13-MW5-1	
	SAMPLE MATRIX:	WATER		WATER		WATER		WATER		WATER	
	DATE SAMPLED:	02/11/92		02/11/92		02/11/92		02/05/92		02/05/92	
	LAB NUMBER:	20884		20884		20884		20850		20850	
	UNITS:	µg/l		µg/l		µg/l		µg/l		µg/l	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
87-68-3	Hexachlorobutadiene	10	U	10	U	10	U	10	U	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U	10	U	10	U	10	U	10	U
91-57-6	2-Methylnaphthalene	10	U	10	U	10	U	10	U	10	U
77-47-4	Hexachlorocyclopentadiene	10	U	10	U	10	U	10	U	10	U
88-06-2	2,4,6-Trichlorophenol	10	U	10	U	10	U	10	U	10	U
95-95-4	2,4,5-Trichlorophenol	50	U	50	U	50	U	50	U	50	U
91-58-7	2-Chloronaphthalene	10	U	10	U	10	U	10	U	10	U
88-74-4	2-Nitroaniline	50	U	50	U	50	U	50	U	50	U
131-11-3	Dimethyl phthalate	10	U	10	U	10	U	10	U	10	U
208-96-8	Acenaphthylene	10	U	10	U	10	U	10	U	10	U
606-20-2	2,6-Dinitrotoluene	10	U	10	U	10	U	10	U	10	U
99-09-2	3-Nitroaniline	50	U	50	U	50	U	50	U	50	U
83-32-9	Acenaphthene	10	U	10	U	10	U	10	U	10	U
51-28-5	2,4-Dinitrophenol	50	U	50	U	50	U	50	U	50	U
100-02-7	4-Nitrophenol	50	U	50	U	50	U	50	U	50	U
132-64-9	Dibenzofuran	10	U	10	U	10	U	10	U	10	U
121-14-2	2,4-Dinitrotoluene	10	U	10	U	10	U	10	U	10	U
84-66-2	Diethyl phthalate	10	U	10	U	10	U	10	U	10	U
7005-72-3	4-Chlorophenyl phenyl ether	10	U	10	U	10	U	10	U	10	U
86-73-7	Fluorene	10	U	10	U	10	U	10	U	10	U
100-10-6	4-Nitroaniline	50	U	50	U	50	U	50	U	50	U
534-52-1	4,6-Dinitro-2-Methylphenol	50	U	50	U	50	U	50	U	50	U
86-30-6	N-Nitrosodiphenylamine	10	U	10	U	10	U	10	U	10	U
122-66-7	1,2-Diphenylhydrazine	10	U	10	U	10	U	10	U	10	U

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: GROUNDWATER

	A:\MPTDAT6.WK1										
	LOCATION:	MPT-13-MW1-1		MPT-13-MW2-1		MPT-13-MW3-1		MPT-13-MW4-1		MPT-13-MW5-1	
	SAMPLE MATRIX:	WATER		WATER		WATER		WATER		WATER	
	DATE SAMPLED:	02/11/92		02/11/92		02/11/92		02/05/92		02/05/92	
	LAB NUMBER:	20884		20884		20884		20850		20850	
	UNITS:	µg/l		µg/l		µg/l		µg/l		µg/l	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
101-55-3	4-Bromophenyl phenyl ether	10	U	10	U	10	U	10	U	10	U
118-74-1	Hexachlorobenzene	10	U	10	U	10	U	10	U	10	U
87-86-5	Pentachlorophenol	50	U	50	U	50	U	50	U	50	U
85-01-8	Phenanthrene	10	U	10	U	10	U	10	U	10	U
120-12-7	Anthracene	10	U	10	U	10	U	10	U	10	U
84-74-2	Di-n-butyl phthalate	3	BJ	3	BJ	3	BJ	9	BJ	12	B
206-44-0	Fluoranthene	10	U	10	U	10	U	10	U	10	U
129-00-0	Pyrene	10	U	10	U	10	U	10	U	10	U
85-68-7	Butyl benzyl phthalate	10	U	10	U	10	U	10	U	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U	20	U	20	U	20	U	20	U
56-55-3	Benzo[a]anthracene	10	U	10	U	10	U	10	U	10	U
218-01-9	Chrysene	10	U	10	U	10	U	10	U	10	U
117-81-7	Bis(2-ethylhexyl) phthalate	4	J	16		6	J	2	J	10	U
117-84-0	Di-n-octyl phthalate	10	U	10	U	10	U	10	U	10	U
205-99-2	Benzo[b]fluoranthene	10	U	10	U	10	U	10	U	10	U
207-08-9	Benzo[k]fluoranthene	10	U	10	U	10	U	10	U	10	U
50-32-8	Benzo[a]pyrene	10	U	10	U	10	U	10	U	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U	10	U	10	U	10	U	10	U
53-70-3	Dibenz[a,h]anthracene	10	U	10	U	10	U	10	U	10	U
191-24-2	Benzo[ghi]perylene	10	U	10	U	10	U	10	U	10	U
109-06-8	2-Picoline	50	U	50	U	50	U	50	U	50	U
66-27-3	Methyl methanesulfonate	10	U	10	U	10	U	10	U	10	U
62-50-0	Ethyl methanesulfonate	10	U	10	U	10	U	10	U	10	U
98-86-2	Acetophenone	10	U	10	U	10	U	10	U	10	U

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: GROUNDWATER

	A:\MPTDAT6.WK1									
	LOCATION:	MPT-13-MW1-1		MPT-13-MW2-1		MPT-13-MW3-1		MPT-13-MW4-1		MPT-13-MW5-1	
	SAMPLE MATRIX:	WATER		WATER		WATER		WATER		WATER	
	DATE SAMPLED:	02/11/92		02/11/92		02/11/92		02/05/92		02/05/92	
	LAB NUMBER:	20884		20884		20884		20850		20850	
	UNITS:	µg/l		µg/l		µg/l		µg/l		µg/l	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
100-75-4	N-Nitrosopiperidine	10	U	10	U	10	U	10	U	10	U
122-09-8	Phenyl-tert-butylamine	50	U	50	U	50	U	50	U	50	U
87-65-0	2,6-Dichlorophenol	10	U	10	U	10	U	10	U	10	U
924-16-3	N-Nitrosodi-n-butylamine	10	U	10	U	10	U	10	U	10	U
55-18-5	N-Nitrosodiethylamine	10	U	10	U	10	U	10	U	10	U
930-55-2	N-Nitrosopyrrolidine	10	U	10	U	10	U	10	U	10	U
92-87-5	Benzidine	50	U	50	U	50	U	50	U	50	U
95-94-3	1,2,4,5-Tetrachlorobenzene	50	U	50	U	50	U	50	U	50	U
608-93-5	Pentachlorobenzene	50	U	50	U	50	U	50	U	50	U
134-32-7	1-Naphthylamine	50	U	50	U	50	U	50	U	50	U
91-59-8	2-Naphthylamine	50	U	50	U	50	U	50	U	50	U
58-90-2	2,3,4,6-Tetrachlorophenol	10	U	10	U	10	U	10	U	10	U
122-39-4	Diphenylamine	10	U	10	U	10	U	10	U	10	U
62-44-2	Phenacetin	10	U	10	U	10	U	10	U	10	U
92-67-1	4-Aminobiphenyl	50	U	50	U	50	U	50	U	50	U
82-68-8	Pentachloronitrobenzene	50	U	50	U	50	U	50	U	50	U
23950-58-5	Pronamide	10	U	10	U	10	U	10	U	10	U
60-11-7	p-(Dimethylamino)azobenzene	10	U	10	U	10	U	10	U	10	U
57-97-6	7,12-Dimethylbenz[a]anthracene	10	U	10	U	10	U	10	U	10	U
56-49-5	Methylcholanthrene	10	U	10	U	10	U	10	U	10	U
110-86-1	Pyridine	50	U	50	U	50	U	50	U	50	U
10595-95-6	N-Nitrosomethylethylamine	10	U	10	U	10	U	10	U	10	U
59-89-2	N-Nitrosomorpholine	10	U	10	U	10	U	10	U	10	U
95-53-4	o-Toluidine	10	U	10	U	10	U	10	U	10	U

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: GROUNDWATER

	A:\MPTDAT6.WK1									
	LOCATION:	MPT-13-MW1-1		MPT-13-MW2-1		MPT-13-MW3-1		MPT-13-MW4-1		MPT-13-MW5-1	
	SAMPLE MATRIX:	WATER		WATER		WATER		WATER		WATER	
	DATE SAMPLED:	02/11/92		02/11/92		02/11/92		02/05/92		02/05/92	
	LAB NUMBER:	20884		20884		20884		20850		20850	
	UNITS:	µg/l		µg/l		µg/l		µg/l		µg/l	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
108-39-4	3-Methylphenol	10	U	10	U	10	U	10	U	10	U
1888-71-7	Hexachloropropene	50	U	50	U	50	U	50	U	50	U
106-50-3	p-Phenylenediamine	50	U	50	U	50	U	50	U	50	U
94-59-7	Safrole	50	U	50	U	50	U	50	U	50	U
120-58-1	Isosafrole	50	U	50	U	50	U	50	U	50	U
130-15-4	1,4-Naphthoquinone	50	U	50	U	50	U	50	U	50	U
99-65-0	1,3-Dinitrobenzene	10	U	10	U	10	U	10	U	10	U
99-55-8	5-Nitro-o-toluidine	10	U	10	U	10	U	10	U	10	U
99-35-4	1,3,5-Trinitrobenzene	10	U	10	U	10	U	10	U	10	U
56-57-5	4-Nitroquinoline 1-oxide	10	U	10	U	10	U	10	U	10	U
91-80-5	Methapyrilene	50	U	50	U	50	U	50	U	50	U
119-93-7	3,3'-Dimethylbenzidine	10	U	10	U	10	U	10	U	10	U
53-96-3	2-Acetylaminofluorene	10	U	10	U	10	U	10	U	10	U
70-30-4	Hexachlorophene	50	U	50	U	50	U	50	U	50	U

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: GROUNDWATER

	A:\MPTDAT6.WK1							
	LOCATION:	MPT-13-MW6-1		MPT-22-MW1-1		MPT-1-MW1-1		MPT-S-1-1
	SAMPLE MATRIX:	WATER		WATER		WATER		WATER
	DATE SAMPLED:	02/11/92		02/05/92		02/12/92		02/12/92
	LAB NUMBER:	20884		20837		20902		20902
	UNITS:	µg/l		µg/l		µg/l		µg/l
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
62-75-9	N-Nitrosodimethylamine	10	U	10	U	10	U	10	U
108-95-2	Phenol	10	U	10	U	10	U	10	U
62-53-3	Aniline	10	U	10	U	10	U	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U	10	U	10	U	10	U
95-57-8	2-Chlorophenol	10	U	10	U	10	U	10	U
541-73-1	1,3-Dichlorobenzene	10	U	10	U	10	U	10	U
106-46-7	1,4-Dichlorobenzene	10	U	10	U	10	U	10	U
100-51-6	Benzyl alcohol	10	U	10	U	10	U	10	U
95-50-1	1,2-Dichlorobenzene	10	U	10	U	10	U	10	U
95-48-7	2-Methylphenol	10	U	10	U	10	U	10	U
39638-32-9	bis(2-chloroethyl)Ether	10	U	10	U	10	U	10	U
106-44-5	4-Methylphenol	10	U	10	U	10	U	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U	10	U	10	U	10	U
67-72-1	Hexachloroethane	10	U	10	U	10	U	10	U
98-95-3	Nitrobenzene	10	U	10	U	10	U	10	U
78-59-1	Isophorone	10	U	10	U	10	U	10	U
88-75-5	2-Nitrophenol	10	U	10	U	10	U	10	U
105-67-9	2,4-Dimethylphenol	10	U	10	U	10	U	10	U
65-?5-0	Benzoic Acid	50	U	50	U	50	U	50	U
111-91-1	Bis(2-chloroethoxy)methane	10	U	10	U	10	U	10	U
120-83-2	2,4-Dichlorophenol	10	U	10	U	10	U	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U	10	U	10	U	10	U
91-20-3	Naphthalene	10	U	10	U	10	U	10	U
106-47-8	4-Chloroaniline	10	U	10	U	10	U	10	U

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: GROUNDWATER

	A:\MPTDAT6.WK1							
	LOCATION:	MPT-13-MW6-1		MPT-22-MW1-1		MPT-1-MW1-1		MPT-S-1-1	
	SAMPLE MATRIX:	WATER		WATER		WATER		WATER	
	DATE SAMPLED:	02/11/92		02/05/92		02/12/92		02/12/92	
	LAB NUMBER:	20884		20837		20902		20902	
	UNITS:	µg/l		µg/l		µg/l		µg/l	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
87-68-3	Hexachlorobutadiene	10	U	10	U	10	U	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U	10	U	10	U	10	U
91-57-6	2-Methylnaphthalene	10	U	10	U	10	U	10	U
77-47-4	Hexachlorocyclopentadiene	10	U	10	U	10	U	10	U
88-06-2	2,4,6-Trichlorophenol	10	U	10	U	10	U	10	U
95-95-4	2,4,5-Trichlorophenol	50	U	50	U	50	U	50	U
91-58-7	2-Chloronaphthalene	10	U	10	U	10	U	10	U
88-74-4	2-Nitroaniline	50	U	50	U	50	U	50	U
131-11-3	Dimethyl phthalate	10	U	10	U	10	U	10	U
208-96-8	Acenaphthylene	10	U	10	U	10	U	10	U
606-20-2	2,6-Dinitrotoluene	10	U	10	U	10	U	10	U
99-09-2	3-Nitroaniline	50	U	50	U	50	U	50	U
83-32-9	Acenaphthene	10	U	10	U	10	U	10	U
51-28-5	2,4-Dinitrophenol	50	U	50	U	50	U	50	U
100-02-7	4-Nitrophenol	50	U	50	U	50	U	50	U
132-64-9	Dibenzofuran	10	U	10	U	10	U	10	U
121-14-2	2,4-Dinitrotoluene	10	U	10	U	10	U	10	U
84-66-2	Diethyl phthalate	10	U	10	U	10	U	10	U
7005-72-3	4-Chlorophenyl phenyl ether	10	U	10	U	10	U	10	U
86-73-7	Fluorene	10	U	10	U	10	U	10	U
100-10-6	4-Nitroaniline	50	U	50	U	50	U	50	U
534-52-1	4,6-Dinitro-2-Methylphenol	50	U	50	U	50	U	50	U
86-30-6	N-Nitrosodiphenylamine	10	U	10	U	10	U	10	U
122-66-7	1,2-Diphenylhydrazine	10	U	10	U	10	U	10	U

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: GROUNDWATER

	A:\MPTDAT6.WK1							
	LOCATION:	MPT-13-MW6-1		MPT-22-MW1-1		MPT-1-MW1-1		MPT-S-1-1	
	SAMPLE MATRIX:	WATER		WATER		WATER		WATER	
	DATE SAMPLED:	02/11/92		02/05/92		02/12/92		02/12/92	
	LAB NUMBER:	20884		20837		20902		20902	
	UNITS:	µg/l		µg/l		µg/l		µg/l	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
101-55-3	4-Bromophenyl phenyl ether	10	U	10	U	10	U	10	U
118-74-1	Hexachlorobenzene	10	U	10	U	10	U	10	U
87-86-5	Pentachlorophenol	50	U	50	U	7	BJ	8	BJ
85-01-8	Phenanthrene	10	U	10	U	10	U	10	U
120-12-7	Anthracene	10	U	10	U	10	U	10	U
84-74-2	Di-n-butyl phthalate	3	BJ	2	BJ	4	BJ	3	BJ
206-44-0	Fluoranthene	10	U	10	U	10	U	10	U
129-00-0	Pyrene	10	U	10	U	10	U	10	U
85-68-7	Butyl benzyl phthalate	10	U	10	U	10	U	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U	20	U	20	U	20	U
56-55-3	Benzo[a]anthracene	10	U	10	U	10	U	2	J
218-01-9	Chrysene	10	U	10	U	10	U	10	U
117-81-7	Bis(2-ethylhexyl) phthalate	41		10	U	7	J	6	J
117-84-0	Di-n-octyl phthalate	10	U	10	U	10	U	10	U
205-99-2	Benzo[b]fluoranthene	10	U	10	U	10	U	10	U
207-08-9	Benzo[k]fluoranthene	10	U	10	U	10	U	10	U
50-32-8	Benzo[a]pyrene	10	U	10	U	10	U	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U	10	U	10	U	10	U
53-70-3	Dibenz[a,h]anthracene	10	U	10	U	10	U	10	U
191-24-2	Benzo[ghi]perylene	10	U	10	U	10	U	10	U
109-06-8	2-Picoline	50	U	50	U	50	U	50	U
66-27-3	Methyl methanesulfonate	10	U	10	U	10	U	10	U
62-50-0	Ethyl methanesulfonate	10	U	10	U	10	U	10	U
98-86-2	Acetophenone	10	U	10	U	10	U	10	U

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: GROUNDWATER

	A:\MPTDAT6.WK1							
	LOCATION:	MPT-13-MW6-1		MPT-22-MW1-1		MPT-1-MW1-1		MPT-S-1-1	
	SAMPLE MATRIX:	WATER		WATER		WATER		WATER	
	DATE SAMPLED:	02/11/92		02/05/92		02/12/92		02/12/92	
	LAB NUMBER:	20884		20837		20902		20902	
	UNITS:	µg/l		µg/l		µg/l		µg/l	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
100-75-4	N-Nitrosopiperidine	10	U	10	U	10	U	10	U
122-09-8	Phenyl-tert-butylamine	50	U	50	U	50	U	50	U
87-65-0	2,6-Dichlorophenol	10	U	10	U	10	U	10	U
924-16-3	N-Nitrosodi-n-butylamine	10	U	10	U	10	U	10	U
55-18-5	N-Nitrosodiethylamine	10	U	10	U	10	U	10	U
930-55-2	N-Nitrosopyrrolidine	10	U	10	U	10	U	10	U
92-87-5	Benzidine	50	U	50	U	50	U	50	U
95-94-3	1,2,4,5-Tetrachlorobenzene	50	U	50	U	50	U	50	U
608-93-5	Pentachlorobenzene	50	U	50	U	50	U	50	U
134-32-7	1-Naphthylamine	50	U	50	U	50	U	50	U
91-59-8	2-Naphthylamine	50	U	50	U	50	U	50	U
58-90-2	2,3,4,6-Tetrachlorophenol	10	U	10	U	10	U	10	U
122-39-4	Diphenylamine	10	U	10	U	10	U	10	U
62-44-2	Phenacetin	10	U	10	U	10	U	10	U
92-67-1	4-Aminobiphenyl	50	U	50	U	50	U	50	U
82-68-8	Pentachloronitrobenzene	50	U	50	U	50	U	50	U
23950-58-5	Pronamide	10	U	10	U	10	U	10	U
60-11-7	p-(Dimethylamino)azobenzene	10	U	10	U	10	U	10	U
57-97-6	7,12-Dimethylbenz[a]anthracene	10	U	10	U	10	U	10	U
56-49-5	Methylcholanthrene	10	U	10	U	10	U	10	U
110-86-1	Pyridine	50	U	50	U	50	U	50	U
10595-95-6	N-Nitrosomethylethylamine	10	U	10	U	10	U	10	U
59-89-2	N-Nitrosomorpholine	10	U	10	U	10	U	10	U
95-53-4	o-Toluidine	10	U	10	U	10	U	10	U

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: GROUNDWATER

	A:\MPTDAT6.WK1							
	LOCATION:	MPT-13-MW6-1		MPT-22-MW1-1		MPT-1-MW1-1		MPT-S-1-1
	SAMPLE MATRIX:	WATER		WATER		WATER		WATER
	DATE SAMPLED:	02/11/92		02/05/92		02/12/92		02/12/92
	LAB NUMBER:	20884		20837		20902		20902
	UNITS:	µg/l		µg/l		µg/l		µg/l
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
108-39-4	3-Methylphenol	10	U	10	U	10	U	10	U
1888-71-7	Hexachloropropene	50	U	50	U	50	U	50	U
106-50-3	p-Phenylenediamine	50	U	50	U	50	U	50	U
94-59-7	Safrole	50	U	50	U	50	U	50	U
120-58-1	Isosafrole	50	U	50	U	50	U	50	U
130-15-4	1,4-Naphthoquinone	50	U	50	U	50	U	50	U
99-65-0	1,3-Dinitrobenzene	10	U	10	U	10	U	10	U
99-55-8	5-Nitro-o-toluidine	10	U	10	U	10	U	10	U
99-35-4	1,3,5-Trinitrobenzene	10	U	10	U	10	U	10	U
56-57-5	4-Nitroquinoline 1-oxide	10	U	10	U	10	U	10	U
91-80-5	Methapyrilene	50	U	50	U	50	U	50	U
119-93-7	3,3'-Dimethylbenzidine	10	U	10	U	10	U	10	U
53-96-3	2-Acetylaminofluorene	10	U	10	U	10	U	10	U
70-30-4	Hexachlorophene	50	U	50	U	50	U	50	U

*Blank entries indicate that sample was not analyzed for that analyte group

PCB & CHLORINATED PESTICIDES: GROUNDWATER

	A:\MPTDAT4.WK1										
	LOCATION:	MPT-2-MW1-1		MPT-2-MW2-1		MPT-2-MW2-1D		MPT-2-MW3-1		MPT-2-MW4-1	
	SAMPLE MATRIX:	WATER		WATER		WATER		WATER		WATER	
	DATE SAMPLED:	02/11/92		02/11/92		02/11/92		02/09/92		02/10/92	
	LAB NUMBER:	20884		20884		20884		20866		20877	
	UNITS:	µg/l		µg/l		µg/l		µg/l		µg/l	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
319-84-6	alpha-BHC	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
319-85-7	beta-BHC	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
319-86-8	delta-BHC	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
58-89-9	gamma-BHC; Lindane	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
76-44-8	Heptachlor	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
309-00-2	Aldrin	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
1024-57-3	Heptachlor epoxide	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
959-98-8	Endosulfan I	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
60-57-1	Dieldrin	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
72-55-9	4,4'-DDE	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
72-20-8	Endrin	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
33213-65-9	Endosulfan II	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
72-54-8	4,4'-DDD	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
7421-93-4	Endrin aldehyde	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
1031-07-8	Endosulfan sulfate	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
50-29-3	4,4'-DDT	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
72-43-5	Methoxychlor	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
53494-70-5	Endrin Ketone	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
57-74-09	Chlordane	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
8001-35-2	Toxaphene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
12674-11-2	Aroclor-1016	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U
11104-28-2	Aroclor-1221	2	U	2	U	2	U	2	U	2	U
11141-16-5	Aroclor-1232	2	U	2	U	2	U	2	U	2	U
53469-21-9	Aroclor-1242	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U

*Blank entries indicate that sample was not analyzed for that analyte group

PCB & CHLORINATED PESTICIDES: GROUNDWATER

	A:\MPTDAT4.WK1									
	LOCATION:	MPT-2-MW1-1		MPT-2-MW2-1		MPT-2-MW2-1D		MPT-2-MW3-1		MPT-2-MW4-1
	SAMPLE MATRIX:	WATER		WATER		WATER		WATER		WATER
	DATE SAMPLED:	02/11/92		02/11/92		02/11/92		02/09/92		02/10/92
	LAB NUMBER:	20884		20884		20884		20866		20877
	UNITS:	µg/l		µg/l		µg/l		µg/l		µg/l
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
12672-29-6	Aroclor-1248	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U
11097-69-1	Aroclor-1254	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
11096-82-5	Aroclor-1260	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
510-15-6	Chlorobenzilate	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
2303-16-4	Diallate	1	U	1	U	1	U	1	U	1	U
465-73-6	Isodrin	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
143-50-0	Kepone	NR		NR		NR		NR		NR	

*Blank entries indicate that sample was not analyzed for that analyte group

PCB & CHLORINATED PESTICIDES: GROUNDWATER

	A:\MPTDAT4.WK1										
	LOCATION:	MPT-2-MW5-1		MPT-2-MW5-1D		MPT-2-MW6-1		MPT-2-MW7S-1		MPT-2-MW7D-1	
	SAMPLE MATRIX:	WATER		WATER		WATER		WATER		WATER	
	DATE SAMPLED:	02/10/92		02/10/92		02/11/92		02/11/92		02/11/92	
	LAB NUMBER:	20877		20877		20884		20884		20884	
	UNITS:	µg/l		µg/l		µg/l		µg/l		µg/l	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
319-84-6	alpha-BHC	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
319-85-7	beta-BHC	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
319-86-8	delta-BHC	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
58-89-9	gamma-BHC; Lindane	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
76-44-8	Heptachlor	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
309-00-2	Aldrin	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
1024-57-3	Heptachlor epoxide	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
959-98-8	Endosulfan I	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
60-57-1	Dieldrin	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
72-55-9	4,4'-DDE	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
72-20-8	Endrin	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
33213-65-9	Endosulfan II	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
72-54-8	4,4'-DDD	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
7421-93-4	Endrin aldehyde	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
1031-07-8	Endosulfan sulfate	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
50-29-3	4,4'-DDT	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
72-43-5	Methoxychlor	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
53494-70-5	Endrin Ketone	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
57-74-09	Chlordane	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
8001-35-2	Toxaphene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
12674-11-2	Aroclor-1016	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U
11104-28-2	Aroclor-1221	2	U	2	U	2	U	2	U	2	U
11141-16-5	Aroclor-1232	2	U	2	U	2	U	2	U	2	U
53469-21-9	Aroclor-1242	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U

*Blank entries indicate that sample was not analyzed for that analyte group

PCB & CHLORINATED PESTICIDES: GROUNDWATER

	A:\MPTDAT4.WK1									
	LOCATION:	MPT-2-MW5-1		MPT-2-MW5-1D		MPT-2-MW6-1		MPT-2-MW7S-1		MPT-2-MW7D-1
	SAMPLE MATRIX:	WATER		WATER		WATER		WATER		WATER
	DATE SAMPLED:	02/10/92		02/10/92		02/11/92		02/11/92		02/11/92
	LAB NUMBER:	20877		20877		20884		20884		20884
	UNITS:	µg/l		µg/l		µg/l		µg/l		µg/l
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
12672-29-6	Aroclor-1248	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U
11097-69-1	Aroclor-1254	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
11096-82-5	Aroclor-1260	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
510-15-6	Chlorobenzilate	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
2303-16-4	Diallate	1	U	1	U	1	U	1	U	1	U
465-73-6	Isodrin	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
143-50-0	Kepone	NR		NR		NR		NR		NR	

*Blank entries indicate that sample was not analyzed for that analyte group

PCB & CHLORINATED PESTICIDES: GROUNDWATER

	A:\MPTDAT4.WK1		
	LOCATION:	MPT-2-MW8-1	
	SAMPLE MATRIX:	WATER	
	DATE SAMPLED:	02/10/92	
	LAB NUMBER:	20877	
	UNITS:	µg/l	
CAS RN	Common name	Conc.	Qual.
319-84-6	alpha-BHC	0.01	U
319-85-7	beta-BHC	0.02	U
319-86-8	delta-BHC	0.01	U
58-89-9	gamma-BHC; Lindane	0.01	U
76-44-8	Heptachlor	0.01	U
309-00-2	Aldrin	0.01	U
1024-57-3	Heptachlor epoxide	0.01	U
959-98-8	Endosulfan I	0.02	U
60-57-1	Dieldrin	0.02	U
72-55-9	4,4'-DDE	0.02	U
72-20-8	Endrin	0.02	U
33213-65-9	Endosulfan II	0.02	U
72-54-8	4,4'-DDD	0.02	U
7421-93-4	Endrin aldehyde	0.02	U
1031-07-8	Endosulfan sulfate	0.02	U
50-29-3	4,4'-DDT	0.02	U
72-43-5	Methoxychlor	0.04	U
53494-70-5	Endrin Ketone	0.02	U
57-74-09	Chlordane	0.1	U
8001-35-2	Toxaphene	0.5	U
12674-11-2	Aroclor-1016	0.8	U
11104-28-2	Aroclor-1221	2	U
11141-16-5	Aroclor-1232	2	U
53469-21-9	Aroclor-1242	0.8	U

*Blank entries indicate that sample was not analyzed for that analyte group

PCB & CHLORINATED PESTICIDES: GROUNDWATER

	A:\MPTDAT4.WK1		
	LOCATION:	MPT-2-MW8-1	
	SAMPLE MATRIX:	WATER	
	DATE SAMPLED:	02/10/92	
	LAB NUMBER:	20877	
	UNITS:	µg/l	
CAS RN	Common name	Conc.	Qual.
12672-29-6	Aroclor-1248	0.4	U
11097-69-1	Aroclor-1254	0.2	U
11096-82-5	Aroclor-1260	0.2	U
510-15-6	Chlorobenzilate	0.5	U
2303-16-4	Diallate	1	U
465-73-6	Isodrin	0.02	U
143-50-0	Kepone	NR	

*Blank entries indicate that sample was not analyzed for that analyte group

PCB & CHLORINATED PESTICIDES: GROUNDWATER

	A:\MPTDAT5.WK1									
	LOCATION:	MPT-2-MW9S-1		MPT-2-MW9D-1		MPT-2-MW10-1		MPT-2-MW11-1		MPT-2-MW12S-1	
	SAMPLE MATRIX:	WATER		WATER		WATER		WATER		WATER	
	DATE SAMPLED:	02/09/92		02/09/92		02/10/92		02/05/92		02/05/92	
	LAB NUMBER:	20866		20866		20877		20837		20837	
	UNITS:	µg/l		µg/l		µg/l		µg/l		µg/l	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
319-84-6	alpha-BHC	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
319-85-7	beta-BHC	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
319-86-8	delta-BHC	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
58-89-9	gamma-BHC; Lindane	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
76-44-8	Heptachlor	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
309-00-2	Aldrin	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
1024-57-3	Heptachlor epoxide	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
959-98-8	Endosulfan I	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
60-57-1	Dieldrin	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
72-55-9	4,4'-DDE	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
72-20-8	Endrin	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
33213-65-9	Endosulfan II	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
72-54-8	4,4'-DDD	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
7421-93-4	Endrin aldehyde	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
1031-07-8	Endosulfan sulfate	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
50-29-3	4,4'-DDT	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
72-43-5	Methoxychlor	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
53494-70-5	Endrin Ketone	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
57-74-09	Chlordane	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
8001-35-2	Toxaphene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
12674-11-2	Aroclor-1016	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U
11104-28-2	Aroclor-1221	2	U	2	U	2	U	2	U	2	U
11141-16-5	Aroclor-1232	2	U	2	U	2	U	2	U	2	U
53469-21-9	Aroclor-1242	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U

*Blank entries indicate that sample was not analyzed for that analyte group

PCB & CHLORINATED PESTICIDES: GROUNDWATER

	A:\MPTDAT5.WK1									
	LOCATION:	MPT-2-MW9S-1		MPT-2-MW9D-1		MPT-2-MW10-1		MPT-2-MW11-1		MPT-2-MW12S-1	
	SAMPLE MATRIX:	WATER		WATER		WATER		WATER		WATER	
	DATE SAMPLED:	02/09/92		02/09/92		02/10/92		02/05/92		02/05/92	
	LAB NUMBER:	20866		20866		20877		20837		20837	
	UNITS:	µg/l		µg/l		µg/l		µg/l		µg/l	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
12672-29-6	Aroclor-1248	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U
11097-69-1	Aroclor-1254	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
11096-82-5	Aroclor-1260	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
510-15-6	Chlorobenzilate	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
2303-16-4	Diallate	1	U	1	U	1	U	1	U	1	U
465-73-6	Isodrin	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
143-50-0	Kepone	NR		NR		NR		NR		NR	

*Blank entries indicate that sample was not analyzed for that analyte group

PCB & CHLORINATED PESTICIDES: GROUNDWATER

	A:\MPTDAT5.WK1										
	LOCATION:	MPT-2-MW12S-1D		MPT-2-MW12D-1		MPT-2-MW15S-1		MPT-2-MW15D-1		MPT-2-MW15D-1R	
	SAMPLE MATRIX:	WATER		WATER		WATER		WATER		WATER	
	DATE SAMPLED:	02/05/92		02/12/92		02/10/92		02/10/92		02/10/92	
	LAB NUMBER:	20837		20902		20877		20877		20877	
	UNITS:	µg/l		µg/l		µg/l		µg/l		µg/l	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
319-84-6	alpha-BHC	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
319-85-7	beta-BHC	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
319-86-8	delta-BHC	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
58-89-9	gamma-BHC; Lindane	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
76-44-8	Heptachlor	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
309-00-2	Aldrin	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
1024-57-3	Heptachlor epoxide	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
959-98-8	Endosulfan I	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
60-57-1	Dieldrin	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
72-55-9	4,4'-DDE	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
72-20-8	Endrin	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
33213-65-9	Endosulfan II	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
72-54-8	4,4'-DDD	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
7421-93-4	Endrin aldehyde	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
1031-07-8	Endosulfan sulfate	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
50-29-3	4,4'-DDT	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
72-43-5	Methoxychlor	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
53494-70-5	Endrin Ketone	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
57-74-09	Chlordane	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
8001-35-2	Toxaphene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
12674-11-2	Aroclor-1016	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U
11104-28-2	Aroclor-1221	2	U	2	U	2	U	2	U	2	U
11141-16-5	Aroclor-1232	2	U	2	U	2	U	2	U	2	U
53469-21-9	Aroclor-1242	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U

*Blank entries indicate that sample was not analyzed for that analyte group

PCB & CHLORINATED PESTICIDES: GROUNDWATER

	A:\MPTDAT5.WK1									
	LOCATION:	MPT-2-MW12S-1D		MPT-2-MW12D-1		MPT-2-MW15S-1		MPT-2-MW15D-1		MPT-2-MW15D-1R	
	SAMPLE MATRIX:	WATER		WATER		WATER		WATER		WATER	
	DATE SAMPLED:	02/05/92		02/12/92		02/10/92		02/10/92		02/10/92	
	LAB NUMBER:	20837		20902		20877		20877		20877	
	UNITS:	µg/l		µg/l		µg/l		µg/l		µg/l	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
12672-29-6	Aroclor-1248	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U
11097-69-1	Aroclor-1254	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
11096-82-5	Aroclor-1260	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
510-15-6	Chlorobenzilate	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
2303-16-4	Diallate	1	U	1	U	1	U	1	U	1	U
465-73-6	Isodrin	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
143-50-0	Kepone	NR		NR		NR		NR		NR	

*Blank entries indicate that sample was not analyzed for that analyte group

PCB & CHLORINATED PESTICIDES: GROUNDWATER

	A:\MPTDAT5.WK1								
	LOCATION:	MPT-2-MW16S-1		MPT-2-MW16DD-1		MPT-2-MW17S-1		MPT-2-MW17D-1	
	SAMPLE MATRIX:	WATER		WATER		WATER		WATER	
	DATE SAMPLED:	02/10/92		02/14/92		02/12/92			
	LAB NUMBER:	20877		20931		20902			
	UNITS:	µg/l		µg/l		µg/l		µg/l	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
319-84-6	alpha-BHC	0.01	U	0.01	U	0.01	U		
319-85-7	beta-BHC	0.02	U	0.02	U	0.02	U		
319-86-8	delta-BHC	0.01	U	0.01	U	0.01	U		
58-89-9	gamma-BHC; Lindane	0.01	U	0.01	U	0.01	U		
76-44-8	Heptachlor	0.01	U	0.01	U	0.01	U		
309-00-2	Aldrin	0.01	U	0.01	U	0.01	U		
1024-57-3	Heptachlor epoxide	0.01	U	0.01	U	0.01	U		
959-98-8	Endosulfan I	0.02	U	0.02	U	0.02	U		
60-57-1	Dieldrin	0.02	U	0.02	U	0.02	U		
72-55-9	4,4'-DDE	0.02	U	0.02	U	0.02	U		
72-20-8	Endrin	0.02	U	0.02	U	0.02	U		
33213-65-9	Endosulfan II	0.02	U	0.02	U	0.02	U		
72-54-8	4,4'-DDD	0.02	U	0.02	U	0.02	U		
7421-93-4	Endrin aldehyde	0.02	U	0.02	U	0.02	U		
1031-07-8	Endosulfan sulfate	0.02	U	0.02	U	0.02	U		
50-29-3	4,4'-DDT	0.02	U	0.02	U	0.02	U		
72-43-5	Methoxychlor	0.04	U	0.04	U	0.04	U		
53494-70-5	Endrin Ketone	0.02	U	0.02	U	0.02	U		
57-74-09	Chlordane	0.1	U	0.1	U	0.1	U		
8001-35-2	Toxaphene	0.5	U	0.5	U	0.5	U		
12674-11-2	Aroclor-1016	0.8	U	0.8	U	0.8	U		
11104-28-2	Aroclor-1221	2	U	2	U	2	U		
11141-16-5	Aroclor-1232	2	U	2	U	2	U		
53469-21-9	Aroclor-1242	0.8	U	0.8	U	0.8	U		

*Blank entries indicate that sample was not analyzed for that analyte group

PCB & CHLORINATED PESTICIDES: GROUNDWATER

	A:\MPTDAT5.WK1								
	LOCATION:	MPT-2-MW16S-1		MPT-2-MW16DD-1		MPT-2-MW17S-1		MPT-2-MW17D-1	
	SAMPLE MATRIX:	WATER		WATER		WATER		WATER	
	DATE SAMPLED:	02/10/92		02/14/92		02/12/92			
	LAB NUMBER:	20877		20931		20902			
	UNITS:	µg/l		µg/l		µg/l		µg/l	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
12672-29-6	Aroclor-1248	0.4	U	0.4	U	0.4	U		
11097-69-1	Aroclor-1254	0.2	U	0.2	U	0.2	U		
11096-82-5	Aroclor-1260	0.2	U	0.2	U	0.2	U		
510-15-6	Chlorobenzilate	0.5	U	0.5	U	0.5	U		
2303-16-4	Diallate	1	U	1	U	1	U		
465-73-6	Isodrin	0.02	U	0.02	U	0.02	U		
143-50-0	Kepone	NR		NR		NR			

*Blank entries indicate that sample was not analyzed for that analyte group

PCB & CHLORINATED PESTICIDES: GROUNDWATER

	A:\MPTDAT6.WK1									
	LOCATION:	MPT-13-MW1-1		MPT-13-MW2-1		MPT-13-MW3-1		MPT-13-MW4-1		MPT-13-MW5-1	
	SAMPLE MATRIX:	WATER		WATER		WATER		WATER		WATER	
	DATE SAMPLED:	02/11/92		02/11/92		02/11/92		02/05/92		02/05/92	
	LAB NUMBER:	20884		20884		20884		20850		20850	
	UNITS:	µg/l		µg/l		µg/l		µg/l		µg/l	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
319-84-6	alpha-BHC	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
319-85-7	beta-BHC	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
319-86-8	delta-BHC	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
58-89-9	gamma-BHC; Lindane	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
76-44-8	Heptachlor	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
309-00-2	Aldrin	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
1024-57-3	Heptachlor epoxide	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
959-98-8	Endosulfan I	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
60-57-1	Dieldrin	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
72-55-9	4,4'-DDE	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
72-20-8	Endrin	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
33213-65-9	Endosulfan II	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
72-54-8	4,4'-DDD	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
7421-93-4	Endrin aldehyde	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
1031-07-8	Endosulfan sulfate	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
50-29-3	4,4'-DDT	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
72-43-5	Methoxychlor	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
53494-70-5	Endrin Ketone	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
57-74-09	Chlordane	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
8001-35-2	Toxaphene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
12674-11-2	Aroclor-1016	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U
11104-28-2	Aroclor-1221	2	U	2	U	2	U	2	U	2	U
11141-16-5	Aroclor-1232	2	U	2	U	2	U	2	U	2	U
53469-21-9	Aroclor-1242	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U

*Blank entries indicate that sample was not analyzed for that analyte group

PCB & CHLORINATED PESTICIDES: GROUNDWATER

	A:\MPTDAT6.WK1									
	LOCATION:	MPT-13-MW1-1		MPT-13-MW2-1		MPT-13-MW3-1		MPT-13-MW4-1		MPT-13-MW5-1	
	SAMPLE MATRIX:	WATER		WATER		WATER		WATER		WATER	
	DATE SAMPLED:	02/11/92		02/11/92		02/11/92		02/05/92		02/05/92	
	LAB NUMBER:	20884		20884		20884		20850		20850	
	UNITS:	µg/l		µg/l		µg/l		µg/l		µg/l	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
12672-29-6	Aroclor-1248	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U
11097-69-1	Aroclor-1254	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
11096-82-5	Aroclor-1260	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
510-15-6	Chlorobenzilate	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
2303-16-4	Diallate	1	U	1	U	1	U	1	U	1	U
465-73-6	Isodrin	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
143-50-0	Kepone	NR		NR		NR		NR		NR	

*Blank entries indicate that sample was not analyzed for that analyte group

PCB & CHLORINATED PESTICIDES: GROUNDWATER

	A:\MPTDAT6.WK1							
	LOCATION:	MPT-13-MW6-1		MPT-22-MW1-1		MPT-1-MW1-1		MPT-S-1-1	
	SAMPLE MATRIX:	WATER		WATER		WATER		WATER	
	DATE SAMPLED:	02/11/92		02/05/92		02/12/92		02/12/92	
	LAB NUMBER:	20884		20837		20902		20902	
	UNITS:	µg/l		µg/l		µg/l		µg/l	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
319-84-6	alpha-BHC	0.01	U	0.01	U	0.01	U	0.01	U
319-85-7	beta-BHC	0.02	U	0.02	U	0.02	U	0.02	U
319-86-8	delta-BHC	0.01	U	0.01	U	0.01	U	0.01	U
58-89-9	gamma-BHC; Lindane	0.01	U	0.01	U	0.01	U	0.01	U
76-44-8	Heptachlor	0.01	U	0.01	U	0.01	U	0.01	U
309-00-2	Aldrin	0.01	U	0.01	U	0.01	U	0.01	U
1024-57-3	Heptachlor epoxide	0.01	U	0.01	U	0.01	U	0.01	U
959-98-8	Endosulfan I	0.02	U	0.02	U	0.02	U	0.02	U
60-57-1	Dieldrin	0.02	U	0.02	U	0.02	U	0.02	U
72-55-9	4,4'-DDE	0.02	U	0.02	U	0.02	U	0.02	U
72-20-8	Endrin	0.02	U	0.02	U	0.02	U	0.02	U
33213-65-9	Endosulfan II	0.02	U	0.02	U	0.02	U	0.02	U
72-54-8	4,4'-DDD	0.02	U	0.02	U	0.02	U	0.02	U
7421-93-4	Endrin aldehyde	0.02	U	0.02	U	0.02	U	0.02	U
1031-07-8	Endosulfan sulfate	0.02	U	0.02	U	0.02	U	0.02	U
50-29-3	4,4'-DDT	0.02	U	0.02	U	0.02	U	0.02	U
72-43-5	Methoxychlor	0.04	U	0.04	U	0.04	U	0.04	U
53494-70-5	Endrin Ketone	0.02	U	0.02	U	0.02	U	0.02	U
57-74-09	Chlordane	0.1	U	0.1	U	0.1	U	0.1	U
8001-35-2	Toxaphene	0.5	U	0.5	U	0.5	U	0.5	U
12674-11-2	Aroclor-1016	0.8	U	0.8	U	0.8	U	0.8	U
11104-28-2	Aroclor-1221	2	U	2	U	2	U	2	U
11141-16-5	Aroclor-1232	2	U	2	U	2	U	2	U
53469-21-9	Aroclor-1242	0.8	U	0.8	U	0.8	U	0.8	U

*Blank entries indicate that sample was not analyzed for that analyte group

PCB & CHLORINATED PESTICIDES: GROUNDWATER

	A:\MPTDAT6.WK1							
	LOCATION:	MPT-13-MW6-1		MPT-22-MW1-1		MPT-1-MW1-1		MPT-S-1-1	
	SAMPLE MATRIX:	WATER		WATER		WATER		WATER	
	DATE SAMPLED:	02/11/92		02/05/92		02/12/92		02/12/92	
	LAB NUMBER:	20884		20837		20902		20902	
	UNITS:	µg/l		µg/l		µg/l		µg/l	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
12672-29-6	Aroclor-1248	0.4	U	0.4	U	0.4	U	0.4	U
11097-69-1	Aroclor-1254	0.2	U	0.2	U	0.2	U	0.2	U
11096-82-5	Aroclor-1260	0.2	U	0.2	U	0.2	U	0.2	U
510-15-6	Chlorobenzilate	0.5	U	0.5	U	0.5	U	0.5	U
2303-16-4	Diallate	1	U	1	U	1	U	1	U
465-73-6	Isodrin	0.02	U	0.02	U	0.02	U	0.02	U
143-50-0	Kepone	NR		NR		NR		NR	

*Blank entries indicate that sample was not analyzed for that analyte group

METALS & CYANIDE: GROUNDWATER

	A:\MPTDAT4.WK1										
	LOCATION:	MPT-2-MW1-1		MPT-2-MW2-1		MPT-2-MW2-1D		MPT-2-MW3-1		MPT-2-MW4-1	
	SAMPLE MATRIX:	WATER		WATER		WATER		WATER		WATER	
	DATE SAMPLED:	02/11/92		02/11/92		02/11/92		02/09/92		02/10/92	
	LAB NUMBER:	20884		20884		20884		20866		20877	
	UNITS:	µg/l		µg/l		µg/l		µg/l		µg/l	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
7440-36-0	Antimony	17.3	B	10.1	U	10.1	U	10.9	U	14.3	B
7440-38-2	Arsenic	6	B	1	B	0.9	B	3.5	B	1.8	B
7440-39-3	Barium	20.1	B	12.7	B	13.2	B	82.7	B	45.6	B
7440-41-7	Beryllium	0.3	U	0.3	U	0.3	U	0.19	U	0.3	U
7440-43-9	Cadmium	1	U	1	U	1	U	2.9	U	1	U
7440-70-2	Calcium	305000		99000		98600		212000		240000	
7440-47-3	Chromium	2	U	2	U	2	U	2.1	U	2	U
7440-48-4	Cobalt	4.8	B	3.1	U	3.1	U	3.6	U	3.1	U
7440-50-8	Copper	1.4	U	1.4	U	1.4	U	2.9	B	1.4	U
7440-89-6	Iron	700		323		299		1090		381	
7440-92-1	Lead	0.7	U	0.7	U	0.7	U	4.9	B	0.7	U
7440-95-4	Magnesium	262000		30800		26900		467000		130000	
7440-96-5	Manganese	556		269		273		785		162	
7440-97-6	Mercury	0.1	U	0.1	U	0.1	U	0.16	U	0.1	U
7440-02-0	Nickel	6.5	U	6.5	U	6.5	U	3.8	U	7.1	B
7440-49-2	Selenium	3	U	0.6	U	0.6	U	12.8	U	3	U
7440-22-4	Silver	1.2	U	1.2	U	1.2	U	1.7	U	1.2	U
7440-23-5	Sodium	1990000		189000		156000		3850000		494000	
7440-28-0	Thallium	0.9	U	0.9	U	1	B	7	U	0.9	U
7440-62-2	Vanadium	9.5	B	8.4	B	8.8	B	6	B	9.4	B
7440-66-6	Zinc	2.7	B	10	B	8.2	B	7.3	B	5.6	B
7440-31-5	Tin	14.5	U	14.5	U	14.5	U	208	U	14.5	U
	Cyanide	3.7	B	2	U	2	U	7	B	9	B

*Blank entries indicate that sample was not analyzed for that analyte group

METALS & CYANIDE: GROUNDWATER

	A:\MPTDAT4.WK1										
	LOCATION:	MPT-2-MW5-1		MPT-2-MW5-1D		MPT-2-MW6-1		MPT-2-MW7S-1		MPT-2-MW7D-1	
	SAMPLE MATRIX:	WATER		WATER		WATER		WATER		WATER	
	DATE SAMPLED:	02/10/92		02/10/92		02/11/92		02/11/92		02/11/92	
	LAB NUMBER:	20877		20877		20884		20884		20884	
	UNITS:	µg/l		µg/l		µg/l		µg/l		µg/l	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
7440-36-0	Antimony	10.1	U	10.1	U	10.1	U	23.7	B	34	B
7440-38-2	Arsenic	0.4	U	0.6	B	1.3	B	23	B	4	B
7440-39-3	Barium	33.9	B	34	B	15.1	B	18.3	B	34	B
7440-41-7	Beryllium	0.3	U	0.3	U	0.5	B	0.3	U	0.3	U
7440-43-9	Cadmium	1	U	1	U	1	U	1	U	1	U
7440-70-2	Calcium	174000		174000		98600		327000		349000	
7440-47-3	Chromium	2	U	2	U	2	U	2	U	2	U
7440-48-4	Cobalt	3.1	U	3.1	U	3.2	B	4.8	B	3.1	U
7440-50-8	Copper	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U
7440-89-6	Iron	1640		2190		1220		2150		798	
7440-92-1	Lead	0.7	U	0.7	U	0.7	U	0.7	U	7	U
7440-95-4	Magnesium	86300		86000		55200		345000		625000	
7440-96-5	Manganese	110		112		104		1650		1460	
7440-97-6	Mercury	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
7440-02-0	Nickel	6.5	U	8	B	8.6	B	11.3	B	6.5	U
7440-49-2	Selenium	0.6	U	3	U	0.6	U	6	U	12	U
7440-22-4	Silver	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U
7440-23-5	Sodium	147000		147000		376000		2740000		4930000	
7440-28-0	Thallium	0.9	U	0.9	U	0.9	U	0.9	U	9	B
7440-62-2	Vanadium	4.8	B	4.7	B	3.2	B	9.8	B	6	B
7440-66-6	Zinc	4.3	B	4.3	B	2.2	B	4.5	B	3	B
7440-31-5	Tin	14.5	U	22.2		14.5	U	14.5	U	14.5	U
	Cyanide	2	U	2	U	2.2	B	3.6	B	10.9	

*Blank entries indicate that sample was not analyzed for that analyte group

METALS & CYANIDE: GROUNDWATER

	A:\MPTDAT4.WK1		
	LOCATION:	MPT-2-MW8-1	
	SAMPLE MATRIX:	WATER	
	DATE SAMPLED:	02/10/92	
	LAB NUMBER:	20877	
	UNITS:	µg/l	
CAS RN	Common name	Conc.	Qual.
7440-36-0	Antimony	10.1	U
7440-38-2	Arsenic	0.7	B
7440-39-3	Barium	36	B
7440-41-7	Beryllium	0.3	U
7440-43-9	Cadmium	1	U
7440-70-2	Calcium	19400	
7440-47-3	Chromium	2	U
7440-48-4	Cobalt	3.2	B
7440-50-8	Copper	3.3	B
7440-89-6	Iron	429	
7440-92-1	Lead	3.6	
7440-95-4	Magnesium	206000	
7440-96-5	Manganese	58.8	
7440-97-6	Mercury	0.1	U
7440-02-0	Nickel	11.6	B
7440-49-2	Selenium	3	U
7440-22-4	Silver	1.2	U
7440-23-5	Sodium	2420000	
7440-28-0	Thallium	0.9	U
7440-62-2	Vanadium	57	
7440-66-6	Zinc	77.2	
7440-31-5	Tin	14.5	U
	Cyanide	7.2	B

*Blank entries indicate that sample was not analyzed for that analyte group

METALS & CYANIDE: GROUNDWATER

	A:\MPTDAT5.WK1									
	LOCATION:	MPT-2-MW9S-1		MPT-2-MW9D-1		MPT-2-MW10-1		MPT-2-MW11-1		MPT-2-MW12S-1	
	SAMPLE MATRIX:	WATER		WATER		WATER		WATER		WATER	
	DATE SAMPLED:	02/09/92		02/09/92		02/10/92		02/05/92		02/05/92	
	LAB NUMBER:	20866		20866		20877		20837		20837	
	UNITS:	µg/l		µg/l		µg/l		µg/l		µg/l	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
7440-36-0	Antimony	10.9	U	10.9	U	17.4	B	10.9	U	10.9	U
7440-38-2	Arsenic	0.69	U	19.1		5	B	10.5		2.8	B
7440-39-3	Barium	8.7	B	27	B	29.1	B	28.4	B	32.3	B
7440-41-7	Beryllium	0.19	U	0.25	B	0.3	U	0.54	B	0.46	B
7440-43-9	Cadmium	2.9	U	2.9	U	1	U	2.9	U	2.9	U
7440-70-2	Calcium	79600		319000		162000		202000		256000	
7440-47-3	Chromium	2.1	U	3.2	B	2	U	12.2		10.2	
7440-48-4	Cobalt	3.6	U	3.6	U	3.1	U	3.8	B	3.6	U
7440-50-8	Copper	3.1	B	9.6	B	1.4	U	7.4	B	11.4	B
7440-89-6	Iron	162		1260		474		9770		3580	
7440-92-1	Lead	4.8		8.8	B	7	U	2.1	B	0.78	U
7440-95-4	Magnesium	300000		1080000		282000		304000		401000	
7440-96-5	Manganese	101		49		102		673		652	
7440-97-6	Mercury	0.16	U	0.16	U	0.1	U	0.16	U	0.16	U
7440-02-0	Nickel	5.1	B	12.1	B	6.5	U	4.7	B	18.5	B
7440-49-2	Selenium	12.8	U	12.8	U	3	U	1.5	B	2.5	B
7440-22-4	Silver	1.7	U	1.7	U	1.2	U	1.7	U	1.7	U
7440-23-5	Sodium	2660000		8780000		2900000		2500000		3470000	
7440-28-0	Thallium	7	U	7	U	0.9	U	1.4	U	1.4	U
7440-62-2	Vanadium	208	U	208	U	8	B	208	U	208	U
7440-66-6	Zinc	4.1	B	3.7	B	4.1	B	24	B	16.4	B
7440-31-5	Tin	7.6	B	12.8	B	14.5	U	25.5		45.4	
	Cyanide	6.9	B	306		2.6	B	1.8	U	8.6	B

*Blank entries indicate that sample was not analyzed for that analyte group

METALS & CYANIDE: GROUNDWATER

	A:\MPTDAT5.WK1										
	LOCATION:	MPT-2-MW12S-1D		MPT-2-MW12D-1		MPT-2-MW15S-1		MPT-2-MW15D-1		MPT-2-MW15D-1R	
	SAMPLE MATRIX:	WATER		WATER		WATER		WATER		WATER	
	DATE SAMPLED:	02/05/92		02/12/92		02/10/92		02/10/92		02/10/92	
	LAB NUMBER:	20837		20902		20877		20877		20877	
	UNITS:	µg/l		µg/l		µg/l		µg/l		µg/l	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
7440-36-0	Antimony	10.9	U	40.9	B	10.2	B	38	U		
7440-38-2	Arsenic	2.2	B	5	B	138		8	B		
7440-39-3	Barium	28.7	B	42.1	B	36.8	B	20.2	B		
7440-41-7	Beryllium	0.34	B	0.62	B	0.3	U	0.3	U		
7440-43-9	Cadmium	2.9	U	1	U	1	U	1	U		
7440-70-2	Calcium	245000		492000		315000		255000			
7440-47-3	Chromium	6.6	B	2	U	2	U	2	U		
7440-48-4	Cobalt	3.6	U	3.1	U	3.1	U	5.9	B		
7440-50-8	Copper	11.4	B	1.4	U	1.4	U	1.4	U		
7440-89-6	Iron	2810		449		19100		232			
7440-92-1	Lead	7.2	B	7	U	1.4	B	7	U		
7440-95-4	Magnesium	387000		1070000		103000		730000			
7440-96-5	Manganese	635		235		3340		223			
7440-97-6	Mercury	0.16	U	0.1	U	0.1	U	0.1	U		
7440-02-0	Nickel	8.6	B	6.5	U	21.2	B	6.5	U		
7440-49-2	Selenium	1.6	B	12	U	3	U	30	U		
7440-22-4	Silver	1.7	U	1.2	U	1.2	U	1.2	U		
7440-23-5	Sodium	3260000		8020000		595000		6920000			
7440-28-0	Thallium	1.4	U	9	U	0.9	U	9	U		
7440-62-2	Vanadium	208	U	13.1	B	12.2	B	6.7	B		
7440-66-6	Zinc	11.5	B	6.2	B	11.6	B	3.8	B		
7440-31-5	Tin	20.8		14.5	U	14.5	U	14.5	U		
	Cyanide	17.4		3	U	24.1		35.1			

*Blank entries indicate that sample was not analyzed for that analyte group

METALS & CYANIDE: GROUNDWATER

	A:\MPTDAT5.WK1								
	LOCATION:	MPT-2-MW16S-1		MPT-2-MW16DD-1		MPT-2-MW17S-1		MPT-2-MW17D-1	
	SAMPLE MATRIX:	WATER		WATER		WATER		WATER	
	DATE SAMPLED:	02/10/92		02/14/92		02/12/92			
	LAB NUMBER:	20877		20931		20902			
	UNITS:	µg/l		µg/l		µg/l		µg/l	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
7440-36-0	Antimony	10.1	U	44.5	B	10.1	U		
7440-38-2	Arsenic	1	B	4	U	14.6			
7440-39-3	Barium	12.8	B	62.4	B	10.3	B		
7440-41-7	Beryllium	0.3	U	0.3	U	0.3	U		
7440-43-9	Cadmium	1	U	1	U	1	U		
7440-70-2	Calcium	111000		474000		240000			
7440-47-3	Chromium	2	U	2	U	2	U		
7440-48-4	Cobalt	3.2	B	3.1	U	3.1	U		
7440-50-8	Copper	1.4	U	1.4	U	1.4	U		
7440-89-6	Iron	382		7	U	3990			
7440-92-1	Lead	0.8	B	7	U	5			
7440-95-4	Magnesium	57800		1110000		22100			
7440-96-5	Manganese	207		93.6		786			
7440-97-6	Mercury	0.1	U	0.1	U	0.1	U		
7440-02-0	Nickel	6.5	U	6.5	U	6.5	B		
7440-49-2	Selenium	0.6	U	12	U	0.6	U		
7440-22-4	Silver	1.2	U	1.2	U	1.2	U		
7440-23-5	Sodium	502000		8210000		40600			
7440-28-0	Thallium	0.9	U	9	U	0.9	U		
7440-62-2	Vanadium	7.7	B	5.7	B	12.1	B		
7440-66-6	Zinc	4.6	B	58.2		11.5	B		
7440-31-5	Tin	14.5	U	14.5	U	14.5	U		
	Cyanide	2	U	3	U	3	U		

*Blank entries indicate that sample was not analyzed for that analyte group

METALS & CYANIDE: GROUNDWATER

	A:\MPTDAT6.WK1										
	LOCATION:	MPT-13-MW1-1		MPT-13-MW2-1		MPT-13-MW3-1		MPT-13-MW4-1		MPT-13-MW5-1	
	SAMPLE MATRIX:	WATER		WATER		WATER		WATER		WATER	
	DATE SAMPLED:	02/11/92		02/11/92		02/11/92		02/05/92		02/05/92	
	LAB NUMBER:	20884		20884		20884		20850		20850	
	UNITS:	µg/l		µg/l		µg/l		µg/l		µg/l	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
7440-36-0	Antimony	10.1	U	10.1	U	10.1	U	11.1	B	10.9	U
7440-38-2	Arsenic	2.8	B	5.1	B	2.2	B	11.3		2.8	B
7440-39-3	Barium	10.9	B	9.6	B	8.7	B	63.3	B	15.7	B
7440-41-7	Beryllium	0.5	B	0.3	U	0.3	U	1.6	B	0.21	B
7440-43-9	Cadmium	1	U	1	U	1	U	2.9	U	2.9	U
7440-70-2	Calcium	103000		122000		116000		199000		114000	
7440-47-3	Chromium	2	U	2	U	2	U	56.6		11	
7440-48-4	Cobalt	3.1	U	3.1	U	3.1	U	8.4	B	3.6	U
7440-50-8	Copper	1.4	U	1.4	U	1.4	U	19.8	B	69.5	
7440-89-6	Iron	2830		1900		201		30900		5460	
7440-92-1	Lead	0.7	U	0.7	U	0.7	U	13.6		4.6	
7440-95-4	Magnesium	6890		40300		36100		69500		30400	
7440-96-5	Manganese	202		106		69.2		387		102	
7440-97-6	Mercury	0.1	U	0.1	U	0.13	B	0.16	U	0.16	U
7440-02-0	Nickel	6.5	U	8	B	6.5	U	18.7	B	146	
7440-49-2	Selenium	0.6	U	0.6	U	0.6	U	2.2	B	1.3	U
7440-22-4	Silver	1.2	U	1.2	U	1.2	U	1.7	U	1.7	U
7440-23-5	Sodium	32100		184000		184000		591000		186000	
7440-28-0	Thallium	0.9	U	0.9	U	0.9	U	1.4	U	1.4	U
7440-62-2	Vanadium	2.6	B	3	B	3	B	208	U	208	U
7440-66-6	Zinc	6.1	B	2	U	2.2	B	68.6		12.8	B
7440-31-5	Tin	14.5	U	14.5	U	14.5	U	71.8		99.9	
	Cyanide	2	U	4.4	B	4.5	B	NR		NR	

*Blank entries indicate that sample was not analyzed for that analyte group

METALS & CYANIDE: GROUNDWATER

	A:\MPTDAT6.WK1							
	LOCATION:	MPT-13-MW6-1		MPT-22-MW1-1		MPT-1-MW1-1		MPT-S-1-1	
	SAMPLE MATRIX:	WATER		WATER		WATER		WATER	
	DATE SAMPLED:	02/11/92		02/05/92		02/12/92		02/12/92	
	LAB NUMBER:	20884		20837		20902		20902	
	UNITS:	µg/l		µg/l		µg/l		µg/l	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
7440-36-0	Antimony	10.1	U	10.9	U	10.1	U	10.1	U
7440-38-2	Arsenic	0.7	B	3.2	B	14.3		0.4	U
7440-39-3	Barium	9	B	11.5	B	0.82	B	0.66	B
7440-41-7	Beryllium	0.3	U	0.23	B	0.3	U	0.3	U
7440-43-9	Cadmium	1	U	2.9	U	1	U	1	U
7440-70-2	Calcium	124000		158000		69400		91400	
7440-47-3	Chromium	2	U	5.9	B	2	U	2	U
7440-48-4	Cobalt	4.1	B	3.6	U	3.1	U	3.1	U
7440-50-8	Copper	1.4	U	9.1	B	1.4	B	1.4	U
7440-89-6	Iron	749		2960		3540		156	
7440-92-1	Lead	0.8	B	1.6	B	2.5	B	1.4	B
7440-95-4	Magnesium	44400		28700		3100	B	17600	
7440-96-5	Manganese	41.5		168		397		33.2	
7440-97-6	Mercury	0.1	U	0.16	U	0.1	U	0.1	U
7440-02-0	Nickel	6.5	U	8.3	B	6.5	U	6.5	U
7440-49-2	Selenium	0.6	U	1.3	U	0.63	B	0.6	U
7440-22-4	Silver	1.2	U	1.7	U	1.2	U	1.2	U
7440-23-5	Sodium	180000		249000		5880		7330	
7440-28-0	Thallium	0.9	U	1.4	U	0.9	U	0.9	U
7440-62-2	Vanadium	6	B	208	U	9.4	B	2.2	B
7440-66-6	Zinc	5.1	B	6.8	B	10.2	B	2.4	B
7440-31-5	Tin	14.5	U	20.6		14.5	U	14.5	U
	Cyanide	3.3	B	1.8	U	3	U	3	U

*Blank entries indicate that sample was not analyzed for that analyte group

VOLATILE ORGANIC COMPOUNDS: SOIL

	A:\MPTDAT7.WK1										
	LOCATION:	MPT-2-11S		MPT-2-11SDL		MPT-2-12S		MPT-2-12SDL		MPT-2-16S	
	SAMPLE MATRIX:	SOIL		SOIL		SOIL		SOIL		SOIL	
	DATE SAMPLED:	01/24/92		01/24/92		01/24/92		01/24/92		01/24/92	
	LAB NUMBER:	20753		20753		20753		20753		20753	
	UNITS:	µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
74-87-3	Chloromethane	12	U			11	U			12	U
74-83-9	Bromomethane	12	U			11	U			12	U
75-01-4	Vinyl chloride	12	U			11	U			12	U
75-00-3	Chloroethane	12	U			11	U			12	U
75-09-2	Methylene chloride	9	B			15	B			16	B
67-64-1	Acetone	8	BJ			14	B			56	B
75-15-0	Carbon disulfide	6	U			6	U			6	U
75-69-4	Trichlorofluoromethane	6	U			6	U			6	U
75-35-4	1,1-Dichloroethylene	6	U			6	U			6	U
75-34-3	1,1-Dichloroethane	6	U			6	U			6	U
540-59-0	1,2-Dichloroethene (total)	6	U			6	U			6	U
67-66-3	Chloroform	6	U			6	U			6	U
107-06-2	1,2-Dichloroethane	6	U			6	U			6	U
78-93-3	2-Butanone	12	B			11	BJ			13	B
71-55-6	1,1,1-Trichloroethane	6	U			6	U			6	U
56-23-5	Carbon tetrachloride	6	U			6	U			6	U
108-05-4	Vinyl acetate	12	U			11	U			12	U
75-27-4	Bromodichloromethane	6	U			6	U			6	U
78-87-5	1,2-Dichloropropane	6	U			6	U			6	U
10061-01-5	cis-1,3-Dichloropropene	6	U			6	U			6	U
79-01-6	Trichloroethene	6	U			6	U			6	U
124-48-1	Dibromochloromethane	6	U			6	U			6	U
79-00-5	1,1,2-Trichloroethane	6	U			6	U			6	U
71-43-2	Benzene	6	U			6	U			6	U

*Blank entries indicate that sample was not analyzed for that analyte group

VOLATILE ORGANIC COMPOUNDS: SOIL

	A:\MPTDAT7.WK1										
	LOCATION:	MPT-2-11S		MPT-2-11SDL		MPT-2-12S		MPT-2-12SDL		MPT-2-16S	
	SAMPLE MATRIX:	SOIL		SOIL		SOIL		SOIL		SOIL	
	DATE SAMPLED:	01/24/92		01/24/92		01/24/92		01/24/92		01/24/92	
	LAB NUMBER:	20753		20753		20753		20753		20753	
	UNITS:	µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
10061-02-6	trans-1,3-Dichloropropene	6	U			6	U			6	U
110-75-8	2-Chloroethylvinylether	12	U			11	U			12	U
75-25-2	Bromoform	6	U			6	U			6	U
591-78-6	2-Hexanone	12	U			11	U			12	U
108-10-1	4-Methyl-2-Pentanone	12	U			11	U			12	U
127-18-4	Tetrachloroethene	6	U			6	U			6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U			6	U			6	U
108-88-3	Toluene	6	U			6	U			6	U
108-90-7	Chlorobenzene	6	U			6	U			6	U
100-41-4	Ethylbenzene	6	U			6	U			6	U
100-42-5	Styrene	6	U			6	U			6	U
1330-20-7	Xylene (total)	2	J			2	J			2	J
541-73-1	1,3-Dichlorobenzene	6	U			6	U			6	U
106-46-7	1,4-Dichlorobenzene	6	U			6	U			6	U
95-50-1	1,2-Dichlorobenzene	6	U			6	U			6	U
107-02-8	Acrolein	120	U			110	U			120	U
74-88-4	Iodomethane	12	U			11	U			12	U
107-13-1	Acrylonitrile	120	U			110	U			120	U
74-95-3	Dibromomethane	6	U			6	U			6	U
97-63-2	Ethyl Methacrylate	6	U			6	U			6	U
96-18-4	1,2,3-Trichloropropane	6	U			6	U			6	U
110-57-6	trans-1,4-Dichloro-2-butene	6	U			6	U			6	U
75-05-8	Acetonitrile	120	U			110	U			120	U
107-05-1	3-Chloropropene	6	U			6	U			6	U

*Blank entries indicate that sample was not analyzed for that analyte group

VOLATILE ORGANIC COMPOUNDS: SOIL

	A:\MPTDAT7.WK1										
	LOCATION:	MPT-2-11S		MPT-2-11SDL		MPT-2-12S		MPT-2-12SDL		MPT-2-16S	
	SAMPLE MATRIX:	SOIL		SOIL		SOIL		SOIL		SOIL	
	DATE SAMPLED:	01/24/92		01/24/92		01/24/92		01/24/92		01/24/92	
	LAB NUMBER:	20753		20753		20753		20753		20753	
	UNITS:	µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
107-12-0	Propionitrile	120	U			110	U			120	U
126-98-7	Methacrylonitrile	6	U			6	U			6	U
123-91-1	1,4-Dioxane	240	U			220	U			240	U
80-62-6	Methyl methacrylate	12	U			11	U			12	U
106-93-4	1,2-Dibromoethane	6	U			6	U			6	U
630-20-6	1,1,1,2-Tetrachloroethane	6	U			6	U			6	U
96-12-8	1,2-Dibromo-3-chloropropane	12	U			11	U			12	U
76-01-7	Pentachloroethane	12	U			11	U			12	U
78-83-1	Isobutyl alcohol	240	U			220	U			240	U
126-99-8	Chloroprene	240	U			220	U			240	U

*Blank entries indicate that sample was not analyzed for that analyte group

VOLATILE ORGANIC COMPOUNDS: SOIL

	A:\MPTDAT7.WK1										
	LOCATION:	MPT-2-16SDL		MPT-2-17S		MPT-2-17SDL		MPT-13-4		MPT-13-4DUP	
	SAMPLE MATRIX:	SOIL		SOIL		SOIL		SOIL		SOIL	
	DATE SAMPLED:	01/24/92		01/24/92		01/24/92		01/24/92		01/24/92	
	LAB NUMBER:	20753		20753		20753		20753		20753	
	UNITS:	µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
74-87-3	Chloromethane			11	U			11	U	11	U
74-83-9	Bromomethane			11	U			11	U	11	U
75-01-4	Vinyl chloride			11	U			11	U	11	U
75-00-3	Chloroethane			11	U			11	U	11	U
75-09-2	Methylene chloride			9	B			11	B	9	B
67-64-1	Acetone			6	BJ			5	BJ	62	B
75-15-0	Carbon disulfide			5	U			6	U	2	J
75-69-4	Trichlorofluoromethane			5	U			6	U	6	U
75-35-4	1,1-Dichloroethylene			5	U			6	U	6	U
75-34-3	1,1-Dichloroethane			5	U			6	U	6	U
540-59-0	1,2-Dichloroethene (total)			5	U			6	U	6	U
67-66-3	Chloroform			5	U			6	U	6	U
107-06-2	1,2-Dichloroethane			5	U			6	U	6	U
78-93-3	2-Butanone			12	B			11	BJ	13	B
71-55-6	1,1,1-Trichloroethane			5	U			6	U	6	U
56-23-5	Carbon tetrachloride			5	U			6	U	6	U
108-05-4	Vinyl acetate			11	U			11	U	11	U
75-27-4	Bromodichloromethane			5	U			6	U	6	U
78-87-5	1,2-Dichloropropane			5	U			6	U	6	U
10061-01-5	cis-1,3-Dichloropropene			5	U			6	U	6	U
79-01-6	Trichloroethene			5	U			6	U	6	U
124-48-1	Dibromochloromethane			5	U			6	U	6	U
79-00-5	1,1,2-Trichloroethane			5	U			6	U	6	U
71-43-2	Benzene			5	U			6	U	6	U

*Blank entries indicate that sample was not analyzed for that analyte group

VOLATILE ORGANIC COMPOUNDS: SOIL

	A:\MPTDAT7.WK1										
	LOCATION:	MPT-2-16SDL		MPT-2-17S		MPT-2-17SDL		MPT-13-4		MPT-13-4DUP	
	SAMPLE MATRIX:	SOIL		SOIL		SOIL		SOIL		SOIL	
	DATE SAMPLED:	01/24/92		01/24/92		01/24/92		01/24/92		01/24/92	
	LAB NUMBER:	20753		20753		20753		20753		20753	
	UNITS:	µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
10061-02-6	trans-1,3-Dichloropropene			5	U			6	U	6	U
110-75-8	2-Chloroethylvinylether			11	U			11	U	11	U
75-25-2	Bromoform			5	U			6	U	6	U
591-78-6	2-Hexanone			11	U			11	U	11	U
108-10-1	4-Methyl-2-Pentanone			11	U			11	U	11	U
127-18-4	Tetrachloroethene			5	U			6	U	6	U
79-34-5	1,1,2,2-Tetrachloroethane			5	U			6	U	6	U
108-88-3	Toluene			5	U			6	U	6	U
108-90-7	Chlorobenzene			5	U			6	U	6	U
100-41-4	Ethylbenzene			5	U			6	U	6	U
100-42-5	Styrene			5	U			6	U	6	U
1330-20-7	Xylene (total)			2	J			5	J	10	
541-73-1	1,3-Dichlorobenzene			5	U			6	U	6	U
106-46-7	1,4-Dichlorobenzene			5	U			6	U	6	U
95-50-1	1,2-Dichlorobenzene			5	U			6	U	6	U
107-02-8	Acrolein			110	U			110	U	110	U
74-88-4	Iodomethane			11	U			11	U	11	U
107-13-1	Acrylonitrile			110	U			110	U	110	U
74-95-3	Dibromomethane			5	U			6	U	6	U
97-63-2	Ethyl Methacrylate			5	U			6	U	6	U
96-18-4	1,2,3-Trichloropropane			5	U			6	U	6	U
110-57-6	trans-1,4-Dichloro-2-butene			5	U			6	U	6	U
75-05-8	Acetonitrile			110	U			110	U	110	U
107-05-1	3-Chloropropene			5	U			6	U	6	U

*Blank entries indicate that sample was not analyzed for that analyte group

VOLATILE ORGANIC COMPOUNDS: SOIL

	A:\MPTDAT7.WK1										
	LOCATION:	MPT-2-16SDL		MPT-2-17S		MPT-2-17SDL		MPT-13-4		MPT-13-4DUP	
	SAMPLE MATRIX:	SOIL		SOIL		SOIL		SOIL		SOIL	
	DATE SAMPLED:	01/24/92		01/24/92		01/24/92		01/24/92		01/24/92	
	LAB NUMBER:	20753		20753		20753		20753		20753	
	UNITS:	µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
107-12-0	Propionitrile			110	U			110	U	110	U
126-98-7	Methacrylonitrile			5	U			6	U	6	U
123-91-1	1,4-Dioxane			220	U			220	U	220	U
80-62-6	Methyl methacrylate			11	U			11	U	11	U
106-93-4	1,2-Dibromoethane			5	U			6	U	6	U
630-20-6	1,1,1,2-Tetrachloroethane			5	U			6	U	6	U
96-12-8	1,2-Dibromo-3-chloropropane			11	U			11	U	11	U
76-01-7	Pentachloroethane			11	U			11	U	11	U
78-83-1	Isobutyl alcohol			220	U			220	U	220	U
126-99-8	Chloroprene			220	U			220	U	220	U

*Blank entries indicate that sample was not analyzed for that analyte group

VOLATILE ORGANIC COMPOUNDS: SOIL

	A:\MPTDAT7.WK1										
	LOCATION:	MPT-13-5		MPT-13-6		MPT-13-6DL		MPT-22-1S		MPT-22-1SDL	
	SAMPLE MATRIX:	SOIL		SOIL		SOIL		SOIL		SOIL	
	DATE SAMPLED:	01/24/92		01/24/92		01/24/92		01/24/92		01/24/92	
	LAB NUMBER:	20753		20753		20753		20753		20753	
	UNITS:	µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
74-87-3	Chloromethane	12	U	12	U			12	U		
74-83-9	Bromomethane	12	U	12	U			12	U		
75-01-4	Vinyl chloride	12	U	12	U			12	U		
75-00-3	Chloroethane	12	U	12	U			12	U		
75-09-2	Methylene chloride	25	B	42	B			8	B		
67-64-1	Acetone	34	B	55	B			7	BJ		
75-15-0	Carbon disulfide	6	U	6	U			6	U		
75-69-4	Trichlorofluoromethane	36		6	U			6	U		
75-35-4	1,1-Dichloroethylene	6	U	6	U			6	U		
75-34-3	1,1-Dichloroethane	6	U	6	U			6	U		
540-59-0	1,2-Dichloroethene (total)	6	U	6	U			6	U		
67-66-3	Chloroform	6	U	6	U			6	U		
107-06-2	1,2-Dichloroethane	6	U	6	U			6	U		
78-93-3	2-Butanone	12	BJ	11	BJ			8	BJ		
71-55-6	1,1,1-Trichloroethane	6	U	6	U			6	U		
56-23-5	Carbon tetrachloride	6	U	6	U			6	U		
108-05-4	Vinyl acetate	12	U	12	U			12	U		
75-27-4	Bromodichloromethane	6	U	6	U			6	U		
78-87-5	1,2-Dichloropropane	6	U	6	U			6	U		
10061-01-5	cis-1,3-Dichloropropene	6	U	6	U			6	U		
79-01-6	Trichloroethene	6	U	6	U			6	U		
124-48-1	Dibromochloromethane	6	U	6	U			6	U		
79-00-5	1,1,2-Trichloroethane	6	U	6	U			6	U		
71-43-2	Benzene	6	U	6	U			6	U		

*Blank entries indicate that sample was not analyzed for that analyte group

VOLATILE ORGANIC COMPOUNDS: SOIL

	A:\MPTDAT7.WK1										
	LOCATION:	MPT-13-5		MPT-13-6		MPT-13-6DL		MPT-22-1S		MPT-22-1SDL	
	SAMPLE MATRIX:	SOIL		SOIL		SOIL		SOIL		SOIL	
	DATE SAMPLED:	01/24/92		01/24/92		01/24/92		01/24/92		01/24/92	
	LAB NUMBER:	20753		20753		20753		20753		20753	
	UNITS:	µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
10061-02-6	trans-1,3-Dichloropropene	6	U	6	U			6	U		
110-75-8	2-Chloroethylvinylether	12	U	12	U			12	U		
75-25-2	Bromoform	6	U	6	U			6	U		
591-78-6	2-Hexanone	12	U	12	U			12	U		
108-10-1	4-Methyl-2-Pentanone	12	U	12	U			12	U		
127-18-4	Tetrachloroethene	6	U	6	U			6	U		
79-34-5	1,1,2,2-Tetrachloroethane	6	U	6	U			6	U		
108-88-3	Toluene	6	U	6	U			6	U		
108-90-7	Chlorobenzene	6	U	6	U			6	U		
100-41-4	Ethylbenzene	6	U	6	U			6	U		
100-42-5	Styrene	6	U	6	U			6	U		
1330-20-7	Xylene (total)	3	J	6	U			6	U		
541-73-1	1,3-Dichlorobenzene	6	U	6	U			6	U		
106-46-7	1,4-Dichlorobenzene	6	U	6	U			6	U		
95-50-1	1,2-Dichlorobenzene	6	U	6	U			6	U		
107-02-8	Acrolein	120	U	120	U			120	U		
74-88-4	Iodomethane	12	U	12	U			12	U		
107-13-1	Acrylonitrile	120	U	120	U			120	U		
74-95-3	Dibromomethane	6	U	6	U			6	U		
97-63-2	Ethyl Methacrylate	6	U	6	U			6	U		
96-18-4	1,2,3-Trichloropropane	6	U	6	U			6	U		
110-57-6	trans-1,4-Dichloro-2-butene	6	U	6	U			6	U		
75-05-8	Acetonitrile	120	U	120	U			120	U		
107-05-1	3-Chloropropene	6	U	6	U			6	U		

*Blank entries indicate that sample was not analyzed for that analyte group

VOLATILE ORGANIC COMPOUNDS: SOIL

	A:\MPTDAT7.WK1										
	LOCATION:	MPT-13-5		MPT-13-6		MPT-13-6DL		MPT-22-1S		MPT-22-1SDL	
	SAMPLE MATRIX:	SOIL		SOIL		SOIL		SOIL		SOIL	
	DATE SAMPLED:	01/24/92		01/24/92		01/24/92		01/24/92		01/24/92	
	LAB NUMBER:	20753		20753		20753		20753		20753	
	UNITS:	µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
107-12-0	Propionitrile	120	U	120	U			120	U		
126-98-7	Methacrylonitrile	6	U	6	U			6	U		
123-91-1	1,4-Dioxane	240	U	250	U			250	U		
80-62-6	Methyl methacrylate	12	U	12	U			12	U		
106-93-4	1,2-Dibromoethane	6	U	6	U			6	U		
630-20-6	1,1,1,2-Tetrachloroethane	6	U	6	U			6	U		
96-12-8	1,2-Dibromo-3-chloropropane	12	U	12	U			12	U		
76-01-7	Pentachloroethane	12	U	12	U			12	U		
78-83-1	Isobutyl alcohol	250	U	250	U			250	U		
126-99-8	Chloroprene	250	U	250	U			250	U		

*Blank entries indicate that sample was not analyzed for that analyte group

VOLATILE ORGANIC COMPOUNDS: SOIL

	A:\MPTDT11.WK1										
	LOCATION:	MPT-22-U-1		MPT-22-L-1		MPT-22-U-2		MPT-22-L-2		MPT-22-U-3	
	SAMPLE MATRIX:	SOIL		SOIL		SOIL		SOIL		SOIL	
	DATE SAMPLED:	03/11/92		03/11/92		03/11/92		03/11/92		03/11/92	
	LAB NUMBER:	21171		21171		21171		21171		21171	
	UNITS:	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
74-87-3	Chloromethane	11	U	14	U	11	U	12	U	11	U
74-83-9	Bromomethane	11	U	14	U	11	U	12	U	11	U
75-01-4	Vinyl chloride	11	U	14	U	11	U	12	U	11	U
75-00-3	Chloroethane	11	U	14	U	11	U	12	U	11	U
75-09-2	Methylene chloride	12	B	25	B	12	B	15	B	9	B
67-64-1	Acetone	14		13	J	18	U	11	BJ	23	B
75-15-0	Carbon disulfide	5	U	7	U	6	U	6	U	6	U
75-69-4	Trichlorofluoromethane	5	U	7	U	6	U	6	U	6	U
75-35-4	1,1-Dichloroethylene	5	U	7	U	6	U	6	U	6	U
75-34-3	1,1-Dichloroethane	5	U	7	U	6	U	6	U	6	U
540-59-0	1,2-Dichloroethene (total)	5	U	7	U	6	U	6	U	6	U
67-66-3	Chloroform	3	BJ	3	BJ	2	BJ	2	BJ	2	BJ
107-06-2	1,2-Dichloroethane	5	U	7	U	6	U	6	U	6	U
78-93-3	2-Butanone	11	U	14	U	11	U	12	U	11	U
71-55-6	1,1,1-Trichloroethane	5	U	7	U	6	U	6	U	6	U
56-23-5	Carbon tetrachloride	5	U	7	U	6	U	6	U	6	U
108-05-4	Vinyl acetate	11	U	14	U	11	U	12	U	11	U
75-27-4	Bromodichloromethane	5	U	7	U	6	U	6	U	6	U
78-87-5	1,2-Dichloropropane	5	U	7	U	6	U	6	U	6	U
10061-01-5	cis-1,3-Dichloropropene	5	U	7	U	6	U	6	U	6	U
79-01-6	Trichloroethene	5	U	7	U	6	U	6	U	6	U
124-48-1	Dibromochloromethane	5	U	7	U	6	U	6	U	6	U
79-00-5	1,1,2-Trichloroethane	5	U	7	U	6	U	6	U	6	U
71-43-2	Benzene	5	U	7	U	6	U	6	U	6	U

*Blank entries indicate that sample was not analyzed for that analyte group

VOLATILE ORGANIC COMPOUNDS: SOIL

	A:\MPTDT11.WK1									
	LOCATION:	MPT-22-U-1		MPT-22-L-1		MPT-22-U-2		MPT-22-L-2		MPT-22-U-3	
	SAMPLE MATRIX:	SOIL		SOIL		SOIL		SOIL		SOIL	
	DATE SAMPLED:	03/11/92		03/11/92		03/11/92		03/11/92		03/11/92	
	LAB NUMBER:	21171		21171		21171		21171		21171	
	UNITS:	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
10061-02-6	trans-1,3-Dichloropropene	5	U	7	U	6	U	6	U	6	U
110-75-8	2-Chloroethylvinylether	11	U	14	U	11	U	12	U	11	U
75-25-2	Bromoform	5	U	7	U	6	U	6	U	6	U
591-78-6	2-Hexanone	11	U	14	U	11	U	12	U	11	U
108-10-1	4-Methyl-2-Pentanone	11	U	14	U	11	U	12	U	11	U
127-18-4	Tetrachloroethene	5	U	7	U	6	U	6	U	6	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U	7	U	6	U	6	U	6	U
108-88-3	Toluene	5	U	7	U	6	U	6	U	6	U
108-90-7	Chlorobenzene	5	U	7	U	6	U	6	U	6	U
100-41-4	Ethylbenzene	5	U	7	U	6	U	6	U	6	U
100-42-5	Styrene	5	U	7	U	6	U	6	U	6	U
1330-20-7	Xylene (total)	5	U	7	U	6	U	6	U	6	U
541-73-1	1,3-Dichlorobenzene	5	U	7	U	6	U	6	U	6	U
106-46-7	1,4-Dichlorobenzene	5	U	7	U	6	U	6	U	6	U
95-50-1	1,2-Dichlorobenzene	5	U	7	U	6	U	6	U	6	U
107-02-8	Acrolein	110	U	140	U	110	U	120	U	110	U
74-88-4	Iodomethane	11	U	14	U	11	U	12	U	11	U
107-13-1	Acrylonitrile	110	U	140	U	110	U	120	U	110	U
74-95-3	Dibromomethane	5	U	7	U	6	U	6	U	6	U
97-63-2	Ethyl Methacrylate	5	U	7	U	6	U	6	U	6	U
96-18-4	1,2,3-Trichloropropane	5	U	7	U	6	U	6	U	6	U
110-57-6	trans-1,4-Dichloro-2-butene	5	U	7	U	6	U	6	U	6	U
75-05-8	Acetonitrile	110	U	140	U	110	U	120	U	110	U
107-05-1	3-Chloropropene	5	U	7	U	6	U	6	U	6	U

*Blank entries indicate that sample was not analyzed for that analyte group

VOLATILE ORGANIC COMPOUNDS: SOIL

	A:\MPTDT11.WK1									
	LOCATION:	MPT-22-U-1		MPT-22-L-1		MPT-22-U-2		MPT-22-L-2		MPT-22-U-3	
	SAMPLE MATRIX:	SOIL		SOIL		SOIL		SOIL		SOIL	
	DATE SAMPLED:	03/11/92		03/11/92		03/11/92		03/11/92		03/11/92	
	LAB NUMBER:	21171		21171		21171		21171		21171	
	UNITS:	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
107-12-0	Propionitrile	110	U	140	U	110	U	120	U	110	U
126-98-7	Methacrylonitrile	5	U	7	U	6	U	6	U	6	U
123-91-1	1,4-Dioxane	210	U	290	U	230	U	240	U	230	U
80-62-6	Methyl methacrylate	11	U	14	U	11	U	12	U	11	U
106-93-4	1,2-Dibromoethane	5	U	7	U	6	U	6	U	6	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U	7	U	6	U	6	U	6	U
96-12-8	1,2-Dibromo-3-chloropropane	11	U	14	U	11	U	12	U	11	U
76-01-7	Pentachloroethane	11	U	14	U	11	U	12	U	11	U
78-83-1	Isobutyl alcohol	210	U	290	U	230	U	240	U	230	U
126-99-8	Chloroprene	210	U	290	U	230	U	240	U	230	U

*Blank entries indicate that sample was not analyzed for that analyte group

VOLATILE ORGANIC COMPOUNDS: SOIL

	A:\MPTDT11.WK1							
	LOCATION:	MPT-22-L-3		MPT-22-U-4		MPT-22-L-4		MPT-22-D-1
	SAMPLE MATRIX:	SOIL		SOIL		SOIL		SOIL
	DATE SAMPLED:	03/11/92		03/11/92		03/11/92		03/11/92
	LAB NUMBER:	21171		21171		21171		21171
	UNITS:	ug/Kg		ug/Kg		ug/Kg		ug/Kg
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
74-87-3	Chloromethane	12	U	12	U	13	U	11	U
74-83-9	Bromomethane	12	U	12	U	13	U	11	U
75-01-4	Vinyl chloride	12	U	12	U	13	U	11	U
75-00-3	Chloroethane	12	U	12	U	13	U	11	U
75-09-2	Methylene chloride	15	B	18	B	27	B	12	B
67-64-1	Acetone	20	BJ	14		9	BJ	11	U
75-15-0	Carbon disulfide	2	J	6	U	6	U	5	U
75-69-4	Trichlorofluoromethane	6	U	6	U	6	U	5	U
75-35-4	1,1-Dichloroethylene	6	U	6	U	6	U	5	U
75-34-3	1,1-Dichloroethane	6	U	6	U	6	U	5	U
540-59-0	1,2-Dichloroethene (total)	6	U	6	U	6	U	5	U
67-66-3	Chloroform	1	BJ	3	BJ	2	BJ	2	BJ
107-06-2	1,2-Dichloroethane	6	U	6	U	6	U	5	U
78-93-3	2-Butanone	12	U	12	U	13	U	11	U
71-55-6	1,1,1-Trichloroethane	6	U	6	U	6	U	5	U
56-23-5	Carbon tetrachloride	6	U	6	U	6	U	5	U
108-05-4	Vinyl acetate	12	U	12	U	13	U	11	U
75-27-4	Bromodichloromethane	6	U	6	U	6	U	5	U
78-87-5	1,2-Dichloropropane	6	U	6	U	6	U	5	U
10061-01-5	cis-1,3-Dichloropropene	6	U	6	U	6	U	5	U
79-01-6	Trichloroethene	6	U	6	U	6	U	5	U
124-48-1	Dibromochloromethane	6	U	6	U	6	U	5	U
79-00-5	1,1,2-Trichloroethane	6	U	6	U	6	U	5	U
71-43-2	Benzene	6	U	6	U	6	U	5	U

*Blank entries indicate that sample was not analyzed for that analyte group

VOLATILE ORGANIC COMPOUNDS: SOIL

	A:\MPTDT11.WK1							
	LOCATION:	MPT-22-L-3		MPT-22-U-4		MPT-22-L-4		MPT-22-D-1
	SAMPLE MATRIX:	SOIL		SOIL		SOIL		SOIL
	DATE SAMPLED:	03/11/92		03/11/92		03/11/92		03/11/92
	LAB NUMBER:	21171		21171		21171		21171
	UNITS:	ug/Kg		ug/Kg		ug/Kg		ug/Kg
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
10061-02-6	trans-1,3-Dichloropropene	6	U	6	U	6	U	5	U
110-75-8	2-Chloroethylvinylether	12	U	12	U	13	U	11	U
75-25-2	Bromoform	6	U	6	U	6	U	5	U
591-78-6	2-Hexanone	12	U	12	U	13	U	11	U
108-10-1	4-Methyl-2-Pentanone	12	U	12	U	13	U	11	U
127-18-4	Tetrachloroethene	6	U	6	U	6	U	5	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U	6	U	6	U	5	U
108-88-3	Toluene	6	U	6	U	6	U	5	U
108-90-7	Chlorobenzene	6	U	6	U	6	U	5	U
100-41-4	Ethylbenzene	6	U	6	U	6	U	5	U
100-42-5	Styrene	6	U	6	U	6	U	5	U
1330-20-7	Xylene (total)	6	U	6	U	6	U	5	U
541-73-1	1,3-Dichlorobenzene	6	U	6	U	6	U	5	U
106-46-7	1,4-Dichlorobenzene	6	U	6	U	6	U	5	U
95-50-1	1,2-Dichlorobenzene	6	U	6	U	6	U	5	U
107-02-8	Acrolein	120	U	120	U	130	U	110	U
74-88-4	Iodomethane	12	U	12	U	13	U	11	U
107-13-1	Acrylonitrile	120	U	120	U	130	U	110	U
74-95-3	Dibromomethane	6	U	6	U	6	U	5	U
97-63-2	Ethyl Methacrylate	6	U	6	U	6	U	5	U
96-18-4	1,2,3-Trichloropropane	6	U	6	U	6	U	5	U
110-57-6	trans-1,4-Dichloro-2-butene	6	U	6	U	6	U	5	U
75-05-8	Acetonitrile	120	U	120	U	130	U	110	U
107-05-1	3-Chloropropene	6	U	6	U	6	U	5	U

*Blank entries indicate that sample was not analyzed for that analyte group

VOLATILE ORGANIC COMPOUNDS: SOIL

	A:\MPTDT11.WK1							
	LOCATION:	MPT-22-L-3		MPT-22-U-4		MPT-22-L-4		MPT-22-D-1
	SAMPLE MATRIX:	SOIL		SOIL		SOIL		SOIL
	DATE SAMPLED:	03/11/92		03/11/92		03/11/92		03/11/92
	LAB NUMBER:	21171		21171		21171		21171
	UNITS:	ug/Kg		ug/Kg		ug/Kg		ug/Kg
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
107-12-0	Propionitrile	120	U	120	U	130	U	110	U
126-98-7	Methacrylonitrile	6	U	6	U	6	U	5	U
123-91-1	1,4-Dioxane	240	U	240	U	250	U	210	U
80-62-6	Methyl methacrylate	12	U	12	U	13	U	11	U
106-93-4	1,2-Dibromoethane	6	U	6	U	6	U	5	U
630-20-6	1,1,1,2-Tetrachloroethane	6	U	6	U	6	U	5	U
96-12-8	1,2-Dibromo-3-chloropropane	12	U	12	U	13	U	11	U
76-01-7	Pentachloroethane	12	U	12	U	13	U	11	U
78-83-1	Isobutyl alcohol	240	U	240	U	250	U	210	U
126-99-8	Chloroprene	240	U	240	U	250	U	210	U

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: SOIL

	A:\MPTDAT7.WK1										
	LOCATION:	MPT-2-11S		MPT-2-11SDL		MPT-2-12S		MPT-2-12SDL		MPT-2-16S	
	SAMPLE MATRIX:	SOIL		SOIL		SOIL		SOIL		SOIL	
	DATE SAMPLED:	01/24/92		01/24/92		01/24/92		01/24/92		01/24/92	
	LAB NUMBER:	20753		20753		20753		20753		20753	
	UNITS:	µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
62-75-9	N-Nitrosodimethylamine	380	U			410	U			400	U
108-95-2	Phenol	380	U			410	U			400	U
62-53-3	Aniline	380	U			410	U			400	U
111-44-4	bis(2-Chloroethyl)Ether	380	U			410	U			400	U
95-57-8	2-Chlorophenol	380	U			410	U			400	U
541-73-1	1,3-Dichlorobenzene	380	U			410	U			400	U
106-46-7	1,4-Dichlorobenzene	380	U			410	U			400	U
100-51-6	Benzyl alcohol	380	U			410	U			400	U
95-50-1	1,2-Dichlorobenzene	380	U			410	U			400	U
95-48-7	2-Methylphenol	380	U			410	U			400	U
39638-32-9	bis(2-chloroethyl)Ether	380	U			410	U			400	U
106-44-5	4-Methylphenol	380	U			410	U			400	U
621-64-7	N-Nitroso-Di-n-Propylamine	380	U			410	U			400	U
67-72-1	Hexachloroethane	380	U			410	U			400	U
98-95-3	Nitrobenzene	380	U			410	U			400	U
78-59-1	Isophorone	380	U			410	U			400	U
88-75-5	2-Nitrophenol	380	U			410	U			400	U
105-67-9	2,4-Dimethylphenol	380	U			410	U			400	U
65-?5-0	Benzoic Acid	1900	U			2000	U			1900	U
111-91-1	Bis(2-chloroethoxy)methane	380	U			410	U			400	U
120-83-2	2,4-Dichlorophenol	380	U			410	U			400	U
120-82-1	1,2,4-Trichlorobenzene	380	U			410	U			400	U
91-20-3	Naphthalene	380	U			410	U			400	U
106-47-8	4-Chloroaniline	380	U			410	U			400	U

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: SOIL

	A:\MPTDAT7.WK1										
	LOCATION:	MPT-2-11S		MPT-2-11SDL		MPT-2-12S		MPT-2-12SDL		MPT-2-16S	
	SAMPLE MATRIX:	SOIL		SOIL		SOIL		SOIL		SOIL	
	DATE SAMPLED:	01/24/92		01/24/92		01/24/92		01/24/92		01/24/92	
	LAB NUMBER:	20753		20753		20753		20753		20753	
	UNITS:	µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
87-68-3	Hexachlorobutadiene	380	U			410	U			400	U
59-50-7	4-Chloro-3-Methylphenol	380	U			410	U			400	U
91-57-6	2-Methylnaphthalene	380	U			410	U			400	U
77-47-4	Hexachlorocyclopentadiene	380	U			410	U			400	U
88-06-2	2,4,6-Trichlorophenol	380	U			410	U			400	U
95-95-4	2,4,5-Trichlorophenol	1900	U			2000	U			1900	U
91-58-7	2-Chloronaphthalene	380	U			410	U			400	U
88-74-4	2-Nitroaniline	1900	U			2000	U			1900	U
131-11-3	Dimethyl phthalate	380	U			410	U			400	U
208-96-8	Acenaphthylene	380	U			410	U			400	U
606-20-2	2,6-Dinitrotoluene	380	U			410	U			400	U
99-09-2	3-Nitroaniline	1900	U			2000	U			1900	U
83-32-9	Acenaphthene	380	U			410	U			400	U
51-28-5	2,4-Dinitrophenol	1900	U			2000	U			1900	U
100-02-7	4-Nitrophenol	1900	U			2000	U			1900	U
132-64-9	Dibenzofuran	380	U			410	U			400	U
121-14-2	2,4-Dinitrotoluene	380	U			410	U			400	U
84-66-2	Diethyl phthalate	380	U			410	U			400	U
7005-72-3	4-Chlorophenyl phenyl ether	380	U			410	U			400	U
86-73-7	Fluorene	380	U			410	U			400	U
100-10-6	4-Nitroaniline	1900	U			2000	U			1900	U
534-52-1	4,6-Dinitro-2-Methylphenol	1900	U			2000	U			1900	U
86-30-6	N-Nitrosodiphenylamine	380	U			410	U			400	U
122-66-7	1,2-Diphenylhydrazine	380	U			410	U			400	U

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: SOIL

	A:\MPTDAT7.WK1										
	LOCATION:	MPT-2-11S		MPT-2-11SDL		MPT-2-12S		MPT-2-12SDL		MPT-2-16S	
	SAMPLE MATRIX:	SOIL		SOIL		SOIL		SOIL		SOIL	
	DATE SAMPLED:	01/24/92		01/24/92		01/24/92		01/24/92		01/24/92	
	LAB NUMBER:	20753		20753		20753		20753		20753	
	UNITS:	µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
101-55-3	4-Bromophenyl phenyl ether	380	U			410	U			400	U
118-74-1	Hexachlorobenzene	380	U			410	U			400	U
87-86-5	Pentachlorophenol	1900	BU			2000	BU			1900	BU
85-01-8	Phenanthrene	380	U			410	U			400	U
120-12-7	Anthracene	380	U			410	U			400	U
84-74-2	Di-n-butyl phthalate	380	BU			410	BU			400	BU
206-44-0	Fluoranthene	380	U			410	U			400	U
129-00-0	Pyrene	380	U			410	U			400	U
85-68-7	Butyl benzyl phthalate	380	U			410	U			400	U
91-94-1	3,3'-Dichlorobenzidine	770	U			810	U			800	U
56-55-3	Benzo[a]anthracene	380	U			410	U			400	U
218-01-9	Chrysene	380	U			410	U			400	U
117-81-7	Bis(2-ethylhexyl) phthalate	380	BU			53	BJ			400	BU
117-84-0	Di-n-octyl phthalate	380	U			410	U			400	U
205-99-2	Benzo[b]fluoranthene	380	U			410	U			400	U
207-08-9	Benzo[k]fluoranthene	380	U			410	U			400	U
50-32-8	Benzo[a]pyrene	380	U			410	U			400	U
193-39-5	Indeno(1,2,3-cd)pyrene	380	U			410	U			400	U
53-70-3	Dibenz[a,h]anthracene	380	U			410	U			400	U
191-24-2	Benzo[ghi]perylene	380	U			410	U			400	U
109-06-8	2-Picoline	1900	U			2000	U			1900	U
66-27-3	Methyl methanesulfonate	380	U			410	U			400	U
62-50-0	Ethyl methanesulfonate	380	U			410	U			400	U
98-86-2	Acetophenone	380	U			410	U			400	U

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: SOIL

	A:\MPTDAT7.WK1										
	LOCATION:	MPT-2-11S		MPT-2-11SDL		MPT-2-12S		MPT-2-12SDL		MPT-2-16S	
	SAMPLE MATRIX:	SOIL		SOIL		SOIL		SOIL		SOIL	
	DATE SAMPLED:	01/24/92		01/24/92		01/24/92		01/24/92		01/24/92	
	LAB NUMBER:	20753		20753		20753		20753		20753	
	UNITS:	µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
100-75-4	N-Nitrosopiperidine	380	U			410	U			400	U
122-09-8	Phenyl-tert-butylamine	1900	U			2000	U			1900	U
87-65-0	2,6-Dichlorophenol	380	U			410	U			400	U
924-16-3	N-Nitrosodi-n-butylamine	380	U			410	U			400	U
55-18-5	N-Nitrosodiethylamine	380	U			410	U			400	U
930-55-2	N-Nitrosopyrrolidine	380	U			410	U			400	U
92-87-5	Benzidine	1900	U			2000	U			1900	U
95-94-3	1,2,4,5-Tetrachlorobenzene	1900	U			2000	U			1900	U
608-93-5	Pentachlorobenzene	1900	U			2000	U			1900	U
134-32-7	1-Naphthylamine	1900	U			2000	U			1900	U
91-59-8	2-Naphthylamine	1900	U			2000	U			1900	U
58-90-2	2,3,4,6-Tetrachlorophenol	380	U			410	U			400	U
122-39-4	Diphenylamine	380	U			410	U			400	U
62-44-2	Phenacetin	380	U			410	U			400	U
92-67-1	4-Aminobiphenyl	1900	U			2000	U			1900	U
82-68-8	Pentachloronitrobenzene	1900	U			2000	U			1900	U
23950-58-5	Pronamide	380	U			410	U			400	U
60-11-7	p-(Dimethylamino)azobenzene	380	U			410	U			400	U
57-97-6	7,12-Dimethylbenz[a]anthracene	380	U			410	U			400	U
56-49-5	Methylcholanthrene	380	U			410	U			400	U
110-86-1	Pyridine	1900	U			2000	U			1900	U
10595-95-6	N-Nitrosomethylethylamine	380	U			410	U			400	U
59-89-2	N-Nitrosomorpholine	380	U			410	U			400	U
95-53-4	o-Toluidine	380	U			410	U			400	U

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: SOIL

	A:\MPTDAT7.WK1										
	LOCATION:	MPT-2-11S		MPT-2-11SDL		MPT-2-12S		MPT-2-12SDL		MPT-2-16S	
	SAMPLE MATRIX:	SOIL		SOIL		SOIL		SOIL		SOIL	
	DATE SAMPLED:	01/24/92		01/24/92		01/24/92		01/24/92		01/24/92	
	LAB NUMBER:	20753		20753		20753		20753		20753	
	UNITS:	µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
108-39-4	3-Methylphenol	380	U			410	U			400	U
1888-71-7	Hexachloropropene	1900	U			2000	U			1900	U
106-50-3	p-Phenylenediamine	1900	U			2000	U			1900	U
94-59-7	Safrole	1900	U			2000	U			1900	U
120-58-1	Isosafrole	1900	U			2000	U			1900	U
130-15-4	1,4-Naphthoquinone	1900	U			2000	U			1900	U
99-65-0	1,3-Dinitrobenzene	380	U			410	U			400	U
99-55-8	5-Nitro-o-toluidine	380	U			410	U			400	U
99-35-4	1,3,5-Trinitrobenzene	380	U			410	U			400	U
56-57-5	4-Nitroquinoline 1-oxide	380	U			410	U			400	U
91-80-5	Methapyrilene	1900	U			2000	U			1900	U
119-93-7	3,3'-Dimethylbenzidine	380	U			410	U			400	U
53-96-3	2-Acetylaminofluorene	380	U			410	U			400	U
70-30-4	Hexachlorophene	1900	U			2000	U			1900	U

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: SOIL

	A:\MPTDAT7.WK1										
	LOCATION:	MPT-2-16SDL		MPT-2-17S		MPT-2-17SDL		MPT-13-4		MPT-13-4DUP	
	SAMPLE MATRIX:	SOIL		SOIL		SOIL		SOIL		SOIL	
	DATE SAMPLED:	01/24/92		01/24/92		01/24/92		01/24/92		01/24/92	
	LAB NUMBER:	20753		20753		20753		20753		20753	
	UNITS:	µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
62-75-9	N-Nitrosodimethylamine			360	U			370	U	370	U
108-95-2	Phenol			360	U			370	U	370	U
62-53-3	Aniline			360	U			370	U	370	U
111-44-4	bis(2-Chloroethyl)Ether			360	U			370	U	370	U
95-57-8	2-Chlorophenol			360	U			370	U	370	U
541-73-1	1,3-Dichlorobenzene			360	U			370	U	370	U
106-46-7	1,4-Dichlorobenzene			360	U			370	U	370	U
100-51-6	Benzyl alcohol			360	U			370	U	370	U
95-50-1	1,2-Dichlorobenzene			360	U			370	U	370	U
95-48-7	2-Methylphenol			360	U			370	U	370	U
39638-32-9	bis(2-chloroethyl)Ether			360	U			370	U	370	U
106-44-5	4-Methylphenol			360	U			370	U	370	U
621-64-7	N-Nitroso-Di-n-Propylamine			360	U			370	U	370	U
67-72-1	Hexachloroethane			360	U			370	U	370	U
98-95-3	Nitrobenzene			360	U			370	U	370	U
78-59-1	Isophorone			360	U			370	U	370	U
88-75-5	2-Nitrophenol			360	U			370	U	370	U
105-67-9	2,4-Dimethylphenol			360	U			370	U	370	U
65-?5-0	Benzoic Acid			360	U			370	U	370	U
111-91-1	Bis(2-chloroethoxy)methane			1700	U			1800	U	1800	U
120-83-2	2,4-Dichlorophenol			360	U			370	U	370	U
120-82-1	1,2,4-Trichlorobenzene			360	U			370	U	370	U
91-20-3	Naphthalene			360	U			370	U	370	U
106-47-8	4-Chloroaniline			360	U			370	U	370	U

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: SOIL

	A:\MPTDAT7.WK1										
	LOCATION:	MPT-2-16SDL		MPT-2-17S		MPT-2-17SDL		MPT-13-4		MPT-13-4DUP	
	SAMPLE MATRIX:	SOIL		SOIL		SOIL		SOIL		SOIL	
	DATE SAMPLED:	01/24/92		01/24/92		01/24/92		01/24/92		01/24/92	
	LAB NUMBER:	20753		20753		20753		20753		20753	
	UNITS:	µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
87-68-3	Hexachlorobutadiene			360	U			370	U	370	U
59-50-7	4-Chloro-3-Methylphenol			360	U			370	U	370	U
91-57-6	2-Methylnaphthalene			360	U			370	U	370	U
77-47-4	Hexachlorocyclopentadiene			360	U			370	U	370	U
88-06-2	2,4,6-Trichlorophenol			360	U			370	U	370	U
95-95-4	2,4,5-Trichlorophenol			1700	U			1800	U	1800	U
91-58-7	2-Chloronaphthalene			360	U			370	U	370	U
88-74-4	2-Nitroaniline			1700	U			1800	U	1800	U
131-11-3	Dimethyl phthalate			360	U			370	U	370	U
208-96-8	Acenaphthylene			360	U			370	U	370	U
606-20-2	2,6-Dinitrotoluene			360	U			370	U	370	U
99-09-2	3-Nitroaniline			1700	U			1800	U	1800	U
83-32-9	Acenaphthene			360	U			370	U	370	U
51-28-5	2,4-Dinitrophenol			1700	U			1800	U	1800	U
100-02-7	4-Nitrophenol			1700	U			1800	U	1800	U
132-64-9	Dibenzofuran			360	U			370	U	370	U
121-14-2	2,4-Dinitrotoluene			360	U			370	U	370	U
84-66-2	Diethyl phthalate			360	U			370	U	370	U
7005-72-3	4-Chlorophenyl phenyl ether			360	U			370	U	370	U
86-73-7	Fluorene			360	U			370	U	370	U
100-10-6	4-Nitroaniline			1700	U			1800	U	1800	U
534-52-1	4,6-Dinitro-2-Methylphenol			1700	U			1800	U	1800	U
86-30-6	N-Nitrosodiphenylamine			360	U			370	U	370	U
122-66-7	1,2-Diphenylhydrazine			360	U			370	U	370	U

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: SOIL

	A:\MPTDAT7.WK1									
	LOCATION:	MPT-2-16SDL		MPT-2-17S		MPT-2-17SDL		MPT-13-4		MPT-13-4DUP	
	SAMPLE MATRIX:	SOIL		SOIL		SOIL		SOIL		SOIL	
	DATE SAMPLED:	01/24/92		01/24/92		01/24/92		01/24/92		01/24/92	
	LAB NUMBER:	20753		20753		20753		20753		20753	
	UNITS:	µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
101-55-3	4-Bromophenyl phenyl ether			360	U			370	U	370	U
118-74-1	Hexachlorobenzene			360	U			370	U	370	U
87-86-5	Pentachlorophenol			1700	BU			1800	BU	1800	BU
85-01-8	Phenanthrene			360	U			370	U	370	U
120-12-7	Anthracene			360	U			370	U	370	U
84-74-2	Di-n-butyl phthalate			360	BU			370	BU	370	BU
206-44-0	Fluoranthene			360	U			370	U	370	U
129-00-0	Pyrene			360	U			370	U	370	U
85-68-7	Butyl benzyl phthalate			360	U			370	U	370	U
91-94-1	3,3'-Dichlorobenzidine			720	U			740	U	740	U
56-55-3	Benzo[a]anthracene			360	U			370	U	370	U
218-01-9	Chrysene			360	U			370	U	370	U
117-81-7	Bis(2-ethylhexyl) phthalate			39	BJ			54	BJ	40	BJ
117-84-0	Di-n-octyl phthalate			360	U			370	U	370	U
205-99-2	Benzo[b]fluoranthene			360	U			370	U	370	U
207-08-9	Benzo[k]fluoranthene			360	U			370	U	370	U
50-32-8	Benzo[a]pyrene			360	U			370	U	370	U
193-39-5	Indeno(1,2,3-cd)pyrene			360	U			370	U	370	U
53-70-3	Dibenz[a,h]anthracene			360	U			370	U	370	U
191-24-2	Benzo[ghi]perylene			360	U			370	U	370	U
109-06-8	2-Picoline			1700	U			1800	U	1800	U
66-27-3	Methyl methanesulfonate			360	U			370	U	370	U
62-50-0	Ethyl methanesulfonate			360	U			370	U	370	U
98-86-2	Acetophenone			360	U			370	U	370	U

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: SOIL

	A:\MPTDAT7.WK1										
	LOCATION:	MPT-2-16SDL		MPT-2-17S		MPT-2-17SDL		MPT-13-4		MPT-13-4DUP	
	SAMPLE MATRIX:	SOIL		SOIL		SOIL		SOIL		SOIL	
	DATE SAMPLED:	01/24/92		01/24/92		01/24/92		01/24/92		01/24/92	
	LAB NUMBER:	20753		20753		20753		20753		20753	
	UNITS:	µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
100-75-4	N-Nitrosopiperidine			360	U			370	U	370	U
122-09-8	Phenyl-tert-butylamine			1700	U			1800	U	1800	U
87-65-0	2,6-Dichlorophenol			360	U			370	U	370	U
924-16-3	N-Nitrosodi-n-butylamine			360	U			370	U	370	U
55-18-5	N-Nitrosodiethylamine			360	U			370	U	370	U
930-55-2	N-Nitrosopyrrolidine			360	U			370	U	370	U
92-87-5	Benzidine			1700	U			1800	U	1800	U
95-94-3	1,2,4,5-Tetrachlorobenzene			1700	U			1800	U	1800	U
608-93-5	Pentachlorobenzene			1700	U			1800	U	1800	U
134-32-7	1-Naphthylamine			1700	U			1800	U	1800	U
91-59-8	2-Naphthylamine			1700	U			1800	U	1800	U
58-90-2	2,3,4,6-Tetrachlorophenol			360	U			370	U	370	U
122-39-4	Diphenylamine			360	U			370	U	370	U
62-44-2	Phenacetin			360	U			370	U	370	U
92-67-1	4-Aminobiphenyl			1700	U			1800	U	1800	U
82-68-8	Pentachloronitrobenzene			1700	U			1800	U	1800	U
23950-58-5	Pronamide			360	U			370	U	370	U
60-11-7	p-(Dimethylamino)azobenzene			360	U			370	U	370	U
57-97-6	7,12-Dimethylbenz[a]anthracene			360	U			370	U	370	U
56-49-5	Methylcholanthrene			360	U			370	U	370	U
110-86-1	Pyridine			1700	U			1800	U	1800	U
10595-95-6	N-Nitrosomethylethylamine			360	U			370	U	370	U
59-89-2	N-Nitrosomorpholine			360	U			370	U	370	U
95-53-4	o-Toluidine			360	U			370	U	370	U

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: SOIL

	A:\MPTDAT7.WK1									
	LOCATION:	MPT-2-16SDL		MPT-2-17S		MPT-2-17SDL		MPT-13-4		MPT-13-4DUP	
	SAMPLE MATRIX:	SOIL		SOIL		SOIL		SOIL		SOIL	
	DATE SAMPLED:	01/24/92		01/24/92		01/24/92		01/24/92		01/24/92	
	LAB NUMBER:	20753		20753		20753		20753		20753	
	UNITS:	µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
108-39-4	3-Methylphenol			360	U			370	U	370	U
1888-71-7	Hexachloropropene			1700	U			1800	U	1800	U
106-50-3	p-Phenylenediamine			1700	U			1800	U	1800	U
94-59-7	Safrole			1700	U			1800	U	1800	U
120-58-1	Isosafrole			1700	U			1800	U	1800	U
130-15-4	1,4-Naphthoquinone			1700	U			1800	U	1800	U
99-65-0	1,3-Dinitrobenzene			360	U			370	U	370	U
99-55-8	5-Nitro-o-toluidine			360	U			370	U	370	U
99-35-4	1,3,5-Trinitrobenzene			360	U			370	U	370	U
56-57-5	4-Nitroquinoline 1-oxide			360	U			370	U	370	U
91-80-5	Methapyrilene			1700	U			1800	U	1800	U
119-93-7	3,3'-Dimethylbenzidine			360	U			370	U	370	U
53-96-3	2-Acetylaminofluorene			360	U			370	U	370	U
70-30-4	Hexachlorophene			1700	U			1800	U	1800	U

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: SOIL

	A:\MPTDAT7.WK1										
	LOCATION:	MPT-13-5		MPT-13-6		MPT-13-6DL		MPT-22-1S		MPT-22-1SDL	
	SAMPLE MATRIX:	SOIL		SOIL		SOIL		SOIL		SOIL	
	DATE SAMPLED:	01/24/92		01/24/92		01/24/92		01/24/92		01/24/92	
	LAB NUMBER:	20753		20753		20753		20753		20753	
	UNITS:	µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
62-75-9	N-Nitrosodimethylamine	400	U	400	U			480	U		
108-95-2	Phenol	400	U	400	U			480	U		
62-53-3	Aniline	400	U	400	U			480	U		
111-44-4	bis(2-Chloroethyl)Ether	400	U	400	U			480	U		
95-57-8	2-Chlorophenol	400	U	400	U			480	U		
541-73-1	1,3-Dichlorobenzene	400	U	400	U			480	U		
106-46-7	1,4-Dichlorobenzene	400	U	400	U			480	U		
100-51-6	Benzyl alcohol	400	U	400	U			480	U		
95-50-1	1,2-Dichlorobenzene	400	U	400	U			480	U		
95-48-7	2-Methylphenol	400	U	400	U			480	U		
39638-32-9	bis(2-chloroethyl)Ether	400	U	400	U			480	U		
106-44-5	4-Methylphenol	400	U	400	U			480	U		
621-64-7	N-Nitroso-Di-n-Propylamine	400	U	400	U			480	U		
67-72-1	Hexachloroethane	400	U	400	U			480	U		
98-95-3	Nitrobenzene	400	U	400	U			480	U		
78-59-1	Isophorone	400	U	400	U			480	U		
88-75-5	2-Nitrophenol	400	U	400	U			480	U		
105-67-9	2,4-Dimethylphenol	400	U	400	U			480	U		
65-?5-0	Benzoic Acid	400	U	400	U			480	U		
111-91-1	Bis(2-chloroethoxy)methane	2000	U	2000	U			2300	U		
120-83-2	2,4-Dichlorophenol	400	U	400	U			480	U		
120-82-1	1,2,4-Trichlorobenzene	400	U	400	U			480	U		
91-20-3	Naphthalene	400	U	400	U			480	U		
106-47-8	4-Chloroaniline	400	U	400	U			480	U		

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: SOIL

	A:\MPTDAT7.WK1										
	LOCATION:	MPT-13-5		MPT-13-6		MPT-13-6DL		MPT-22-1S		MPT-22-1SDL	
	SAMPLE MATRIX:	SOIL		SOIL		SOIL		SOIL		SOIL	
	DATE SAMPLED:	01/24/92		01/24/92		01/24/92		01/24/92		01/24/92	
	LAB NUMBER:	20753		20753		20753		20753		20753	
	UNITS:	µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
87-68-3	Hexachlorobutadiene	400	U	400	U			480	U		
59-50-7	4-Chloro-3-Methylphenol	400	U	400	U			480	U		
91-57-6	2-Methylnaphthalene	400	U	400	U			480	U		
77-47-4	Hexachlorocyclopentadiene	400	U	400	U			480	U		
88-06-2	2,4,6-Trichlorophenol	400	U	400	U			480	U		
95-95-4	2,4,5-Trichlorophenol	2000	U	2000	U			2300	U		
91-58-7	2-Chloronaphthalene	400	U	400	U			480	U		
88-74-4	2-Nitroaniline	2000	U	2000	U			2300	U		
131-11-3	Dimethyl phthalate	400	U	400	U			480	U		
208-96-8	Acenaphthylene	400	U	400	U			480	U		
606-20-2	2,6-Dinitrotoluene	400	U	400	U			480	U		
99-09-2	3-Nitroaniline	2000	U	2000	U			2300	U		
83-32-9	Acenaphthene	400	U	400	U			480	U		
51-28-5	2,4-Dinitrophenol	2000	U	2000	U			2300	U		
100-02-7	4-Nitrophenol	2000	U	2000	U			2300	U		
132-64-9	Dibenzofuran	400	U	400	U			480	U		
121-14-2	2,4-Dinitrotoluene	400	U	400	U			480	U		
84-66-2	Diethyl phthalate	400	U	400	U			480	U		
7005-72-3	4-Chlorophenyl phenyl ether	400	U	400	U			480	U		
86-73-7	Fluorene	400	U	400	U			480	U		
100-10-6	4-Nitroaniline	2000	U	2000	U			2300	U		
534-52-1	4,6-Dinitro-2-Methylphenol	2000	U	2000	U			2300	U		
86-30-6	N-Nitrosodiphenylamine	400	U	400	U			480	U		
122-66-7	1,2-Diphenylhydrazine	400	U	400	U			480	U		

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: SOIL

	A:\MPTDAT7.WK1										
	LOCATION:	MPT-13-5		MPT-13-6		MPT-13-6DL		MPT-22-1S		MPT-22-1SDL	
	SAMPLE MATRIX:	SOIL		SOIL		SOIL		SOIL		SOIL	
	DATE SAMPLED:	01/24/92		01/24/92		01/24/92		01/24/92		01/24/92	
	LAB NUMBER:	20753		20753		20753		20753		20753	
	UNITS:	µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
101-55-3	4-Bromophenyl phenyl ether	400	U	400	U			480	U		
118-74-1	Hexachlorobenzene	400	U	400	U			480	U		
87-86-5	Pentachlorophenol	160	BJ	1900	BU			2300	U		
85-01-8	Phenanthrene	400	U	400	U			480	U		
120-12-7	Anthracene	400	U	400	U			480	U		
84-74-2	Di-n-butyl phthalate	400	BU	400	BU			83	BJ		
206-44-0	Fluoranthene	400	U	400	U			480	U		
129-00-0	Pyrene	42	J	400	U			480	U		
85-68-7	Butyl benzyl phthalate	400	U	400	U			480	U		
91-94-1	3,3'-Dichlorobenzidine	800	U	800	U			960	U		
56-55-3	Benzo[a]anthracene	400	U	400	U			480	U		
218-01-9	Chrysene	400	U	400	U			480	U		
117-81-7	Bis(2-ethylhexyl) phthalate	76	BJ	95	BJ			480	U		
117-84-0	Di-n-octyl phthalate	400	U	400	U			480	U		
205-99-2	Benzo[b]fluoranthene	400	U	400	U			480	U		
207-08-9	Benzo[k]fluoranthene	400	U	400	U			480	U		
50-32-8	Benzo[a]pyrene	400	U	400	U			480	U		
193-39-5	Indeno(1,2,3-cd)pyrene	400	U	400	U			480	U		
53-70-3	Dibenz[a,h]anthracene	400	U	400	U			480	U		
191-24-2	Benzo[ghi]perylene	400	U	400	U			480	U		
109-06-8	2-Picoline	2000	U	2000	U			2300	U		
66-27-3	Methyl methanesulfonate	400	U	400	U			480	U		
62-50-0	Ethyl methanesulfonate	400	U	400	U			480	U		
98-86-2	Acetophenone	400	U	400	U			480	U		

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: SOIL

	A:\MPTDAT7.WK1										
	LOCATION:	MPT-13-5		MPT-13-6		MPT-13-6DL		MPT-22-1S		MPT-22-1SDL	
	SAMPLE MATRIX:	SOIL		SOIL		SOIL		SOIL		SOIL	
	DATE SAMPLED:	01/24/92		01/24/92		01/24/92		01/24/92		01/24/92	
	LAB NUMBER:	20753		20753		20753		20753		20753	
	UNITS:	µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
100-75-4	N-Nitrosopiperidine	400	U	400	U			480	U		
122-09-8	Phenyl-tert-butylamine	2000	U	2000	U			2300	U		
87-65-0	2,6-Dichlorophenol	400	U	400	U			480	U		
924-16-3	N-Nitrosodi-n-butylamine	400	U	400	U			480	U		
55-18-5	N-Nitrosodiethylamine	400	U	400	U			480	U		
930-55-2	N-Nitrosopyrrolidine	400	U	400	U			480	U		
92-87-5	Benzidine	2000	U	2000	U			2300	U		
95-94-3	1,2,4,5-Tetrachlorobenzene	2000	U	2000	U			2300	U		
608-93-5	Pentachlorobenzene	2000	U	2000	U			2300	U		
134-32-7	1-Naphthylamine	2000	U	2000	U			2300	U		
91-59-8	2-Naphthylamine	2000	U	2000	U			2300	U		
58-90-2	2,3,4,6-Tetrachlorophenol	400	U	400	U			480	U		
122-39-4	Diphenylamine	400	U	400	U			480	U		
62-44-2	Phenacetin	400	U	400	U			480	U		
92-67-1	4-Aminobiphenyl	2000	U	2000	U			2300	U		
82-68-8	Pentachloronitrobenzene	2000	U	2000	U			2300	U		
23950-58-5	Pronamide	400	U	400	U			480	U		
60-11-7	p-(Dimethylamino)azobenzene	400	U	400	U			480	U		
57-97-6	7,12-Dimethylbenz[a]anthracene	400	U	400	U			480	U		
56-49-5	Methylcholanthrene	400	U	400	U			480	U		
110-86-1	Pyridine	2000	U	2000	U			2300	U		
10595-95-6	N-Nitrosomethylethylamine	400	U	400	U			480	U		
59-89-2	N-Nitrosomorpholine	400	U	400	U			480	U		
95-53-4	o-Toluidine	400	U	400	U			480	U		

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: SOIL

	A:\MPTDAT7.WK1										
	LOCATION:	MPT-13-5		MPT-13-6		MPT-13-6DL		MPT-22-1S		MPT-22-1SDL	
	SAMPLE MATRIX:	SOIL		SOIL		SOIL		SOIL		SOIL	
	DATE SAMPLED:	01/24/92		01/24/92		01/24/92		01/24/92		01/24/92	
	LAB NUMBER:	20753		20753		20753		20753		20753	
	UNITS:	µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
108-39-4	3-Methylphenol	400	U	400	U			480	U		
1888-71-7	Hexachloropropene	2000	U	2000	U			2300	U		
106-50-3	p-Phenylenediamine	2000	U	2000	U			2300	U		
94-59-7	Safrole	2000	U	2000	U			2300	U		
120-58-1	Isosafrole	2000	U	2000	U			2300	U		
130-15-4	1,4-Naphthoquinone	2000	U	2000	U			2300	U		
99-65-0	1,3-Dinitrobenzene	400	U	400	U			480	U		
99-55-8	5-Nitro-o-toluidine	400	U	400	U			480	U		
99-35-4	1,3,5-Trinitrobenzene	400	U	400	U			480	U		
56-57-5	4-Nitroquinoline 1-oxide	400	U	400	U			480	U		
91-80-5	Methapyrilene	2000	U	2000	U			2300	U		
119-93-7	3,3'-Dimethylbenzidine	400	U	400	U			480	U		
53-96-3	2-Acetylaminofluorene	400	U	400	U			480	U		
70-30-4	Hexachlorophene	2000	U	2000	U			480	U		

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: SOIL

	A:\MPTDT11.WK1										
	LOCATION:	MPT-22-U-1		MPT-22-L-1		MPT-22-U-2		MPT-22-L-2		MPT-22-U-3	
	SAMPLE MATRIX:	SOIL		SOIL		SOIL		SOIL		SOIL	
	DATE SAMPLED:	03/11/92		03/11/92		03/11/92		03/11/92		03/11/92	
	LAB NUMBER:	21171		21171		21171		21171		21171	
	UNITS:	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
62-75-9	N-Nitrosodimethylamine	360	U	470	U	380	U	390	U	370	U
108-95-2	Phenol	360	U	470	U	380	U	390	U	370	U
62-53-3	Aniline	360	U	470	U	380	U	390	U	370	U
111-44-4	bis(2-Chloroethyl)Ether	360	U	470	U	380	U	390	U	370	U
95-57-8	2-Chlorophenol	360	U	470	U	380	U	390	U	370	U
541-73-1	1,3-Dichlorobenzene	360	U	470	U	380	U	390	U	370	U
106-46-7	1,4-Dichlorobenzene	360	U	470	U	380	U	390	U	370	U
100-51-6	Benzyl alcohol	360	U	470	U	380	U	390	U	370	U
95-50-1	1,2-Dichlorobenzene	360	U	470	U	380	U	390	U	370	U
95-48-7	2-Methylphenol	360	U	470	U	380	U	390	U	370	U
39638-32-9	bis(2-chloroethyl)Ether	360	U	470	U	380	U	390	U	370	U
106-44-5	4-Methylphenol	360	U	470	U	380	U	390	U	370	U
621-64-7	N-Nitroso-Di-n-Propylamine	360	U	470	U	380	U	390	U	370	U
67-72-1	Hexachloroethane	360	U	470	U	380	U	390	U	370	U
98-95-3	Nitrobenzene	360	U	470	U	380	U	390	U	370	U
78-59-1	Isophorone	360	U	470	U	380	U	390	U	370	U
88-75-5	2-Nitrophenol	360	U	470	U	380	U	390	U	370	U
105-67-9	2,4-Dimethylphenol	360	U	470	U	380	U	390	U	370	U
65-85-0	Benzoic Acid	1700	U	2300	U	1800	U	1900	U	1800	U
111-91-1	Bis(2-chloroethoxy)methane	360	U	470	U	380	U	390	U	370	U
120-83-2	2,4-Dichlorophenol	360	U	470	U	380	U	390	U	370	U
120-82-1	1,2,4-Trichlorobenzene	360	U	470	U	380	U	390	U	370	U
91-20-3	Naphthalene	360	U	470	U	380	U	390	U	370	U
106-47-8	4-Chloroaniline	360	U	470	U	380	U	390	U	370	U

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: SOIL

	A:\MPTDT11.WK1										
	LOCATION:	MPT-22-U-1		MPT-22-L-1		MPT-22-U-2		MPT-22-L-2		MPT-22-U-3	
	SAMPLE MATRIX:	SOIL		SOIL		SOIL		SOIL		SOIL	
	DATE SAMPLED:	03/11/92		03/11/92		03/11/92		03/11/92		03/11/92	
	LAB NUMBER:	21171		21171		21171		21171		21171	
	UNITS:	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
87-68-3	Hexachlorobutadiene	360	U	470	U	380	U	390	U	370	U
59-50-7	4-Chloro-3-Methylphenol	360	U	470	U	380	U	390	U	370	U
91-57-6	2-Methylnaphthalene	360	U	470	U	380	U	390	U	370	U
77-47-4	Hexachlorocyclopentadiene	360	U	470	U	380	U	390	U	370	U
88-06-2	2,4,6-Trichlorophenol	360	U	470	U	380	U	390	U	370	U
95-95-4	2,4,5-Trichlorophenol	1700	U	2300	U	1800	U	1900	U	1800	U
91-58-7	2-Chloronaphthalene	360	U	470	U	380	U	390	U	370	U
88-74-4	2-Nitroaniline	1700	U	2300	U	1800	U	1900	U	1800	U
131-11-3	Dimethyl phthalate	360	U	470	U	380	U	390	U	370	U
208-96-8	Acenaphthylene	360	U	470	U	380	U	390	U	370	U
606-20-2	2,6-Dinitrotoluene	360	U	470	U	380	U	390	U	370	U
99-09-2	3-Nitroaniline	1700	U	2300	U	1800	U	1900	U	1800	U
83-32-9	Acenaphthene	360	U	470	U	380	U	390	U	370	U
51-28-5	2,4-Dinitrophenol	1700	U	2300	U	1800	U	1900	U	1800	U
100-02-7	4-Nitrophenol	1700	U	2300	U	1800	U	1900	U	1800	U
132-64-9	Dibenzofuran	360	U	470	U	380	U	390	U	370	U
121-14-2	2,4-Dinitrotoluene	360	U	470	U	380	U	390	U	370	U
84-66-2	Diethyl phthalate	360	U	470	U	380	U	390	U	370	U
7005-72-3	4-Chlorophenyl phenyl ether	360	U	470	U	380	U	390	U	370	U
86-73-7	Fluorene	360	U	470	U	380	U	390	U	370	U
100-10-6	4-Nitroaniline	1700	U	2300	U	1800	U	1900	U	1800	U
534-52-1	4,6-Dinitro-2-Methylphenol	1700	U	2300	U	1800	U	1900	U	1800	U
86-30-6	N-Nitrosodiphenylamine	360	U	470	U	380	U	390	U	370	U
122-66-7	1,2-Diphenylhydrazine	360	U	470	U	380	U	390	U	370	U

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: SOIL

	A:\MPTDT11.WK1										
	LOCATION:	MPT-22-U-1		MPT-22-L-1		MPT-22-U-2		MPT-22-L-2		MPT-22-U-3	
	SAMPLE MATRIX:	SOIL		SOIL		SOIL		SOIL		SOIL	
	DATE SAMPLED:	03/11/92		03/11/92		03/11/92		03/11/92		03/11/92	
	LAB NUMBER:	21171		21171		21171		21171		21171	
	UNITS:	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
101-55-3	4-Bromophenyl phenyl ether	360	U	470	U	380	U	390	U	370	U
118-74-1	Hexachlorobenzene	360	U	470	U	380	U	390	U	370	U
87-86-5	Pentachlorophenol	1700	U	2300	U	1800	U	1900	U	1800	U
85-01-8	Phenanthrene	360	U	470	U	380	U	390	U	370	U
120-12-7	Anthracene	360	U	470	U	380	U	390	U	370	U
84-74-2	Di-n-butyl phthalate	360	U	470	U	380	U	390	U	370	U
206-44-0	Fluoranthene	360	U	470	U	380	U	390	U	370	U
129-00-0	Pyrene	360	U	470	U	380	U	390	U	370	U
85-68-7	Butyl benzyl phthalate	360	U	470	U	380	U	390	U	370	U
91-94-1	3,3'-Dichlorobenzidine	720	U	940	U	760	U	790	U	750	U
56-55-3	Benzo[a]anthracene	360	U	470	U	380	U	390	U	370	U
218-01-9	Chrysene	360	U	470	U	380	U	390	U	370	U
117-81-7	Bis(2-ethylhexyl) phthalate	53	BJ	200	BJ	88	BJ	140	BJ	67	BJ
117-84-0	Di-n-octyl phthalate	360	U	470	U	380	U	390	U	370	U
205-99-2	Benzo[b]fluoranthene	360	U	470	U	380	U	390	U	370	U
207-08-9	Benzo[k]fluoranthene	360	U	470	U	380	U	390	U	370	U
50-32-8	Benzo[a]pyrene	360	U	70	J	380	U	390	U	370	U
193-39-5	Indeno(1,2,3-cd)pyrene	360	U	470	U	380	U	390	U	370	U
53-70-3	Dibenz[a,h]anthracene	360	U	470	U	380	U	390	U	370	U
191-24-2	Benzo[ghi]perylene	360	U	470	U	380	U	390	U	370	U
109-06-8	2-Picoline	1700	U	2300	U	1800	U	1900	U	1800	U
66-27-3	Methyl methanesulfonate	360	U	470	U	380	U	390	U	370	U
62-50-0	Ethyl methanesulfonate	360	U	470	U	380	U	390	U	370	U
98-86-2	Acetophenone	360	U	470	U	380	U	390	U	370	U

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: SOIL

	A:\MPTDT11.WK1										
	LOCATION:	MPT-22-U-1		MPT-22-L-1		MPT-22-U-2		MPT-22-L-2		MPT-22-U-3	
	SAMPLE MATRIX:	SOIL		SOIL		SOIL		SOIL		SOIL	
	DATE SAMPLED:	03/11/92		03/11/92		03/11/92		03/11/92		03/11/92	
	LAB NUMBER:	21171		21171		21171		21171		21171	
	UNITS:	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
100-75-4	N-Nitrosopiperidine	360	U	470	U	380	U	390	U	370	U
122-09-8	Phenyl-tert-butylamine	1700	U	2300	U	1800	U	1900	U	1800	U
87-65-0	2,6-Dichlorophenol	360	U	470	U	380	U	390	U	370	U
924-16-3	N-Nitrosodi-n-butylamine	360	U	470	U	380	U	390	U	370	U
55-18-5	N-Nitrosodiethylamine	360	U	470	U	380	U	390	U	370	U
930-55-2	N-Nitrosopyrrolidine	360	U	470	U	380	U	390	U	370	U
92-87-5	Benzidine	1700	U	2300	U	1800	U	1900	U	1800	U
95-94-3	1,2,4,5-Tetrachlorobenzene	1700	U	2300	U	1800	U	1900	U	1800	U
608-93-5	Pentachlorobenzene	1700	U	2300	U	1800	U	1900	U	1800	U
134-32-7	1-Naphthylamine	1700	U	2300	U	1800	U	1900	U	1800	U
91-59-8	2-Naphthylamine	1700	U	2300	U	1800	U	1900	U	1800	U
58-90-2	2,3,4,6-Tetrachlorophenol	360	U	470	U	380	U	390	U	370	U
122-39-4	Diphenylamine	360	U	470	U	380	U	390	U	370	U
62-44-2	Phenacetin	360	U	470	U	380	U	390	U	370	U
92-67-1	4-Aminobiphenyl	1700	U	2300	U	1800	U	1900	U	1800	U
82-68-8	Pentachloronitrobenzene	1700	U	2300	U	1800	U	1900	U	1800	U
23950-58-5	Pronamide	360	U	470	U	380	U	390	U	370	U
60-11-7	p-(Dimethylamino)azobenzene	360	U	470	U	380	U	390	U	370	U
57-97-6	7,12-Dimethylbenz[a]anthracene	360	U	470	U	380	U	390	U	370	U
56-49-5	Methylcholanthrene	360	U	470	U	380	U	390	U	370	U
110-86-1	Pyridine	1700	U	2300	U	1800	U	1900	U	1800	U
10595-95-6	N-Nitrosomethylethylamine	360	U	470	U	380	U	390	U	370	U
59-89-2	N-Nitrosomorpholine	360	U	470	U	380	U	390	U	370	U
95-53-4	o-Toluidine	360	U	470	U	380	U	390	U	370	U

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: SOIL

	A:\MPTDT11.WK1										
	LOCATION:	MPT-22-U-1		MPT-22-L-1		MPT-22-U-2		MPT-22-L-2		MPT-22-U-3	
	SAMPLE MATRIX:	SOIL		SOIL		SOIL		SOIL		SOIL	
	DATE SAMPLED:	03/11/92		03/11/92		03/11/92		03/11/92		03/11/92	
	LAB NUMBER:	21171		21171		21171		21171		21171	
	UNITS:	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
108-39-4	3(&4)-Methylphenol	720	U	940	U	760	U	790	U	750	U
1888-71-7	Hexachloropropene	1700	U	2300	U	1800	U	1900	U	1800	U
106-50-3	p-Phenylenediamine	1700	U	2300	U	1800	U	1900	U	1800	U
94-59-7	Safrole	1700	U	2300	U	1800	U	1900	U	1800	U
120-58-1	Isosafrole	1700	U	2300	U	1800	U	1900	U	1800	U
130-15-4	1,4-Naphthoquinone	1700	U	2300	U	1800	U	1900	U	1800	U
99-65-0	1,3-Dinitrobenzene	360	U	470	U	380	U	390	U	370	U
99-55-8	5-Nitro-o-toluidine	360	U	470	U	380	U	390	U	370	U
99-35-4	1,3,5-Trinitrobenzene	360	U	470	U	380	U	390	U	370	U
56-57-5	4-Nitroquinoline 1-oxide	360	U	470	U	380	U	390	U	370	U
91-80-5	Methapyrilene	1700	U	2300	U	1800	U	1900	U	1800	U
119-93-7	3,3'-Dimethylbenzidine	360	U	470	U	380	U	390	U	370	U
53-96-3	2-Acetylaminofluorene	360	U	470	U	380	U	390	U	370	U
70-30-4	Hexachlorophene	1700	U	2300	U	1800	U	1900	U	1800	U

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: SOIL

	A:\MPTDT11.WK1							
	LOCATION:	MPT-22-L-3		MPT-22-U-4		MPT-22-L-4		MPT-22-D-1	
	SAMPLE MATRIX:	SOIL		SOIL		SOIL		SOIL	
	DATE SAMPLED:	03/11/92		03/11/92		03/11/92		03/11/92	
	LAB NUMBER:	21171		21171		21171		21171	
	UNITS:	ug/Kg		ug/Kg		ug/Kg		ug/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
62-75-9	N-Nitrosodimethylamine	410	U	390	U	390	U	350	U
108-95-2	Phenol	410	U	390	U	390	U	350	U
62-53-3	Aniline	410	U	390	U	390	U	350	U
111-44-4	bis(2-Chloroethyl)Ether	410	U	390	U	390	U	350	U
95-57-8	2-Chlorophenol	410	U	390	U	390	U	350	U
541-73-1	1,3-Dichlorobenzene	410	U	390	U	390	U	350	U
106-46-7	1,4-Dichlorobenzene	410	U	390	U	390	U	350	U
100-51-6	Benzyl alcohol	410	U	390	U	390	U	350	U
95-50-1	1,2-Dichlorobenzene	410	U	390	U	390	U	350	U
95-48-7	2-Methylphenol	410	U	390	U	390	U	350	U
39638-32-9	bis(2-chloroethyl)Ether	410	U	390	U	390	U	350	U
106-44-5	4-Methylphenol	410	U	390	U	390	U	350	U
621-64-7	N-Nitroso-Di-n-Propylamine	410	U	390	U	390	U	350	U
67-72-1	Hexachloroethane	410	U	390	U	390	U	350	U
98-95-3	Nitrobenzene	410	U	390	U	390	U	350	U
78-59-1	Isophorone	410	U	390	U	390	U	350	U
88-75-5	2-Nitrophenol	410	U	390	U	390	U	350	U
105-67-9	2,4-Dimethylphenol	410	U	390	U	390	U	350	U
65-85-0	Benzoic Acid	2000	U	1900	U	1900	U	350	U
111-91-1	Bis(2-chloroethoxy)methane	410	U	390	U	390	U	350	U
120-83-2	2,4-Dichlorophenol	410	U	390	U	390	U	350	U
120-82-1	1,2,4-Trichlorobenzene	410	U	390	U	390	U	350	U
91-20-3	Naphthalene	410	U	390	U	390	U	350	U
106-47-8	4-Chloroaniline	410	U	390	U	390	U	350	U

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: SOIL

	A:\MPTDT11.WK1								
	LOCATION:	MPT-22-L-3		MPT-22-U-4		MPT-22-L-4		MPT-22-D-1	
	SAMPLE MATRIX:	SOIL		SOIL		SOIL		SOIL	
	DATE SAMPLED:	03/11/92		03/11/92		03/11/92		03/11/92	
	LAB NUMBER:	21171		21171		21171		21171	
	UNITS:	ug/Kg		ug/Kg		ug/Kg		ug/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
87-68-3	Hexachlorobutadiene	410	U	390	U	390	U	350	U
59-50-7	4-Chloro-3-Methylphenol	410	U	390	U	390	U	350	U
91-57-6	2-Methylnaphthalene	410	U	390	U	390	U	350	U
77-47-4	Hexachlorocyclopentadiene	410	U	390	U	390	U	350	U
88-06-2	2,4,6-Trichlorophenol	410	U	390	U	390	U	350	U
95-95-4	2,4,5-Trichlorophenol	2000	U	1900	U	1900	U	1700	U
91-58-7	2-Chloronaphthalene	410	U	390	U	390	U	350	U
88-74-4	2-Nitroaniline	2000	U	1900	U	1900	U	1700	U
131-11-3	Dimethyl phthalate	410	U	390	U	390	U	350	U
208-96-8	Acenaphthylene	410	U	390	U	390	U	350	U
606-20-2	2,6-Dinitrotoluene	410	U	390	U	390	U	350	U
99-09-2	3-Nitroaniline	2000	U	1900	U	1900	U	1700	U
83-32-9	Acenaphthene	410	U	390	U	390	U	350	U
51-28-5	2,4-Dinitrophenol	2000	U	1900	U	1900	U	1700	U
100-02-7	4-Nitrophenol	2000	U	1900	U	1900	U	1700	U
132-64-9	Dibenzofuran	410	U	390	U	390	U	350	U
121-14-2	2,4-Dinitrotoluene	410	U	390	U	390	U	350	U
84-66-2	Diethyl phthalate	410	U	390	U	390	U	350	U
7005-72-3	4-Chlorophenyl phenyl ether	410	U	390	U	390	U	350	U
86-73-7	Fluorene	410	U	390	U	390	U	350	U
100-10-6	4-Nitroaniline	2000	U	1900	U	1900	U	1700	U
534-52-1	4,6-Dinitro-2-Methylphenol	2000	U	1900	U	1900	U	1700	U
86-30-6	N-Nitrosodiphenylamine	410	U	390	U	390	U	350	U
122-66-7	1,2-Diphenylhydrazine	410	U	390	U	390	U	350	U

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: SOIL

	A:\MPTDT11.WK1								
	LOCATION:	MPT-22-L-3		MPT-22-U-4		MPT-22-L-4		MPT-22-D-1	
	SAMPLE MATRIX:	SOIL		SOIL		SOIL		SOIL	
	DATE SAMPLED:	03/11/92		03/11/92		03/11/92		03/11/92	
	LAB NUMBER:	21171		21171		21171		21171	
	UNITS:	ug/Kg		ug/Kg		ug/Kg		ug/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
101-55-3	4-Bromophenyl phenyl ether	410	U	390	U	390	U	350	U
118-74-1	Hexachlorobenzene	410	U	390	U	390	U	350	U
87-86-5	Pentachlorophenol	2000	U	1900	U	1900	U	1700	U
85-01-8	Phenanthrene	410	U	390	U	390	U	350	U
120-12-7	Anthracene	410	U	390	U	390	U	350	U
84-74-2	Di-n-butyl phthalate	410	U	390	U	390	U	350	U
206-44-0	Fluoranthene	410	U	390	U	390	U	350	U
129-00-0	Pyrene	410	U	390	U	390	U	350	U
85-68-7	Butyl benzyl phthalate	410	U	390	U	390	U	350	U
91-94-1	3,3'-Dichlorobenzidine	820	U	780	U	790	U	710	U
56-55-3	Benzo[a]anthracene	410	U	390	U	390	U	350	U
218-01-9	Chrysene	410	U	390	U	390	U	350	U
117-81-7	Bis(2-ethylhexyl) phthalate	250	BJ	390	U	390	U	210	BJ
117-84-0	Di-n-octyl phthalate	410	U	390	U	390	U	350	U
205-99-2	Benzo[b]fluoranthene	410	U	390	U	390	U	350	U
207-08-9	Benzo[k]fluoranthene	410	U	390	U	390	U	350	U
50-32-8	Benzo[a]pyrene	410	U	390	U	390	U	350	U
193-39-5	Indeno(1,2,3-cd)pyrene	410	U	390	U	390	U	350	U
53-70-3	Dibenz[a,h]anthracene	410	U	390	U	390	U	350	U
191-24-2	Benzo[ghi]perylene	410	U	390	U	390	U	350	U
109-06-8	2-Picoline	2000	U	1900	U	1900	U	1700	U
66-27-3	Methyl methanesulfonate	410	U	390	U	390	U	350	U
62-50-0	Ethyl methanesulfonate	410	U	390	U	390	U	350	U
98-86-2	Acetophenone	410	U	390	U	390	U	350	U

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: SOIL

	A:\MPTDT11.WK1								
	LOCATION:	MPT-22-L-3		MPT-22-U-4		MPT-22-L-4		MPT-22-D-1	
	SAMPLE MATRIX:	SOIL		SOIL		SOIL		SOIL	
	DATE SAMPLED:	03/11/92		03/11/92		03/11/92		03/11/92	
	LAB NUMBER:	21171		21171		21171		21171	
	UNITS:	ug/Kg		ug/Kg		ug/Kg		ug/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
100-75-4	N-Nitrosopiperidine	410	U	390	U	390	U	350	U
122-09-8	Phenyl-tert-butylamine	2000	U	1900	U	1900	U	1700	U
87-65-0	2,6-Dichlorophenol	410	U	390	U	390	U	350	U
924-16-3	N-Nitrosodi-n-butylamine	410	U	390	U	390	U	350	U
55-18-5	N-Nitrosodiethylamine	410	U	390	U	390	U	350	U
930-55-2	N-Nitrosopyrrolidine	410	U	390	U	390	U	350	U
92-87-5	Benzidine	2000	U	1900	U	1900	U	1700	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2000	U	1900	U	1900	U	1700	U
608-93-5	Pentachlorobenzene	2000	U	1900	U	1900	U	1700	U
134-32-7	1-Naphthylamine	2000	U	1900	U	1900	U	1700	U
91-59-8	2-Naphthylamine	2000	U	1900	U	1900	U	1700	U
58-90-2	2,3,4,6-Tetrachlorophenol	410	U	390	U	390	U	350	U
122-39-4	Diphenylamine	410	U	390	U	390	U	350	U
62-44-2	Phenacetin	410	U	390	U	390	U	350	U
92-67-1	4-Aminobiphenyl	2000	U	1900	U	1900	U	1700	U
82-68-8	Pentachloronitrobenzene	2000	U	1900	U	1900	U	1700	U
23950-58-5	Pronamide	410	U	390	U	390	U	350	U
60-11-7	p-(Dimethylamino)azobenzene	410	U	390	U	390	U	350	U
57-97-6	7,12-Dimethylbenz[a]anthracene	410	U	390	U	390	U	350	U
56-49-5	Methylcholanthrene	410	U	390	U	390	U	350	U
110-86-1	Pyridine	2000	U	1900	U	1900	U	1700	U
10595-95-6	N-Nitrosomethylethylamine	410	U	390	U	390	U	350	U
59-89-2	N-Nitrosomorpholine	410	U	390	U	390	U	350	U
95-53-4	o-Toluidine	410	U	390	U	390	U	350	U

*Blank entries indicate that sample was not analyzed for that analyte group

SEMIVOLATILE ORGANIC COMPOUNDS: SOIL

	A:\MPTDT11.WK1								
	LOCATION:	MPT-22-L-3		MPT-22-U-4		MPT-22-L-4		MPT-22-D-1	
	SAMPLE MATRIX:	SOIL		SOIL		SOIL		SOIL	
	DATE SAMPLED:	03/11/92		03/11/92		03/11/92		03/11/92	
	LAB NUMBER:	21171		21171		21171		21171	
	UNITS:	ug/Kg		ug/Kg		ug/Kg		ug/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
108-39-4	3(&4)-Methylphenol	820	U	780	U	790	U	710	U
1888-71-7	Hexachloropropene	2000	U	1900	U	1900	U	1700	U
106-50-3	p-Phenylenediamine	2000	U	1900	U	1900	U	1700	U
94-59-7	Safrole	2000	U	1900	U	1900	U	1700	U
120-58-1	Isosafrole	2000	U	1900	U	1900	U	1700	U
130-15-4	1,4-Naphthoquinone	2000	U	1900	U	1900	U	1700	U
99-65-0	1,3-Dinitrobenzene	410	U	390	U	390	U	350	U
99-55-8	5-Nitro-o-toluidine	410	U	390	U	390	U	350	U
99-35-4	1,3,5-Trinitrobenzene	410	U	390	U	390	U	350	U
56-57-5	4-Nitroquinoline 1-oxide	410	U	390	U	390	U	350	U
91-80-5	Methapyrilene	2000	U	1900	U	1900	U	1700	U
119-93-7	3,3'-Dimethylbenzidine	410	U	390	U	390	U	350	U
53-96-3	2-Acetylaminofluorene	410	U	390	U	390	U	350	U
70-30-4	Hexachlorophene	2000	U	1900	U	1900	U	1700	U

*Blank entries indicate that sample was not analyzed for that analyte group

PCB & CHLORINATED PESTICIDES: SOIL

	A:\MPTDAT7.WK1										
	LOCATION:	MPT-2-11S		MPT-2-11SDL		MPT-2-12S		MPT-2-12SDL		MPT-2-16S	
	SAMPLE MATRIX:	SOIL		SOIL		SOIL		SOIL		SOIL	
	DATE SAMPLED:	01/24/92		01/24/92		01/24/92		01/24/92		01/24/92	
	LAB NUMBER:	20753		20753		20753		20753		20753	
	UNITS:	µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
319-84-6	alpha-BHC	0.5	U	4.7	U	0.5	U	4.9	U	0.5	U
319-85-7	beta-BHC	0.9	U	9.3	U	1	U	9.9	U	1	U
319-86-8	delta-BHC	0.5	U	4.7	U	0.5	U	4.9	U	0.5	U
58-89-9	gamma-BHC; Lindane	0.5	U	4.7	U	0.5	U	4.9	U	0.5	U
76-44-8	Heptachlor	0.5	U	4.7	U	0.5	U	4.9	U	0.5	U
309-00-2	Aldrin	0.5	U	4.7	U	0.5	U	4.9	U	0.5	U
1024-57-3	Heptachlor epoxide	0.5	U	4.7	U	0.5	U	4.9	U	0.5	U
959-98-8	Endosulfan I	0.9	U	9.3	U	1	U	9.9	U	1	U
60-57-1	Dieldrin	0.9	U	9.3	U	1	U	9.9	U	1	U
72-55-9	4,4'-DDE	0.9	U	9.3	U	1	U	9.9	U	1.8	
72-20-8	Endrin	0.9	U	9.3	U	1	U	9.9	U	1	U
33213-65-9	Endosulfan II	0.9	U	9.3	U	1	U	9.9	U	1	U
72-54-8	4,4'-DDD	0.9	U	9.3	U	1	U	9.9	U	1	U
7421-93-4	Endrin aldehyde	0.9	U	9.3	U	1	U	9.9	U	1	U
1031-07-8	Endosulfan sulfate	0.9	U	9.3	U	1	U	9.9	U	1	U
50-29-3	4,4'-DDT	0.9	U	9.3	U	1	U	9.9	U	0.9	JX
72-43-5	Methoxychlor	1.9	U	19	U	2	U	20	U	1.9	U
53494-70-5	Endrin Ketone	0.9	U	9.3	U	1	U	9.9	U	1	U
57-74-09	Chlordane	4.7	U	47	U	4.9	U	49	U	4.8	U
8001-35-2	Toxaphene	23	U	230	U	25	U	250	U	24	U
12674-11-2	Aroclor-1016	37	U	370	U	40	U	400	U	39	U
11104-28-2	Aroclor-1221	93	U	930	U	99	U	990	U	96	U
11141-16-5	Aroclor-1232	93	U	930	U	99	U	990	U	96	U
53469-21-9	Aroclor-1242	37	U	370	U	40	U	400	U	39	U

*Blank entries indicate that sample was not analyzed for that analyte group

PCB & CHLORINATED PESTICIDES: SOIL

	A:\MPTDAT7.WK1										
	LOCATION:	MPT-2-11S		MPT-2-11SDL		MPT-2-12S		MPT-2-12SDL		MPT-2-16S	
	SAMPLE MATRIX:	SOIL		SOIL		SOIL		SOIL		SOIL	
	DATE SAMPLED:	01/24/92		01/24/92		01/24/92		01/24/92		01/24/92	
	LAB NUMBER:	20753		20753		20753		20753		20753	
	UNITS:	µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
12672-29-6	Aroclor-1248	19	U	190	U	20	U	200	U	19	U
11097-69-1	Aroclor-1254	9.3	U	93	U	9.9	U	99	U	9.6	U
11096-82-5	Aroclor-1260	9.3	U	93	U	9.9	U	99	U	9.6	U
510-15-6	Chlorobenzilate	23	U	230	U	25	U	250	U	24	U
2303-16-4	Diallate	47	U	470	U	49	U	490	U	48	U
465-73-6	Isodrin	0.9	U	9.3	U	1	U	9.9	U	1	U
143-50-0	Kepone	NR		NR		NR		NR		NR	

*Blank entries indicate that sample was not analyzed for that analyte group

PCB & CHLORINATED PESTICIDES: SOIL

	A:\MPTDAT7.WK1										
	LOCATION:	MPT-2-16SDL		MPT-2-17S		MPT-2-17SDL		MPT-13-4		MPT-13-4DUP	
	SAMPLE MATRIX:	SOIL		SOIL		SOIL		SOIL		SOIL	
	DATE SAMPLED:	01/24/92		01/24/92		01/24/92		01/24/92		01/24/92	
	LAB NUMBER:	20753		20753		20753		20753		20753	
	UNITS:	µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
319-84-6	alpha-BHC	4.8	U	0.4	U	4.3	U	4.5	U	4.5	U
319-85-7	beta-BHC	9.6	U	0.9	U	8.7	U	9	U	9	U
319-86-8	delta-BHC	4.8	U	0.4	U	4.3	U	4.5	U	4.5	U
58-89-9	gamma-BHC; Lindane	4.8	U	0.4	U	4.3	U	4.5	U	4.5	U
76-44-8	Heptachlor	4.8	U	0.4	U	4.3	U	4.5	U	4.5	U
309-00-2	Aldrin	4.8	U	0.4	U	4.3	U	4.5	U	4.5	U
1024-57-3	Heptachlor epoxide	4.8	U	0.4	U	4.3	U	4.5	U	4.5	U
959-98-8	Endosulfan I	9.6	U	0.9	U	8.7	U	9	U	9	U
60-57-1	Dieldrin	9.6	U	0.9	U	8.7	U	9	U	9	U
72-55-9	4,4'-DDE	9.6	U	0.9	U	8.7	U	9	U	9	U
72-20-8	Endrin	9.6	U	0.9	U	8.7	U	9	U	9	U
33213-65-9	Endosulfan II	9.6	U	0.9	U	8.7	U	9	U	9	U
72-54-8	4,4'-DDD	9.6	U	0.9	U	8.7	U	9	U	9	U
7421-93-4	Endrin aldehyde	9.6	U	0.9	U	8.7	U	9	U	9	U
1031-07-8	Endosulfan sulfate	9.6	U	0.9	U	8.7	U	9	U	9	U
50-29-3	4,4'-DDT	9.6	U	0.9	U	8.7	U	9	U	9	U
72-43-5	Methoxychlor	19	U	1.77	U	17	U	18	U	18	U
53494-70-5	Endrin Ketone	9.6	U	0.9	U	8.7	U	9	U	9	U
57-74-09	Chlordane	48	U	4.3	U	43	U	350	U	370	
8001-35-2	Toxaphene	240	U	22	U	220	U	230	U	220	U
12674-11-2	Aroclor-1016	390	U	35	U	350	U	360	U	360	U
11104-28-2	Aroclor-1221	960	U	87	U	870	U	900	U	900	U
11141-16-5	Aroclor-1232	960	U	87	U	870	U	900	U	900	U
53469-21-9	Aroclor-1242	390	U	35	U	350	U	360	U	360	U

*Blank entries indicate that sample was not analyzed for that analyte group

PCB & CHLORINATED PESTICIDES: SOIL

	A:\MPTDAT7.WK1									
	LOCATION:	MPT-2-16SDL		MPT-2-17S		MPT-2-17SDL		MPT-13-4		MPT-13-4DUP	
	SAMPLE MATRIX:	SOIL		SOIL		SOIL		SOIL		SOIL	
	DATE SAMPLED:	01/24/92		01/24/92		01/24/92		01/24/92		01/24/92	
	LAB NUMBER:	20753		20753		20753		20753		20753	
	UNITS:	µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
12672-29-6	Aroclor-1248	190	U	17	U	170	U	180	U	180	U
11097-69-1	Aroclor-1254	96	U	8.7	U	87	U	90	U	90	U
11096-82-5	Aroclor-1260	96	U	8.7	U	87	U	90	U	90	U
510-15-6	Chlorobenzilate	240	U	22	U	220	U	220	U	220	U
2303-16-4	Diallate	480	U	43	U	430	U	450	U	450	U
465-73-6	Isodrin	9.6	U	0.9	U	8.7	U	9	U	9	U
143-50-0	Kepone	NR		NR		NR		NR		NR	

*Blank entries indicate that sample was not analyzed for that analyte group

PCB & CHLORINATED PESTICIDES: SOIL

	A:\MPTDAT7.WK1										
	LOCATION:	MPT-13-5		MPT-13-6		MPT-13-6DL		MPT-22-1S		MPT-22-1SDL	
	SAMPLE MATRIX:	SOIL		SOIL		SOIL		SOIL		SOIL	
	DATE SAMPLED:	01/24/92		01/24/92		01/24/92		01/24/92		01/24/92	
	LAB NUMBER:	20753		20753		20753		20753		20753	
	UNITS:	µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
319-84-6	alpha-BHC	4.9	U	0.5	U	4.8	U	0.6	U	5.8	
319-85-7	beta-BHC	9.8	U	1	U	9.6	U	1.2	U	12	
319-86-8	delta-BHC	4.9	U	0.5	U	4.8	U	0.6	U	5.8	
58-89-9	gamma-BHC; Lindane	4.9	U	0.5	U	4.8	U	0.6	U	5.8	
76-44-8	Heptachlor	4.9	U	0.5	U	4.8	U	0.6	U	5.8	
309-00-2	Aldrin	4.9	U	0.5	U	4.8	U	0.6	U	5.8	
1024-57-3	Heptachlor epoxide	4.9	U	0.5	U	4.8	U	0.6	U	5.8	
959-98-8	Endosulfan I	9.8	U	1	U	9.6	U	1.2	U	12	
60-57-1	Dieldrin	9.8	U	1	U	9.6	U	1.2	U	12	
72-55-9	4,4'-DDE	9.8	U	1	U	9.6	U	1.2	U	12	
72-20-8	Endrin	9.8	U	1	U	9.6	U	1.2	U	12	
33213-65-9	Endosulfan II	9.8	U	1	U	9.6	U	1.2	U	12	
72-54-8	4,4'-DDD	9.8	U	1	U	9.6	U	1.2	U	12	
7421-93-4	Endrin aldehyde	9.8	U	1	U	9.6	U	1.2	U	12	
1031-07-8	Endosulfan sulfate	9.8	U	1	U	9.6	U	1.2	U	12	
50-29-3	4,4'-DDT	9.8	U	1	U	9.6	U	1.2	U	12	
72-43-5	Methoxychlor	20	U	1.9	U	19	U	2.3	U	23	
53494-70-5	Endrin Ketone	9.8	U	1	U	9.6	U	1.2	U	12	
57-74-09	Chlordane	49	U	4.8	U	48	U	5.8	U	58	
8001-35-2	Toxaphene	240	U	24	U	240	U	29	U	290	
12674-11-2	Aroclor-1016	390	U	39	U	390	U	46	U	460	
11104-28-2	Aroclor-1221	980	U	96	U	960	U	120	U	1200	
11141-16-5	Aroclor-1232	980	U	96	U	960	U	120	U	1200	
53469-21-9	Aroclor-1242	390	U	39	U	390	U	46	U	460	

*Blank entries indicate that sample was not analyzed for that analyte group

PCB & CHLORINATED PESTICIDES: SOIL

	A:\MPTDAT7.WK1										
	LOCATION:	MPT-13-5		MPT-13-6		MPT-13-6DL		MPT-22-1S		MPT-22-1SDL	
	SAMPLE MATRIX:	SOIL		SOIL		SOIL		SOIL		SOIL	
	DATE SAMPLED:	01/24/92		01/24/92		01/24/92		01/24/92		01/24/92	
	LAB NUMBER:	20753		20753		20753		20753		20753	
	UNITS:	µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
12672-29-6	Aroclor-1248	200	U	19	U	190	U	23	U	230	
11097-69-1	Aroclor-1254	98	U	9.6	U	96	U	12	U	120	
11096-82-5	Aroclor-1260	98	U	9.6	U	96	U	12	U	120	
510-15-6	Chlorobenzilate	240	U	24	U	240	U	29	U	290	
2303-16-4	Diallate	490	U	48	U	480	U	58	U	580	
465-73-6	Isodrin	9.8	U	1	U	9.6	U	1.2	U	12	
143-50-0	Kepone	NR		NR		NR		NR		NR	

*Blank entries indicate that sample was not analyzed for that analyte group

PCB & CHLORINATED PESTICIDES: SOIL

	A:\MPTDT11.WK1										
	LOCATION:	MPT-22-U-1		MPT-22-L-1		MPT-22-U-2		MPT-22-L-2		MPT-22-U-3	
	SAMPLE MATRIX:	SOIL		SOIL		SOIL		SOIL		SOIL	
	DATE SAMPLED:	03/11/92		03/11/92		03/11/92		03/11/92		03/11/92	
	LAB NUMBER:	21171		21171		21171		21171		21171	
	UNITS:	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
319-84-6	alpha-BHC	9	U	11	U	9	U	10	U	9	U
319-85-7	beta-BHC	9	U	11	U	9	U	10	U	9	U
319-86-8	delta-BHC	9	U	11	U	9	U	10	U	9	U
58-89-9	gamma-BHC; Lindane	9	U	11	U	9	U	10	U	9	U
76-44-8	Heptachlor	9	U	11	U	9	U	10	U	9	U
309-00-2	Aldrin	9	U	11	U	9	U	10	U	9	U
1024-57-3	Heptachlor epoxide	9	U	11	U	9	U	10	U	9	U
959-98-8	Endosulfan I	17	U	23	U	18	U	19	U	18	U
60-57-1	Dieldrin	17	U	23	U	18	U	19	U	18	U
72-55-9	4,4'-DDE	17	U	23	U	18	U	19	U	18	U
72-20-8	Endrin	17	U	23	U	18	U	19	U	18	U
33213-65-9	Endosulfan II	17	U	23	U	18	U	19	U	18	U
72-54-8	4,4'-DDD	17	U	23	U	18	U	19	U	18	U
7421-93-4	Endrin aldehyde	17	U	23	U	18	U	19	U	18	U
1031-07-8	Endosulfan sulfate	17	U	23	U	18	U	19	U	18	U
50-29-3	4,4'-DDT	17	U	23	U	18	U	19	U	18	U
72-43-5	Methoxychlor	87	U	110	U	92	U	95	U	91	U
53494-70-5	Endrin Ketone	17	U	23	U	92	U	19	U	18	U
57-74-09	Chlordane	87	U	23	U	18	U	95	U	91	U
8001-35-2	Toxaphene	170	U	230	U	180	U	190	U	180	U
12674-11-2	Aroclor-1016	87	U	110	U	92	U	95	U	91	U
11104-28-2	Aroclor-1221	87	U	110	U	92	U	95	U	91	U
11141-16-5	Aroclor-1232	87	U	110	U	92	U	95	U	91	U
53469-21-9	Aroclor-1242	87	U	110	U	92	U	95	U	91	U

*Blank entries indicate that sample was not analyzed for that analyte group

PCB & CHLORINATED PESTICIDES: SOIL

	A:\MPTDT11.WK1										
	LOCATION:	MPT-22-U-1		MPT-22-L-1		MPT-22-U-2		MPT-22-L-2		MPT-22-U-3	
	SAMPLE MATRIX:	SOIL		SOIL		SOIL		SOIL		SOIL	
	DATE SAMPLED:	03/11/92		03/11/92		03/11/92		03/11/92		03/11/92	
	LAB NUMBER:	21171		21171		21171		21171		21171	
	UNITS:	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
12672-29-6	Aroclor-1248	87	U	110	U	92	U	95	U	91	U
11097-69-1	Aroclor-1254	170	U	230	U	180	U	190	U	180	U
11096-82-5	Aroclor-1260	170	U	230	U	180	U	190	U	180	U
510-15-6	Chlorobenzilate	22	U	29	U	23	U	24	U	23	U
2303-16-4	Diallate	43	U	57	U	46	U	48	U	45	U
465-73-6	Isodrin	0.9	U	1.1	U	0.9	U	1	U	0.9	U
143-50-0	Kepone		NR		NR		NR		NR		NR

*Blank entries indicate that sample was not analyzed for that analyte group

PCB & CHLORINATED PESTICIDES: SOIL

	A:\MPTDT11.WK1							
	LOCATION:	MPT-22-L-3		MPT-22-U-4		MPT-22-L-4		MPT-22-D-1	
	SAMPLE MATRIX:	SOIL		SOIL		SOIL		SOIL	
	DATE SAMPLED:	03/11/92		03/11/92		03/11/92		03/11/92	
	LAB NUMBER:	21171		21171		21171		21171	
	UNITS:	ug/Kg		ug/Kg		ug/Kg		ug/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
319-84-6	alpha-BHC	10	U	9	U	10	U	9	U
319-85-7	beta-BHC	10	U	9	U	10	U	9	U
319-86-8	delta-BHC	10	U	9	U	10	U	9	U
58-89-9	gamma-BHC; Lindane	10	U	9	U	10	U	9	U
76-44-8	Heptachlor	10	U	9	U	10	U	9	U
309-00-2	Aldrin	10	U	9	U	10	U	9	U
1024-57-3	Heptachlor epoxide	10	U	9	U	10	U	9	U
959-98-8	Endosulfan I	20	U	19	U	19	U	17	U
60-57-1	Dieldrin	20	U	19	U	19	U	17	U
72-55-9	4,4'-DDE	20	U	19	U	19	U	17	U
72-20-8	Endrin	20	U	19	U	19	U	17	U
33213-65-9	Endosulfan II	20	U	19	U	19	U	17	U
72-54-8	4,4'-DDD	20	U	19	U	19	U	17	U
7421-93-4	Endrin aldehyde	20	U	19	U	19	U	17	U
1031-07-8	Endosulfan sulfate	20	U	19	U	19	U	17	U
50-29-3	4,4'-DDT	20	U	19	U	19	U	17	U
72-43-5	Methoxychlor	100	U	94	U	95	U	87	U
53494-70-5	Endrin Ketone	100	U	19	U	19	U	17	U
57-74-09	Chlordane	20	U	94	U	95	U	87	U
8001-35-2	Toxaphene	200	U	190	U	190	U	170	U
12674-11-2	Aroclor-1016	100	U	94	U	95	U	87	U
11104-28-2	Aroclor-1221	100	U	94	U	95	U	87	U
11141-16-5	Aroclor-1232	100	U	94	U	95	U	87	U
53469-21-9	Aroclor-1242	100	U	94	U	95	U	87	U

*Blank entries indicate that sample was not analyzed for that analyte group

PCB & CHLORINATED PESTICIDES: SOIL

	A:\MPTDT11.WK1								
	LOCATION:	MPT-22-L-3		MPT-22-U-4		MPT-22-L-4		MPT-22-D-1	
	SAMPLE MATRIX:	SOIL		SOIL		SOIL		SOIL	
	DATE SAMPLED:	03/11/92		03/11/92		03/11/92		03/11/92	
	LAB NUMBER:	21171		21171		21171		21171	
	UNITS:	ug/Kg		ug/Kg		ug/Kg		ug/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
12672-29-6	Aroclor-1248	100	U	94	U	95	U	87	U
11097-69-1	Aroclor-1254	200	U	190	U	190	U	170	U
11096-82-5	Aroclor-1260	200	U	190	U	190	U	170	U
510-15-6	Chlorobenzilate	25	U	24	U	24	U	22	U
2303-16-4	Diallate	50	U	47	U	48	U	43	U
465-73-6	Isodrin	1	U	0.9	U	1	U	0.9	U
143-50-0	Kepone		NR		NR		NR		NR

*Blank entries indicate that sample was not analyzed for that analyte group

PCBs (SWMU 2): SOIL

	A:\MPTDAT11.WK1										
	LOCATION/SAMPLE:	MPT-2-A1		MPT-2-A1-(1)		MPT-2-B1		MPT-2-B1-(1)		MPT-2-B4	
	SAMPLE MATRIX:	SOIL		SOIL		SOIL		SOIL		SOIL	
	DATE SAMPLED:	02/24/92		02/27/92		02/26/92		02/27/92		02/24/92	
	LAB NUMBER:	21018		21060		21042		21060		21018	
	UNITS:	µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
12674-11-2	Aroclor-1016	17000	U	35	U	2900	U	36	U	190	U
11104-28-2	Aroclor-1221	43000	U	87	U	7200	U	91	U	460	U
11141-16-5	Aroclor-1232	43000	U	87	U	7200	U	91	U	460	U
53469-21-9	Aroclor-1242	17000	U	35	U	2900	U	36	U	190	U
12672-29-6	Aroclor-1248	8700	U	17	U	1400	U	18	U	93	U
11097-69-1	Aroclor-1254	4300	U	8.7	U	720	U	9.1	U	46	U
11096-82-5	Aroclor-1260	68000		1600		7900		830		230	

PCBs (SWMU 2): SOIL

	A:\MPTDAT11.WK1										
	LOCATION/SAMPLE:	MPT-2-B4-(1)		MPT-2-C1		MPT-2-C1-(1)		MPT-2-C3		MPT-2-C6	
	SAMPLE MATRIX:	SOIL		SOIL		SOIL		SOIL		SOIL	
	DATE SAMPLED:	02/26/92		02/26/92		02/27/92		02/26/92		02/24/92	
	LAB NUMBER:	21042		21042		21060		21042		21018	
	UNITS:	µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
12674-11-2	Aroclor-1016	38	U	7500	U	37	U	15000	U	40	U
11104-28-2	Aroclor-1221	95	U	19000	U	92	U	38000	U	100	U
11141-16-5	Aroclor-1232	95	U	19000	U	92	U	38000	U	100	U
53469-21-9	Aroclor-1242	38	U	7500	U	37	U	15000	U	40	U
12672-29-6	Aroclor-1248	19	U	3800	U	18	U	7500	U	20	U
11097-69-1	Aroclor-1254	10	U	1900	U	9.2	U	3800	U	10	U
11096-82-5	Aroclor-1260	73		26000		200		42000		260	

PCBs (SWMU 2): SOIL

	A:\MPTDAT11.WK1										
	LOCATION/SAMPLE:	MPT-2-C6-(1)		MPT-2-D2		MPT-2-D2-(1)		MPT-2-D3		MPT-2-D4	
	SAMPLE MATRIX:	SOIL		SOIL		SOIL		SOIL		SOIL	
	DATE SAMPLED:	02/27/92		02/25/92		02/26/92		02/24/92		02/25/92	
	LAB NUMBER:	21060		21029		21042		21018		21029	
	UNITS:	µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
12674-11-2	Aroclor-1016	36	U	1500	U	36	U	15000	U	32000	U
11104-28-2	Aroclor-1221	91	U	3800	U	89	U	37000	U	79000	U
11141-16-5	Aroclor-1232	91	U	3800	U	89	U	37000	U	79000	U
53469-21-9	Aroclor-1242	36	U	1500	U	36	U	15000	U	32000	U
12672-29-6	Aroclor-1248	18	U	760	U	18	U	7400	U	16000	U
11097-69-1	Aroclor-1254	9.1	U	380	U	9	U	3700	U	7900	U
11096-82-5	Aroclor-1260	37		4200		53		36000		120000	

PCBs (SWMU 2): SOIL

	A:\MPTDAT11.WK1										
	LOCATION/SAMPLE:	MPT-2-D4-(1)		MPT-2-E2		MPT-2-E5		MPT-2-E5-(1)		MPT-2-E6	
	SAMPLE MATRIX:	SOIL		SOIL		SOIL		SOIL		SOIL	
	DATE SAMPLED:	02/26/92		02/25/92		02/25/92		02/26/92		02/25/92	
	LAB NUMBER:	21042		21029		21029		21042		21029	
	UNITS:	µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
12674-11-2	Aroclor-1016	190	U	3200	U	1500	U	36	U	200	U
11104-28-2	Aroclor-1221	480	U	8000	U	3800	U	90	U	510	U
11141-16-5	Aroclor-1232	480	U	8000	U	3800	U	90	U	510	U
53469-21-9	Aroclor-1242	190	U	3200	U	1500	U	36	U	200	U
12672-29-6	Aroclor-1248	96	U	1600	U	760	U	18	U	100	U
11097-69-1	Aroclor-1254	48	U	800	U	380	U	9	U	51	U
11096-82-5	Aroclor-1260	750		16000		5000		35		400	

PCBs (SWMU 2): SOIL

	A:\MPTDAT11.WK1										
	LOCATION/SAMPLE:	MPT-2-E6-(1)		MPT-2-F3-(1)		MPT-2-F3-(DUP1)		MPT-2-G1		MPT-2-G1D	
	SAMPLE MATRIX:	SOIL		SOIL		SOIL		SOIL		SOIL	
	DATE SAMPLED:	02/26/92		02/27/92		02/27/92		02/25/92		02/25/92	
	LAB NUMBER:	21042		21060		21060		21029		21029	
	UNITS:	µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
12674-11-2	Aroclor-1016	72	U	38	U	38	U	3200	U	2000	U
11104-28-2	Aroclor-1221	180	U	94	U	94	U	7900	U	4900	U
11141-16-5	Aroclor-1232	180	U	94	U	94	U	7900	U	4900	U
53469-21-9	Aroclor-1242	72	U	38	U	38	U	3200	U	2000	U
12672-29-6	Aroclor-1248	36	U	19	U	19	U	1600	U	990	U
11097-69-1	Aroclor-1254	18	U	9.4	U	9.4	U	790	U	490	U
11096-82-5	Aroclor-1260	440		7.1	JX	5.6	JX	11000		6400	

PCBs (SWMU 2): SOIL

	A:\MPTDAT11.WK1										
	LOCATION/SAMPLE:	MPT-2-G2		MPT-2-G4		MPT-2-G4-(1)		MPT-2-G6		MPT-2-G6-(1)	
	SAMPLE MATRIX:	SOIL		SOIL		SOIL		SOIL		SOIL	
	DATE SAMPLED:	02/25/92		02/25/92		02/26/92		02/25/92		02/26/92	
	LAB NUMBER:	21029		21029		21042		21029		21042	
	UNITS:	µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
12674-11-2	Aroclor-1016	370	U	200	U	740	U	98	U	37	U
11104-28-2	Aroclor-1221	930	U	510	U	1800	U	240	U	92	U
11141-16-5	Aroclor-1232	930	U	510	U	1800	U	240	U	92	U
53469-21-9	Aroclor-1242	370	U	200	U	740	U	98	U	37	U
12672-29-6	Aroclor-1248	190	U	100	U	370	U	49	U	18	U
11097-69-1	Aroclor-1254	93	U	51	U	180	U	24	U	9	U
11096-82-5	Aroclor-1260	1200		330		2300		260		15	

PCBs (SWMU 2): SOIL

	A:\MPTDAT11.WK1										
	LOCATION/SAMPLE:	MPT-2-H4		MPT-2-H4-(1)		MPT-2-H6		MPT-2-H6-(1)		MPT-2-I1	
	SAMPLE MATRIX:	SOIL		SOIL		SOIL		SOIL		SOIL	
	DATE SAMPLED:	02/26/92		02/27/92		02/25/92		02/27/92		02/24/92	
	LAB NUMBER:	21042		21060		21029		21060		21018	
	UNITS:	µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
12674-11-2	Aroclor-1016	390	U	36	U	190	U	37	U	380	U
11104-28-2	Aroclor-1221	980	U	90	U	480	U	93	U	960	U
11141-16-5	Aroclor-1232	980	U	90	U	480	U	93	U	960	U
53469-21-9	Aroclor-1242	390	U	36	U	190	U	37	U	380	U
12672-29-6	Aroclor-1248	200	U	18	U	95	U	19	U	190	U
11097-69-1	Aroclor-1254	98	U	9	U	48	U	9.3	U	96	U
11096-82-5	Aroclor-1260	1500		19		360		20		110	

PCBs (SWMU 2): SOIL

	A:\MPTDAT11.WK1										
	LOCATION/SAMPLE:	MPT-2-I1-(1)		MPT-2-I2		MPT-2-I2-(1)		MPT-2-I3		MPT-2-I3D	
	SAMPLE MATRIX:	SOIL		SOIL		SOIL		SOIL		SOIL	
	DATE SAMPLED:	02/27/92		02/26/92		02/27/92		02/26/92		02/26/92	
	LAB NUMBER:	21060		21042		21060		21042		21042	
	UNITS:	µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
12674-11-2	Aroclor-1016	38	U	180	U	37	U	370	U	740	U
11104-28-2	Aroclor-1221	94	U	450	U	92	U	920	U	1800	U
11141-16-5	Aroclor-1232	94	U	450	U	92	U	920	U	1800	U
53469-21-9	Aroclor-1242	38	U	180	U	37	U	370	U	740	U
12672-29-6	Aroclor-1248	19	U	91	U	18	U	180	U	370	U
11097-69-1	Aroclor-1254	9.4	U	45	U	9.2	U	92	U	180	U
11096-82-5	Aroclor-1260	6.1	JX	350		9.2		1100		3100	

METALS & CYANIDE: SOIL

	A:\MPTDAT7.WK1									
	LOCATION:	MPT-2-16SDL		MPT-2-17S		MPT-2-17SDL		MPT-13-4		MPT-13-4DUP	
	SAMPLE MATRIX:	SOIL		SOIL		SOIL		SOIL		SOIL	
	DATE SAMPLED:	01/24/92		01/24/92		01/24/92		01/24/92		01/24/92	
	LAB NUMBER:	20753		20753		20753		20753		20753	
	UNITS:	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
7440-36-0	Antimony			8.6	U			8.8	U	8.9	U
7440-38-2	Arsenic			0.86	B			0.52	B	0.36	B
7440-39-3	Barium			5.3	B			7.5	B	8.1	B
7440-41-7	Beryllium			0.023	U			0.023	U	0.023	U
7440-43-9	Cadmium			0.35	U			0.36	U	0.36	U
7440-47-3	Chromium			4.3				2.8		3.5	
7440-48-4	Cobalt			1.1	U			1.1	U	1.1	U
7440-50-8	Copper			0.69	B			2	B	1.9	B
7440-92-1	Lead			1.8				2.4		2.8	
7440-97-6	Mercury			0.084	U			0.078	U	0.074	U
7440-02-0	Nickel			1.5	U			2.5	B	3.2	B
7440-49-2	Selenium			0.28	U			0.28	U	0.28	U
7440-22-4	Silver			0.5	U			0.51	U	0.51	U
7440-28-0	Thallium			0.3	U			0.31	U	0.31	U
7440-31-5	Tin			44.8	U			46	U	46.1	U
7440-62-2	Vanadium			3.4	B			2.7	B	3.6	B
7440-66-6	Zinc			5.7				19.4		18.6	
	Cyanide				NR				NR		NR

*Blank entries indicate that sample was not analyzed for that analyte group

METALS & CYANIDE: SOIL

	A:\MPTDAT7.WK1										
	LOCATION:	MPT-13-5		MPT-13-6		MPT-13-6DL		MPT-22-1S		MPT-22-1SDL	
	SAMPLE MATRIX:	SOIL		SOIL		SOIL		SOIL		SOIL	
	DATE SAMPLED:	01/24/92		01/24/92		01/24/92		01/24/92		01/24/92	
	LAB NUMBER:	20753		20753		20753		20753		20753	
	UNITS:	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
7440-36-0	Antimony	9.2	U	9.8	B			11	U		
7440-38-2	Arsenic	0.17	B	0.16	U			3.7			
7440-39-3	Barium	6.6	B	2.5	B			14.1	B		
7440-41-7	Beryllium	0.024	U	0.024	U			0.17	B		
7440-43-9	Cadmium	0.37	U	0.36	U			0.44	U		
7440-47-3	Chromium	2.1	B	1.8	B			16.9			
7440-48-4	Cobalt	1.2	U	1.2	U			2	B		
7440-50-8	Copper	0.41	B	1.7	B			1.8	B		
7440-92-1	Lead	1.3		1.1				4.7			
7440-97-6	Mercury	0.076	U	0.073	U			0.094	U		
7440-02-0	Nickel	1.6	U	1.6	U			2.7	B		
7440-49-2	Selenium	0.3	U	0.29	U			0.35	U		
7440-22-4	Silver	0.53	U	0.52	U			0.64	U		
7440-28-0	Thallium	0.32	U	0.32	U			0.39	U		
7440-31-5	Tin	47.9	U	47	U			57.5	U		
7440-62-2	Vanadium	1.9	B	1.7	B			17.4			
7440-66-6	Zinc	7.5		11.6				24.6			
	Cyanide		NR		NR				NR		

*Blank entries indicate that sample was not analyzed for that analyte group

METALS & CYANIDE: SOIL

	A:\MPTDT11.WK1										
	LOCATION:	MPT-22-U-1		MPT-22-L-1		MPT-22-U-2		MPT-22-L-2		MPT-22-U-3	
	SAMPLE MATRIX:	SOIL		SOIL		SOIL		SOIL		SOIL	
	DATE SAMPLED:	03/11/92		03/11/92		03/11/92		03/11/92		03/11/92	
	LAB NUMBER:	21171		21171		21171		21171		21171	
	UNITS:	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
7440-36-0	Antimony	2.4	U	3.1	U	2.5	U	2.7	U	2.5	B
7440-38-2	Arsenic	0.76	B	3.4		1.1	B	1	B	1.2	B
7440-39-3	Barium	6.2	B	8.7	B	7	B	5.5	B	6.4	B
7440-41-7	Beryllium	0.04	U	0.5	B	0.08	B	0.08	B	0.09	B
7440-43-9	Cadmium	0.63	U	0.84	U	0.68	U	0.72	U	0.67	U
7440-70-2	Calcium	131000		23700		169000		149000		141000	
7440-47-3	Chromium	2.5		14.9		4.3		3.3		2.3	B
7440-48-4	Cobalt	0.77	U	2.1	B	0.83	U	0.87	U	0.81	U
7440-50-8	Copper	1.6	B	10.9		3.8	B	5.6	B	17.6	
7440-89-6	Iron	944		6750		1370		1010		1170	
7440-92-1	Lead	1.1		5.9		1.2		1.3		1	
7440-95-4	Magnesium	256	B	1400	B	951	B	416	B	297	B
7440-96-5	Manganese	19.2		91.7		93.4		28.4		21.2	
7440-97-6	Mercury	0.07	U	0.11	U	0.08	U	0.08	U	0.07	U
7440-31-5	Tin	45	U	59.9	U	48.4	U	50.8	U	47.5	U
7440-02-0	Nickel	1.6	B	21.6		1.3	B	2.3	B	1.5	B
7440-49-2	Selenium	0.28	U	0.37	U	0.3	U	0.31	U	0.29	U
7440-22-4	Silver	0.37	U	0.5	U	0.56	B	0.42	U	0.39	U
7440-23-5	Sodium	1530		469	B	1590		1730		1820	
7440-28-0	Thallium	0.24	U	0.31	U	0.25	U	0.27	U	0.25	U
7440-62-2	Vanadium	1.7	B	10.2	B	5	B	2.2	B	1.9	B
7440-66-6	Zinc	5.9		25.9		13.7		8.9		38.2	
	Cyanide	0.19	U	0.25	U	0.21	U	0.22	U	0.21	U

*Blank entries indicate that sample was not analyzed for that analyte group

METALS & CYANIDE: SOIL

	A:\MPTDT11.WK1							
	LOCATION:	MPT-22-L-3		MPT-22-U-4		MPT-22-L-4		MPT-22-D-1	
	SAMPLE MATRIX:	SOIL		SOIL		SOIL		SOIL	
	DATE SAMPLED:	03/11/92		03/11/92		03/11/92		03/11/92	
	LAB NUMBER:	21171		21171		21171		21171	
	UNITS:	mg/Kg		mg/Kg		mg/Kg		mg/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
7440-36-0	Antimony	2.8	U	2.7	U	3.9	B	2.3	U
7440-38-2	Arsenic	2.1	B	0.77	B	1	B	0.73	B
7440-39-3	Barium	6.7	B	3.7	B	5.1	B	4.1	B
7440-41-7	Beryllium	0.22	B	0.05	U	0.06	B	0.05	B
7440-43-9	Cadmium	0.76	U	0.72	U	0.72	U	0.63	U
7440-70-2	Calcium	62800		94800		120000		108000	
7440-47-3	Chromium	13.3		4		3.8		2	B
7440-48-4	Cobalt	1	B	0.87	U	0.87	U	0.77	U
7440-50-8	Copper	11.6		4.3	B	5.1	B	2.5	B
7440-89-6	Iron	3910		767		997		556	
7440-92-1	Lead	2.5		1.5		1.7		1	
7440-95-4	Magnesium	1120	B	280	B	440	B	154	B
7440-96-5	Manganese	50.3		18.6		18.3		11.7	
7440-97-6	Mercury	0.09	U	0.07	U	0.09	U	0.08	U
7440-31-5	Tin	53.9	U	50.9	U	50.8	U	44.9	U
7440-02-0	Nickel	7.6	B	1.6	B	3.4	B	1.3	B
7440-49-2	Selenium	0.33	U	0.31	U	0.31	U	0.28	U
7440-22-4	Silver	0.45	U	0.42	U	0.42	U	0.37	U
7440-23-5	Sodium	1070	B	1200	B	1710		1320	
7440-28-0	Thallium	0.28	U	0.27	U	0.27	U	0.24	U
7440-62-2	Vanadium	6.9	B	1.4	B	2.2	B	1.1	B
7440-66-6	Zinc	23.3		12.8		10		3.6	B
	Cyanide	0.23	U	0.22	U	0.22	U	0.2	U

*Blank entries indicate that sample was not analyzed for that analyte group

METALS & CYANIDE: SOIL

	A:\MPTDAT7.WK1										
	LOCATION:	MPT-2-11S		MPT-2-11SDL		MPT-2-12S		MPT-2-12SDL		MPT-2-16S	
	SAMPLE MATRIX:	SOIL		SOIL		SOIL		SOIL		SOIL	
	DATE SAMPLED:	01/24/92		01/24/92		01/24/92		01/24/92		01/24/92	
	LAB NUMBER:	20753		20753		20753		20753		20753	
	UNITS:	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
CAS RN	Common name	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.	Conc.	Qual.
7440-36-0	Antimony	9.3	U			10.2	U			10.5	B
7440-38-2	Arsenic	0.91	B			0.52	B			0.22	B
7440-39-3	Barium	6	B			6.9	B			4.4	B
7440-41-7	Beryllium	0.024	U			0.027	U			0.028	U
7440-43-9	Cadmium	0.37	U			0.41	U			0.42	U
7440-47-3	Chromium	3.4				2.7				3.1	U
7440-48-4	Cobalt	1.2	U			1.3	U			1.3	B
7440-50-8	Copper	3.9	B			1.1	B			2.8	B
7440-92-1	Lead	2.6				1.9				10.6	B
7440-97-6	Mercury	0.064	U			0.074	U			0.07	U
7440-02-0	Nickel	6.2	B			1.8	U			3.1	B
7440-49-2	Selenium	0.3	U			0.38	B			0.34	U
7440-22-4	Silver	0.54	U			0.59	U			0.61	U
7440-28-0	Thallium	0.33	U			0.36	U			0.37	U
7440-31-5	Tin	48.4	U			53.2	U			54.6	U
7440-62-2	Vanadium	4.1	B			2.2	B			3.7	U
7440-66-6	Zinc	12.1				10.1				50.9	B
	Cyanide		NR				NR				NR

*Blank entries indicate that sample was not analyzed for that analyte group

GENERAL WATER QUALITY: GROUNDWATER

	A:\MPTDT10.WK3						
	LOCATION:		MPT-2-MW1-1	MPT-2-MW2-1	MPT-2-MW3-1	MPT-2-MW4-1	MPT-2-MW5-1
	SAMPLE MATRIX:		WATER	WATER	WATER	WATER	WATER
	DATE SAMPLED:		02/11/92	02/11/92	02/09/92	02/10/92	02/10/92
	LAB NUMBER:		20884	20884	20866	20877	20877
METHOD	ANALYTE	UNIT					
EPA310.1	ALKALINITY	mg/l	398	280	1110	842	434
EPA110.2	COLOR	ALPHA	200	30	125	50	30
EPA325.1	CHLORIDE	mg/l	5240	238	14300	478	141
EPA130.2	HARDNESS AS CaCO3	mg/l	1860	338	2740	961	843
EPA353.2	NITRATE/NITRITE	mg/l	<0.05	<0.05	<0.05	0.26	<0.05
EPA350.2	AMMONIA	mg/l	1.13	1.68	19.4	25.2	3.16
EPA413.1	OIL & GREASE	mg/l	<0.1	0.8	<0.1	14.3	0.4
EPA150.1	pH	UNIT	7.4	7.3	7.2	7.1	7.4
EPA375.4	SULFATE	mg/l	1070	9.1	5.3	547	482
EPA376.1	SULFIDE	mg/l	<0.1	0.6	5.1	2.4	0.3
EPA160.1	TDS	mg/l	7010	823	14000	2470	1380
EPA351.3	TKN	mg/l	1.21	0.49	21.4	27.6	3.54
EPA365.1	TOTAL PHOSPOROUS	mg/l	2.4	2.7	3.95	1.03	0.75
EPA415.2	TOC	mg/l	26	10	20	18	12

*Blank entries indicate that sample was not analyzed for that analyte group

GENERAL WATER QUALITY: GROUNDWATER

	A:\MPTDT10.WK3						
	LOCATION:		MPT-2-MW6-1	MPT-2-MW7S-1	MPT-2-MW7D-1	MPT-2-MW8-1	MPT-2-MW9S-1
	SAMPLE MATRIX:		WATER	WATER	WATER	WATER	WATER
	DATE SAMPLED:		02/11/92	02/11/92	02/11/92	02/10/92	02/09/92
	LAB NUMBER:		20884	20884	20884	20877	20866
METHOD	ANALYTE	UNIT					
EPA310.1	ALKALINITY	mg/l	371	804	863	830	6.9
EPA110.2	COLOR	ALPHA	30	70	100	70	50
EPA325.1	CHLORIDE	mg/l	672	10900	10600	7750	4010
EPA130.2	HARDNESS AS CaCO3	mg/l	489	2530	3860	926	1400
EPA353.2	NITRATE/NITRITE	mg/l	<0.05	<0.05	<0.05	<0.05	<0.05
EPA350.2	AMMONIA	mg/l	8.69	5.74	10	25.6	16.7
EPA413.1	OIL & GREASE	mg/l	0.1	0.3	2	0.9	2.2
EPA150.1	pH	UNIT	7.3	7.1	7	8.4	7.2
EPA375.4	SULFATE	mg/l	<1.0	925	1380	488	362
EPA376.1	SULFIDE	mg/l	0.2	0.3	1.3	5	4
EPA160.1	TDS	mg/l	1640	11700	18900	7560	8340
EPA351.3	TKN	mg/l	9.8	8.3	10.4	29.7	18.1
EPA365.1	TOTAL PHOSPOROUS	mg/l	0.72	3.2	3.01	1.48	1.44
EPA415.2	TOC	mg/l	10	36	34	22	17

*Blank entries indicate that sample was not analyzed for that analyte group

GENERAL WATER QUALITY: GROUNDWATER

	A:\MPTDT10.WK3						
	LOCATION:		MPT-2-MW9D-1	MPT-2-MW10-1	MPT-2-MW11-1	MPT-2-MW12S-1	MPT-2-MW12D-1
	SAMPLE MATRIX:		WATER	WATER	WATER	WATER	WATER
	DATE SAMPLED:		02/09/92	02/10/92	02/05/92	02/05/92	02/12/92
	LAB NUMBER:		20866	20877	20837	20837	20902
METHOD	ANALYTE	UNIT					
EPA310.1	ALKALINITY	mg/l	663	915	1240	1310	1240
EPA110.2	COLOR	ALPHA	100	70	375	300	140
EPA325.1	CHLORIDE	mg/l	34400	14400	11200	11900	3080
EPA130.2	HARDNESS AS CaCO3	mg/l	2570	1930	2330	2530	3440
EPA353.2	NITRATE/NITRITE	mg/l	<0.05	<0.05	<0.05	<0.05	0.07
EPA350.2	AMMONIA	mg/l	4.57	19.1	7.96	6.34	12.5
EPA413.1	OIL & GREASE	mg/l	2.6	4.1	8.6	5.7	9.8
EPA150.1	pH	UNIT	6.7	7.5	7.4	7.1	6.8
EPA375.4	SULFATE	mg/l	20.8	3	360	463	1760
EPA376.1	SULFIDE	mg/l	5.8	4.2	4.5	4.4	2.5
EPA160.1	TDS	mg/l	32000	13000	11600	13000	33400
EPA351.3	TKN	mg/l	6.12	23.7	10.8	8.65	14.3
EPA365.1	TOTAL PHOSPOROUS	mg/l	0.63	1.54	3.8	4.33	4.02
EPA415.2	TOC	mg/l	19	23	41	43	28

*Blank entries indicate that sample was not analyzed for that analyte group

GENERAL WATER QUALITY: GROUNDWATER

	A:\MPTDT10.WK3						
	LOCATION:		MPT-2-MW15S-1	MPT-2-MW15D-1	MPT-2-MW16S-1	MPT-2-MW16DD-1	MPT-2-MW17S-1
	SAMPLE MATRIX:		WATER	WATER	WATER	WATER	WATER
	DATE SAMPLED:		02/10/92	02/10/92	02/10/92	02/14/92	02/12/92
	LAB NUMBER:		20877	20877	20877	20931	20902
METHOD	ANALYTE	UNIT					
EPA310.1	ALKALINITY	mg/l	820	923	507	390	433
EPA110.2	COLOR	ALPHA	150	150	75	25	30
EPA325.1	CHLORIDE	mg/l	1010	25400	594	30500	72.5
EPA130.2	HARDNESS AS CaCO3	mg/l	1300	4230	525	2940	748
EPA353.2	NITRATE/NITRITE	mg/l	0.07	<0.05	<0.05	<0.05	<0.05
EPA350.2	AMMONIA	mg/l	5.89	6.78	7.96	1.5	0.7
EPA413.1	OIL & GREASE	mg/l	0.4	3.2		1.1	0.2
EPA150.1	pH	UNIT	6.9	6.8	7.2	6.8	7.1
EPA375.4	SULFATE	mg/l	439	1580	10.2	2570	165
EPA376.1	SULFIDE	mg/l	0.2	5.3	0.9	<0.1	<0.1
EPA160.1	TDS	mg/l	3350	24100	1640		769
EPA351.3	TKN	mg/l	8.1	9.72	9.05	3.4	1.4
EPA365.1	TOTAL PHOSPOROUS	mg/l	3.61	0.75	0.86	0.13	1.91
EPA415.2	TOC	mg/l	35	34	12	15	13

*Blank entries indicate that sample was not analyzed for that analyte group

GENERAL WATER QUALITY: GROUNDWATER

	A:\MPTDT10.WK3						
	LOCATION:		MPT-13-MW1-1	MPT-13-MW2-1	MPT-13-MW3-1	MPT-13-MW4-1	MPT-13-MW5-1
	SAMPLE MATRIX:		WATER	WATER	WATER	WATER	WATER
	DATE SAMPLED:		02/11/92	02/11/92	02/11/92	02/05/92	02/05/92
	LAB NUMBER:		20884	20884	20884	20850	20850
METHOD	ANALYTE	UNIT					
EPA310.1	ALKALINITY	mg/l	235	490	310	650	402
EPA110.2	COLOR	ALPHA	15	50	25	625	100
EPA325.1	CHLORIDE	mg/l	56.6	1280	256	1010	280
EPA130.2	HARDNESS AS CaCO3	mg/l	293	515	446	869	427
EPA353.2	NITRATE/NITRITE	mg/l	<0.05	<0.05	<0.05	<0.05	<0.05
EPA350.2	AMMONIA	mg/l	0.52	4.71	1.78	5.3	1.96
EPA413.1	OIL & GREASE	mg/l	0.1	0.4	2.1	2.4	2.9
EPA150.1	pH	UNIT	7.3	7.1	7.3	6.7	6.9
EPA375.4	SULFATE	mg/l	37.7	28.9	113	149	37.8
EPA376.1	SULFIDE	mg/l	<0.1	0.2	0.2	1.3	1.2
EPA160.1	TDS	mg/l	456	1660	986	2690	1040
EPA351.3	TKN	mg/l	1.1	5.2	2.6	6.34	2.57
EPA365.1	TOTAL PHOSPOROUS	mg/l	0.57	0.55	0.82	2.86	0.9
EPA415.2	TOC	mg/l	5.3	13	8.8	23	9.3

*Blank entries indicate that sample was not analyzed for that analyte group

GENERAL WATER QUALITY: GROUNDWATER

	A:\MPTDT10.WK3					
	LOCATION:		MPT-13-MW6-1	MPT-22-MW1-1	MPT-1-MW1-1	MPT-S-1-1
	SAMPLE MATRIX:		WATER	WATER	WATER	WATER
	DATE SAMPLED:		02/11/92	02/05/92	02/12/92	02/12/92
	LAB NUMBER:		20884	20837	20902	20902
METHOD	ANALYTE	UNIT				
EPA310.1	ALKALINITY	mg/l	449	382	161	223
EPA110.2	COLOR	ALPHA	70	15	10	20
EPA325.1	CHLORIDE	mg/l	276	430	7.1	12
EPA130.2	HARDNESS AS CaCO3	mg/l	449	612	181	338
EPA353.2	NITRATE/NITRITE	mg/l	<0.05	<0.05	0.55	0.12
EPA350.2	AMMONIA	mg/l	2.66	0.95	<0.1	<0.1
EPA413.1	OIL & GREASE	mg/l	1.5	1.7	0.7	0.9
EPA150.1	pH	UNIT	7.2	7.1	7.5	7.6
EPA375.4	SULFATE	mg/l	157	124	12.8	66.3
EPA376.1	SULFIDE	mg/l	<0.1	2.5	<0.1	<0.1
EPA160.1	TDS	mg/l	1260	1420	213	405
EPA351.3	TKN	mg/l	3	1.39	1.5	1.2
EPA365.1	TOTAL PHOSPOROUS	mg/l	0.95	0.43	0.31	0.21
EPA415.2	TOC	mg/l		6.9	2.8	4

*Blank entries indicate that sample was not analyzed for that analyte group

GENERAL WATER QUALITY: SURFACE WATER

	A:\MPTDAT9.WK3							
	LOCATION:		MPT-B-SW-1	MPT-B-SW-2	MPT-B-SW-3	MPTBSWDUP1 (3)	MPT-2-SW-4	MPT-2-SW-5
	SAMPLE MATRIX:		WATER	WATER	WATER	WATER	WATER	WATER
	DATE SAMPLED:		01/21/92	01/21/92	01/21/92	01/21/92	01/22/92	01/22/92
	LAB NUMBER:		20723	20723	20723	20723	20722	20722
METHOD	ANALYTE	UNIT						
EPA310.1	ALKALINITY	mg/l	204	124	112	114	200	228
EPA110.2	COLOR	ALPHA	60	60	100	60	100	140
EPA325.1	CHLORIDE	mg/l	9130	10400	9750	4290	10800	9760
EPA130.2	HARDNESS AS CaCO3	mg/l	1640	404	1510	1370	2110	1810
EPA353.2	NITRATE/NITRITE	mg/l	0.23	0.2	0.22	0.22	0.25	0.25
EPA350.2	AMMONIA	mg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
EPA413.1	OIL & GREASE	mg/l	0.5	3.8	3.7	1.7	3.4	1.5
EPA150.1	pH	UNIT	7.4	7.3	7.3	7.3	7.4	7.5
EPA375.4	SULFATE	mg/l	686	1190	748	675	828	664
EPA376.1	SULFIDE	mg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
EPA160.1	TDS	mg/l	8700	15600	9680	9400	10700	5830
EPA351.3	TKN	mg/l	1.4	1.2	0.8	0.8	1.2	1.6
EPA365.1	TOTAL PHOSPOROUS	mg/l	0.74	1.03	0.28	0.29	0.69	0.85
EPA415.2	TOC	mg/l	15	13	12		31	8.6

*Blank entries indicate that sample was not analyzed for that analyte group

GENERAL WATER QUALITY: SURFACE WATER

	A:\MPTDAT9.WK3						
	LOCATION:		MPT-2-SW-6	MPT-2-SW-7	MPT-2-SW-7A	MPT-2-SW-8	MPT-2-SW-9
	SAMPLE MATRIX:		WATER	WATER	WATER	WATER	WATER
	DATE SAMPLED:		01/22/92	01/23/92	01/23/92	02/12/92	01/23/92
	LAB NUMBER:		20722	20740	20740	20902	20740
METHOD	ANALYTE	UNIT					
EPA310.1	ALKALINITY	mg/l	1254	420	424	455	370
EPA110.2	COLOR	ALPHA	140	200	140	100	85
EPA325.1	CHLORIDE	mg/l	7260	8060	8340	9270	12100
EPA130.2	HARDNESS AS CaCO3	mg/l	1430	2490	990	1690	2200
EPA353.2	NITRATE/NITRITE	mg/l	0.39	0.14	0.19	0.3	0.19
EPA350.2	AMMONIA	mg/l	<0.1	3.1	1.4	3.6	3
EPA413.1	OIL & GREASE	mg/l	2.3	0.7	1.9	2	2.8
EPA150.1	pH	UNIT	7.5	7.4	7.5	7.2	7.4
EPA375.4	SULFATE	mg/l	552	768	815	597	764
EPA376.1	SULFIDE	mg/l	<0.1	<0.1	<0.1	<0.1	<0.1
EPA160.1	TDS	mg/l	6920	12000	12400	8790	11400
EPA351.3	TKN	mg/l	1.7	6.8	4.5	7.7	5.1
EPA365.1	TOTAL PHOSPOROUS	mg/l	1.05	0.89	0.48	0.7	0.48
EPA415.2	TOC	mg/l	16	17	17		2

*Blank entries indicate that sample was not analyzed for that analyte group

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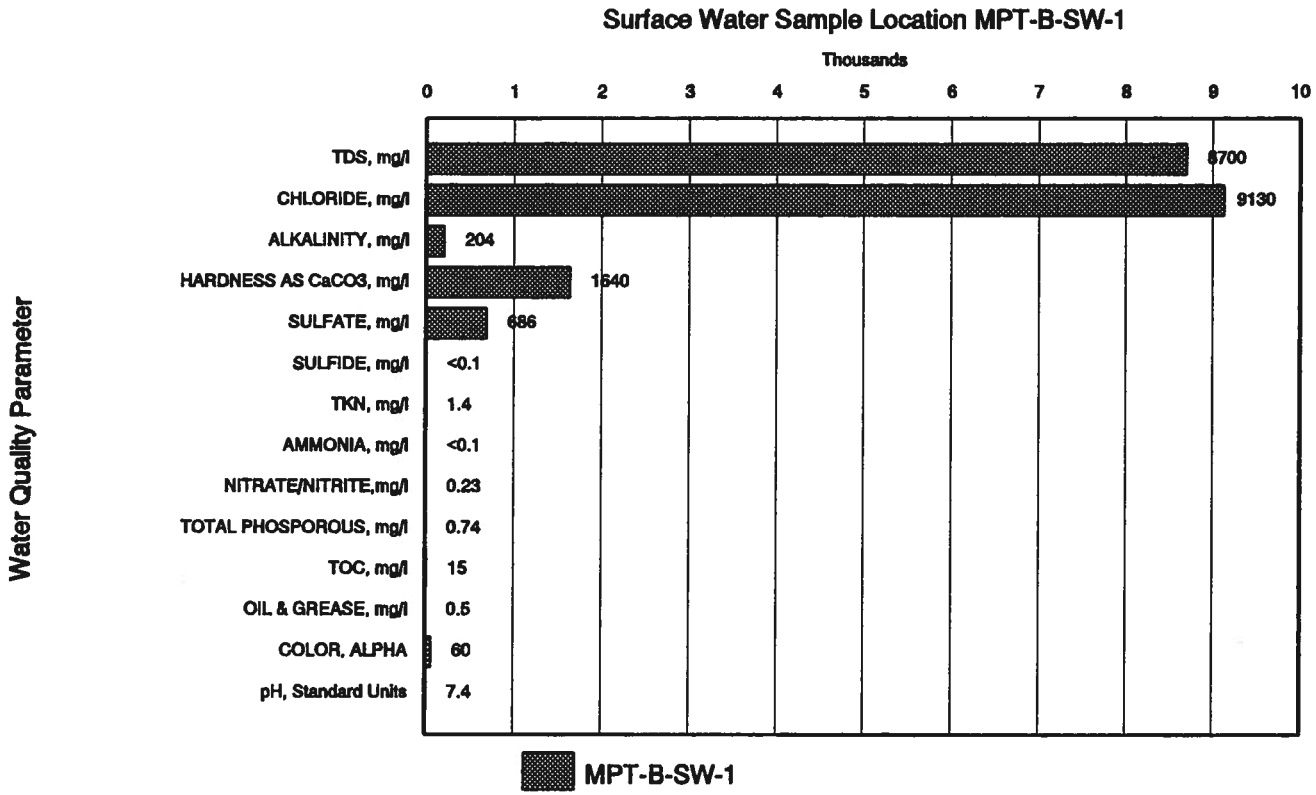

FIGURE D-1
GENERAL SURFACE WATER QUALITY AT SAMPLE LOCATION MPT-B-SW-1 (BACKGROUND SAMPLE)

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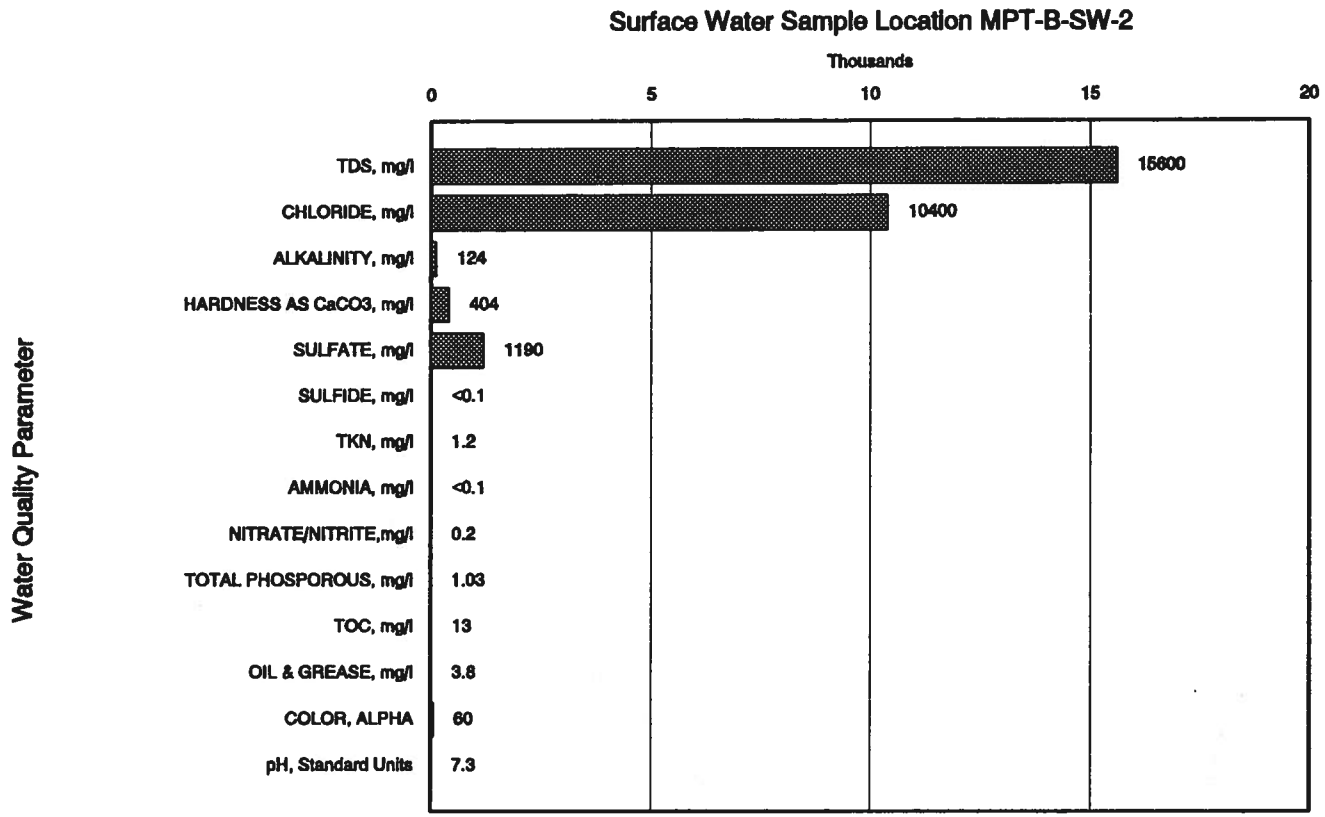

FIGURE D-2
GENERAL SURFACE WATER QUALITY AT SAMPLE LOCATION MPT-B-SW-2 (BACKGROUND SAMPLE)

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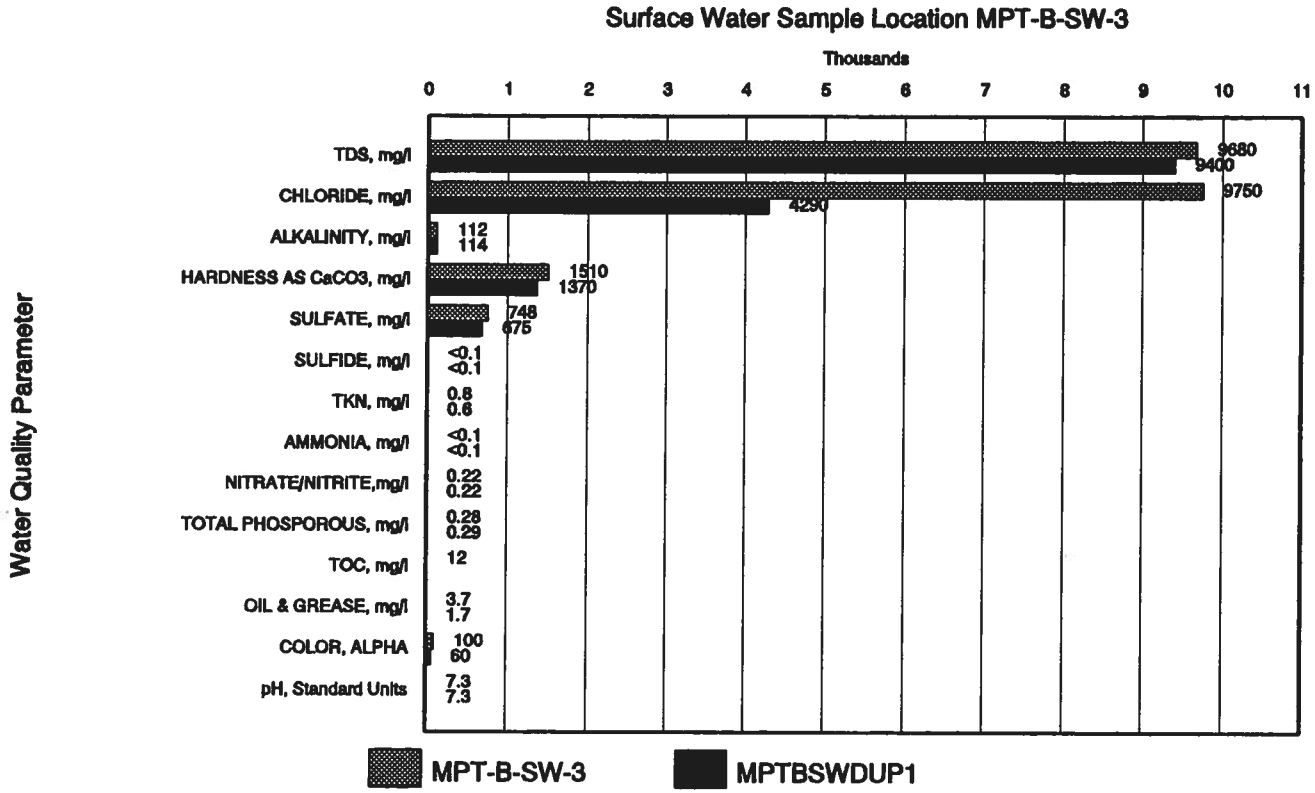

FIGURE D-3
GENERAL SURFACE WATER QUALITY AT SAMPLE LOCATIONS MPT-B-SW-3 AND MPT-B-SW-DUP1 (BACKGROUND SAMPLE AND DUPLICATE SAMPLE)

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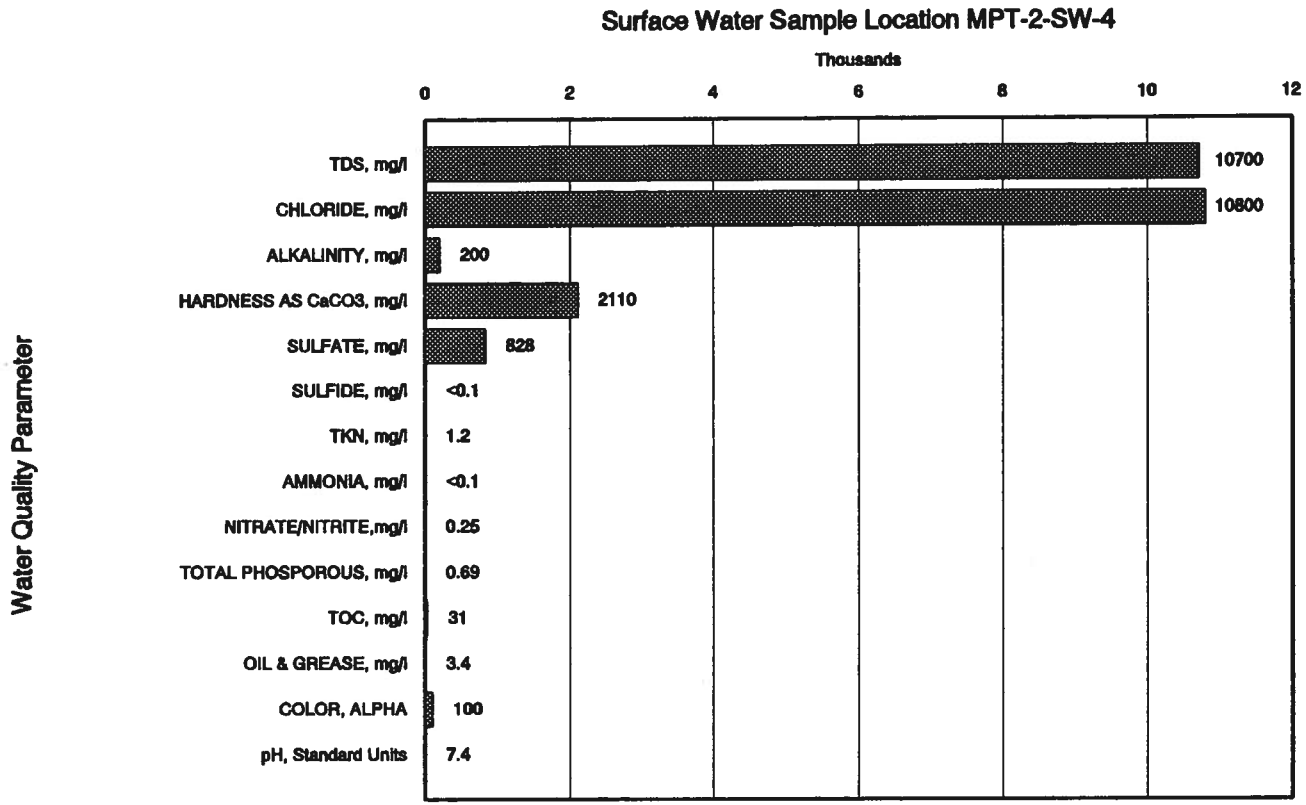

FIGURE D-4
GENERAL SURFACE WATER QUALITY
AT SAMPLE LOCATION MPT-2-SW-4

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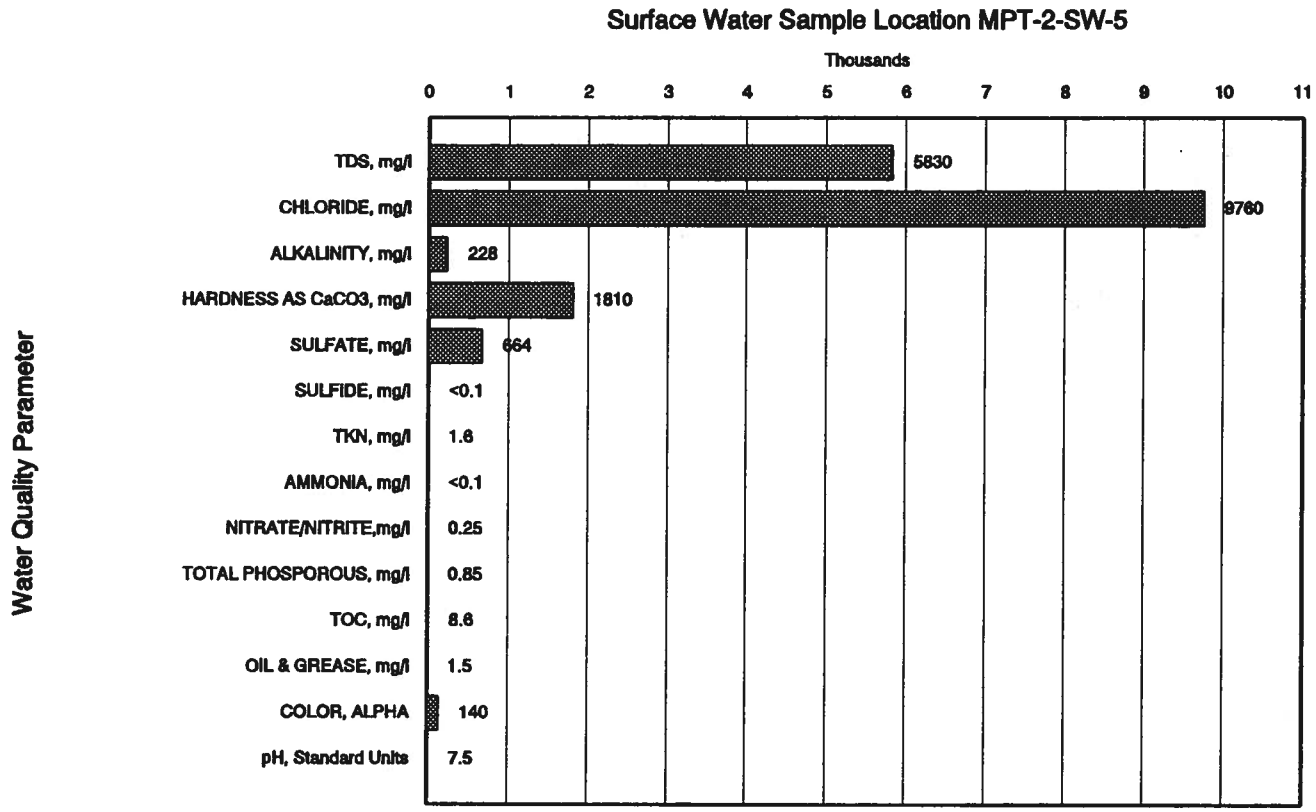

FIGURE D-5
GENERAL SURFACE WATER QUALITY
AT SAMPLE LOCATION MPT-2-SW-5

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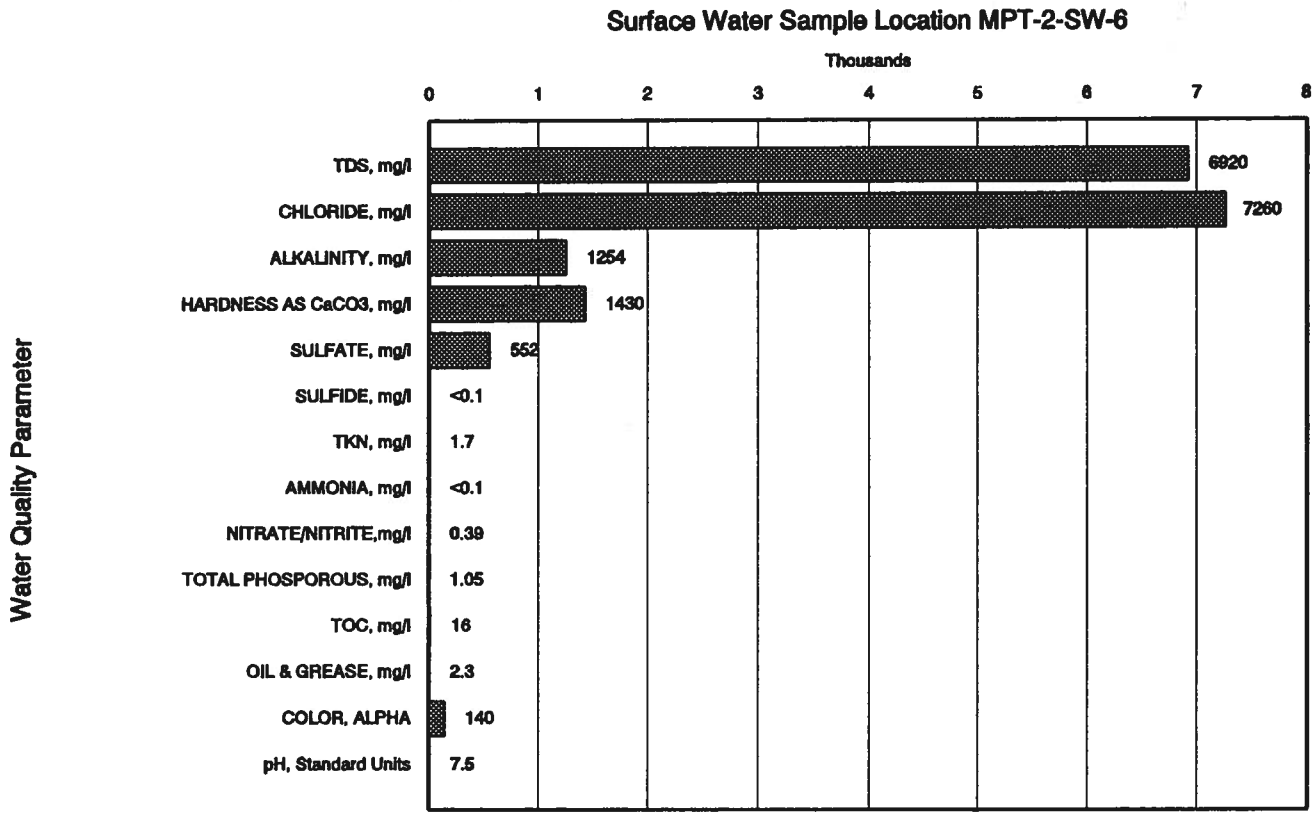

FIGURE D-6
GENERAL SURFACE WATER QUALITY
AT SAMPLE LOCATION MPT-2-SW-6

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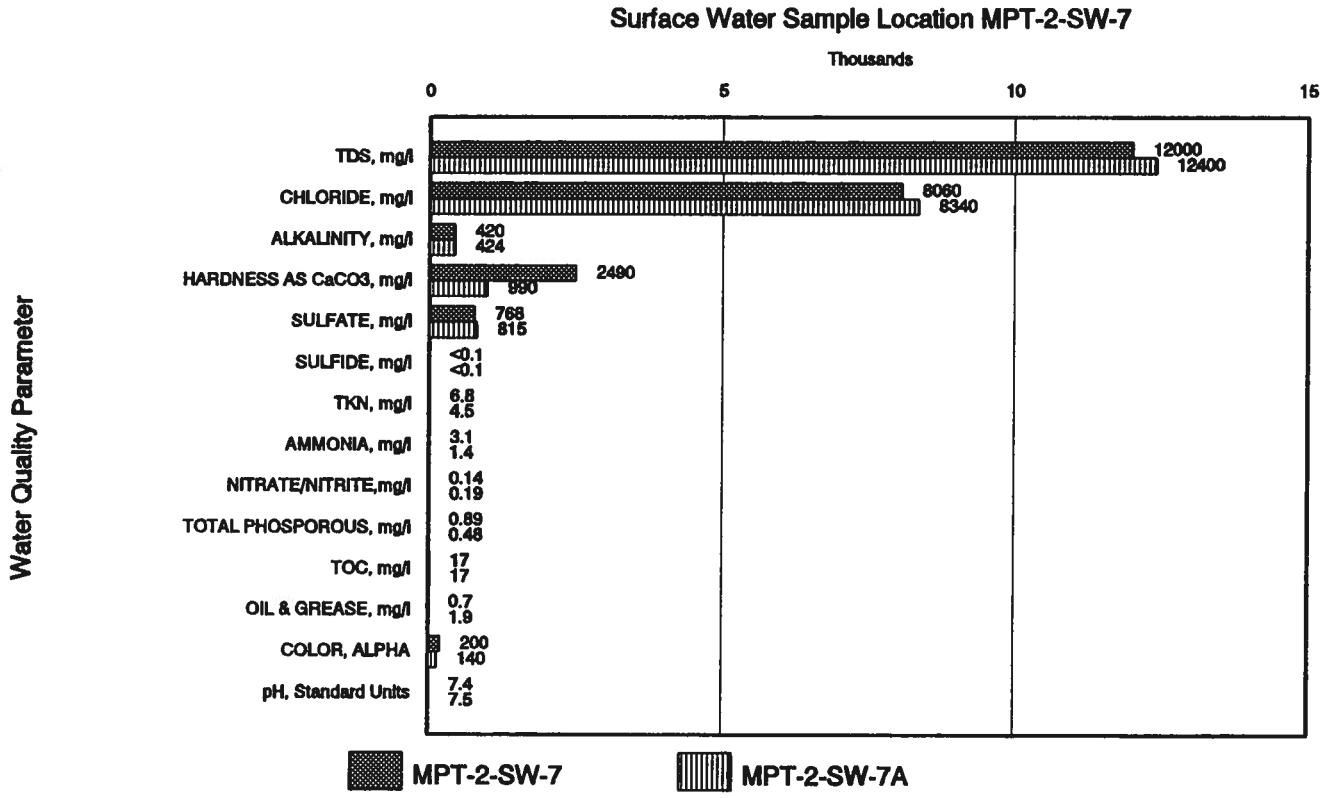

FIGURE D-7
GENERAL SURFACE WATER QUALITY AT SAMPLE LOCATION MPT-B-SW-7

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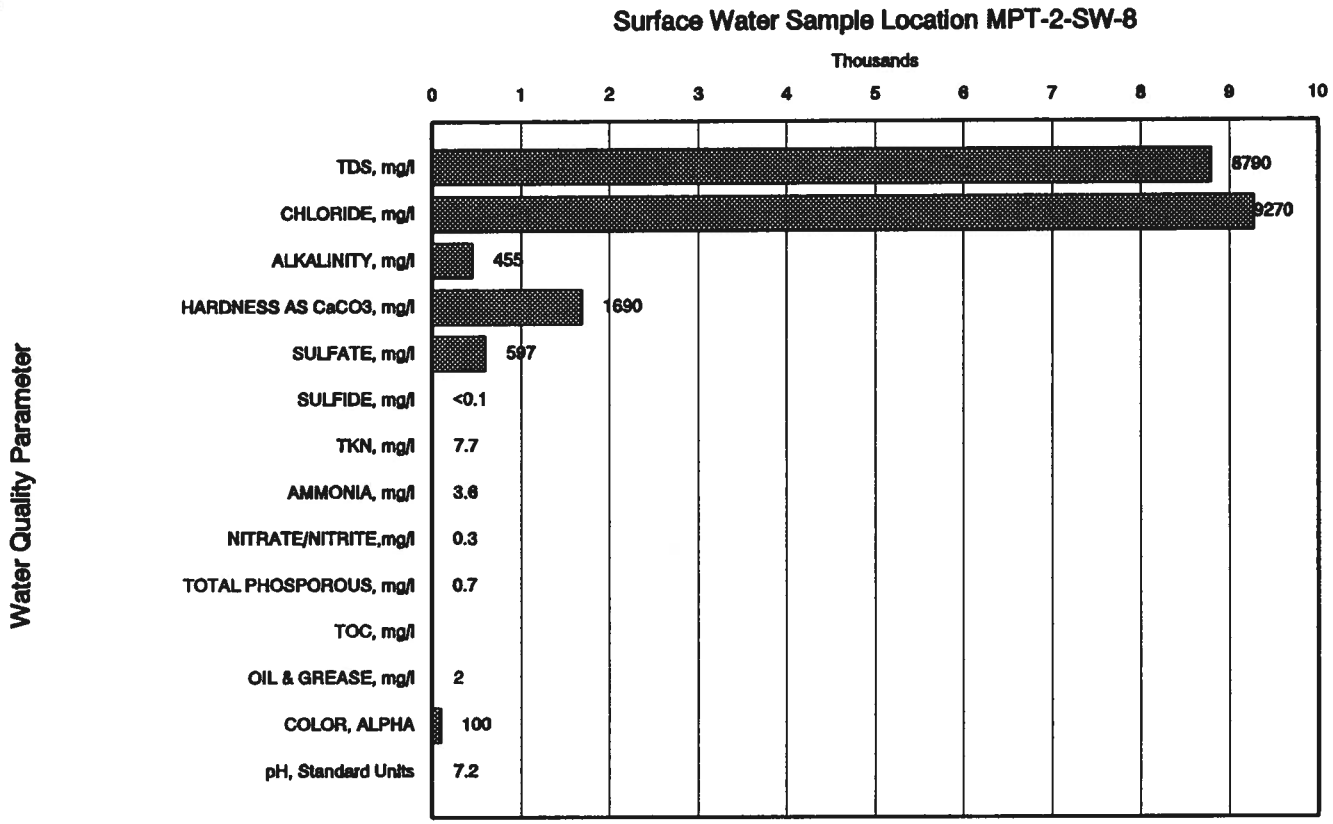

FIGURE D-8
GENERAL SURFACE WATER QUALITY
AT SAMPLE LOCATION MPT-2-SW-8

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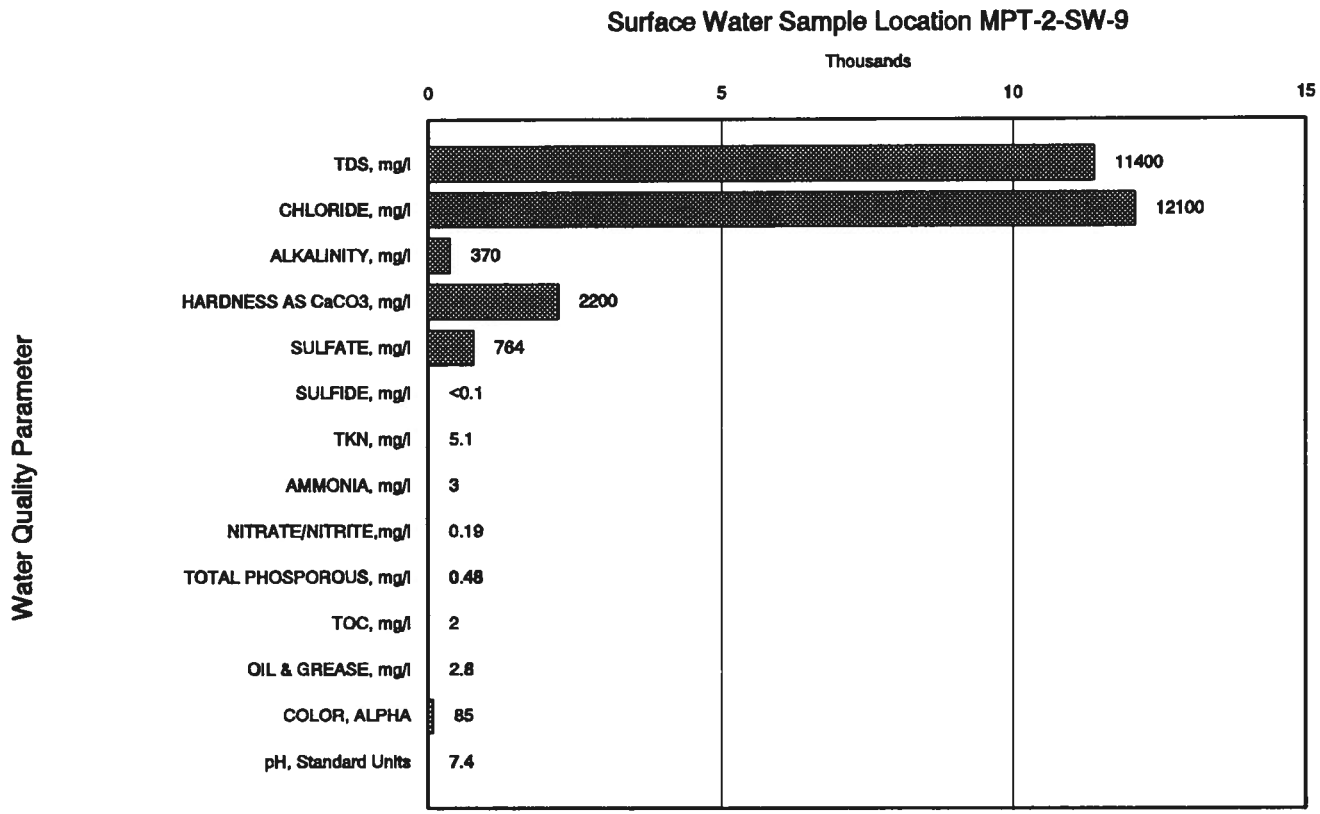

FIGURE D-9
GENERAL SURFACE WATER QUALITY
AT SAMPLE LOCATION MPT-2-SW-9

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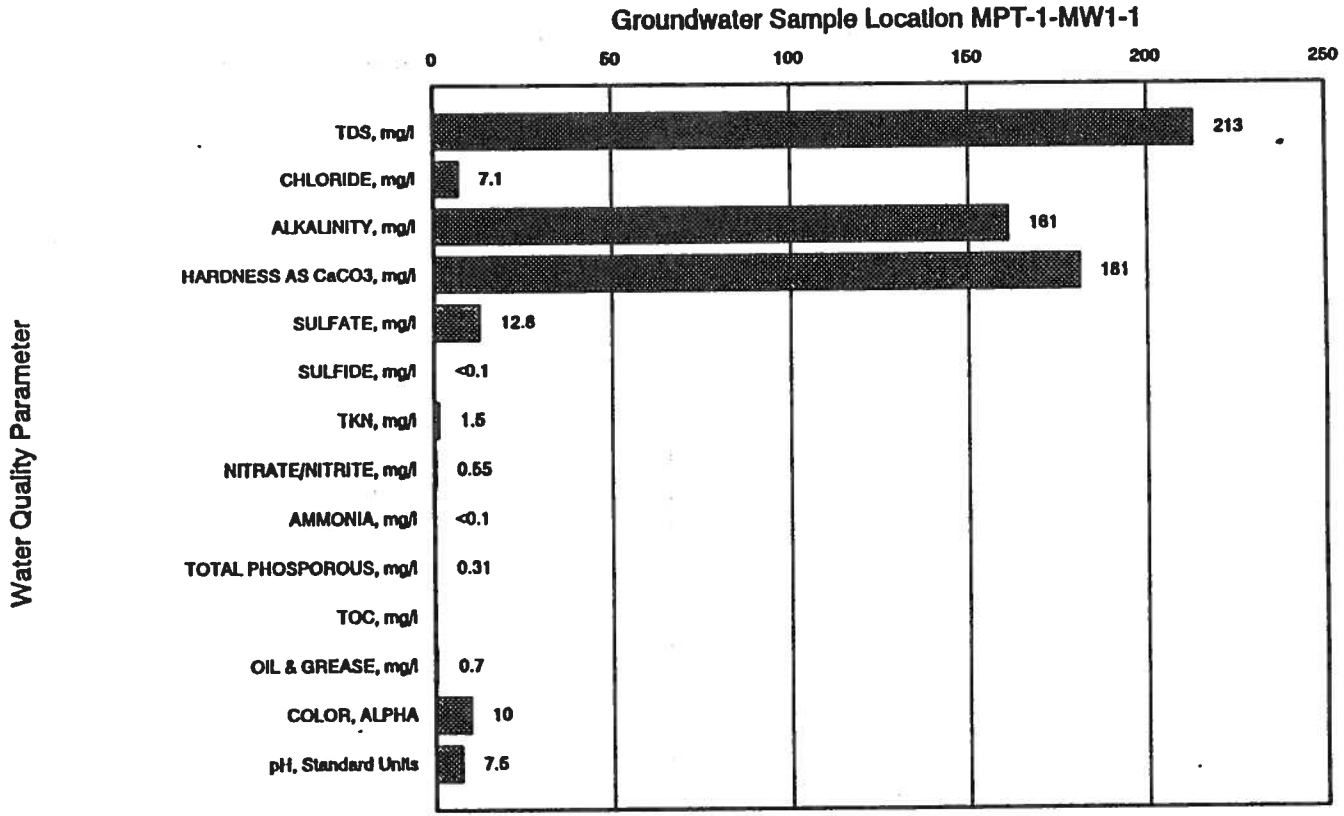

FIGURE D-10
GENERAL WATER QUALITY DATA FROM BACKGROUND MONITORING WELL MPT-1-MW1

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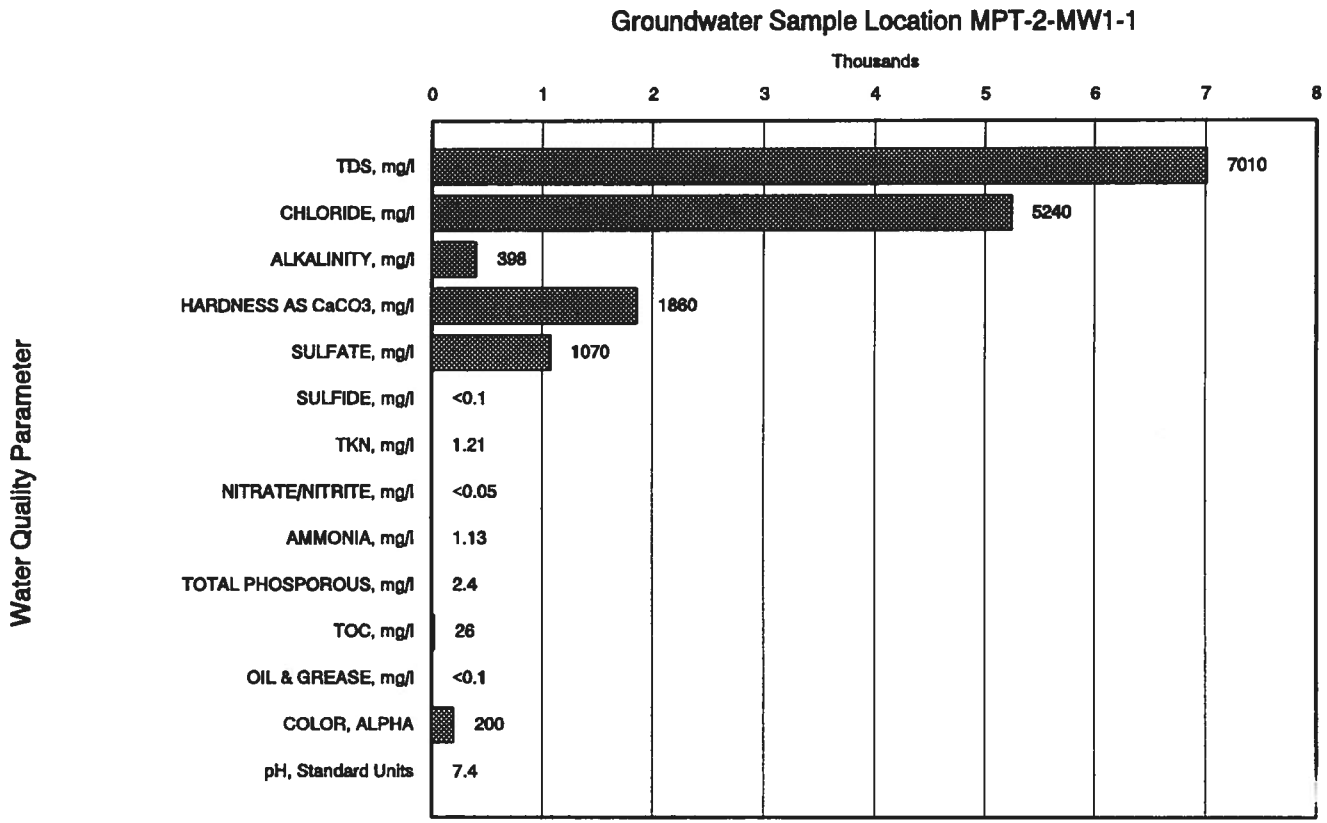

FIGURE D-11
GENERAL WATER QUALITY DATA FROM MONITORING WELL MPT-2-MW1

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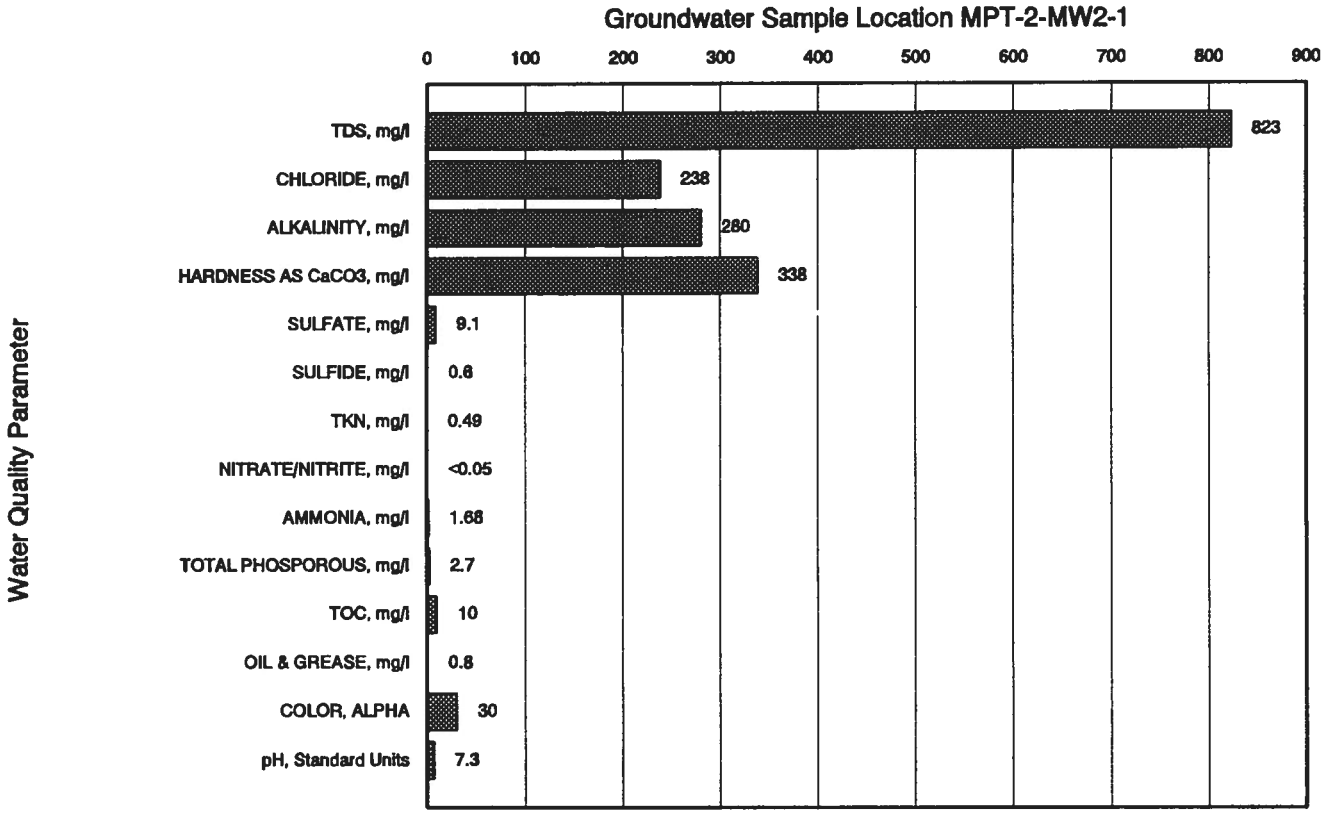

FIGURE D-12
GENERAL WATER QUALITY DATA FROM MONITORING WELL MPT-2-MW2

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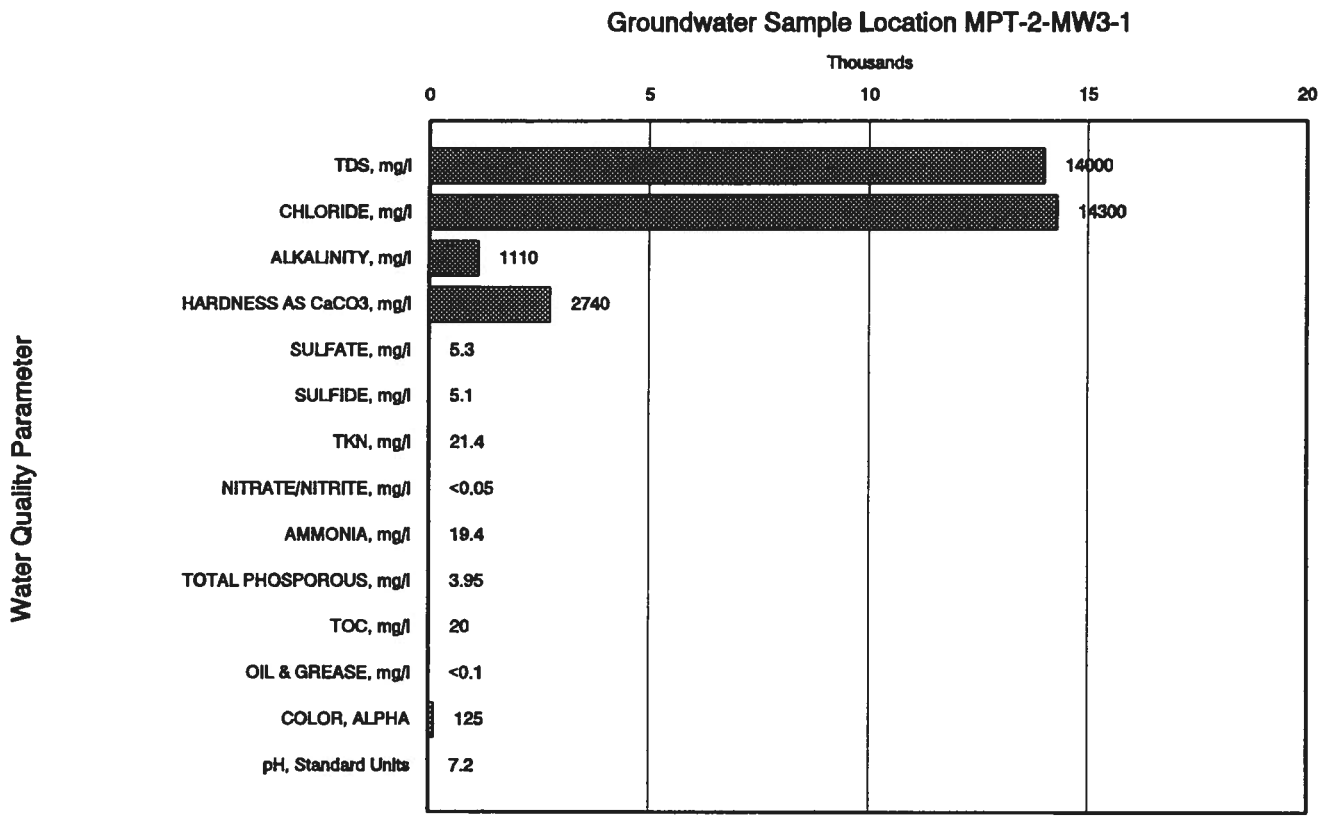

FIGURE D-13
GENERAL WATER QUALITY DATA FROM MONITORING WELL MPT-2-MW3

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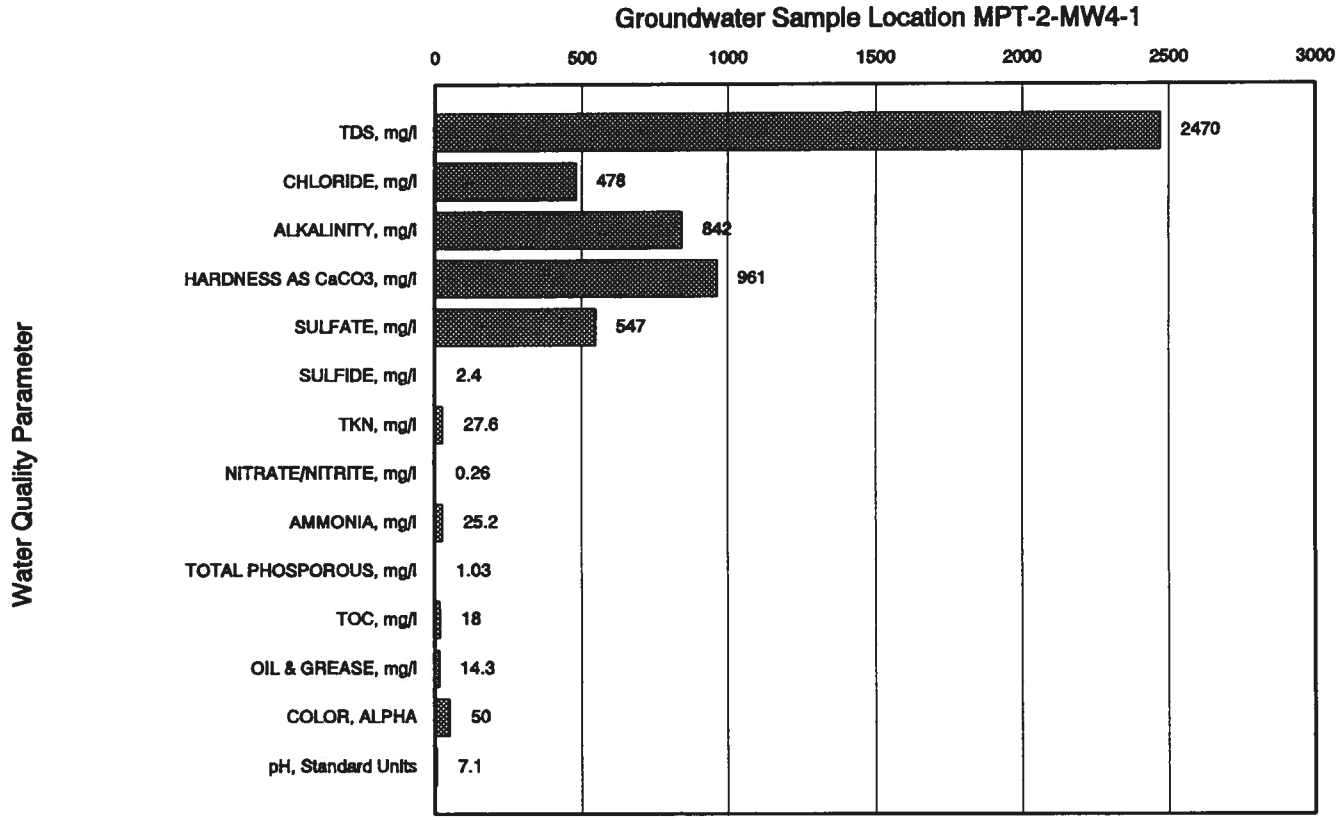

FIGURE D-14
GENERAL WATER QUALITY DATA FROM MONITORING WELL MPT-2-MW4

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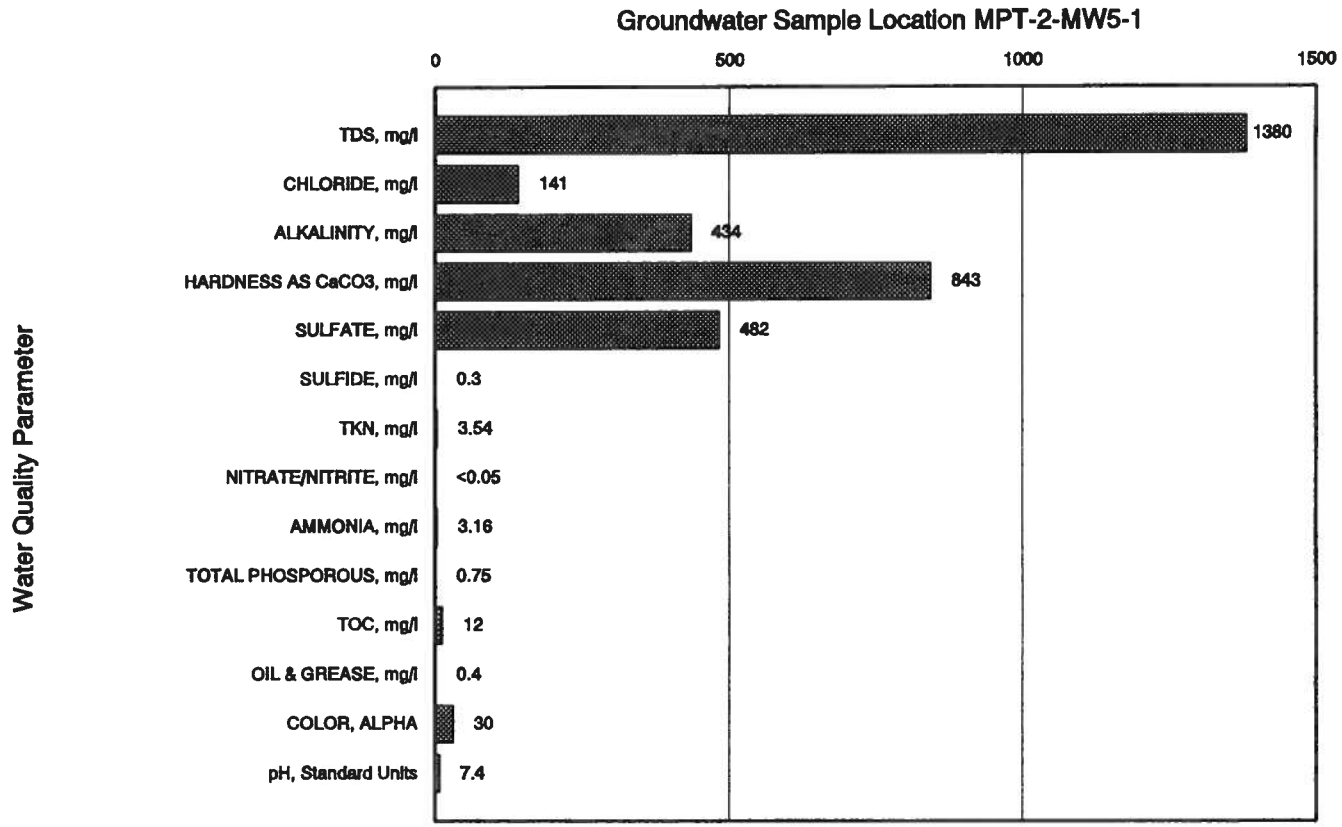

FIGURE D-15
GENERAL WATER QUALITY DATA FROM MONITORING WELL MPT-2-MW5

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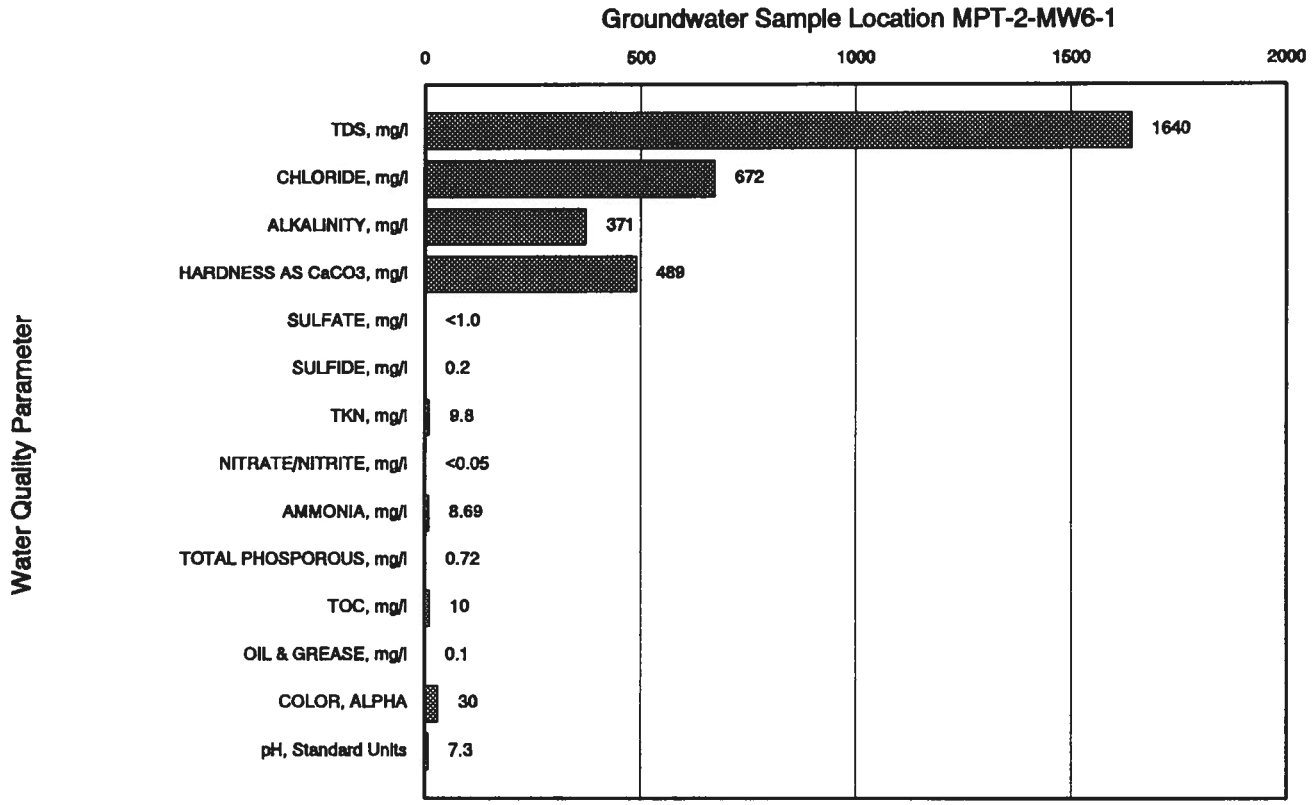

FIGURE D-16
GENERAL WATER QUALITY DATA
FROM MONITORING WELL MPT-2-MW6

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Groundwater Sample Location MPT-2-MW7S-1 and MPT-2-MW7D-1

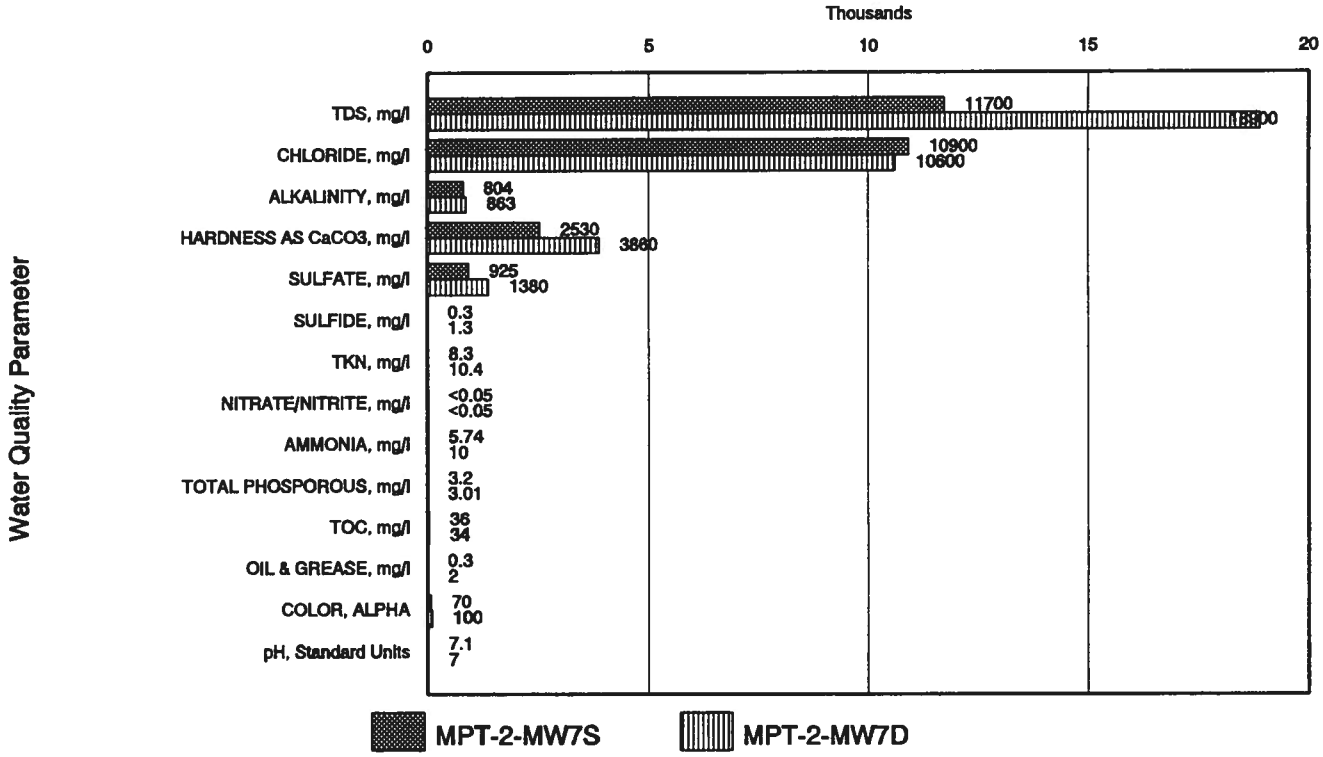

FIGURE D-17
GENERAL WATER QUALITY DATA FROM MONITORING WELLS MPT-2-MW7S AND MPT-2-MW7D

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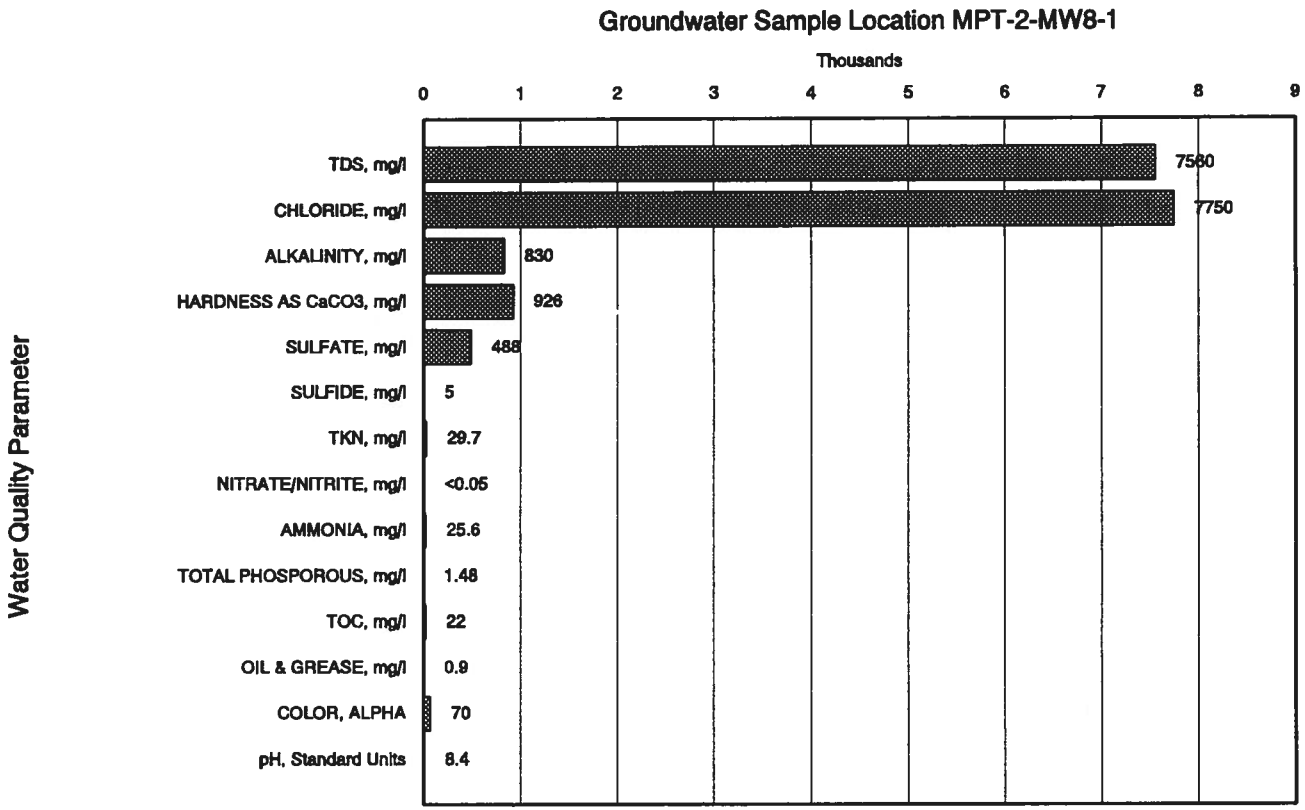

FIGURE D-18
GENERAL WATER QUALITY DATA
FROM MONITORING WELL MPT-2-MW8

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Groundwater Sample Location MPT-2-MW9S-1 and MPT-2-MW9D-1

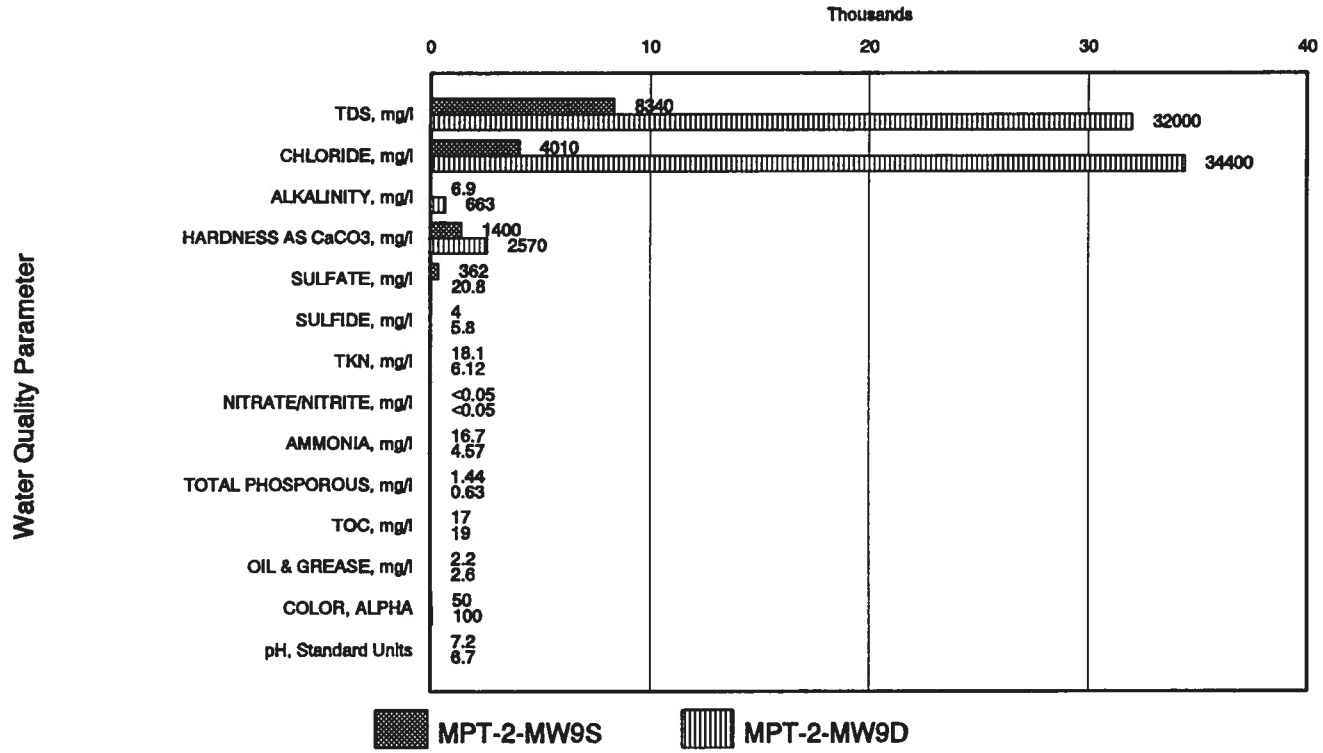

FIGURE D-19
GENERAL WATER QUALITY DATA FROM MONITORING WELLS MPT-2-MW9S AND MPT-2-MW9D

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MAYPORT RCRA FACILITY INVESTIGATION

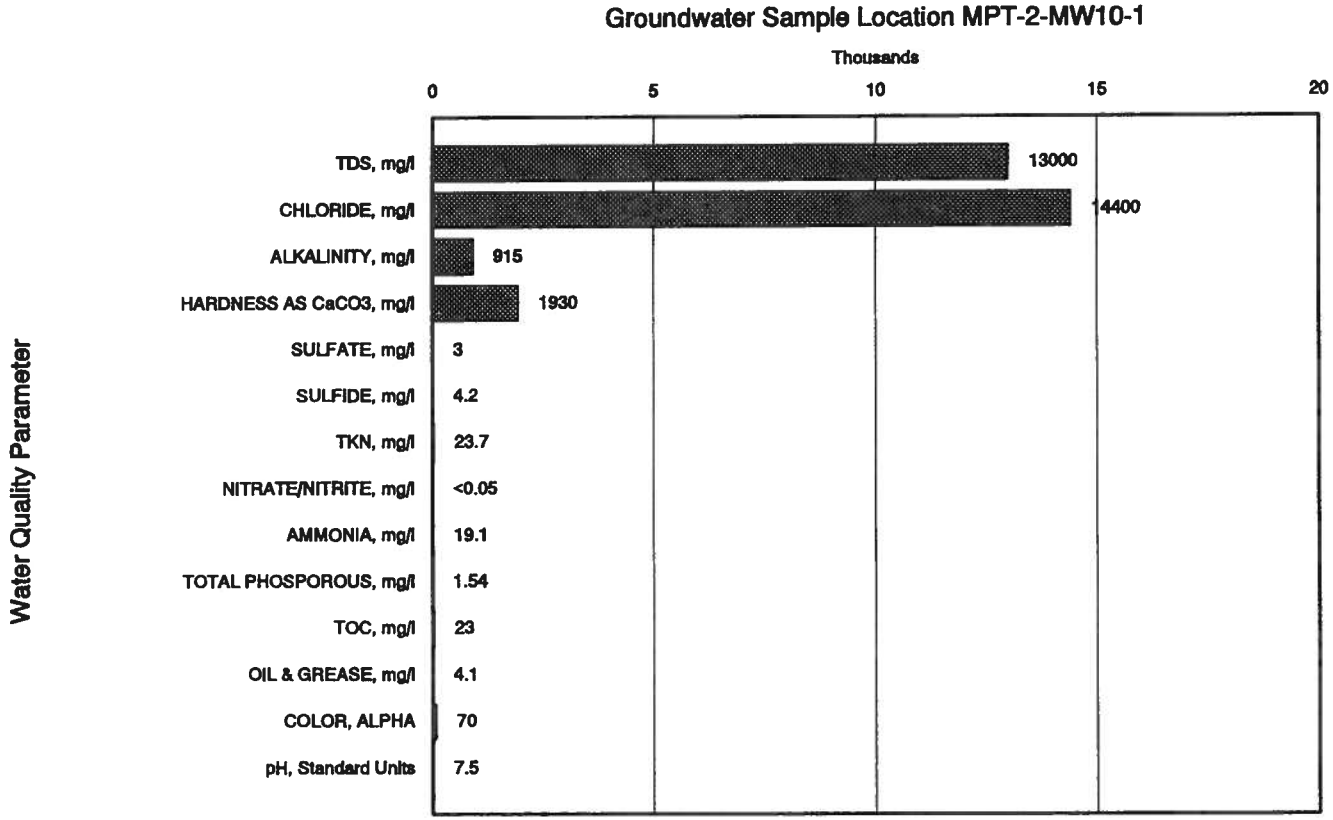

FIGURE D-20
GENERAL WATER QUALITY DATA FROM MONITORING WELL MPT-2-MW10

RCRA FACILITY INVESTIGATION REPORT PHASE I

U.S. NAVAL STATION MAYPORT, FLORIDA

MAYPORT RCRA FACILITY INVESTIGATION

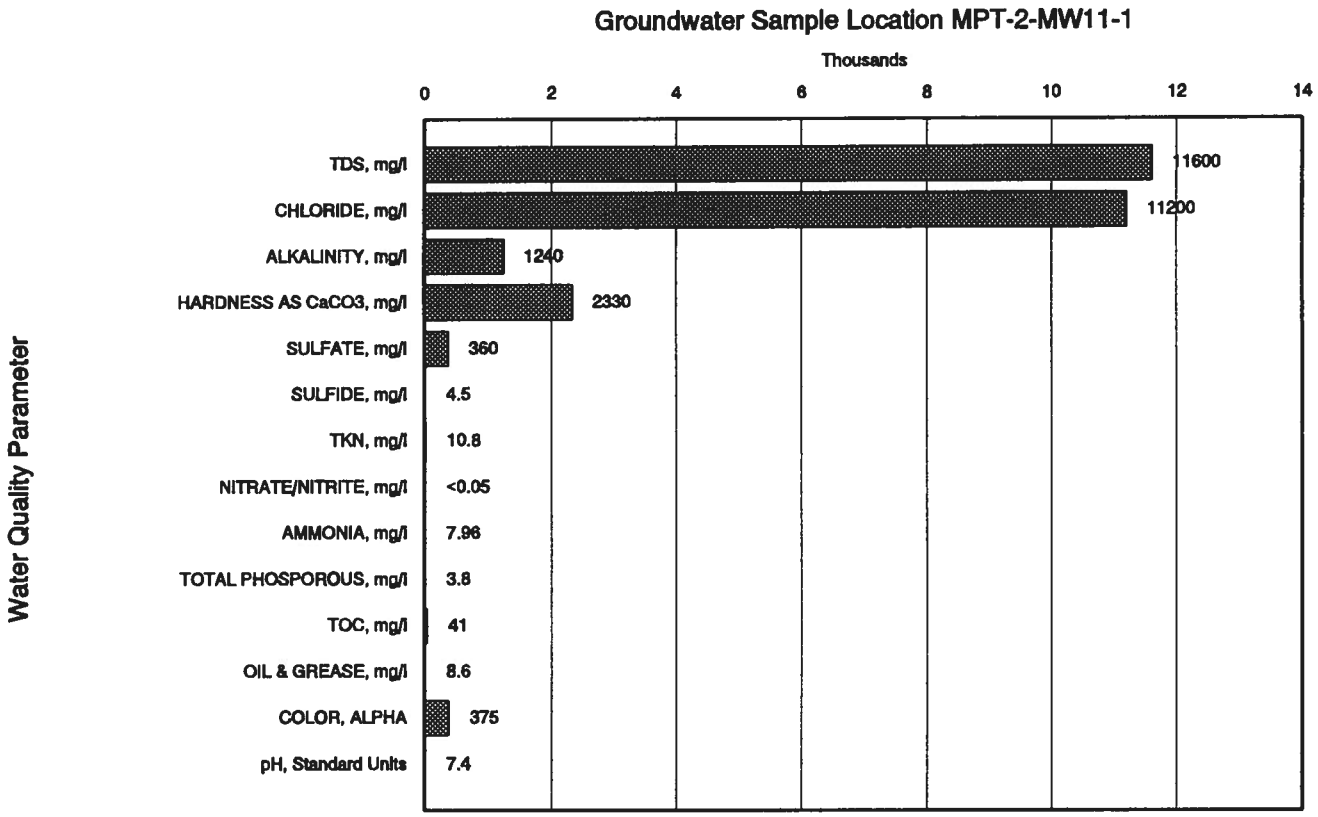

FIGURE D-21
GENERAL WATER QUALITY DATA FROM MONITORING WELL MPT-2-MW11

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U.S. NAVAL STATION MAYPORT, FLORIDA

MAYPORT RCRA FACILITY INVESTIGATION

Groundwater Sample Location MPT-2-MW12S-1 and MPT-2-MW12D-1

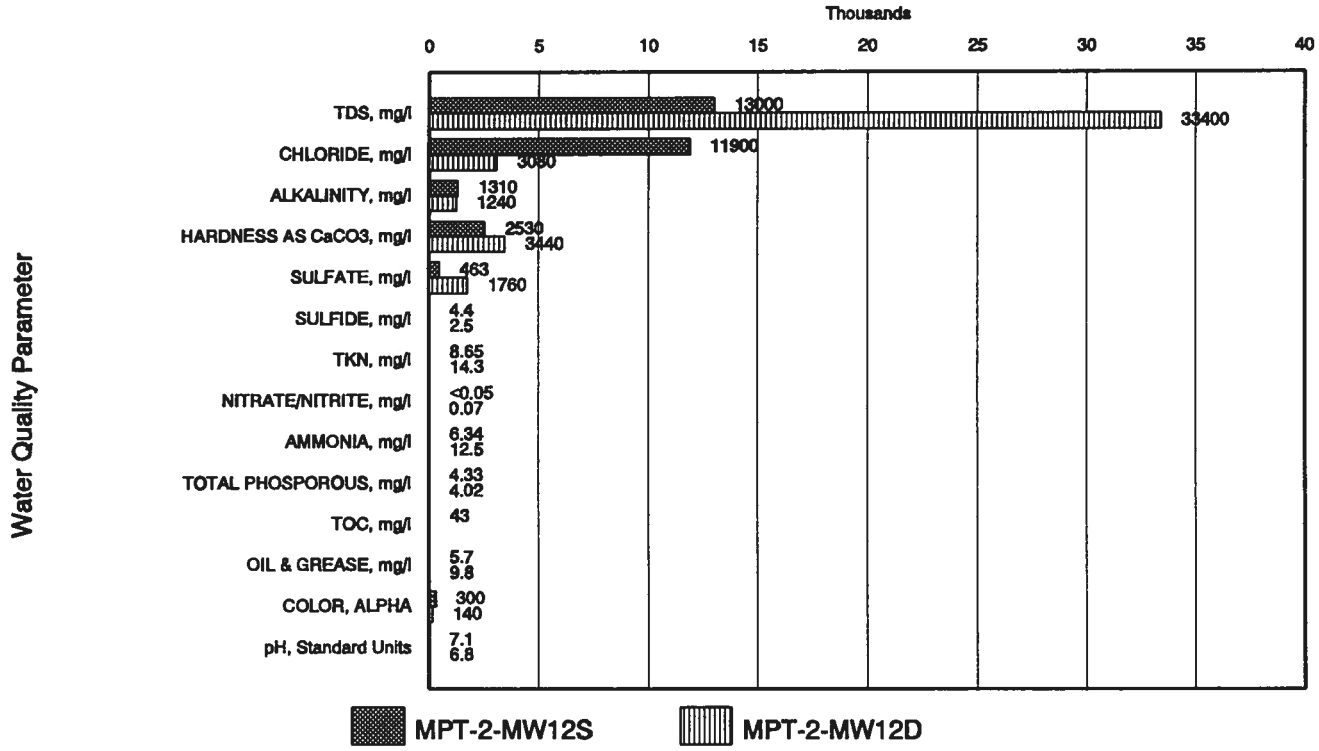

FIGURE D-22
GENERAL WATER QUALITY DATA FROM MONITORING WELLS MPT-2-MW12S AND MPT-2-MW12D

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U.S. NAVAL STATION MAYPORT, FLORIDA

MAYPORT RCRA FACILITY INVESTIGATION

Groundwater Sample Location MPT-2-MW15S-1 and MPT-2-MW15D-1

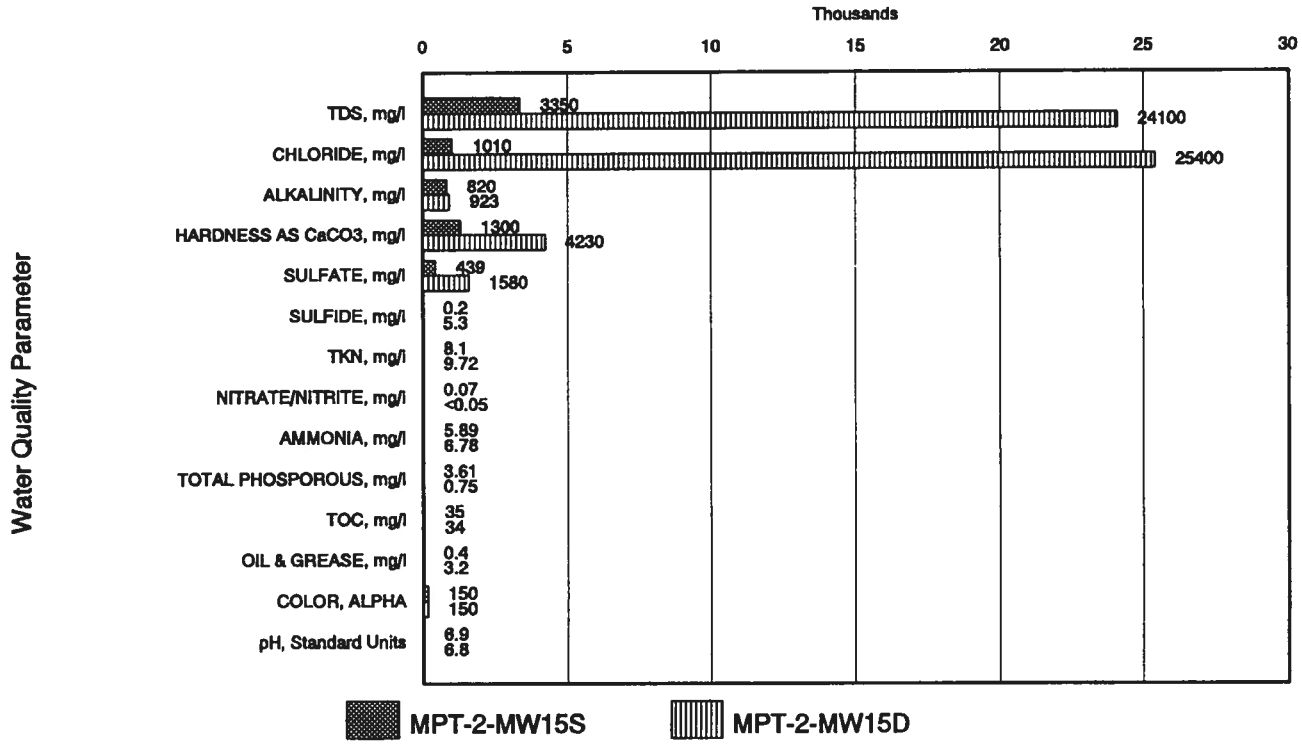

FIGURE D-23
GENERAL WATER QUALITY DATA FROM MONITORING WELLS MPT-2-MW15S AND MPT-2-MW15D

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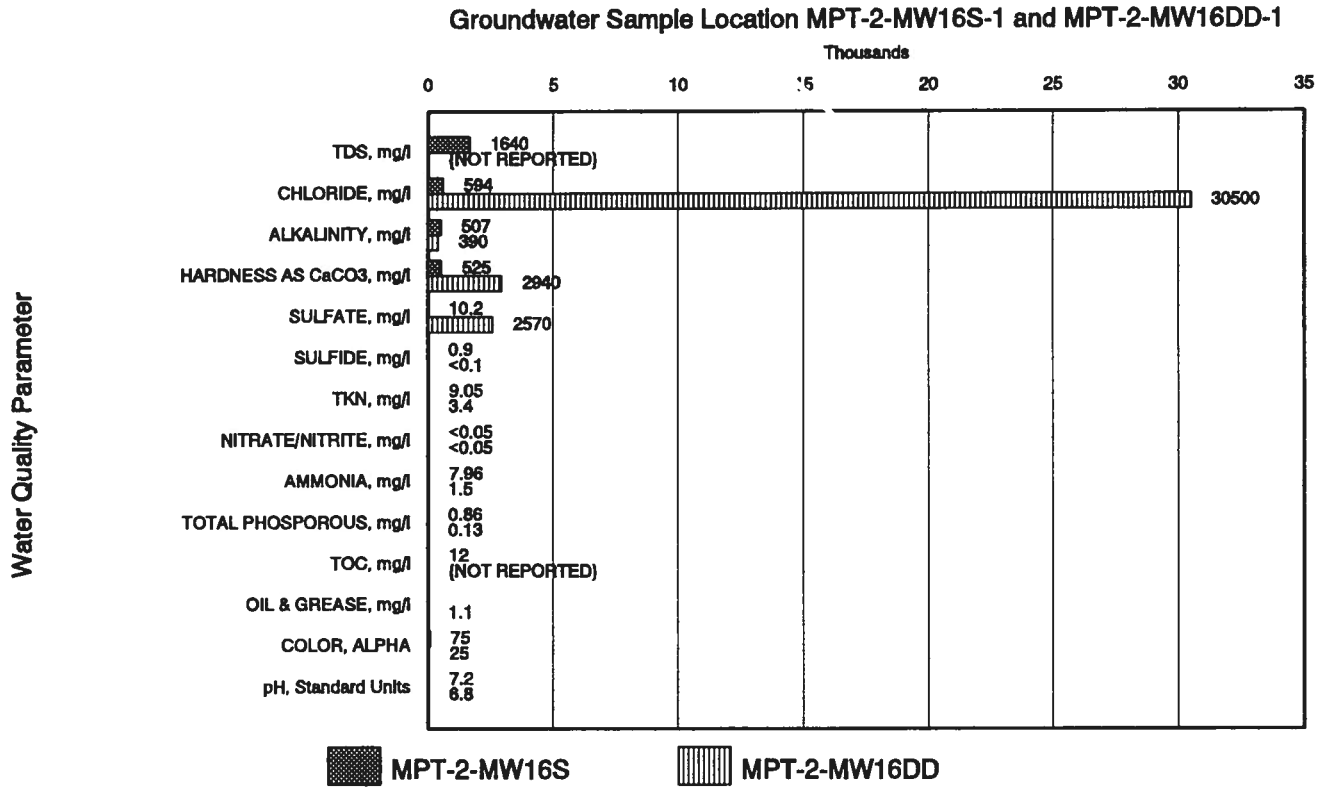

FIGURE D-24
GENERAL WATER QUALITY DATA FROM MONITORING WELLS MPT-2-MW16S AND MPT-2-MW16DD

RCRA FACILITY INVESTIGATION REPORT PHASE I

U.S. NAVAL STATION MAYPORT, FLORIDA

MAYPORT RCRA FACILITY INVESTIGATION

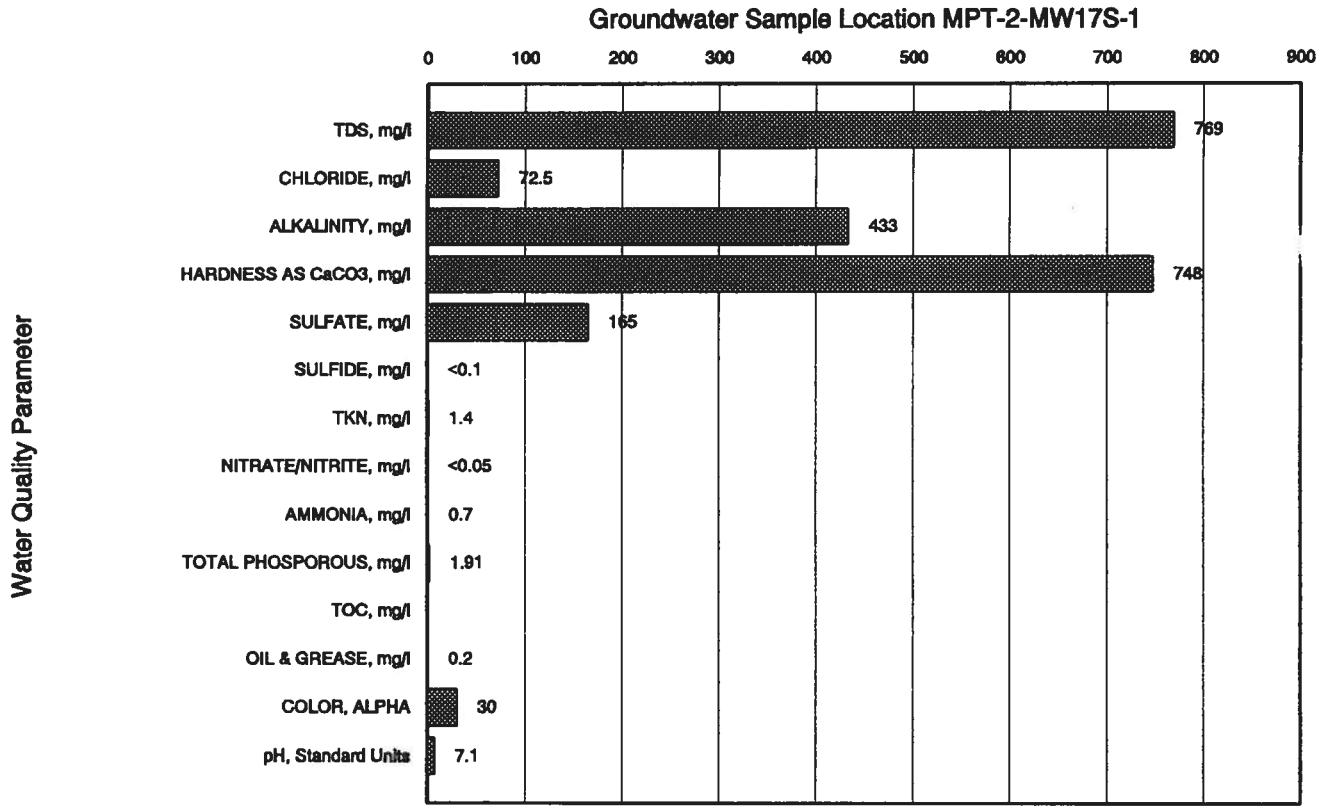

FIGURE D-25
GENERAL WATER QUALITY DATA FROM MONITORING WELL MPT-2-MW17S

RCRA FACILITY INVESTIGATION REPORT PHASE I

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MAYPORT RCRA FACILITY INVESTIGATION

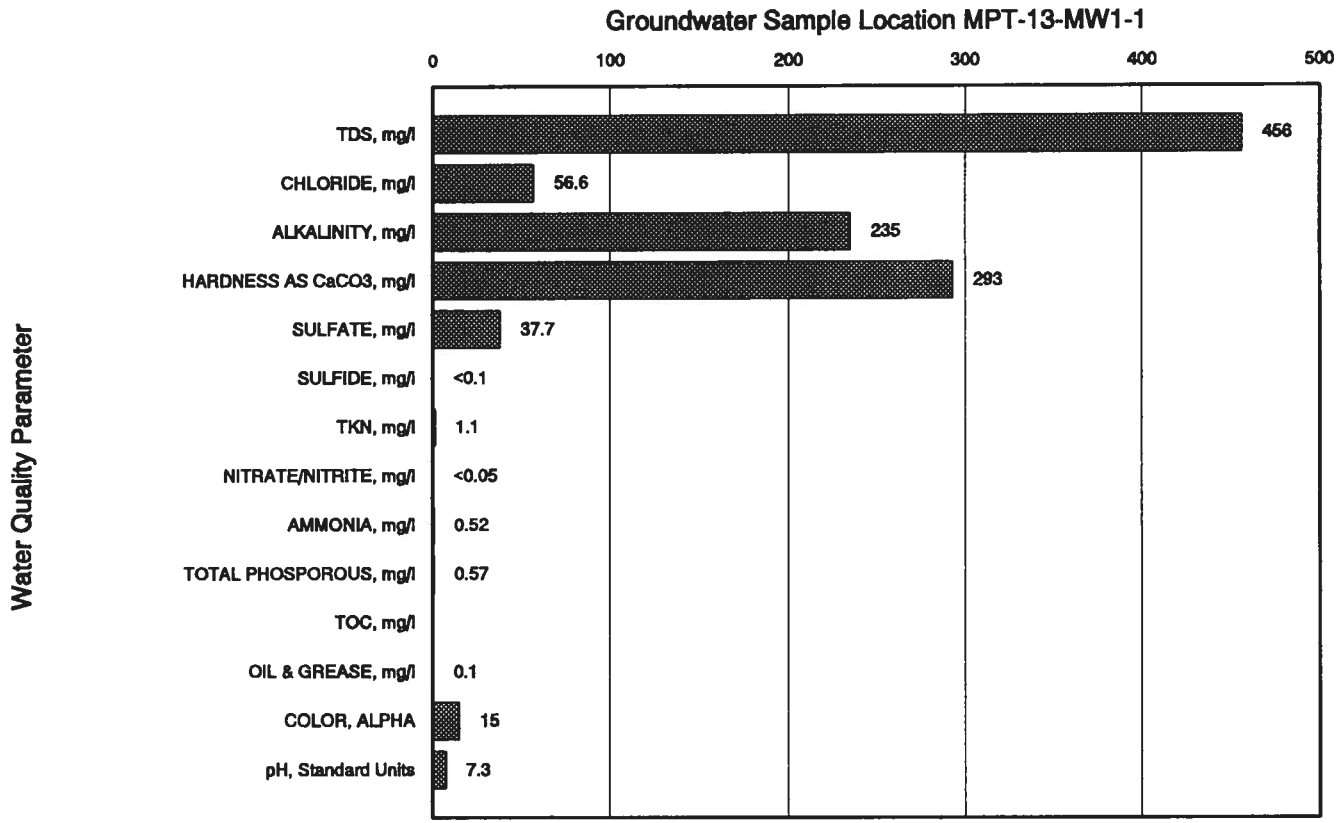

FIGURE D-26
GENERAL WATER QUALITY DATA FROM MONITORING WELL MPT-13-MW1

RCRA FACILITY INVESTIGATION REPORT PHASE I

U.S. NAVAL STATION MAYPORT, FLORIDA

MAYPORT RCRA FACILITY INVESTIGATION

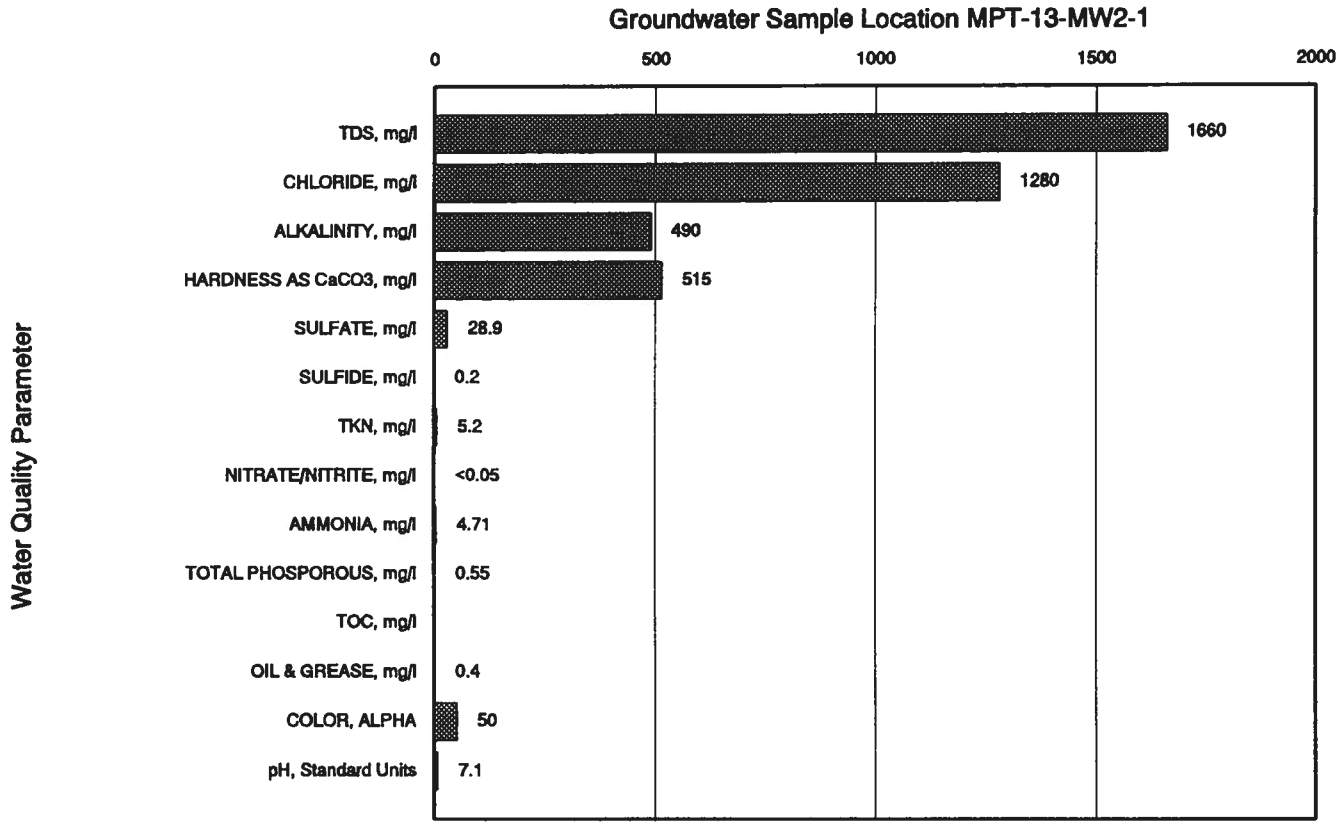

FIGURE D-27
GENERAL WATER QUALITY DATA FROM MONITORING WELL MPT-13-MW2

RCRA FACILITY INVESTIGATION REPORT PHASE I

U.S. NAVAL STATION MAYPORT, FLORIDA

MAYPORT RCRA FACILITY INVESTIGATION

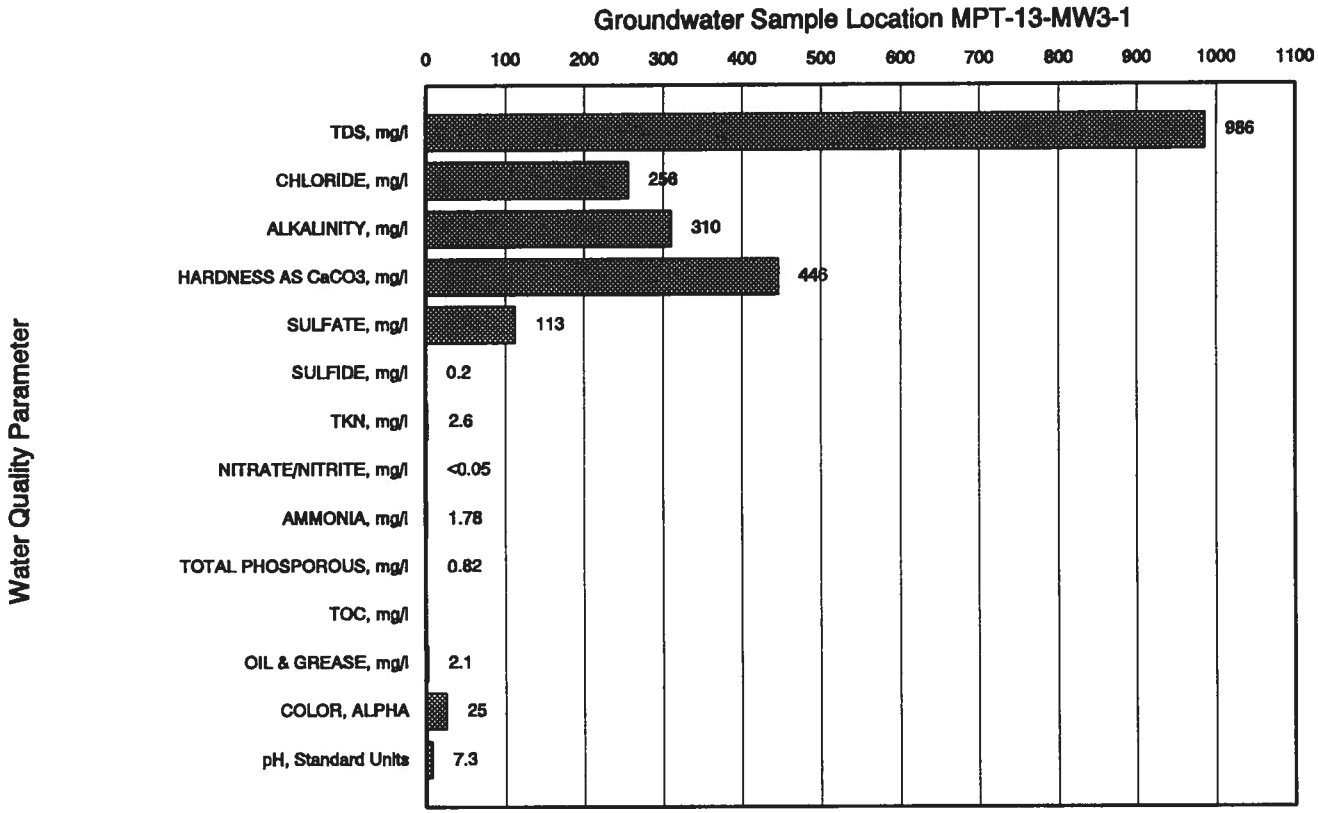

FIGURE D-28
GENERAL WATER QUALITY DATA FROM MONITORING WELL MPT-13-MW3

RCRA FACILITY INVESTIGATION REPORT PHASE I

U.S. NAVAL STATION MAYPORT, FLORIDA

MAYPORT RCRA FACILITY INVESTIGATION

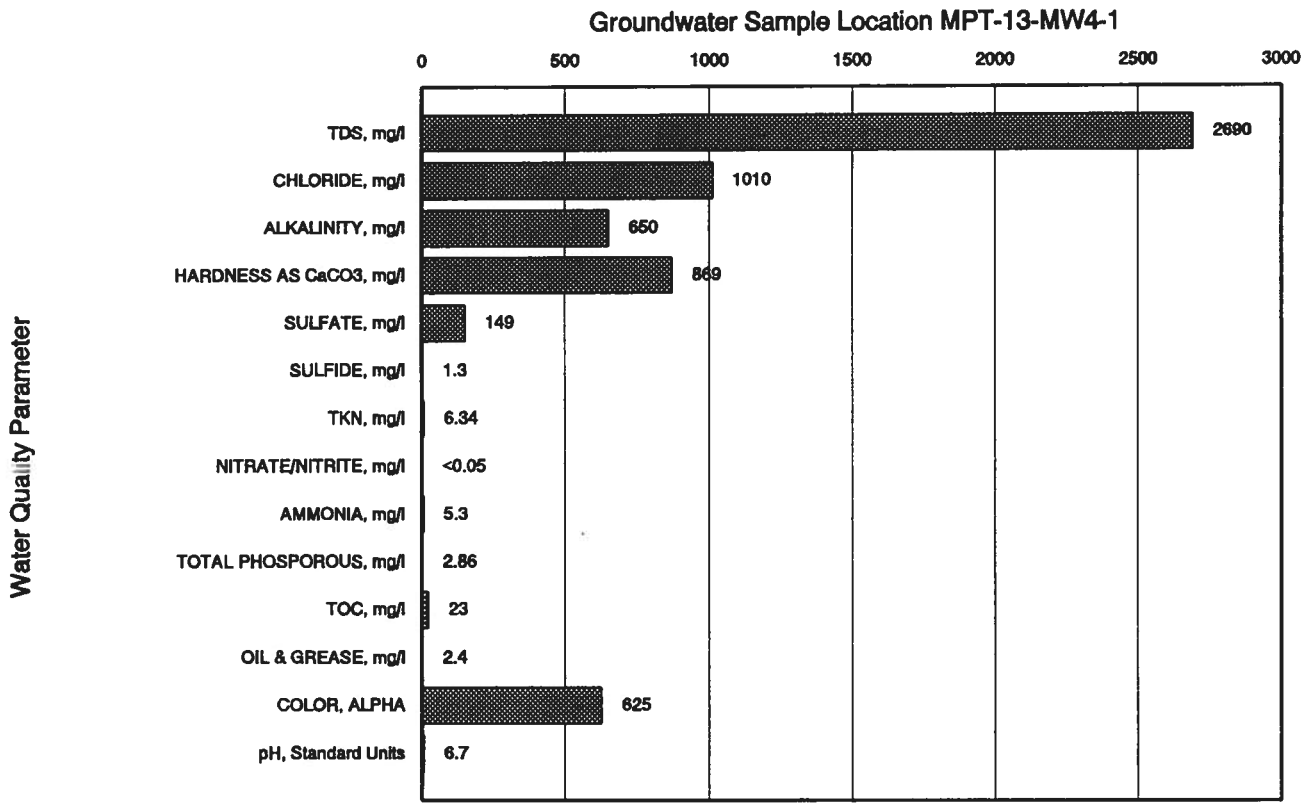

FIGURE D-29
GENERAL WATER QUALITY DATA FROM MONITORING WELL MPT-13-MW4

RCRA FACILITY INVESTIGATION REPORT PHASE I

U.S. NAVAL STATION MAYPORT, FLORIDA

MAYPORT RCRA FACILITY INVESTIGATION

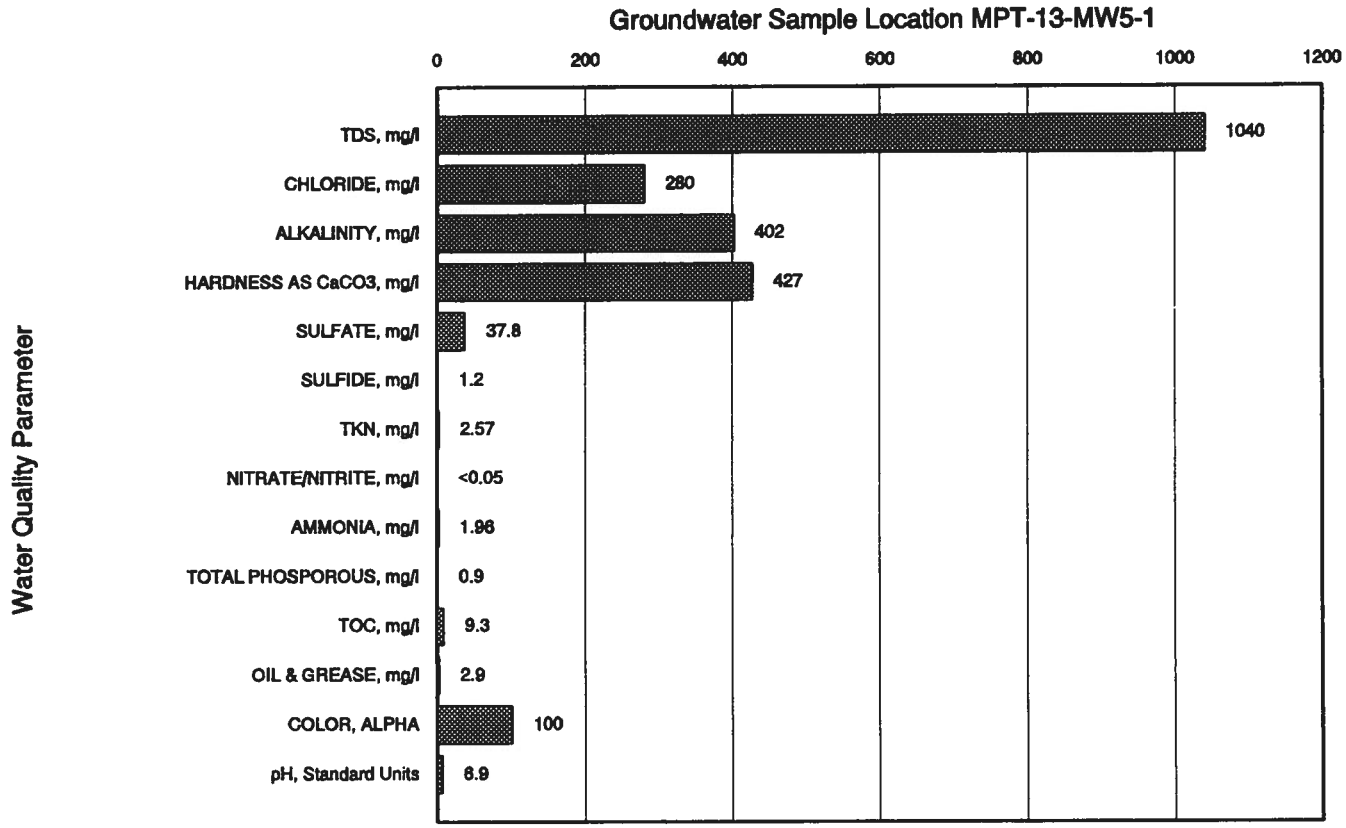

FIGURE D-30
GENERAL WATER QUALITY DATA FROM MONITORING WELL MPT-13-MW5

RCRA FACILITY INVESTIGATION REPORT PHASE I

U.S. NAVAL STATION MAYPORT, FLORIDA

MAYPORT RCRA FACILITY INVESTIGATION

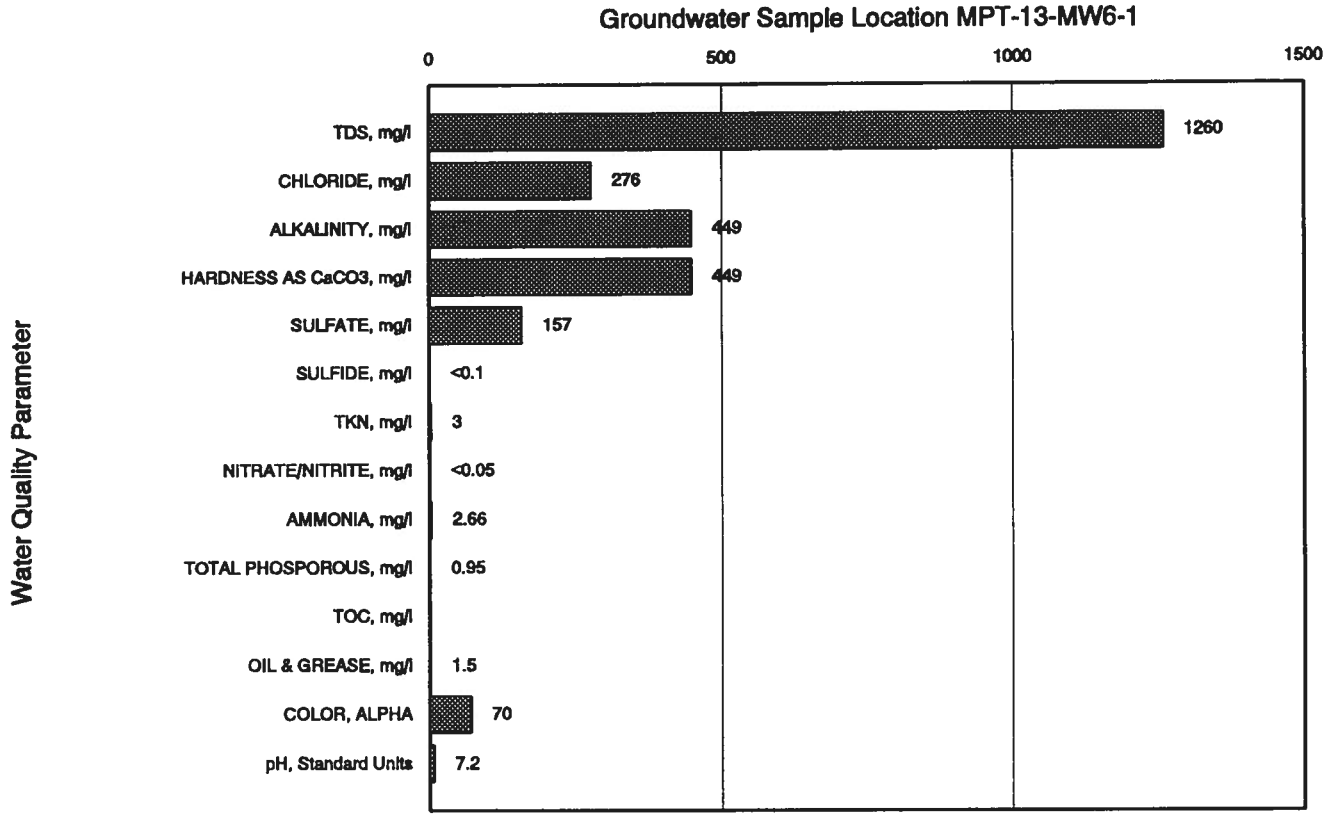

FIGURE D-31
GENERAL WATER QUALITY DATA FROM MONITORING WELL MPT-13-MW6

RCRA FACILITY INVESTIGATION REPORT PHASE I

U.S. NAVAL STATION MAYPORT, FLORIDA

MAYPORT RCRA FACILITY INVESTIGATION

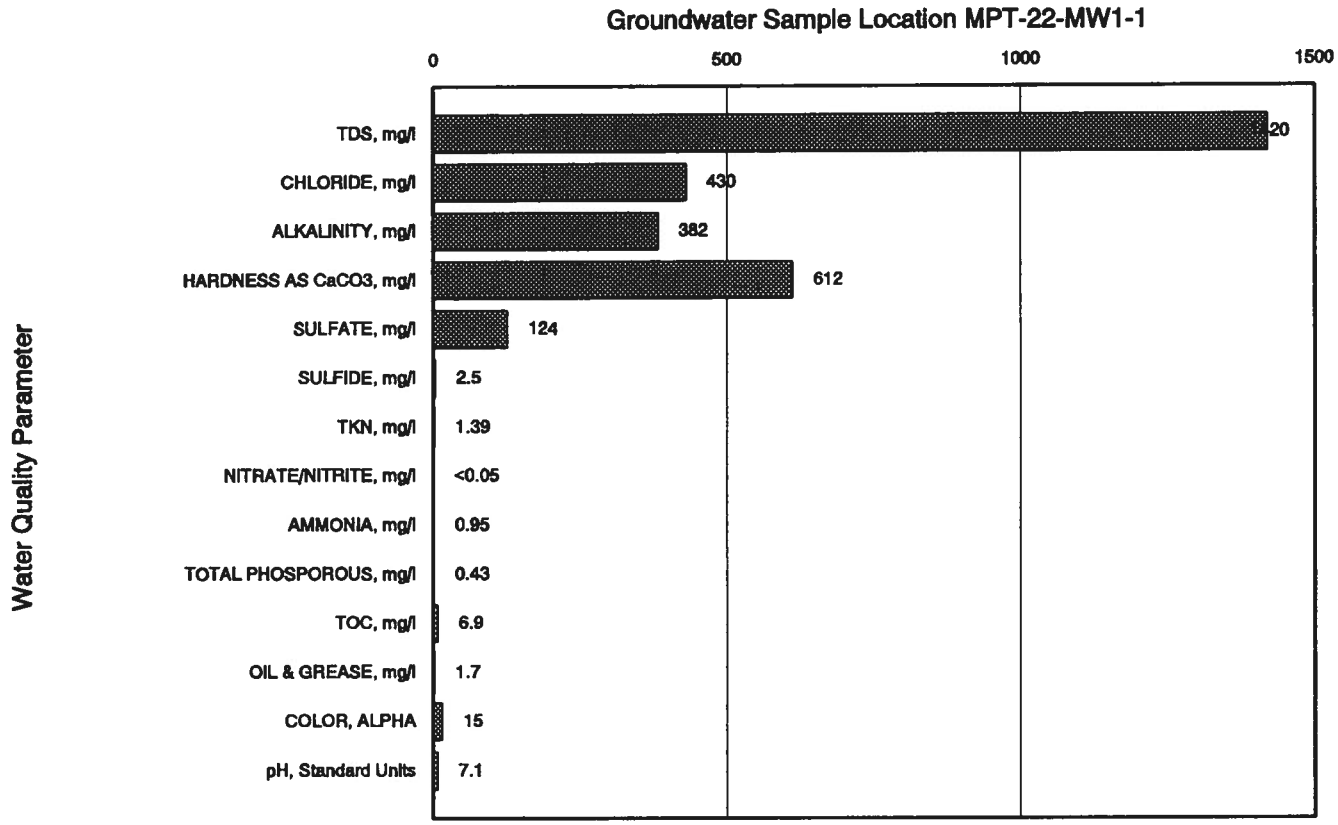

FIGURE D-32
GENERAL WATER QUALITY DATA FROM MONITORING WELL MPT-22-MW1

RCRA FACILITY INVESTIGATION REPORT PHASE I

U.S. NAVAL STATION MAYPORT, FLORIDA

MAYPORT RCRA FACILITY INVESTIGATION

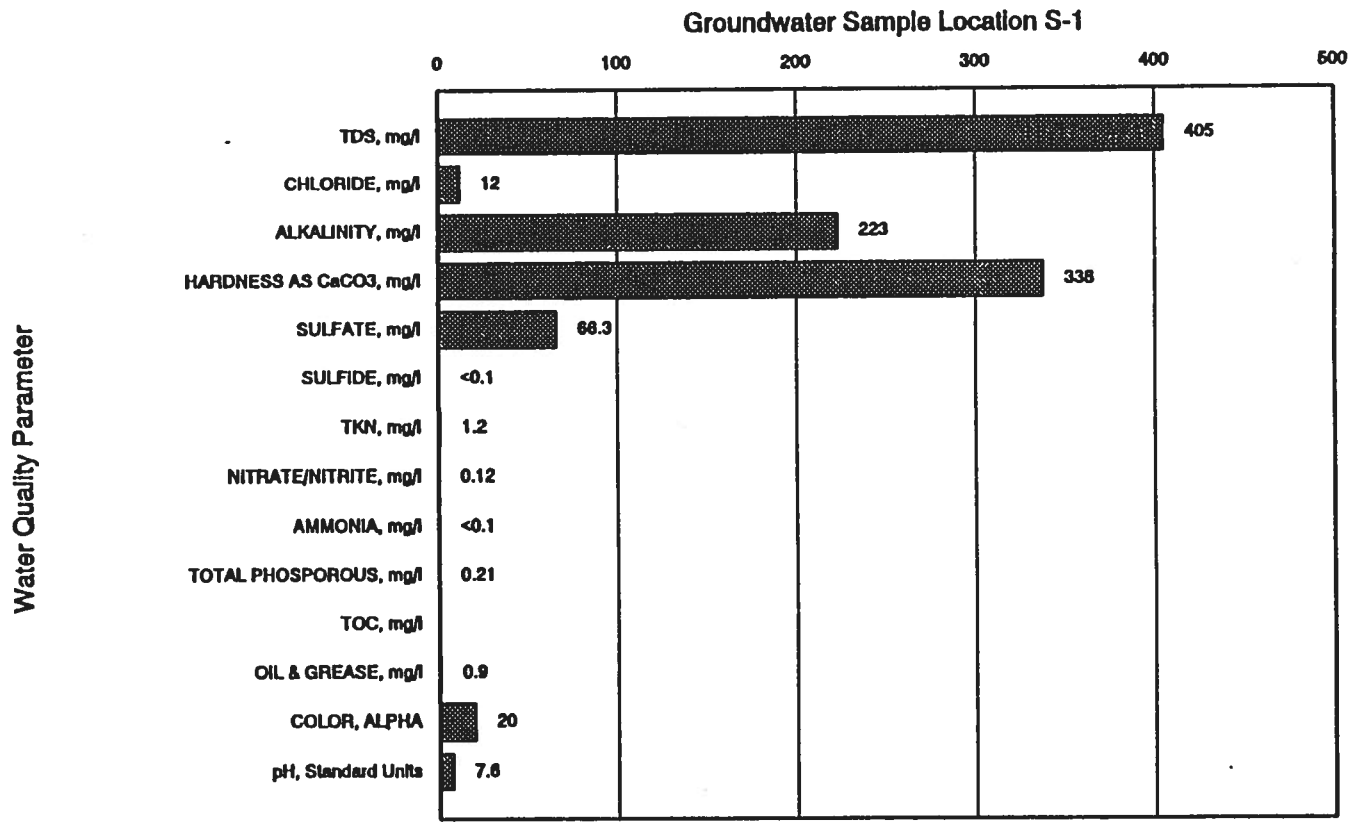

FIGURE D-33
GENERAL WATER QUALITY DATA FROM BACKGROUND MONITORING WELL S-1

RCRA FACILITY INVESTIGATION REPORT PHASE I

U.S. NAVAL STATION MAYPORT, FLORIDA

APPENDIX E

DATA VALIDATION SUMMARY NARRATIVES

DATA ASSESSMENT NARRATIVE

. VOLATILE ORGANICS

The organic findings offered in this screening report assumes that all analytical results are correct as reported and is based upon the examination of the reported holding times, blank analysis results, surrogate and matrix spike recoveries, GC/MS performance, tuning results, calibration results and internal standard areas. This report was prepared in compliance relative to the analytical and deliverable requirements specified in the U.S. EPA CLP, 2/88 SOW; SW-846, Method 8240, the National Functional Guidelines for Organic Data Review, and NEESA Level C. All comments made within this report should be considered when examining the analytical results (Form I's).

Case # 20722

System Performance and Overall Assessment

The overall system performance was fair. The laboratory deviated from the methodology in the analyses of the this SDG, which resulted in qualification of the data. In addition, it must be noted that a NEESA Level C data package does not provide the data validator with all of the necessary supporting documentation to investigate the data thoroughly for errors.

Contractual Non Compliance

Heartland ESI observed several instances of non compliance throughout the data package.

* The laboratory analyzed twelve (12) (see Attachment A) of the twenty-three (23) Appendix IX compounds in a one point continuing calibration mixture analyzed each day before analysis. These twelve (12) compounds did not have an initial calibration associated with this analysis.

* The CRQLs reported by the laboratory for the twelve (12) compounds reflect an initial calibration, not the continuing calibration that was analyzed. Additional information was required to support the CRQLS reported by the laboratory due the lack of an initial calibration. The laboratory provided Heartland ESI with a MDL study performed for these compounds, dated June 5, 1991. The twelve (12) compounds are qualified at the reported CRQL as estimated (J/UJ).

* The laboratory used the blank qualifier flag (B) incorrectly for method blank contamination on the method blank Form 1s.

Contractual Non Compliance (continued)

* The laboratory did not analyze separate calibrations for water and soil analyses **(E-13/VOA, 2.1.1).**

* The laboratory is reporting the wrong method blank ID on the form 4As.

Specific findings:

1. For all of the samples, qualifications are required for the laboratory reported CRQLs that could not be supported for the target compounds listed in Attachment A. Due to the MDL study for these compounds provided by the laboratory, Heartland ESI will accept these CRQLs with the qualification that all non detect results are estimated (UJ). In addition, all positive results for these compounds are qualified as estimated (J) due to the lack of an initial calibration.

Holding Times

All of the samples were analyzed within the contractual holding times for volatile analysis. No qualification are required.

Tuning

All of the BFB tunes in the initial and continuing calibrations met the percent relative abundance criteria of the SOW and the Organic Functional Guidelines. No qualifications are required.

Initial Calibrations

The initial calibration that was analyzed by the laboratory for these samples was acceptable for all compound %RSDs and RRFs, with the exception of 1,4-dioxane. Since samples were not analyzed after the initial calibration, no qualifications are required..

Continuing Calibrations

The continuing calibrations that were analyzed with this data package required qualifications for non compliant %Ds. All compound RRFs were acceptable for all continuing calibrations.

Continuing Calibrations (continued)

Specific findings:

2. For the samples listed below, the continuing calibration, CSVO020108, contained the following compounds with %Ds greater than 25% D, but less than 50% D. Qualify all positive results for these compounds as estimated (J).

VBLKW	chloromethane
MPT-ER-2	chloroethane
TRIP	trichlorofluoromethane

3. For the samples listed below, the continuing calibration, CSVO020149, contained the following compounds with %Ds greater than 25% D, but less than 50% D. Qualify all positive results for these compounds as estimated (J).

VBLKW_2	1,1,2,2-tetrachloroethane
VBLKS	trichlorofluoromethane
MPT-2-SW-5	
MPT-2-SD-5	
MPT-2-SW-4	
MPT-2-SD-4	
MPT-2-SW-6	
MPT-2-SD-6	

4. For all of the samples, the continuing calibrations exhibited a RRF for 1,4-dioxane less than 0.05. Qualify all positive results for this compound as estimated (J) and reject (R) all non detect results.

Internal Standards

All of the internal standard EICP areas for the samples and the blanks were within QA/QC limits. No qualifications are required.

Method Blanks

The method blanks that were analyzed exhibited contamination for methylene chloride, acetone and 2-butanone. The method blank results will be compared to their associated samples. Refer to the glossary of data qualifiers for a list and definition of the method blank qualifiers: CRQL, U and No Action.

Method Blanks (continued)

Specific Findings:

5. The following samples have been qualified for blank contamination. Qualifications are for all method blanks.

methylene chloride - CRQL	methylene chloride - U
MPT-ER-2	MPT-2-SD-4
TRIP	MPT-2-SD-5
	MPT-2-SD-6

acetone - CRQL	acetone - U
MPT-ER-2	MPT-2-SD-4
TRIP	
MPT-2-SW-4	MPT-2-SD-6
MPT-2-SW-5	
MPT-2-SW-6	

2-butanone - CRQL	2-butanone - U
MPT-ER-2	MPT-2-SD-4
TRIP	MPT-2-SD-5
MPT-2-SW-4	
MPT-2-SW-5	
MPT-2-SW-6	

acetone - NA

MPT-2-SD-5

Trip Blanks

The trip blank analyzed with this SDG exhibited contamination that was attributed to the method blank. No qualifications are required.

Rinseate/Field Blanks

The rinseate blank that was analyzed with this SDG exhibited contamination that was attributed to the method blank. No qualifications are required.

Surrogates

All of the surrogate recoveries were within QA/QC limits. No qualifications are required

Matrix Spike/Matrix Spike Duplicate (MS/MSD)

No MS/MSD was analyzed with these samples.

Blank Spike/Blank Spike Duplicate (BS/BSD)

No BS/BSDs was analyzed with this SDG.

Compound Identification/Quantitation

No qualifications are required.

ATTACHMENT A

Appendix IX Compounds Associated with only a Continuing Calibration

Compound Name
Acetonitrile
3-Chloropropene
Propionitrile
Methacrylonitrile
Methyl Methacrylate
1,2-Dibromoethane
1,1,1,2-Tetrachloroethane
1,2-Dibromo-3-Chloropropane
Pentachloroethane
Isobutyl alcohol
Chloropropene

GLOSSARY OF DATA QUALIFIERS

QUALIFICATION CODES

U = Not detected

J = Estimated value

UJ = Reported quantitation limit is qualified as estimated

R = Result is rejected and unusable

NJ = Presumptive evidence for the presence of the material at an estimated value

K = Result is biased high

L = Result is biased low

METHOD BLANK QUALIFICATION CODES

CRQL = The sample result for the blank contaminant is less than the sample CRQL and is less than 10X the method blank value. The sample result for the blank contaminant is rejected and the CRQL for that analyte is reported.

U = The sample result for the blank contaminant is greater than the sample CRQL and is less than 10X the method blank value. The sample result for the blank contaminant is qualified as non detected at the analyte value reported.

No Action = The sample result for the blank contaminant is greater than the sample CRQL and is greater than 10X the method blank value. The sample result for the blank contaminant is not qualified with any blank qualifiers.

The specific findings will be noted in numerical form on the Form Is in this data validation report. These specific finding footnotes will reflect the conclusions found in the data validation process that resulted in the qualification of the data.

SUMMARY OF DATA QUALIFICATIONS

SAMPLE ID	ANALYTE ID	DL	QL	SPECIFIC FINDINGS
All samples	Attachment A	+/-	J/UJ	1
VBLKW MPT-ER-2 TRIP	chloromethane chloroethane trichlorofluoromethane	+	J	2
VBLKW_2 VBLKS MPT-2-SW-5 MPT-2-SD-5 MPT-2-SW-4 MPT-2-SD-4 MPT-2-SW-6 MPT-2-SD-6	1,1,2,2-tetra-chloroethane trichlorofluoromethane	+	J	3
All samples	1,4-dioxane	+/-	J/R	4
MPT-ER-2 TRIP	methylene-chloride	+	CRQL	5
MPT-2-SD-4 MPT-2-SD-5 MPT-2-SD-6	methylene-chloride	+	U	5
MPT-ER-2 TRIP MPT-2-SW-4 MPT-2-SW-5 MPT-2-SW-6	acetone	+	CRQL	5

* DL denotes the Form I qualifier supplied by the laboratory
QL denotes the qualifier used by the data validation firm
\+ in the DL column denotes a positive result
\- in the DL column denotes a non detect result

SUMMARY OF DATA QUALIFICATIONS

SAMPLE ID	ANALYTE ID	DL	QL	SPECIFIC FINDINGS
MPT-2-SD-4 MPT-2-SD-6	acetone	+	U	5
MPT-2-SD-5	acetone	+	NA	3
MPT-ER-2 TRIP MPT-2-SW-4 MPT-2-SW-5 MPT-2-SW-6	2-butanone	+	CRQL	5
MPT-2-SD-4 MPT-2-SD-5 MPT-2-SD-6	2-butanone	+	U	5

* DL denotes the Form I qualifier supplied by the laboratory
QL denotes the qualifier used by the data validation firm
+ in the DL column denotes a positive result
- in the DL column denotes a non detect result

DATA ASSESSMENT NARRATIVE

SEMIVOLATILE ORGANICS

General

The organic findings offered in this screening report assumes that all analytical results are correct as reported and is based upon the examination of the reported holding times, blank analysis results, surrogate and matrix spike recoveries, GC/MS performance, tuning results, calibration results and internal standard areas. This report was prepared in compliance relative to the analytical and deliverable requirements specified in the U.S. EPA CLP, 2/88 SOW; the National Functional Guidelines for Organic Data Review, and NEESA Level C and D. All comments made within this report should be considered when examining the analytical results (Form I's).

Case # 20722

System Performance and Overall Assessment

The overall system performance was fair. The laboratory deviated from the methodology in the analyses of this SDG, which resulted in qualification of the data. In addition, it must be noted that a NEESA Level C data package does not provide the data validator with all of the necessary supporting documentation to investigate the data thoroughly for errors.

Contractual Non Compliance

Heartland ESI observed several instances of non compliance throughout the data package.

* The laboratory analyzed eighteen (18) **(See Attachment A)** of the forty-three (43) Appendix IX compounds in a one point continuing calibration mixture analyzed each day before analysis. These eighteen (18) compounds did not have an initial calibration associated with this analysis.

* The CRQLs reported by the laboratory for the twelve (12) compounds reflect an initial calibration, not the continuing calibration that was analyzed. Additional information was required to support the CRQLS reported by the laboratory due the lack of an initial calibration. The laboratory provided Heartland ESI with a MDL study performed for these compounds, dated June 5, 1991. The twelve (12) compounds are qualified at the reported CRQL as estimated (J/UJ).

Contractual Non Compliance (continued)

* The laboratory reported CRQLs for two (2) of the Appendix IX compounds (see **Attachment B)** which did not have an initial or continuing calibration associated with the analyses. All results for these two (2) compounds will be rejected.

* The laboratory used the blank qualifier flag (B) incorrectly for method blank contamination on the method blank Form 1s.

* The laboratory is reporting the wrong method blank ID on the form 4As.

Specific findings:

1. For all of the samples, qualifications are required for the laboratory reported CRQLs that could not be supported for the target compounds listed in Attachment A. Due to the MDL study for these compounds provided by the laboratory, Heartland ESI will accept these CRQLs with the qualification that all non detect results are estimated (UJ). In addition, all positive results for these compounds are qualified as estimated (J) due to the lack of an initial calibration.

2. For all of the samples, rejection is required for the two (2) compounds in Attachment B. The laboratory did not provide calibration data for these two (2) compounds. All results for these compounds are rejected (R).

Holding Times

All extraction and analysis holding times were met for all samples.

Tuning

All of the DFTPP tunes in the initial and continuing calibrations met the percent relative abundance criteria of the SOW and the Organic Functional Guidelines. No qualifications are required.

Initial Calibrations

The initial calibrations that were analyzed by the laboratory for these samples were acceptable for all compound %RSDs, with the exception of 2-picoline. The average RRFs for all of the compounds met the initial calibration criteria. No qualifications are required since samples were not analyzed after the initial calibrations.

Continuing Calibrations

The continuing calibrations that were analyzed with this data package require qualifications for non compliant %Ds for and non criteria calibration compounds. All of the criteria and non criteria compounds met RRF requirements.

Specific Findings:

3. For the samples listed below, the continuing calibration, ASBA012623, contained the following compounds with %Ds greater than 25%, but less than 50%. Qualify all positive results for these compounds as estimated (J).

SBLKS	benzo(k)fluoranthene
MPT-2-SD-5	
MPT-2-SD-4	
MPT-2-SD-6	

4. For the samples listed below, the continuing calibration, DSBA009684, contained the following compounds with %Ds greater than 25%, but less than 50%. Qualify all positive results for these compounds as estimated (J).

SBLKW	bis(2-chloroethoxy)methane
MPT-2-SW-5	indeno(1,2,3-cd)pyrene
MPT-2-SW-4	dibenzo(a,h)anthracene
MPT-ER-2	benzidine

5. For the samples listed below, the continuing calibration, DSBA009684, contained the following compounds with %Ds greater than 50%, but less than 90%. Qualify all positive results for these compounds as estimated (J) and all non detects as estimated (UJ).

SBLKW	4-nitroaniline
MPT-2-SW-5	
MPT-2-SW-4	
MPT-ER-2	

Continuing Calibrations (continued)

6. For the samples listed below, the continuing calibration, DSBA009684, contained the following compounds with %Ds greater than 25%, but less than 50%. Qualify all positive results for these compounds as estimated (J).

SBLKW_2	indeno(1,2,3-cd)pyrene
MPT-2-SW-6	dibenzo(a,h)anthracene
	benzo(g,h,i)perylene
	2-nitroaniline
	4-nitrophenol
	4-nitroaniline
	4,6-dinitro-2-methylphenol
	N-nitrosodimethylamine

Internal Standards

All of the blank and sample internal standard EICP areas met the EICP internal standard area QA/QC criteria. No qualifications are required.

Method Blanks

The method blanks that were analyzed did not exhibit contamination. No qualifications are required.

Surrogates

Two (2) samples exhibited one surrogate recovery not within QA/QC criteria. Qualifications are not required.

Matrix Spike/Matrix Spike Duplicate

No MS/MSD analyzed with these samples.

Blank Spike/Blank Spike Duplicate

No BS/BSDs associated with this SDG.

Compound Identification/Quantitation

No specific findings.

ATTACHMENT A

Appendix IX Compounds Associated with only a Continuing Calibration

Compound Name
N-Nitrosodiethylamine
N-Nitrosopyrrolidine
N-Nitrosomethylethylamine
N-Nitrosomorpholine
o-Toluidine
Hexachloropropene
p-Phenyleneamine
Safrole
Isosafrole
1,4-Napthoquinone
1,3-Dinitrobenzene
5-Nitro-o-toluidine
1,3,5-Trinitrobenzene
4-Nitroquinoline-1-oxide
Methapyrilene
3,3'-Dimethylbenzidine
2-Acetamidofluorene
Hexachlorophene

ATTACHMENT B

Appendix IX Compounds Associated with No Calibrations

Compound Name
Phenyl-tert-butylamine
Diphenylamine

---

* All compounds are rejected due to missing initial and continuing calibrations.

GLOSSARY OF DATA QUALIFIERS

QUALIFICATION CODES

U = Not detected

J = Estimated value

UJ = Reported quantitation limit is qualified as estimated

R = Result is rejected and unusable

NJ = Presumptive evidence for the presence of the material at an estimated value

K = Result is biased high

L = Result is biased low

METHOD BLANK QUALIFICATION CODES

CRQL = The sample result for the blank contaminant is less than the sample CRQL and is less than 10X the method blank value. The sample result for the blank contaminant is rejected and the CRQL for that analyte is reported.

U = The sample result for the blank contaminant is greater than the sample CRQL and is less than 10X the method blank value. The sample result for the blank contaminant is qualified as non detected at the analyte value reported.

No Action = The sample result for the blank contaminant is greater than the sample CRQL and is greater than 10X the method blank value. The sample result for the blank contaminant is not qualified with any blank qualifiers.

The specific findings will be noted in numerical form on the Form Is in this data validation report. These specific finding footnotes will reflect the conclusions found in the data validation process that resulted in the qualification of the data.

SUMMARY OF DATA QUALIFICATIONS

SAMPLE ID	ANALYTE ID	DL	QL	SPECIFIC FINDINGS
All samples	Attachment A	+/-	J/UJ	1
All samples	Attachment B	+/-	R	2
SBLKS MPT-2-SD-5 MPT-2-SD-4 MPT-2-SD-6	benzo(k)- fluoranthene	+	J	3
SBLKW MPT-2-SW-5 MPT-2-SW-4 MPT-ER-2	bis(2-chloro- ethoxy)methane dibenzo(a,h)- anthracene indeno(1,2,3-cd)pyrene benzidine	+	J	4
SBLKW MPT-2-SW-5 MPT-2-SW-4 MPT-ER-2	4-nitroaniline	+/-	J/UJ	5
SBLKW_2 MPT-2-SW-6	indeno(1,2,3-cd) pyrene dibenzo(a,h)anthracene benzo(g,h,i)perylene 2-nitroaniline 4-nitrophenol 4-nitroaniline 4,6-dinitro-2-methylphenol N-nitrosodimethylamine	+	J	6

* DL denotes the Form I qualifier supplied by the laboratory
QL denotes the qualifier used by the data validation firm
+ in the DL column denotes a positive result
- in the DL column denotes a non detect result

DATA ASSESSMENT NARRATIVE

ORGANOCHLORINE PESTICIDES AND PCBS - METHOD 8080

General

The organic findings offered in this screening report assumes that all analytical results are correct as reported and is based upon the examination of the reported holding times, GC instrument performance, initial and continuing calibrations, analytical sequence, blank analysis results, surrogate recoveries, and MS/MSD results. All comments made within this report should be considered when examining the analytical results (Form Is). Please refer the specific findings found in each category to the Summary of Data Qualification table.

LABORATORY NUMBER: 20722

Contractual Non-Compliance

The laboratory did not provide a CLP Form 9 or equivalent summary of retention time information as required under the NEESA QA Requirements (*NEESA 20.2-047B, June 1988, page 61, Table 7.6*) for Level C Deliverables for the Pesticide/PCB data. No qualification of the reported data was made based on this deficiency.

Two Appendix IX compounds from this fraction, Endrin Aldehyde and Kepone, were "Not Reported - due to poor recovery from spiking studies performed at the laboratory". Compliant initial and continuing calibrations were presented for Endrin Aldehyde and the reviewer believes the "NR" may be a laboratory reporting error.

Holding Times

All extraction and analysis hold times were apparently met as indicated by the Chain-of-Custodies and Form 4s included in the package.

GC Instrument Performance

This GC analytical fraction was apparently analyzed utilizing internal standards, relative retention times and relative response factors. All percent breakdowns reported were within the required QC limits. No surrogate retention time information was available. Target compound resolution and potential internal standard or surrogate interferences could not be determined. No qualifications of the reported non-detect results were made based on instrument performance.

Initial Calibration

The single-component pesticides were analyzed using an initial five-point calibrations. Only the relative concentrations of the standards used for these calibrations were presented in the limited Level C data package. Thus, none of the reported CRQLs could be verified due to the lack of information regarding concentrations of the lowest standards and final extract volumes for the samples. No information regarding the Aroclor initial calibrations was contained in the data package.

The initial calibration for the single-component pesticides presented were acceptably linear. No qualification of the reported results were required based on the initial calibrations reported.

Continuing Calibrations

All %Ds for all continuing calibrations associated with reported samples were within QC limits. The last two continuing calibrations for both columns each contained several compounds which greatly exceeded the QC limits. However, based upon the file Ids it appears that all of the reported samples were analyzed prior to these continuing calibrations.

Blanks

None of the reported Form Is for Method blanks for any fraction showed confirmed positive results above the reported CRQLs. No qualifications were required.

Surrogate Recoveries

All reported sample surrogate recoveries were within the reported QC limits. Recovery limits for the surrogates appear to have been established using appropriate Control Charting procedures by the laboratory.

Matrix Spike/Matrix Spike Duplicate

All reported Recoveries and RPDs for the MS/MSD included in this data package were within QC limits. The Recoveries for the Blank Spikes included for water matrix were somewhat low. No qualifications were required.

Analyte Identification/Quantitation

All reported results for these samples are accepted without additional qualification based on the limited information contained in the NEESA Level C deliverables package.

QUALIFICATION CODES

U	=	Not detected
J	=	Reported result is quantitatively estimated
UJ	=	Reported quantitation limit is qualified as estimated
R	=	Result is rejected and unusable
N	=	Result is negated, do not consider result in sample
NJ	=	Presumptive evidence for the presence of the material at an estimated concentration

Validation specific findings are noted in numerical form on the Form Is in this data validation report. These specific finding footnotes reflect the conclusions found in the data validation process that resulted in the qualifications of the data.

SUMMARY OF GC DATA QUALIFICATIONS

SAMPLE ID	ANALYTE ID	DL	QL	SPECIFIC FINDINGS
No specific findings were identified which resulted in the qualification of any of the reported non-detect sample results.				

* DL denotes the Form I qualifier/value supplied by the laboratory
QL denotes the qualifier/value used by Validator

+ in the DL column denotes a positive result
+ in the QL column denotes a reviewer revised result

DATA ASSESSMENT NARRATIVE
Metals
and Wet Chemistry

General

The inorganic findings offered in this screening report assumes that all analytical results are correct as reported and is based upon the examination of the reported holding times, calibration standards, blank analysis results and MS/MSD results. A minimum of ten percent of all laboratory calculations. All comments made within this report should be considered when examining the analytical results (Form Is).

This data package consisted of results from **Mayport, SDG# 20722 and 723**, the analysis of ten (10) field water sample and one Matrix Spike and Duplicate pair and seven (7) field soil samples and one Matrix Spike and Duplicate pair for TAL Metals and ten (10) field water samples for Wet Chemistry analyses. Overall, the inorganic data quality was fair. The reviewer combined both SDGs together because the Matrix Spike and Dupliacte are for both groups. Level C data validation reviews rely on the laboratory filling out the forms correctly. The All protocol requirements were followed.

Specific QA/QC deficiency **Findings** are listed numerically in the following categories:

Holding Times

The holding times were met as specified in Section 3 of the NEESA (20.2-047B) QA protocol.

Calibration

No deficiencies in this section.

Preparation and Field Blanks

1. The preparation blank exhibited contamination for the following elements.

Beryllium	0.351	mg/kg	Nickel	14.3	ug/l
Chromium	0.489	mg/kg	Zinc	14.4	ug/l
Cobalt	3.312	mg/kg			

The USEPA requires that all sample values below five times the preparation blank contamination be qualified as non-detect, "U".

2. The preparation blank exhibited negative bias for the following element.

   Lead -1.0 ug/l

   All sample values within ten times the preparation blank contamination and non-detect results are qualified as estimated, "J" or "UJ".

Interferences

No significant interferences were observed.

Spike Recovery

3. The Matrix Spikw recoveries for soils for Antimony and Thallium were below the lower control limit. All positive and non-detect results are qualified as estimated, "J" or "UJ".

4. The Matrix Spike recoveries for waters for Selenium and Thallium were below the lower control limit. All positive and non-detect results are qualified as estimated, "J" or "UJ".

Duplicate

No deficiencies in this section.

LCS

No deficiencies in this section.

Serial Dilution

No deficiencies in this section.

MSA

5. The following analytes exhibited poor recovery during the GFAA spiking procedures. All data is qualified as estimated, "J" or "UJ".

Analyte	Samples
Arsenic	MPTBSWDUP1
Lead	MPTBSWDUP1
Selenium	MPTBSDDUP1 AND MPTBSWDUP1
Thallium	MPTBSDDUP1 AND MPTBSWDUP1

Wet Chemistry

The samples were reviewed for holding times, detection limit and LCSs.

SUMMARY OF DATA QUALIFICATIONS

SAMPLE ID	ANALYTE	DL	QL	SPECIFIC FINDING
All soil samples All water samples	Be, Cr, Co. Ni and Zn.	+	U	1
All water samples	Pb	+/U	J/UJ	2
All soil samples	Sb and Tl	+/U	J/UJ	3
All water samples	Se and Tl	+/U	J/UJ	4
MPTBSWDUP1 MPTBSWDUP1 MPTBSDDUP1 AND MPTBSWDUP1 MPTBSDDUP1 AND MPTBSWDUP1	As Pb Se Tl	+/U	J/UJ	5
All water samples	The Wet Chemistry will stands as reported without qualification.			

DL - denotes laboratory qualifier/reported value
+ denotes positive values
U denotes non-detect values

QL - denotes data validation qualifier

DATA ASSESSMENT NARRATIVE

VOLATILE ORGANICS

The organic findings offered in this screening report assumes that all analytical results are correct as reported and is based upon the examination of the reported holding times, blank analysis results, surrogate and matrix spike recoveries, GC/MS performance, tuning results, calibration results and internal standard areas. This report was prepared in compliance relative to the analytical and deliverable requirements specified in the U.S. EPA CLP, 2/88 SOW; SW-846, Method 8240; the National Functional Guidelines for Organic Data Review, and NEESA Level C and D. All comments made within this report should be considered when examining the analytical results (Form I's).

Case # 20723

System Performance and Overall Assessment

The overall system performance was fair. The laboratory deviated from the methodology in the analyses of the this SDG, which resulted in qualification of the data. In addition, it must be noted that a NEESA Level C data package does not provide the data validator with all of the necessary supporting documentation to investigate the data thoroughly for errors.

Contractual Non Compliance

Heartland ESI observed several instances of non compliance throughout the data package.

* The laboratory analyzed twelve (12) (see **Attachment A**) of the twenty-three (23) Appendix IX compounds in a one point continuing calibration mixture analyzed each day before analysis. These twelve (12) compounds did not have an initial calibration associated with this analysis.

* The CRQLs reported by the laboratory for the twelve (12) compounds reflect an initial calibration, not the continuing calibration that was analyzed. Additional information was required to support the CRQLS reported by the laboratory due the lack of an initial calibration. The laboratory provided Heartland ESI with a MDL study performed for these compounds, dated June 5, 1991. The twelve (12) compounds are qualified at the reported CRQL as estimated (J/UJ).

* The laboratory used the blank qualifier flag (B) incorrectly for method blank contamination on the method blank Form 1s.

Contractual Non Compliance (continued)

* The laboratory did not analyze separate calibrations for water and soil analyses (E-13/VOA, 2.1.1).

* The laboratory is reporting the wrong method blank ID on the form 4As.

Specific findings:

1. For all of the samples, qualifications are required for the laboratory reported CRQLs that could not be supported for the target compounds listed in Attachment A. Due to the MDL study for these compounds provided by the laboratory, Heartland ESI will accept these CRQLs with the qualification that all non detect results are estimated (UJ). In addition, all positive results for these compounds are qualified as estimated (J) due to the lack of an initial calibration.

Holding Times

All of the samples were analyzed within the contractual holding times for volatile analysis. No qualification are required.

Tuning

All of the BFB tunes in the initial and continuing calibrations met the percent relative abundance criteria of the SOW and the Organic Functional Guidelines. No qualifications are required.

Initial Calibrations

The initial calibration that was analyzed by the laboratory for these samples was acceptable for all criteria and non criteria compound %RSDs. One compound, 1,4-dioxane, exhibited a RRF less than 0.05. However, qualifications are not required since samples were not analyzed after the initial calibration.

Continuing Calibrations

Two (2) of the continuing calibrations that were analyzed with this data package required qualifications for non compliant %Ds and RRFs.

Continuing Calibrations (continued)

Specific findings:

2. For the samples listed below, the continuing calibration, CSVO020108, contained the following compounds with %Ds greater than 25% D, but less than 50% D. Qualify all positive results for these compounds as estimated (J).

VBLKW	chloromethane
MPT-ER-1	chloroethane
TRIP BLANK	trichlorofluoromethane
MPT-FB-1	
MPTBSWDUP1	
MPT-MS-1MS	
MPT-MS-1MSD	
MPT-B-SW-1	
MPT-B-SW-2	
MPT-B-SW-3	

3. For the samples listed below, the continuing calibration, CSVO020149, contained the following compounds with %Ds greater than 25% D, but less than 50% D. Qualify all positive results for these compounds as estimated (J).

VBLKS_2	1,1,2,2-tetrachloroethane
MPTBSDDUP1	trichlorofluoromethane
MPT-MS-1MS	
MPT-MS-1MSD	

4. For all of the samples, the continuing calibrations contained 1,4-dioxane with a RRF less than 0.05. Qualify all positive results for this compound as estimated (J) and reject (R) all non detect results.

Internal Standards

All of the internal standard EICP areas for the samples and the blanks were within QA/QC limits. No qualifications are required.

Method Blanks

The method blanks that were analyzed exhibited contamination for methylene chloride, acetone and 2-butanone. The method blank results will be compared to their associated samples. Refer to the glossary of data qualifiers for a list and definition of the method blank qualifiers: CRQL, U and No Action.

Specific Findings:

5. The following samples have been qualified for blank contamination. Qualifications are for all method blanks.

methylene chloride - CRQL	methylene chloride - U
MPTBSWDPU1	MPT-B-SW-1
TRIP BLANK	MPT-FB-1
MPT-B-SW-2	MPT-ER-1
	MPT-B-SW-3
	MPT-B-SD-1
	MPT-B-SD-2
	MPT-B-SD-3
	MPTBSDDUP1

acetone - CRQL	acetone - U
MPT-B-SW-1	MPT-B-SD-2
TRIP BLANK	MPTBSDDUP1
MPT-FB-1	
MPT-ER-1	
MPTBSWDUP1	
MPT-B-SW-3	
MPT-B-SW-2	
MPT-B-SD-1	

Method Blanks (Specific finding #5 continued)

2-butanone - CRQL	2-butanone - U
MPT-ER-1	MPTBSWDUP1
TRIP BLANK	MPTBSDDUP1
MPT-B-SW-1	MPT-B-SD-1
MPT-B-SW-2	MPT-B-SD-2
MPT-B-SW-3	MPT-B-SD-3

acetone - NA

MPT-B-SD-3

Trip Blanks

The trip blank analyzed with this SDG exhibited contamination that was attributed to the method blank. No qualifications are required.

Rinseate/Field Blanks

The rinseate and field blank analyzed with this SDG exhibited contamination that was attributed to the method blank. No qualifications are required.

Surrogates

All of the surrogates for the sample analyses were not within QA/QC limits. Qualifications are required

6. For the samples listed below, one (1) surrogate exhibited recoveries above the QA/QC limits. Qualify all positive results as estimated (J).

   MPT-MS-1MSD

Matrix Spike/Matrix Spike Duplicate (MS/MSD)

The two (2) MS/MSDs which were analyzed with this SDG exhibited recoveries and RPDs that were within QA/QC advisory limits. No qualification are required.

Blank Spike/Blank Spike Duplicate (BS/BSD)

No BS/BSDs were analyzed with this SDG.

Compound Identification/Quantitation

No qualifications are required.

ATTACHMENT A

Appendix IX Compounds Associated with only a Continuing Calibration

Compound Name

Acetonitrile
3-Chloropropene
Propionitrile
Methacrylonitrile
Methyl Methacrylate
1,2-Dibromoethane
1,1,1,2-Tetrachloroethane
1,2-Dibromo-3-Chloropropane
Pentachloroethane
Isobutyl alcohol
Chloropropene

GLOSSARY OF DATA QUALIFIERS

QUALIFICATION CODES

U = Not detected

J = Estimated value

UJ = Reported quantitation limit is qualified as estimated

R = Result is rejected and unusable

NJ = Presumptive evidence for the presence of the material at an estimated value

K = Result is biased high

L = Result is biased low

METHOD BLANK QUALIFICATION CODES

CRQL = The sample result for the blank contaminant is less than the sample CRQL and is less than 10X the method blank value. The sample result for the blank contaminant is rejected and the CRQL for that analyte is reported.

U = The sample result for the blank contaminant is greater than the sample CRQL and is less than 10X the method blank value. The sample result for the blank contaminant is qualified as non detected at the analyte value reported.

No Action = The sample result for the blank contaminant is greater than the sample CRQL and is greater than 10X the method blank value. The sample result for the blank contaminant is not qualified with any blank qualifiers.

The specific findings will be noted in numerical form on the Form Is in this data validation report. These specific finding footnotes will reflect the conclusions found in the data validation process that resulted in the qualification of the data.

SUMMARY OF DATA QUALIFICATIONS

SAMPLE ID	ANALYTE ID	DL	QL	SPECIFIC FINDINGS
All samples	Attachment A	+/-	J/UJ	1
VBLKW MPT-ER-1 TRIP BLANK MPT-FB-1 MPTBSWDUP1 MPT-MS-1MS MPT-MS-1MSD MPT-B-SW-1 MPT-B-SW-2 MPT-B-SW-3	chloromethane chloroethane trichlorofluoromethane	+	J	2
VBLKS_2 MPTBSDDUP1 MPT-MS-1MS MPT-MS-1MSD	1,1,2,2-tetra-chloroethene trichlorofluoromethane	+	J	3
All samples	1,4-dioxane	+/-	J/R	4
MPTBSWDPU1 TRIP BLANK MPT-B-SW-2	methylene-chloride	+	CRQL	5
MPT-B-SW-1 MPT-FB-1 MPT-ER-1 MPTBSDDUP1 MPT-B-SD-1 MPT-B-SD-2 MPT-B-SD-3 MPT-B-SW-3	methylene-chloride	+	U	5

* DL denotes the Form I qualifier supplied by the laboratory
QL denotes the qualifier used by the data validation firm
+ in the DL column denotes a positive result
- in the DL column denotes a non detect result

SUMMARY OF DATA QUALIFICATIONS

SAMPLE ID	ANALYTE ID	DL	QL	SPECIFIC FINDINGS
MPT-B-SW-1 TRIP BLANK MPT-FB-1 MPT-ER-1 MPTBSWDUP1 MPT-B-SW-3 MPT-B-SW-2 MPT-B-SD-1	acetone	+	CRQL	5
MPT-B-SD-2 MPTBSDDUP1	acetone	+	U	5
MPT-B-SD-3	acetone	+	NA	5
MPT-ER-1 TRIP BLANK MPT-B-SW-1 MPT-B-SW-2 MPT-B-SW-3	2-butanone	+	CRQL	5
MPTBSWDUP1 MPTBSDDUP1 MPT-B-SD-1 MPT-B-SD-2 MPT-B-SD-3	2-butanone	+	U	5
MPT-MS-1MSD	All Analytes	+	J	6

* DL denotes the Form I qualifier supplied by the laboratory
QL denotes the qualifier used by the data validation firm
+ in the DL column denotes a positive result
- in the DL column denotes a non detect result

DATA ASSESSMENT NARRATIVE

SEMIVOLATILE ORGANICS

General

The organic findings offered in this screening report assumes that all analytical results are correct as reported and is based upon the examination of the reported holding times, blank analysis results, surrogate and matrix spike recoveries, GC/MS performance, tuning results, calibration results and internal standard areas. This report was prepared in compliance relative to the analytical and deliverable requirements specified in the U.S. EPA CLP, 2/88 SOW; the National Functional Guidelines for Organic Data Review, and NEESA Level C and D. All comments made within this report should be considered when examining the analytical results (Form I's).

Case # 20723

System Performance and Overall Assessment

The overall system performance was fair. The laboratory deviated from the methodology in the analyses of this SDG, which resulted in qualification of the data. In addition, it must be noted that a NEESA Level C data package does not provide the data validator with all of the necessary supporting documentation to investigate the data thoroughly for errors.

Contractual Non Compliance

Heartland ESI observed several instances of non compliance throughout the data package.

* The laboratory analyzed eighteen (18) **(See Attachment A)** of the forty-three (43) Appendix IX compounds in a one point continuing calibration mixture analyzed each day before analysis. These eighteen (18) compounds did not have an initial calibration associated with this analysis.

* The CRQLs reported by the laboratory for the twelve (12) compounds reflect an initial calibration, not the continuing calibration that was analyzed. Additional information was required to support the CRQLS reported by the laboratory due the lack of an initial calibration. The laboratory provided Heartland ESI with a MDL study performed for these compounds, dated June 5, 1991. The twelve (12) compounds are qualified at the reported CRQL as estimated (J/UJ).

Contractual Non Compliance (continued)

* The laboratory reported CRQLs for two (2) of the Appendix IX compounds (see **Attachment B)** which did not have an initial or continuing calibration associated with the analyses. All results for these two (2) compounds will be rejected.

* The laboratory used the blank qualifier flag (B) incorrectly for method blank contamination on the method blank Form 1s.

* The laboratory is reporting the wrong method blank ID on the form 4As.

Specific findings:

1. For all of the samples, qualifications are required for the laboratory reported CRQLs that could not be supported for the target compounds listed in Attachment A. Due to the MDL study for these compounds provided by the laboratory, Heartland ESI will accept these CRQLs with the qualification that all non detect results are estimated (UJ). In addition, all positive results for these compounds are qualified as estimated (J) due to the lack of an initial calibration.

2. For all of the samples, rejection is required for the two (2) compounds in Attachment B. The laboratory did not provide calibration data for these two (2) compounds. All results for these compounds are rejected (R).

Holding Times

All extraction and analysis holding times were met for all samples.

Tuning

All of the DFTPP tunes in the initial and continuing calibrations met the percent relative abundance criteria of the SOW and the Organic Functional Guidelines. No qualifications are required.

Initial Calibrations

The two (2) initial calibrations that were analyzed by the laboratory for these samples were acceptable for all compound %RSDs, with the exception of 2-picoline in the 01/23/92 initial calibration. The average RRFs for all of the criteria compounds met the initial calibration criteria. No qualifications are required.

Continuing Calibrations

The continuing calibrations that were analyzed with this data package require qualifications for non compliant %Ds. All of the criteria and non criteria compounds met RRF requirements.

Specific Findings:

3. For the samples listed below, the continuing calibration, ASBA012623, contained the following compounds with %Ds greater than 25%, but less than 50%. Qualify all positive results for these compounds as estimated (J).

SBLKS	benzo(k)fluoranthene
MPT-B-SD-1	
MPT-B-SD-2	
MPT-B-SD-3	
MPT-BSDDUP1	
MPT-MS-1MS	
MPT-MS-1MSD	

4. For the samples listed below, the continuing calibration, DSBA009684, contained the following compounds with %Ds greater than 25%, but less than 50%. Qualify all positive results for these compounds as estimated (J).

SBLKW_5	bis(2-chloroethoxy)methane
MPT-MS-1MS	indeno(1,2,3-cd)pyrene
MPT-MS-1MSD	dibenzo(a,h)anthracene
MPT-ER-1	benzidine
SBLKW	
MPT-FB-1	
MPT-B-SW-1	

Continuing Calibrations (continued)

Specific Findings:

5. For the samples listed below, the continuing calibration, DSBA009684, contained the following compounds with %Ds greater than 50%, but less than 90%. Qualify all positive results for these compounds as estimated (J) and all non detects as estimated (UJ).

SBLKW_5	4-nitroaniline
MPT-MS-1MS	
MPT-MS-1MSD	
MPT-ER-1	
SBLKW	
MPT-FB-1	
MPT-B-SW-1	

6. For the samples listed below, the continuing calibration, DSBA009702, contained the following compounds with %Ds greater than 25%, but less than 50%. Qualify all positive results for these compounds as estimated (J).

SBLKW_2	indeno(1,2,3-cd)pyrene
MPT-B-SW-2	dibenzo(a,h)anthracene
	benzo(g,h,i)perylene
	2-nitroaniline
	4-nitrophenol
	4-nitroaniline
	4,6-dinitro-2-methylphenol
	N-nitrosodimethylamine

Continuing Calibrations (continued)

Specific Findings:

7. For the samples listed below, the continuing calibration, DSBA009718, contained the following compounds with %Ds greater than 25%, but less than 50%. Qualify all positive results for these compounds as estimated (J).

SBLKW_3	indeno(1,2,3-cd)pyrene
MPT-B-SW-3	dibenzo(a,h)anthracene
	benzo(g,h,i)perylene
	2-nitroaniline
	4-nitrophenol
	hexachlorobenzene
	diethylphthalate
	N-nitrosodimethylamine
	methyl methanesulfonate
	N-nitrosopiperidine
	benzidine

8. For the samples listed below, the continuing calibration, DSBA009666, contained the following compounds with %Ds greater than 25%. Qualify all positive results for these compounds as estimated (J).

VBLKW_4	nitrobenzene
MPTBSWDUP1	isophorone
	nitrobenzene-d_5
	2-nitroaniline
	dimethylphthalate
	4-nitrophenol
	N-nitrosodimethylamine
	N-nitrosopiperidine
	4-aminobiphenyl

Internal Standards

All of the blank and sample internal standard EICP areas met the EICP internal standard area QA/QC criteria. No qualifications are required.

Method Blanks

The method blanks that were analyzed did not exhibit contamination for TCLs or TICs. No qualifications are required.

Surrogates

Five (5) samples exhibited one surrogate recovery not within QA/QC criteria. Per the Functional Guidelines, qualifications are not required.

Matrix Spike/Matrix Spike Duplicate

One (1) of the two (2) MS/MSDs analyzed with these samples had one spike recovery below the advisory limit. No qualifications are required.

Blank Spike/Blank Spike Duplicate

No BS/BSDs associated with this SDG.

Compound Identification/Quantitation

No qualifications are required.

ATTACHMENT A

Appendix IX Compounds Associated with only a Continuing Calibration

Compound Name
N-Nitrosodiethylamine
N-Nitrosopyrrolidine
N-Nitrosomethylethylamine
N-Nitrosomorpholine
o-Toluidine
Hexachloropropene
p-Phenyleneamine
Safrole
Isosafrole
1,4-Napthoquinone
1,3-Dinitrobenzene
5-Nitro-o-toluidine
1,3,5-Trinitrobenzene
4-Nitroquinoline-1-oxide
Methapyrilene
3,3'-Dimethylbenzidine
2-Acetamidofluorene
Hexachlorophene

ATTACHMENT B

Appendix IX Compounds Associated with No Calibrations

Compound Name

Phenyl-tert-butylamine
Diphenylamine

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* **All compounds are rejected due to missing initial and continuing calibrations.**

GLOSSARY OF DATA QUALIFIERS

QUALIFICATION CODES

U = Not detected

J = Estimated value

UJ = Reported quantitation limit is qualified as estimated

R = Result is rejected and unusable

NJ = Presumptive evidence for the presence of the material at an estimated value

K = Result is biased high

L = Result is biased low

METHOD BLANK QUALIFICATION CODES

CRQL = The sample result for the blank contaminant is less than the sample CRQL and is less than 10X the method blank value. The sample result for the blank contaminant is rejected and the CRQL for that analyte is reported.

U = The sample result for the blank contaminant is greater than the sample CRQL and is less than 10X the method blank value. The sample result for the blank contaminant is qualified as non detected at the analyte value reported.

No Action = The sample result for the blank contaminant is greater than the sample CRQL and is greater than 10X the method blank value. The sample result for the blank contaminant is not qualified with any blank qualifiers.

The specific findings will be noted in numerical form on the Form Is in this data validation report. These specific finding footnotes will reflect the conclusions found in the data validation process that resulted in the qualification of the data.

SUMMARY OF DATA QUALIFICATIONS

SAMPLE ID	ANALYTE ID	DL	QL	SPECIFIC FINDINGS
All samples	Attachment A	+/-	J/UJ	1
All samples	Attachment B	+/-	R	2
SBLKS MPT-B-SD-1 MPT-B-SD-2 MPT-B-SD-3 MPT-BSDDUP1 MPT-MS-1MS MPT-MS-1MSD	benzo(k)- fluoranthene	+	J	3
SBLKW_5 MPT-B-SW-1 MPT-MS-1MS MPT-MS-1MSD MPT-ER-1 SBLKW MPT-FB-1	bis(2-chloro- ethoxy)ethane indeno(1,2,3-cd)pyrene dibenzo(a,h)anthracene benzidine	+	J	4
SBLKW_5 MPT-MS-1MS MPT-MS-1MSD MPT-ER-1 SBLKW MPT-FB-1 MPT-B-SW-1	4-nitroaniline	+/-	J/UJ	5

* DL denotes the Form I qualifier supplied by the laboratory
QL denotes the qualifier used by the data validation firm
+ in the DL column denotes a positive result
- in the DL column denotes a non detect result

SUMMARY OF DATA QUALIFICATIONS

SAMPLE ID	ANALYTE ID	DL	QL	SPECIFIC FINDINGS
SBLKW_2 MPT-B-SW-2	indeno(1,2,3-cd)-pyrene dibenzo(a,h)anthracene benzo(g,h,i)perylene 2-nitroaniline 4-nitrophenol 4-nitroaniline 4,6-dinitro-2-methylphenol N-nitrosodimethylamine	+	J	6
SBLKW_3 MPT-B-SW-3	indeno(1,2,3-cd)-pyrene dibenzo(a,h)anthracene benzo(g,h,i)perylene 2-nitroaniline 4-nitrophenol hexachlorobenzene diethylphthalate N-nitrosodimethylamine methyl methanesulfonate N-nitrosopiperidine benzidine	+	J	7
VBLKW_4 MPTBSWDUP1	nitrobenzene isophorone nitrobenzene-d_5 2-nitroaniline dimethylphthalate 4-nitrophenol N-nitrosodimethylamine N-nitrosopiperidine 4-aminobiphenyl	+	J	8

* DL denotes the Form I qualifier supplied by the laboratory
QL denotes the qualifier used by the data validation firm
+ in the DL column denotes a positive result
- in the DL column denotes a non detect result

DATA ASSESSMENT NARRATIVE

ORGANOCHLORINE PESTICIDES AND PCBS - METHOD 8080

General

The organic findings offered in this screening report assumes that all analytical results are correct as reported and is based upon the examination of the reported holding times, GC instrument performance, initial and continuing calibrations, analytical sequence, blank analysis results, surrogate recoveries, and MS/MSD results. All comments made within this report should be considered when examining the analytical results (Form Is). Please refer the specific findings found in each category to the Summary of Data Qualification table.

LABORATORY NUMBER: 20723

Contractual Non-Compliance

The laboratory did not provide a CLP Form 9 or equivalent summary of retention time information as required under the NEESA QA Requirements (*NEESA 20.2-047B, June 1988, page 61, Table 7.6*) for Level C Deliverables for the Pesticide/PCB data. No qualification of the reported data was made based on this deficiency.

Two Appendix IX compounds from this fraction, Endrin Aldehyde and Kepone, were "Not Reported - due to poor recovery from spiking studies performed at the laboratory". Compliant initial and continuing calibrations were presented for Endrin Aldehyde and the reviewer believes the "NR" may be a laboratory reporting error.

Holding Times

All extraction and analysis hold times were apparently met as indicated by the Chain-of-Custodies and Form 4s included in the package.

GC Instrument Performance

This GC analytical fraction was apparently analyzed utilizing internal standards, relative retention times and relative response factors. All percent breakdowns reported were within the required QC limits. No surrogate retention time information was available. Target compound resolution and potential internal standard or surrogate interferences could not be determined. No qualifications of the reported non-detect results were made based on instrument performance.

Initial Calibration

The single-component pesticides were analyzed using an initial five-point calibrations. Only the relative concentrations of the standards used for these calibrations were presented in the limited Level C data package. Thus, none of the reported CRQLs could be verified due to the lack of information regarding concentrations of the lowest standards and final extract volumes for the samples. No information regarding the Aroclor initial calibrations was contained in the data package.

The initial calibration for the single-component pesticides presented were acceptably linear. No qualification of the reported results were required based on the initial calibrations reported.

Continuing Calibrations

All %Ds for all continuing calibrations associated with reported samples were within QC limits. The last two continuing calibrations for both columns each contained compounds which greatly exceeded the QC limits. Based upon the file IDs it appears that one sample, MPT-B-SD-3, is associated with these continuing calibrations. However, no positive results were reported for this sample and no qualifications were required.

Blanks

None of the reported Form Is for Method blanks for any fraction showed confirmed positive results above the reported CRQLs. No qualifications were required.

Surrogate Recoveries

All reported sample surrogate recoveries were within the reported QC limits. Recovery limits for the surrogates appear to have been established using appropriate Control Charting procedures by the laboratory.

Matrix Spike/Matrix Spike Duplicate

All reported Recoveries and RPDs for the two MS/MSDs included in this data package were within QC limits. The Recoveries for the Blank Spikes included for water matrix were somewhat low. No qualifications were required.

Analyte Identification/Quantitation

All reported results for these samples are accepted without additional qualification based on the limited information contained in the NEESA Level C deliverables package.

QUALIFICATION CODES

U	=	Not detected
J	=	Reported result is quantitatively estimated
UJ	=	Reported quantitation limit is qualified as estimated
R	=	Result is rejected and unusable
N	=	Result is negated, do not consider result in sample
NJ	=	Presumptive evidence for the presence of the material at an estimated concentration

Validation specific findings are noted in numerical form on the Form Is in this data validation report. These specific finding footnotes reflect the conclusions found in the data validation process that resulted in the qualifications of the data.

SUMMARY OF GC DATA QUALIFICATIONS

SAMPLE ID	ANALYTE ID	DL	QL	SPECIFIC FINDINGS
No specific findings were identified which resulted in the qualification of any of the reported non-detect sample results.				

* DL denotes the Form I qualifier/value supplied by the laboratory
QL denotes the qualifier/value used by Validator

+ in the DL column denotes a positive result
+ in the QL column denotes a reviewer revised result

DATA ASSESSMENT NARRATIVE
Metals
and Wet Chemistry

X

General

The inorganic findings offered in this screening report assumes that all analytical results are correct as reported and is based upon the examination of the reported holding times, calibration standards, blank analysis results and MS/MSD results. A minimum of ten percent of all laboratory calculations. All comments made within this report should be considered when examining the analytical results (Form Is).

This data package consisted of results from **Mayport, SDG# 20722 and 723**, the analysis of ten (10) field water sample and one Matrix Spike and Duplicate pair and seven (7) field soil samples and one Matrix Spike and Duplicate pair for TAL Metals and ten (10) field water samples for Wet Chemistry analyses. Overall, the inorganic data quality was fair. The reviewer combined both SDGs together because the Matrix Spike and Dupliacte are for both groups. Level C data validation reviews rely on the laboratory filling out the forms correctly. The All protocol requirements were followed.

Specific QA/QC deficiency Findings are listed numerically in the following categories:

Holding Times

The holding times were met as specified in Section 3 of the NEESA (20.2-047B) QA protocol.

Calibration

No deficiencies in this section.

Preparation and Field Blanks

1. The preparation blank exhibited contamination for the following elements.

Beryllium	0.351	mg/kg	Nickel	14.3	ug/l
Chromium	0.489	mg/kg	Zinc	14.4	ug/l
Cobalt	3.312	mg/kg			

The USEPA requires that all sample values below five times the preparation blank contamination be qualified as non-detect, "U".

2. The preparation blank exhibited negative bias for the following element.

Lead	-1.0	ug/l

All sample values within ten times the preparation blank contamination and non-detect results are qualified as estimated, "J" or "UJ".

Interferences

No significant interferences were observed.

Spike Recovery

3. The Matrix Spikw recoveries for soils for Antimony and Thallium were below the lower control limit. All positive and non-detect results are qualified as estimated, "J" or "UJ".

4. The Matrix Spike recoveries for waters for Selenium and Thallium were below the lower control limit. All positive and non-detect results are qualified as estimated, "J" or "UJ".

Duplicate

No deficiencies in this section.

LCS

No deficiencies in this section.

Serial Dilution

No deficiencies in this section.

MSA

5. The following analytes exhibited poor recovery during the GFAA spiking procedures. All data is qualified as estimated, "J" or "UJ".

Analyte	Samples
Arsenic	MPTBSWDUP1
Lead	MPTBSWDUP1
Selenium	MPTBSDDUP1 AND MPTBSWDUP1
Thallium	MPTBSDDUP1 AND MPTBSWDUP1

Wet Chemistry

The samples were reviewed for holding times, detection limit and LCSs.

SUMMARY OF DATA QUALIFICATIONS

SAMPLE ID	ANALYTE	DL	QL	SPECIFIC FINDING
All soil samples All water samples	Be, Cr, Co. Ni and Zn.	+	U	1
All water samples	Pb	+/U	J/UJ	2
All soil samples	Sb and Tl	+/U	J/UJ	3
All water samples	Se and Tl	+/U	J/UJ	4
MPTBSWDUP1 MPTBSWDUP1 MPTBSDDUP1 AND MPTBSWDUP1 MPTBSDDUP1 AND MPTBSWDUP1	As Pb Se Tl	+/U	J/UJ	5
All water samples	The Wet Chemistry will stands as reported without qualification.			

DL - denotes laboratory qualifier/reported value
+ denotes positive values
U denotes non-detect values

QL - denotes data validation qualifier

DATA ASSESSMENT NARRATIVE

VOLATILE ORGANICS

The organic findings offered in this screening report assumes that all analytical results are correct as reported and is based upon the examination of the reported holding times, blank analysis results, surrogate and matrix spike recoveries, GC/MS performance, tuning results, calibration results and internal standard areas. This report was prepared in compliance relative to the analytical and deliverable requirements specified in the U.S. EPA CLP, 2/88 SOW; the National Functional Guidelines for Organic Data Review, and NEESA Level C and D. All comments made within this report should be considered when examining the analytical results (Form I's).

Case # 20740

System Performance and Overall Assessment

The overall system performance was fair. The laboratory deviated from the methodology in the analyses of the this SDG, which resulted in qualification of the data. In addition, it must be noted that a NEESA Level C data package does not provide the data validator with all of the necessary supporting documentation to investigate the data thoroughly for errors.

Contractual Non Compliance

Heartland ESI observed several instances of non compliance throughout the data package.

* The laboratory analyzed twelve (12) (**see Attachment A**) of the twenty-three (23) Appendix IX compounds in a one point continuing calibration mixture analyzed each day before analysis. These twelve (12) compounds did not have an initial calibration associated with this analysis.

* The CRQLs reported by the laboratory for the twelve (12) compounds reflect an initial calibration, not the continuing calibration that was analyzed. Additional information was required to support the CRQLS reported by the laboratory due the lack of an initial calibration. The laboratory provided Heartland ESI with a MDL study performed for these compounds, dated June 5, 1991. The twelve (12) compounds are qualified at the reported CRQL as estimated (J/UJ).

* The laboratory used the blank qualifier flag (B) incorrectly for method blank contamination on the method blank Form 1s.

Contractual Non Compliance (continued)

* The laboratory did not analyze separate calibrations for water and soil analyses **(E-13/VOA, 2.1.1).**

* The laboratory is reporting the wrong method blank ID on the form 4As.

Specific findings:

1. For all of the samples, qualifications are required for the laboratory reported CRQLs that could not be supported for the target compounds listed in Attachment A. Due to the MDL study for these compounds provided by the laboratory, Heartland ESI will accept these CRQLs with the qualification that all non detect results are estimated (UJ). In addition, all positive results for these compounds are qualified as estimated (J) due to the lack of an initial calibration.

Holding Times

All of the samples were not analyzed within the contractual holding times for volatile analysis. Three (3) samples exceeded the analysis holding time by one (1) day. No qualification are required.

Tuning

All of the BFB tunes in the initial and continuing calibrations met the percent relative abundance criteria of the SOW and the Organic Functional Guidelines. No qualifications are required.

Initial Calibrations

The initial calibration that was analyzed by the laboratory for these samples was acceptable for all compound %RSDs. All of the RRFs, with the exception of 1,4-dioxane, were greater than 0.05. No qualifications are required since samples were not analyzed after the initial calibration.

Continuing Calibrations

The three (3) continuing calibrations that were analyzed with this data package required qualifications for non compliant %Ds.

Specific findings:

2. For the samples listed below, the continuing calibration, CSVO020192, contained the following compounds with %Ds greater than 25% D, but less than 50% D. Qualify all positive results for these compounds as estimated (J).

VBLKS_3	1,2-dichloroethane-d_4
MPT-13-SD2	trichlorofluoromethane
MPT-2-SD-7	
MPT-2-SD-7	

3. For the samples listed below, the continuing calibration, CSVO020149, contained the following compounds with %Ds greater than 25% D, but less than 50% D. Qualify all positive results for these compounds as estimated (J).

VBLKW	1,1,2,2-tetrachloroethane
VBLKS	trichlorofluoromethane
MPT-2-SW-9	
MPT-2-SD-9	
MPT-13-SD1	

4. For the samples listed below, the continuing calibration, CSVO020168, contained the following compounds with %Ds greater than 25%, but less than 50%. Qualify all positive results for these compounds as estimated (J).

VBLKW_2	trichloro-
VBLKS_2	fluoromethane
MPT-ER-3	
TRIP_3	
MPT-2-SW	
MPT-2SW-7A	
MPT-13-SD3	

Continuing Calibrations (continued)

5. For all of the samples, all of the continuing calibration contained 1,4-dioxane with a RRF less than 0.05. Qualify all positive results for this compound as estimated (J) and reject (R) all non detect results.

Internal Standards

All of the internal standard EICP areas for the samples and the blanks were within QA/QC limits. No qualifications are required.

Method Blanks

The method blanks that were analyzed exhibited contamination for methylene chloride, acetone and 2-butanone. The method blank results will be compared to their associated samples. Refer to the glossary of data qualifiers for a list and definition of the method blank qualifiers: CRQL, U and No Action.

Specific Findings:

6. The following samples have been qualified for blank contamination. Qualifications are for all method blanks.

   methylene chloride - U

   MPT-2-SD-9
   MPT-13-SD1
   MPT-2-SW-7
   MPT-2-SW-7A
   MPT-ER-3
   TRIP_3
   MPT-13-SD3
   MPT-13-SD2
   MPT-2-SD-7
   MPT-2-SD-7A

Method Blanks (Specific finding #6 continued)

acetone - CRQL	acetone - U
MPT-2-SW-9	MPT-2-SD-7A
MPT-2-SD-9	
MPT-13-SD1	
MPT-ER-3	
MPT-2-SW-7	
MPT-2-SW-7A	
TRIP_3	
MPT-13-SD3	
MPT-13-SD2	
MPT-2-SD-7	

2-butanone - CRQL	2-butanone - U
MPT-2-SD-9	
MPT-13-SD1	MPT-2-SW-9
MPT-13-SD2	
MPT-2-SD-7	MPT-2-SW-7A
MPT-2-SW-7	MPT-13-SD3
MPT-ER-3	
TRIP_3	

Trip Blanks

The trip blank analyzed with this SDG exhibited contamination that was attributed to the method blank. No qualifications are required.

Rinseate/Field Blanks

The rinseate blank analyzed with this SDG exhibited contamination that was attributed to the method blank. No qualifications are required.

Surrogates

All of the surrogate recoveries were within QA/QC limits. No qualifications are required

Matrix Spike/Matrix Spike Duplicate (MS/MSD)

No MS/MSD was analyzed with samples.

Blank Spike/Blank Spike Duplicate (BS/BSD)

No BS/BSD was analyzed with this SDG.

Compound Identification/Quantitation

No qualifications are required.

ATTACHMENT A

Appendix IX Compounds Associated with only a Continuing Calibration

Compound Name

Acetonitrile
3-Chloropropene
Propionitrile
Methacrylonitrile
Methyl Methacrylate
1,2-Dibromoethane
1,1,1,2-Tetrachloroethane
1,2-Dibromo-3-Chloropropane
Pentachloroethane
Isobutyl alcohol
Chloropropene

GLOSSARY OF DATA QUALIFIERS

QUALIFICATION CODES

U = Not detected

J = Estimated value

UJ = Reported quantitation limit is qualified as estimated

R = Result is rejected and unusable

NJ = Presumptive evidence for the presence of the material at an estimated value

K = Result is biased high

L = Result is biased low

METHOD BLANK QUALIFICATION CODES

CRQL = The sample result for the blank contaminant is less than the sample CRQL and is less than 10X the method blank value. The sample result for the blank contaminant is rejected and the CRQL for that analyte is reported.

U = The sample result for the blank contaminant is greater than the sample CRQL and is less than 10X the method blank value. The sample result for the blank contaminant is qualified as non detected at the analyte value reported.

No Action = The sample result for the blank contaminant is greater than the sample CRQL and is greater than 10X the method blank value. The sample result for the blank contaminant is not qualified with any blank qualifiers.

The specific findings will be noted in numerical form on the Form Is in this data validation report. These specific finding footnotes will reflect the conclusions found in the data validation process that resulted in the qualification of the data.

SUMMARY OF DATA QUALIFICATIONS

SAMPLE ID	ANALYTE ID	DL	QL	SPECIFIC FINDINGS
All samples	Attachment A	+/-	J/UJ	1
VBLKS_3 MPT-13-SD2 MPT-2-SD-7 MPT-2-SD-7	1,2-dichloro-ethane-d_4 trichlorofluoromethane	+	J	2
VBLKW VBLKS MPT-2-SW-9 MPT-2-SD-9 MPT-13-SD1	1,1,2,2-tetra-chloroethane trichlorofluoromethane	+	J	3
VBLKW_2 VBLKS_2 MPT-ER-3 TRIP_3 MPT-2-SW MPT-2SW-7A MPT-13-SD3	trichloro-fluoromethane	+	J	4
All samples	1,4-dioxane	+/-	J/R	5
MPT-2-SD-9 MPT-13-SD1 MPT-2-SW-7 MPT-2-SW-7A MPT-ER-3 TRIP_3 MPT-13-SD3 MPT-13-SD2 MPT-2-SD-7 MPT-2-SD-7A	methylene-chloride	+	U	6

* DL denotes the Form I qualifier supplied by the laboratory
QL denotes the qualifier used by the data validation firm
+ in the DL column denotes a positive result
- in the DL column denotes a non detect result

SUMMARY OF DATA QUALIFICATIONS

SAMPLE ID	ANALYTE ID	DL	QL	SPECIFIC FINDINGS
MPT-2-SW-9	acetone	+	CRQL	6
MPT-2-SD-9				
MPT-13-SD1				
MPT-ER-3				
MPT-2-SW-7				
MPT-2-SW-7A				
TRIP_3				
MPT-13-SD3				
MPT-13-SD2				
MPT-2-SD-7				
MPT-2-SD-7A	acetone	+	U	6
MPT-13-SD1	2-butanone	+	CRQL	6
MPT-13-SD2				
MPT-2-SD-7				
MPT-2-SW-7				
MPT-ER-3				
TRIP_3				
MPT-2-SW-9	2-butanone	+	U	6
MPT-2-SD-9				
MPT-2-SW-7A				
MPT-13-SD3				

* DL denotes the Form I qualifier supplied by the laboratory
QL denotes the qualifier used by the data validation firm
+ in the DL column denotes a positive result
- in the DL column denotes a non detect result

DATA ASSESSMENT NARRATIVE

SEMIVOLATILE ORGANICS

General

The organic findings offered in this screening report assumes that all analytical results are correct as reported and is based upon the examination of the reported holding times, blank analysis results, surrogate and matrix spike recoveries, GC/MS performance, tuning results, calibration results and internal standard areas. This report was prepared in compliance relative to the analytical and deliverable requirements specified in the U.S. EPA CLP, 2/88 SOW; SW-846, Method 8270, the National Functional Guidelines for Organic Data Review, and NEESA Level C and D. All comments made within this report should be considered when examining the analytical results (Form I's).

Case # 20740

System Performance and Overall Assessment

The overall system performance was fair. The laboratory deviated from the methodology in the analyses of this SDG, which resulted in qualification of the data. In addition, it must be noted that a NEESA Level C data package does not provide the data validator with all of the necessary supporting documentation to investigate the data thoroughly for errors.

Contractual Non Compliance

Heartland ESI observed several instances of non compliance throughout the data package.

* The laboratory analyzed eighteen (18) **(See Attachment A)** of the forty-three (43) Appendix IX compounds in a one point continuing calibration mixture analyzed each day before analysis. These eighteen (18) compounds did not have an initial calibration associated with this analysis.

* The CRQLs reported by the laboratory for the twelve (12) compounds reflect an initial calibration, not the continuing calibration that was analyzed. Additional information was required to support the CRQLS reported by the laboratory due the lack of an initial calibration. The laboratory provided Heartland ESI with a MDL study performed for these compounds, dated June 5, 1991. The twelve (12) compounds are qualified at the reported CRQL as estimated (J/UJ).

Contractual Non Compliance (continued)

* The laboratory reported CRQLs for two (2) of the Appendix IX compounds (see **Attachment B)** which did not have an initial or continuing calibration associated with the analyses. All results for these two (2) compounds will be rejected.

* The laboratory used the blank qualifier flag (B) incorrectly for method blank contamination on the method blank Form 1s.

* The laboratory is reporting the wrong method blank ID on the form 4As.

Specific findings:

1. For all of the samples, qualifications are required for the laboratory reported CRQLs that could not be supported for the target compounds listed in Attachment A. Due to the MDL study for these compounds provided by the laboratory, Heartland ESI will accept these CRQLs with the qualification that all non detect results are estimated (UJ). In addition, all positive results for these compounds are qualified as estimated (J) due to the lack of an initial calibration.

2. For all of the samples, rejection is required for the two (2) compounds in Attachment B. The laboratory did not provide calibration data for these two (2) compounds. All results for these compounds are rejected (R).

Holding Times

All extraction and analysis holding times were met for all samples.

Tuning

All of the DFTPP tunes in the initial and continuing calibrations met the percent relative abundance criteria of the SOW and the Organic Functional Guidelines. No qualifications are required.

Initial Calibrations

The initial calibrations that were analyzed by the laboratory for these samples were acceptable for all compound %RSDs. The average RRFs for all of the criteria compounds met the initial calibration criteria.

Continuing Calibrations

The continuing calibrations that were analyzed with this data package require qualifications for non compliant %Ds for and non criteria calibration compounds. All of the criteria and non criteria compounds met RRF requirements.

Specific Findings:

3. For the samples listed below, the continuing calibration, DSBA009702, contained the following compounds with %Ds greater than 25%, but less than 50%. Qualify all positive results for these compounds as estimated (J).

SBLKS	indeno(1,2,3-cd)pyrene
MPT-2-SD-9	dibenzo(a,h)anthracene
MPT-13-SD1	benzo(g,h,i)perylene
MPT-2-SD-7A	2-nitroaniline
	4-nitrophenol
	4-nitroaniline
	4,6-dinitro-2-methylphenol
	N-nitrosodimethylamine

4. For the samples listed below, the continuing calibration, DSBA009718, contained the following compounds with %Ds greater than 25%, but less than 50%. Qualify all positive results for these compounds as estimated (J).

SBLKS_2	indeno(1,2,3-cd)pyrene
MPT-B-SD-2	dibenzo(a,h)anthracene
MPT-B-SD-3	benzo(g,h,i)perylene
MPT-2-SD-7	2-nitroaniline
MPT-2-SW-9	4-nitrophenol
MPT-2-SW-7	hexachlorobenzene
MPT-2-SW-7A	diethylphthalate
SBLKW	N-nitrosodimethylamine
	methyl methanesulfonate
	N-nitrosopiperidine
	benzidine

Continuing Calibrations (continued)

5. For the samples listed below, the continuing calibration, DSBA009733, contained the following compounds with %Ds greater than 25%, but less than 50%. Qualify all positive results for these compounds as estimated (J).

VBLKW_2	indeno(1,2,3-cd)pyrene
MPT-ER-3	dibenzo(a,h)anthracene
MPT-2-SW9MS	2-nitroaniline
MPT-2-SW9MSD	4-nitroaniline
	4-nitrophenol
	N-nitrosodimethylamine
	methyl methanesulfonate
	benzidine
	pentachlorobenzene

Internal Standards

All of the blank and sample internal standard EICP areas met the EICP internal standard area QA/QC criteria. No qualifications are required.

Method Blanks

The method blanks that were analyzed exhibited contamination for di-n-butylphthalate. The method blank results will be compared to their associated samples. Refer to the glossary of data qualifiers for a list and definition of the method blank qualifiers: CRQL, U and No Action.

Specific Findings:

6. The following samples have been qualified for blank contamination. Qualification are for all method blanks.

di-n-butylphthalate -CRQL	di-n-butylphthalate - U
MPT-13-SD1	MPT-2-SD-9
MPT-2-SD-7A	MPT-2-SD-7
MPT-13-SD2	
MPT-13-SD3	
MPT-2-SW-9	
MPT-2-SW-7	
MPT-ER-3	

Surrogates

Two (2) samples exhibited one surrogate recovery not within QA/QC criteria. Qualifications are not required.

Matrix Spike/Matrix Spike Duplicate

The MS/MSD analyzed with these samples had one RPD above the advisory limit. No qualifications are required.

Blank Spike/Blank Spike Duplicate

No BS/BSDs associated with this SDG.

Compound Identification/Quantitation

No qualifications are required.

ATTACHMENT A

Appendix IX Compounds Associated with only a Continuing Calibration

Compound Name
N-Nitrosodiethylamine
N-Nitrosopyrrolidine
N-Nitrosomethylethylamine
N-Nitrosomorpholine
o-Toluidine
Hexachloropropene
p-Phenyleneamine
Safrole
Isosafrole
1,4-Napthoquinone
1,3-Dinitrobenzene
5-Nitro-o-toluidine
1,3,5-Trinitrobenzene
4-Nitroquinoline-1-oxide
Methapyrilene
3,3'-Dimethylbenzidine
2-Acetamidofluorene
Hexachlorophene

ATTACHMENT B

Appendix IX Compounds Associated with No Calibrations

Compound Name
Phenyl-tert-butylamine
Diphenylamine

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* All compounds are rejected due to missing initial and continuing calibrations.

GLOSSARY OF DATA QUALIFIERS

QUALIFICATION CODES

U = Not detected

J = Estimated value

UJ = Reported quantitation limit is qualified as estimated

R = Result is rejected and unusable

NJ = Presumptive evidence for the presence of the material at an estimated value

K = Result is biased high

L = Result is biased low

METHOD BLANK QUALIFICATION CODES

CRQL = The sample result for the blank contaminant is less than the sample CRQL and is less than 10X the method blank value. The sample result for the blank contaminant is rejected and the CRQL for that analyte is reported.

U = The sample result for the blank contaminant is greater than the sample CRQL and is less than 10X the method blank value. The sample result for the blank contaminant is qualified as non detected at the analyte value reported.

No Action = The sample result for the blank contaminant is greater than the sample CRQL and is greater than 10X the method blank value. The sample result for the blank contaminant is not qualified with any blank qualifiers.

The specific findings will be noted in numerical form on the Form Is in this data validation report. These specific finding footnotes will reflect the conclusions found in the data validation process that resulted in the qualification of the data.

SUMMARY OF DATA QUALIFICATIONS

SAMPLE ID	ANALYTE ID	DL	QL	SPECIFIC FINDINGS
All samples	Attachment A	+/-	J/UJ	1
All samples	Attachment B	+/-	R	2
SBLKS MPT-2-SD-9 MPT-13-SD1 MPT-2-SD-7A	indeno(1,2,3-cd) pyrene dibenzo(a,h)anthracene benzo(g,h,i)perylene 2-nitroaniline 4-nitrophenol 4-nitroaniline 4,6-dinitro-2-methylphenol N-nitrosodimethylamine	+	J	3
SBLKS_2 MPT-B-SD-2 SBLKW MPT-B-SD-3 MPT-2-SD-7 MPT-2-SW-9 MPT-2-SW-7 MPT-2-SW-7A	indeno(1,2,3-cd) pyrene dibenzo(a,h)anthracene benzo(g,h,i)perylene 2-nitroaniline 4-nitrophenol hexachlorobenzene diethylphthalate N-nitrosodimethylamine methyl methanesulfonate N-nitrosopiperidine benzidine	+	J	4

* DL denotes the Form I qualifier supplied by the laboratory
QL denotes the qualifier used by the data validation firm
+ in the DL column denotes a positive result
- in the DL column denotes a non detect result

SUMMARY OF DATA QUALIFICATIONS

SAMPLE ID	ANALYTE ID	DL	QL	SPECIFIC FINDINGS
VBLKW_2 MPT-ER-3 MPT-2-SW9MS MPT-2-SW9MSD	indeno(1,2,3-cd)-pyrene dibenzo(a,h)anthracene 2-nitroaniline 4-nitroaniline 4-nitrophenol N-nitrosodimethylamine methyl methanesulfonate benzidine pentachlorobenzene	+	J	5
MPT-13-SD1 MPT-13-SD3 MPT-13-SD2 MPT-2-SW-9 MPT-2-SW-7 MPT-ER-3	di-n-butyl-phthalate	+	CRQL	6
MPT-2-SD-9 MPT-2-SD-7 MPT-2-SD-7A	di-n-butyl-phthalate	+	U	6

* DL denotes the Form I qualifier supplied by the laboratory
QL denotes the qualifier used by the data validation firm
\+ in the DL column denotes a positive result
\- in the DL column denotes a non detect result

DATA ASSESSMENT NARRATIVE

ORGANOCHLORINE PESTICIDES AND PCBS - METHOD 8080

General

The organic findings offered in this screening report assumes that all analytical results are correct as reported and is based upon the examination of the reported holding times, GC instrument performance, initial and continuing calibrations, analytical sequence, blank analysis results, surrogate recoveries, and MS/MSD results. All comments made within this report should be considered when examining the analytical results (Form Is). Please refer the specific findings found in each category to the Summary of Data Qualification table.

LABORATORY NUMBER: 20740

Contractual Non-Compliance

The laboratory did not provide a CLP Form 9 or equivalent summary of retention time information as required under the NEESA QA Requirements (*NEESA 20.2-047B, June 1988, page 61, Table 7.6*) for Level C Deliverables for the Pesticide/PCB data. No qualification of the reported data was made based on this deficiency.

One Appendix IX compound from this fraction, Kepone, was "Not Reported - due to poor recovery from spiking studies performed at the laboratory".

Holding Times

All extraction and analysis hold times were apparently met as indicated by the Chain-of-Custodies and Form 4s included in the package.

GC Instrument Performance

This GC analytical fraction was apparently analyzed utilizing internal standards, relative retention times and relative response factors. All percent breakdowns reported were within the required QC limits. No surrogate retention time information was available. Target compound resolution and potential internal standard or surrogate interferences could not be determined. No qualifications of the reported non-detect results were made based on instrument performance.

Initial Calibration

The single-component pesticides were analyzed using an initial five-point calibrations. Only the relative concentrations of the standards used for these calibrations were presented in the limited Level C data package. Thus, none of the reported CRQLs could be verified due to the lack of information regarding concentrations of the lowest standards and final extract volumes for the samples. No information regarding the Aroclor initial calibrations was contained in the data package.

The initial calibration for the single-component pesticides presented were acceptably linear. No qualification of the reported results were required based on the initial calibrations reported.

Continuing Calibrations

All %Ds for all continuing calibrations associated with reported samples were within QC limits. The last continuing calibration for both columns contained compounds which greatly exceeded the QC limits. However, based upon the file IDs it appears that all of the reported samples were analyzed prior to these continuing calibrations.

Blanks

None of the reported Form Is for Method blanks for any fraction showed confirmed positive results above the reported CRQLs. No qualifications were required.

Surrogate Recoveries

All reported sample surrogate recoveries were within the reported QC limits. Recovery limits for the surrogates appear to have been established using appropriate Control Charting procedures by the laboratory.

Matrix Spike/Matrix Spike Duplicate

No MS/MSD was included in this data package. The Recoveries for the Blank Spikes included for the water matrix were somewhat low. No qualifications were required.

Analyte Identification/Quantitation

All reported results for these samples are accepted without additional qualification based on the limited information contained in the NEESA Level C deliverables package.

QUALIFICATION CODES

U	=	Not detected
J	=	Reported result is quantitatively estimated
UJ	=	Reported quantitation limit is qualified as estimated
R	=	Result is rejected and unusable
N	=	Result is negated, do not consider result in sample
NJ	=	Presumptive evidence for the presence of the material at an estimated concentration

Validation specific findings are noted in numerical form on the Form Is in this data validation report. These specific finding footnotes reflect the conclusions found in the data validation process that resulted in the qualifications of the data.

SUMMARY OF GC DATA QUALIFICATIONS

SAMPLE ID	ANALYTE ID	DL	QL	SPECIFIC FINDINGS
No specific findings were identified which resulted in the qualification of any of the reported non-detect sample results.				

* DL denotes the Form I qualifier/value supplied by the laboratory
QL denotes the qualifier/value used by Validator

+ in the DL column denotes a positive result
+ in the QL column denotes a reviewer revised result

DATA ASSESSMENT NARRATIVE
Metals
and Wet Chemistry

General

The inorganic findings offered in this screening report assumes that all analytical results are correct as reported and is based upon the examination of the reported holding times, calibration standards, blank analysis results and MS/MSD results. A minimum of ten percent of all laboratory calculations. All comments made within this report should be considered when examining the analytical results (Form Is).

This data package consisted of results from **Mayport, SDG# 20740**, the analysis of four (4) field water samples and no Matrix Spike and Duplicate pair and six (6) field soil samples and no Matrix Spike and Duplicate pair for TAL Metals and four field water samples for Wet Chemistry. Overall, the inorganic data quality was fair. Level C data validation reviews rely on the laboratory filling out the forms correctly. The Laboratory performed a Matrix Spike and Duplicate on samples from a different site and are not acceptable. The All other protocol requirements were followed.

Specific QA/QC deficiency **Findings** are listed numerically in the following categories:

Holding Times

The holding times were met as specified in Section 3 of the NEESA (20.2-047B) QA protocol.

Calibration

No deficiencies in this section.

Preparation and Field Blanks

1. The preparation blank exhibited contamination for the following elements.

Cadmium	0.366	mg/kg	Cadmium	3.3	ug/l
Lead	0.55	mg/kg			

The USEPA requires that all sample values below five times the preparation blank contamination be qualified as non-detect, "U".

2. The preparation blank exhibited negative bias for the following element.

Beryllium	-0.033	mg/kg	Beryllium	-1.1	ug/l
			Vanadium	-3.0	ug/l

Metals Data Assessment Narrative (continued - Page 2)

All sample values within ten times the preparation blank contamination and non-detect results are qualified as estimated, "J" or "UJ".

Interferences

No significant interferences were observed.

Spike Recovery

3. No Matrix Spike for this SDG. All positive and non-detect results are qualified as estimated, "J" or "UJ".

Duplicate

4. The Duplicate Analysis for this SDG. All positive and non-detect results are qualified as estimated, "J" or "UJ".

LCS

No deficiencies in this section.

Serial Dilution

No deficiencies in this section.

MSA

No deficiencies in this section.

Wet Chemistry

The samples were reviewed for holding times, detection limit and LCSs.

Metals Data Assessment Narrative (continued - Page 2)

All sample values within ten times the preparation blank contamination and non-detect results are qualified as estimated, "J" or "UJ".

Interferences

No significant interferences were observed.

Spike Recovery

3. No Matrix Spike for this SDG. All positive and non-detect results are qualified as estimated, "J" or "UJ".

Duplicate

4. The Duplicate Analysis for this SDG. All positive and non-detect results are qualified as estimated, "J" or "UJ".

LCS

No deficiencies in this section.

Serial Dilution

No deficiencies in this section.

MSA

No deficiencies in this section.

Wet Chemistry

The samples were reviewed for holding times, detection limit and LCSs.

DATA ASSESSMENT NARRATIVE

VOLATILE ORGANICS

The organic findings offered in this screening report assumes that all analytical results are correct as reported and is based upon the examination of the reported holding times, blank analysis results, surrogate and matrix spike recoveries, GC/MS performance, tuning results, calibration results and internal standard areas. This report was prepared in compliance relative to the analytical and deliverable requirements specified in the U.S. EPA CLP, 2/88 SOW; the National Functional Guidelines for Organic Data Review, and NEESA Level C and D. All comments made within this report should be considered when examining the analytical results (Form I's).

Case # 20753

System Performance and Overall Assessment

The overall system performance was fair. The laboratory deviated from the methodology in the analyses of the this SDG, which resulted in qualification of the data. In addition, it must be noted that a NEESA Level C data package does not provide the data validator with all of the necessary supporting documentation to investigate the data thoroughly for errors.

Contractual Non Compliance

Heartland ESI observed several instances of non compliance throughout the data package.

* The laboratory analyzed twelve (12) **(see Attachment A)** of the twenty-three (23) Appendix IX compounds in a one point continuing calibration mixture analyzed each day before analysis. These twelve (12) compounds did not have an initial calibration associated with this analysis.

* The CRQLs reported by the laboratory for the twelve (12) compounds reflect an initial calibration, not the continuing calibration that was analyzed. Additional information was required to support the CRQLS reported by the laboratory due the lack of an initial calibration. The laboratory provided Heartland ESI with a MDL study performed for these compounds, dated June 5, 1991. The twelve (12) compounds are qualified at the reported CRQL as estimated (J/UJ).

* The laboratory used the blank qualifier flag (B) incorrectly for method blank contamination on the method blank Form 1s.

Contractual Non Compliance (continued)

* The laboratory did not analyze separate calibrations for water and soil analyses **(E-13/VOA, 2.1.1).**

* The laboratory is reporting the wrong method blank ID on the form 4As.

Specific findings:

1. For all of the samples, qualifications are required for the laboratory reported CRQLs that could not be supported for the target compounds listed in Attachment A. Due to the MDL study for these compounds provided by the laboratory, Heartland ESI will accept these CRQLs with the qualification that all non detect results are estimated (UJ). In addition, all positive results for these compounds are qualified as estimated (J) due to the lack of an initial calibration.

Holding Times

All of the samples were analyzed within the contractual holding times for volatile analysis. No qualification are required.

Tuning

All of the BFB tunes in the initial and continuing calibrations met the percent relative abundance criteria of the SOW and the Organic Functional Guidelines. No qualifications are required.

Initial Calibrations

The initial calibration that was analyzed by the laboratory for these samples was acceptable for all %RSDs. One compound, 1,4-dioxane, exhibited a RRF less than 0.05. No qualifications are required since samples were not analyzed after the initial calibration.

Continuing Calibrations

Two (2) of the continuing calibrations that were analyzed with this data package required qualifications for non compliant %Ds. All of the calibrations require qualifications for non compliant RRFs.

Continuing Calibrations (continued)

Specific findings:

2. For the samples listed below, the continuing calibration, CSVO020108, contained the following compounds with %Ds greater than 25% D, but less than 50% D. Qualify all positive results for these compounds as estimated (J).

VBLKW	chloromethane
FIELD_BLANK2	chloroethane
TRIP_BLANK_4	trichlorofluoromethane
RIG_WATER	

3. For the samples listed below, the continuing calibration, CSVO020192, contained the following compounds with %Ds greater than 25% D, but less than 50% D. Qualify all positive results for these compounds as estimated (J).

VBLKS_2	1,2-chloroethane-d_4
MPT-2-12S	trichlorofluoromethane
MPT-2-16S	1,3-dichlorobenzene
MPT-2-17S	1,2-dichlorobenzene
MPT-13-4	
MPT-13-5	
MPT-13-6	
MPT-22-1S	

4. For the samples listed below, the continuing calibration, CSVO020168, contained the following compounds with %Ds greater than 25% D, but less than 50% D. Qualify all positive results for these compounds as estimated (J).

VBLKW_2	trichlorofluoromethane
VBLKS	
RINSEATE	
MPT-13-4DP	
MPT-134-DUPMSD	
MPT-134-DUPMS	
MPT-2-115	

5. For all of the samples, the continuing calibrations contained the 1,4-dioxane with a RRF less than 0.05. Qualify all positive results for this compound as estimated (J) and reject (R) all non detect results.

Internal Standards

All of the internal standard EICP areas for the samples and the blanks were within QA/QC limits. No qualifications are required.

Method Blanks

The method blanks that were analyzed exhibited contamination for methylene chloride, acetone and 2-butanone. The method blank results will be compared to their associated samples. Refer to the glossary of data qualifiers for a list and definition of the method blank qualifiers: CRQL, U and No Action.

Specific Findings:

6. The following samples have been qualified for blank contamination. Qualifications are for all method blanks.

methylene chloride - CRQL	methylene chloride - U
FIELD_BLANK2	RIG_WATER
TRIP_BLANK_4	RINSATE
	MPT-13-4DUP
	MPT-2-115
	MPT-22-1S
	MPT-13-6
	MPT-13-5
	MPT-13-4
	MPT-2-17S
	MPT-2-16S
	MPT-2-12S

acetone - CRQL	acetone - U
RIG_WATER	RINSATE
TRIP_BLANK_4	MPT-13-4DUP
FIELD_BLANK2	MPT-13-6
MPT-2-115	MPT-13-5
MPT-22-1S	MPT-2-16S
MPT-13-4	MPT-2-12S
MPT-2-17S	

Method Blanks (Specific finding #6 continued)

2-butanone - CRQL	2-butanone - U
RIG_WATER	MPT-13-4DUP
TRIP_BLANK_4	MPT-2-115
FIELD_BLANK2	
RINSATE	MPT-13-5
MPT-22-1S	MPT-13-4
MPT-13-6	MPT-2-17S
	MPT-2-16S
	MPT-2-12S

Trip Blanks

The trip blank analyzed with this SDG exhibited contamination that was attributed to the method blank. No qualifications are required.

Rinseate/Field Blanks

The rinseate and field blank that was analyzed exhibited contamination that was attributed to the method blank. Two (2) compounds also yielded positive results below the CRQL. No qualifications will be required for these compounds.

Surrogates

All of the surrogate recoveries were within QA/QC limits. No qualifications are required

Matrix Spike/Matrix Spike Duplicate (MS/MSD)

The one (1) MS/MSD exhibited acceptable recoveries and RPDs. No qualifications are required.

Blank Spike/Blank Spike Duplicate (BS/BSD)

No BS/BSDs were analyzed with this SDG.

Compound Identification/Quantitation

No qualifications are required.

ATTACHMENT A

Appendix IX Compounds Associated with only a Continuing Calibration

Compound Name

Acetonitrile
3-Chloropropene
Propionitrile
Methacrylonitrile
Methyl Methacrylate
1,2-Dibromoethane
1,1,1,2-Tetrachloroethane
1,2-Dibromo-3-Chloropropane
Pentachloroethane
Isobutyl alcohol
Chloropropene

GLOSSARY OF DATA QUALIFIERS

QUALIFICATION CODES

U = Not detected

J = Estimated value

UJ = Reported quantitation limit is qualified as estimated

R = Result is rejected and unusable

NJ = Presumptive evidence for the presence of the material at an estimated value

K = Result is biased high

L = Result is biased low

METHOD BLANK QUALIFICATION CODES

CRQL = The sample result for the blank contaminant is less than the sample CRQL and is less than 10X the method blank value. The sample result for the blank contaminant is rejected and the CRQL for that analyte is reported.

U = The sample result for the blank contaminant is greater than the sample CRQL and is less than 10X the method blank value. The sample result for the blank contaminant is qualified as non detected at the analyte value reported.

No Action = The sample result for the blank contaminant is greater than the sample CRQL and is greater than 10X the method blank value. The sample result for the blank contaminant is not qualified with any blank qualifiers.

The specific findings will be noted in numerical form on the Form Is in this data validation report. These specific finding footnotes will reflect the conclusions found in the data validation process that resulted in the qualification of the data.

SUMMARY OF DATA QUALIFICATIONS

SAMPLE ID	ANALYTE ID	DL	QL	SPECIFIC FINDINGS
All samples	Attachment A	+/-	J/UJ	1
VBLKW FIELD_BLANK2 TRIP_BLANK_4 RIG_WATER	chloromethane chloroethane trichlorofluoromethane	+	J	2
VBLKS_2 MPT-2-12S MPT-2-16S MPT-2-17S MPT-13-4 MPT-13-5 MPT-13-6 MPT-22-1S	1,2-chloro-ethane-d_4 trichlorofluoromethane 1,3-dichlorobenzene 1,2-dichlorobenzene	+	J	3
VBLKW_2 VBLKS RINSEATE MPT-13-4DP MPT-134-DUPMSD MPT-134-DUPMS MPT-2-115	trichloro-fluoromethane	+	J	4
All samples	1,4-dioxane	+/-	J/R	5

* DL denotes the Form I qualifier supplied by the laboratory
QL denotes the qualifier used by the data validation firm
+ in the DL column denotes a positive result
- in the DL column denotes a non detect result

SUMMARY OF DATA QUALIFICATIONS

SAMPLE ID	ANALYTE ID	DL	QL	SPECIFIC FINDINGS
RIG_WATER RINSATE MPT-13-4DUP MPT-2-115 MPT-22-1S MPT-13-6 MPT-13-5 MPT-13-4 MPT-2-17S MPT-2-16S MPT-2-12S	methylene-chloride	+	U	6
FIELD_BLANK2 TRIP_BLANK_4	methylene-chloride	+	CRQL	6
RIG_WATER TRIP_BLANK_4 FIELD_BLANK2 MPT-2-115 MPT-13-4 MPT-2-17S	acetone	+	CRQL	6
RINSATE MPT-13-4DUP MPT-13-6 MPT-13-5 MPT-22-1S MPT-2-16S MPT-2-12S	acetone	+	U	6
RIG_WATER TRIP_BLANK_4 FIELD_BLANK2 RINSATE MPT-22-1S	2-butanone	+	CRQL	6

* DL denotes the Form I qualifier supplied by the laboratory
QL denotes the qualifier used by the data validation firm
+ in the DL column denotes a positive result
- in the DL column denotes a non detect result

SUMMARY OF DATA QUALIFICATIONS

SAMPLE ID	ANALYTE ID	DL	QL	SPECIFIC FINDINGS
MPT-13-4DUP	2-butanone	+	U	6
MPT-2-115				
MPT-13-6				
MPT-13-5				
MPT-13-4				
MPT-2-17S				
MPT-2-16S				
MPT-2-12S				

* DL denotes the Form I qualifier supplied by the laboratory
QL denotes the qualifier used by the data validation firm
+ in the DL column denotes a positive result
- in the DL column denotes a non detect result

DATA ASSESSMENT NARRATIVE

SEMIVOLATILE ORGANICS

General

The organic findings offered in this screening report assumes that all analytical results are correct as reported and is based upon the examination of the reported holding times, blank analysis results, surrogate and matrix spike recoveries, GC/MS performance, tuning results, calibration results and internal standard areas. This report was prepared in compliance relative to the analytical and deliverable requirements specified in the U.S. EPA CLP, 2/88 SOW; the National Functional Guidelines for Organic Data Review, and NEESA Level C and D. All comments made within this report should be considered when examining the analytical results (Form I's).

Case # 20753

System Performance and Overall Assessment

The overall system performance was fair. The laboratory deviated from the methodology in the analyses of this SDG, which resulted in qualification of the data. In addition, it must be noted that a NEESA Level C data package does not provide the data validator with all of the necessary supporting documentation to investigate the data thoroughly for errors.

Contractual Non Compliance

Heartland ESI observed several instances of non compliance throughout the data package.

* The laboratory analyzed eighteen (18) **(See Attacment A)** of the forty-three (43) Appendix IX compounds in a one point continuing calibration mixture analyzed each day before analysis. These eighteen (18) compounds did not have an initial calibration associated with this analysis.

* The CRQLs reported by the laboratory for the twelve (12) compounds reflect an initial calibration, not the continuing calibration that was analyzed. Additional information was required to support the CRQLS reported by the laboratory due the lack of an initial calibration. The laboratory provided Heartland ESI with a MDL study performed for these compounds, dated June 5, 1991. The twelve (12) compounds are qualified at the reported CRQL as estimated (J/UJ).

Contractual Non Compliance (continued)

* The laboratory reported CRQLs for two (2) of the Appendix IX compounds (see **Attachment B)** which did not have an initial or continuing calibration associated with the analyses. All results for these two (2) compounds will be rejected.

* The laboratory used the blank qualifier flag (B) incorrectly for method blank contamination on the method blank Form 1s.

* The laboratory is reporting the wrong method blank ID on the form 4As.

Specific findings:

1. For all of the samples, qualifications are required for the laboratory reported CRQLs that could not be supported for the target compounds listed in Attachment A. Due to the MDL study for these compounds provided by the laboratory, Heartland ESI will accept these CRQLs with the qualification that all non detect results are estimated (UJ). In addition, all positive results for these compounds are qualified as estimated (J) due to the lack of an initial calibration.

2. For all of the samples, rejection is required for the two (2) compounds in Attachment B. The laboratory did not provide calibration data for these two (2) compounds. All results for these compounds are rejected (R).

Holding Times

All extraction and analysis holding times were met for all samples.

Tuning

All of the DFTPP tunes in the initial and continuing calibrations met the percent relative abundance criteria of the SOW and the Organic Functional Guidelines. No qualifications are required.

Initial Calibrations

The initial calibrations that were analyzed by the laboratory for these samples were acceptable for all compound %RSDs, with the exception of 2-picoline in the initial calibration analyzed on 01/23/92. The average RRFs for all of the criteria compounds met the initial calibration criteria. No qualifications are required.

Continuing Calibrations

The continuing calibrations that were analyzed with this data package require qualifications for non compliant %Ds for and non criteria calibration compounds. All of the criteria and non criteria compounds met RRF requirements.

Specific Findings:

3. For the samples listed below, the continuing calibration, DSBA009733, contained the following compounds with %Ds greater than 25%. Qualify all positive results for these compounds as estimated (J).

SBLKW	indeno(1,2,3-cd)pyrene
FIELD_BLANK2	dibenzo(a,h)anthracene
RINSATE	2-nitroaniline
RIG_WATER	4-nitrophenol
	4-nitroaniline
	N-nitrosodimethylamine
	methyl methanesulfonate
	benzidine
	pentachlorobenzene

4. For the samples listed below, the continuing calibration, DSBA009750, contained the following compounds with %Ds greater than 25%. Qualify all positive results for these compounds as estimated (J).

SBLKS	bis(2-chloroethoxy)methane
MPT-2-115	benzo(k)fluoranthene
MPT-1-12S	dibenzo(a,h)anthracene
MPT-2-16S	2,4-dinitrophenol
MPT-2-17S	4-nitrophenol
MPT-13-4	4-nitroaniline
MPT-13-6	4,6-dinitro-2-methylphenol
MPT-13-4DUP	3,3'-dichlorobenzidine
MPT134DUPMS	
MPT134DUPMSD	
MPT-13-5	

Internal Standards

All of the blank and sample internal standard EICP areas met the EICP internal standard area QA/QC criteria. No qualifications are required.

Method Blanks

The method blanks that were analyzed exhibited contamination for di-n-butylphthalate. The method blank results will be compared to their associated samples. Refer to the glossary of data qualifiers for a list and definition of the method blank qualifiers: CRQL, U and No Action.

Specific findings:

5. The following samples have been qualified for blank contamination. Qualification are for all method blanks.

bis(2-ethylhexyl)phthalate - U	bis(2-ethylhexyl)phthalate - CRQL
RIG_WATER	MPT-13-4DUP
RINSATE	MPT-13-6
FIELD_BLANK2	MPT-13-5
MPT-2-16S	MPT-13-4
MPT-1-115	MPT-2-17S
	MPT-2-12S

di-n-butylphthalate - U	di-n-butylphthalate - CRQL
RIG_WATER	RINSATE
MPT-13-4DUP	FIELD_BLANK2
MPT-13-6	MPT-22-1S
MPT-13-5	
MPT-13-4	
MPT-2-17S	
MPT-2-16S	
MPT-2-12S	
MPT-2-115	

Method Blanks (continued)

pentachlorophenol- U	pentachlorophenol- CRQL
MPT-13-4DUP	MPT-13-5
MPT-13-6	
MPT-13-4	
MPT-2-17S	
MPT-2-16S	
MPT-2-12S	
MPT-2-115	

Surrogates

One (1) sample exhibited one surrogate recovery not within QA/QC criteria. Qualifications are not required.

Matrix Spike/Matrix Spike Duplicate

The MS/MSD analyzed with these samples exhibited acceptable recoveries and RPDs. No qualifications are required.

Blank Spike/Blank Spike Duplicate

No BS/BSDs were associated with this SDG.

Compound Identification/Quantitation

No qualifications are required.

ATTACHMENT A

Appendix IX Compounds Associated with only a Continuing Calibration

Compound Name

N-Nitrosodiethylamine
N-Nitrosopyrrolidine
N-Nitrosomethylethylamine
N-Nitrosomorpholine
o-Toluidine
Hexachloropropene
p-Phenyleneamine
Safrole
Isosafrole
1,4-Napthoquinone
1,3-Dinitrobenzene
5-Nitro-o-toluidine
1,3,5-Trinitrobenzene
4-Nitroquinoline-1-oxide
Methapyrilene
3,3'-Dimethylbenzidine
2-Acetamidofluorene
Hexachlorophene

ATTACHMENT B

Appendix IX Compounds Associated with No Calibrations

Compound Name
Phenyl-tert-butylamine
Diphenylamine

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* All compounds are rejected due to missing initial and continuing calibrations.

GLOSSARY OF DATA QUALIFIERS

QUALIFICATION CODES

U = Not detected

J = Estimated value

UJ = Reported quantitation limit is qualified as estimated

R = Result is rejected and unusable

NJ = Presumptive evidence for the presence of the material at an estimated value

K = Result is biased high

L = Result is biased low

METHOD BLANK QUALIFICATION CODES

CRQL = The sample result for the blank contaminant is less than the sample CRQL and is less than 10X the method blank value. The sample result for the blank contaminant is rejected and the CRQL for that analyte is reported.

U = The sample result for the blank contaminant is greater than the sample CRQL and is less than 10X the method blank value. The sample result for the blank contaminant is qualified as non detected at the analyte value reported.

No Action = The sample result for the blank contaminant is greater than the sample CRQL and is greater than 10X the method blank value. The sample result for the blank contaminant is not qualified with any blank qualifiers.

The specific findings will be noted in numerical form on the Form Is in this data validation report. These specific finding footnotes will reflect the conclusions found in the data validation process that resulted in the qualification of the data.

SUMMARY OF DATA QUALIFICATIONS

SAMPLE ID	ANALYTE ID	DL	QL	SPECIFIC FINDINGS
All samples	Attachment A	+/-	J/UJ	1
All samples	Attachment B	+/-	R	2
SBLKW FIELD_BLANK2 RIG_WATER RINSATE	indeno(1,2,3-cd)-pyrene dibenzo(a,h)anthracene 2-nitroaniline 4-nitrophenol N-nitrosodimethylamine methyl methanesulfonate benzidine pentachlorobenzene 4-nitroaniline	+	J	3
SBLKS MPT-2-115 MPT-13-5 MPT-1-12S MPT-2-16S MPT-2-17S MPT-13-4 MPT-13-6 MPT-13-4DUP MPT134DUPMS MPT134DUPMSD	bis(2-chloro-ethoxy)methane benzo(k)fluoranthene dibenzo(a,h)anthracene 2,4-dinitrophenol 4-nitrophenol 4-nitroaniline 4,6-dinitro-2-methylphenol 3,3'-dichlorobenzidine	+	J	4
RIG_WATER RINSATE FIELD_BLANK2 MPT-2-16S MPT-1-115	bis(2-ethyl-hexyl)phthalate	+	U	5

* DL denotes the Form I qualifier supplied by the laboratory
QL denotes the qualifier used by the data validation firm
+ in the DL column denotes a positive result
- in the DL column denotes a non detect result

SUMMARY OF DATA QUALIFICATIONS

SAMPLE ID	ANALYTE ID	DL	QL	SPECIFIC FINDINGS
MPT-13-4DUP MPT-13-6 MPT-13-5 MPT-13-4 MPT-2-17S MPT-2-12S	bis(2-ethyl-hexyl)phthalate	+	CRQL	5
RIG_WATER MPT-13-4DUP MPT-13-6 MPT-13-5 MPT-13-4 MPT-2-17S MPT-2-16S MPT-2-12S MPT-2-115	di-n-butyl-phthalate	+	U	5
RINSATE FIELD_BLANK2 MPT-22-1S	di-n-butyl-phthalate	+	CRQL	5
MPT-13-4DUP MPT-13-6 MPT-13-4 MPT-2-17S MPT-2-16S MPT-2-12S MPT-2-115	pentachlorophenol	+	U	5
MPT-13-5	pentachlorophenol	+	CRQL	5

* DL denotes the Form I qualifier supplied by the laboratory
QL denotes the qualifier used by the data validation firm
+ in the DL column denotes a positive result
- in the DL column denotes a non detect result

DATA ASSESSMENT NARRATIVE

VOLATILE ORGANICS

The organic findings offered in this screening report assumes that all analytical results are correct as reported and is based upon the examination of the reported holding times, blank analysis results, surrogate and matrix spike recoveries, GC/MS performance, tuning results, calibration results and internal standard areas. This report was prepared in compliance relative to the analytical and deliverable requirements specified in the U.S. EPA CLP, 2/88 SOW; the National Functional Guidelines for Organic Data Review, and NEESA Level C and D. All comments made within this report should be considered when examining the analytical results (Form I's).

Case # 20877

System Performance and Overall Assessment

The overall system performance was fair. The laboratory deviated from the methodology in the analyses of the this SDG, which resulted in qualification of the data. In addition, it must be noted that a NEESA Level C data package does not provide the data validator with all of the necessary supporting documentation to investigate the data thoroughly for errors.

Contractual Non Compliance

Heartland ESI observed several instances of non compliance throughout the data package.

* The laboratory analyzed twelve (12) (see **Attachment A**) of the twenty-three (23) Appendix IX compounds in a one point continuing calibration mixture analyzed each day before analysis. These twelve (12) compounds did not have an initial calibration associated with this analysis.

* The CRQLs reported by the laboratory for the twelve (12) compounds reflect an initial calibration, not the continuing calibration that was analyzed. Additional information was required to support the CRQLS reported by the laboratory due the lack of an initial calibration. The laboratory provided Heartland ESI with a MDL study performed for these compounds, dated June 5, 1991. The twelve (12) compounds are qualified at the reported CRQL as estimated (J/UJ).

* The laboratory used the blank qualifier flag (B) incorrectly for method blank contamination on the method blank Form 1s.

Contractual Non Compliance (continued)

* The laboratory did not analyze separate calibrations for water and soil analyses **(E-13/VOA, 2.1.1).**

* The laboratory is reporting the wrong method blank ID on the form 4As.

Specific findings:

1. For all of the samples, qualifications are required for the laboratory reported CRQLs that could not be supported for the target compounds listed in Attachment A. Due to the MDL study for these compounds provided by the laboratory, Heartland ESI will accept these CRQLs with the qualification that all non detect results are estimated (UJ). In addition, all positive results for these compounds are qualified as estimated (J) due to the lack of an initial calibration.

Holding Times

All of the samples were analyzed within the contractual holding times for volatile analysis. No qualification are required.

Tuning

All of the BFB tunes in the initial and continuing calibrations met the percent relative abundance criteria of the SOW and the Organic Functional Guidelines. No qualifications are required.

Initial Calibrations

The initial calibration that was analyzed by the laboratory for these samples was acceptable for all %RSDs. One compound, 1,4-dioxane, exhibited a RRF less than 0.05. No qualifications are required since samples were not analyzed after the initial calibration.

Continuing Calibrations

Two (2) of the three (3) continuing calibrations that were analyzed with this data package required qualifications for non compliant %Ds. All of the calibrations require qualifications for non compliant RRFs.

Continuing Calibrations (continued)

Specific findings:

2. For the samples listed below, the continuing calibration, CSVO020470, contained the following compounds with %Ds greater than 25% D, but less than 50% D. Qualify all positive results for these compounds as estimated (J).

VBLKW	carbon
MPT2MW04-01	tetrachloride
MPT2MW5-01	trans-13,-dichloropropene
MPT2MW8-01	chloromethane
MPT2MW10-01	trichlorofluoromethane
MPT2MW15S-01	1,2-dichlorobenzene
	dibromomethane

3. For the samples listed below, the continuing calibration, CSVO020530, contained the following compounds with %Ds greater than 25% D, but less than 50% D. Qualify all positive results for these compounds as estimated (J).

VBLKW_3	acetone
TRIP BLANK	2-butanone
	2-hexanone
	4-methyl-2-pentanone
	ethyl methacrylate
	1,2,3-trichloropropane
	trans-1,4-dichloro-2-butene

4. For all of the samples, the continuing calibrations contained the 1,4-dioxane with a RRF less than 0.05. Qualify all positive results for this compound as estimated (J) and reject (R) all non detect results.

Internal Standards

All of the internal standard EICP areas for the samples and the blanks were within QA/QC limits. No qualifications are required.

Method Blanks

The method blanks that were analyzed exhibited contamination for methylene chloride and/or acetone. The method blank results will be compared to their associated samples. Refer to the glossary of data qualifiers for a list and definition of the method blank qualifiers: CRQL, U and No Action.

Specific Findings:

5. The following samples have been qualified for blank contamination. Qualifications are for all method blanks.

<u>methylene chloride - CRQL</u>

MPT2MW15S-01
MPT2MW8-01
MPT2MW5-01
MPT2MW4-01
MPT2MW5-01D

<u>methylene chloride - U</u>

MPT2MW10-01
MPT2MW16S-01
MPT2MW15D-01
TRIP BLANK

<u>acetone - CRQL</u>

MPT2MW15S-01
MPT2MW8-01
MPT2MW16S-01

<u>acetone - U</u>

MPT2MW10-01
MPT2MW5-01
MPT2MW4-01
MPT2MW5-01D
MPT2MW15D-01
TRIP BLANK

Trip Blanks

The trip blank analyzed with this SDG exhibited contamination that was attributed to the method blank. No qualifications are required.

Rinseate/Field Blanks

A rinseate or field blank was not identifiable in this SDG.

Surrogates

All of the surrogate recoveries were within QA/QC limits. No qualifications are required

Matrix Spike/Matrix Spike Duplicate (MS/MSD)

The MS/MSD exhibited acceptable recoveries and RPDs. No qualifications are required.

Blank Spike/Blank Spike Duplicate (BS/BSD)

No BS/BSDs were analyzed with this SDG.

Compound Identification/Quantitation

No qualifications are required.

ATTACHMENT A

Appendix IX Compounds Associated with only a Continuing Calibration

Compound Name
Acetonitrile
3-Chloropropene
Propionitrile
Methacrylonitrile
Methyl Methacrylate
1,2-Dibromoethane
1,1,1,2-Tetrachloroethane
1,2-Dibromo-3-Chloropropane
Pentachloroethane
Isobutyl alcohol
Chloropropene

GLOSSARY OF DATA QUALIFIERS

QUALIFICATION CODES

U = Not detected

J = Estimated value

UJ = Reported quantitation limit is qualified as estimated

R = Result is rejected and unusable

NJ = Presumptive evidence for the presence of the material at an estimated value

K = Result is biased high

L = Result is biased low

METHOD BLANK QUALIFICATION CODES

CRQL = The sample result for the blank contaminant is less than the sample CRQL and is less than 10X the method blank value. The sample result for the blank contaminant is rejected and the CRQL for that analyte is reported.

U = The sample result for the blank contaminant is greater than the sample CRQL and is less than 10X the method blank value. The sample result for the blank contaminant is qualified as non detected at the analyte value reported.

No Action = The sample result for the blank contaminant is greater than the sample CRQL and is greater than 10X the method blank value. The sample result for the blank contaminant is not qualified with any blank qualifiers.

The specific findings will be noted in numerical form on the Form Is in this data validation report. These specific finding footnotes will reflect the conclusions found in the data validation process that resulted in the qualification of the data.

SUMMARY OF DATA QUALIFICATIONS

SAMPLE ID	ANALYTE ID	DL	QL	SPECIFIC FINDINGS
All samples	Attachment A	+/-	J/UJ	1
VBLKW MPT2MW04-01 MPT2MW5-01 MPT2MW8-01 MPT2MW10-01 MPT2MW15S-01	carbon tetrachloride trans-13,-dichloropropene chloromethane trichlorofluoromethane 1,2-dichlorobenzene dibromomethane	+	J	2
VBLKW_3 TRIP BLANK	acetone 2-butanone 2-hexanone 4-methyl-2-pentanone ethyl methacrylate 1,2,3-trichloropropane trans-1,4-dichloro-2-butene	+	J	3
All samples	1,4-dioxane	+/-	J/R	4
MPT2MW15S-01 MPT2MW8-01 MPT2MW5-01 MPT2MW4-01 MPT2MW5-01D	methylene chloride	+BJ	CRQL	5
MPT2MW10-01 MPT2MW16S-01 MPT2MW15D-01 TRIP BLANK	methylene chloride	+B	U	5

* DL denotes the Form I qualifier supplied by the laboratory
QL denotes the qualifier used by the data validation firm
+ in the DL column denotes a positive result
- in the DL column denotes a non detect result

SUMMARY OF DATA QUALIFICATIONS

SAMPLE ID	ANALYTE ID	DL	QL	SPECIFIC FINDINGS
MPT2MW15S-01 MPT2MW8-01 MPT2MW16S-01	acetone	+BJ	CRQL	5
MPT2MW10-01 MPT2MW5-01 MPT2MW4-01 MPT2MW5-01D MPT2MW15D-01 TRIP BLANK	acetone	+B	U	5

* DL denotes the Form I qualifier supplied by the laboratory
QL denotes the qualifier used by the data validation firm
+ in the DL column denotes a positive result
- in the DL column denotes a non detect result

DATA ASSESSMENT NARRATIVE

SEMIVOLATILE ORGANICS

General

The organic findings offered in this screening report assumes that all analytical results are correct as reported and is based upon the examination of the reported holding times, blank analysis results, surrogate and matrix spike recoveries, GC/MS performance, tuning results, calibration results and internal standard areas. This report was prepared in compliance relative to the analytical and deliverable requirements specified in the U.S. EPA CLP, 2/88 SOW; the National Functional Guidelines for Organic Data Review, and NEESA Level C and D. All comments made within this report should be considered when examining the analytical results (Form I's).

Case # 20877

System Performance and Overall Assessment

The overall system performance was fair. The laboratory deviated from the methodology in the analyses of this SDG, which resulted in qualification of the data. In addition, it must be noted that a NEESA Level C data package does not provide the data validator with all of the necessary supporting documentation to investigate the data thoroughly for errors.

Contractual Non Compliance

Heartland ESI observed several instances of non compliance throughout the data package.

* The laboratory analyzed eighteen (18) **(See Attachment A)** of the forty-three (43) Appendix IX compounds in a one point continuing calibration mixture analyzed each day before analysis. These eighteen (18) compounds did not have an initial calibration associated with this analysis.

* The CRQLs reported by the laboratory for the twelve (12) compounds reflect an initial calibration, not the continuing calibration that was analyzed. Additional information was required to support the CRQLS reported by the laboratory due the lack of an initial calibration. The laboratory provided Heartland ESI with a MDL study performed for these compounds, dated June 5, 1991. The twelve (12) compounds are qualified at the reported CRQL as estimated (J/UJ).

Contractual Non Compliance (continued)

* The laboratory reported CRQLs for two (2) of the Appendix IX compounds (see **Attachment B)** which did not have an initial or continuing calibration associated with the analyses. All results for these two (2) compounds will be rejected.

* The laboratory used the blank qualifier flag (B) incorrectly for method blank contamination on the method blank Form 1s.

* The laboratory is reporting the wrong method blank ID on the form 4As.

Specific findings:

1. For all of the samples, qualifications are required for the laboratory reported CRQLs that could not be supported for the target compounds listed in Attachment A. Due to the MDL study for these compounds provided by the laboratory, Heartland ESI will accept these CRQLs with the qualification that all non detect results are estimated (UJ). In addition, all positive results for these compounds are qualified as estimated (J) due to the lack of an initial calibration.

2. For all of the samples, rejection is required for the two (2) compounds in Attachment B. The laboratory did not provide calibration data for these two (2) compounds. All results for these compounds are rejected (R).

Holding Times

All extraction holding times and analysis holding times were met for all samples. No qualifications are required.

Tuning

All of the DFTPP tunes in the initial and continuing calibrations met the percent relative abundance criteria of the SOW and the Organic Functional Guidelines. No qualifications are required.

Initial Calibrations

One (1) of the initial calibrations that were analyzed by the laboratory for these samples was not acceptable for all compound %RSDs. All RRFs were acceptable.

Specific findings:

3. The initial calibration analyzed on 02/17/92 contained the following compounds with %RSDs greater than 30%. No qualifications are required since samples were not analyzed after the initial calibration.

   benzidine
   1-naphthylamine
   2-naphthylamine
   4-aminobiphenyl

Continuing Calibrations

The continuing calibration that was analyzed with this sample required qualifications for non compliant %Ds. All of the criteria and non criteria compounds met RRF requirements.

Specific Findings:

4. For the samples listed below, the continuing calibration, DSBA09998, contained the following compounds with %Ds greater than 25%, but less than 50%. Qualify all positive results for these compounds as estimated (J).

SBLKW	benzoic acid
MPT2MW5-01	4-nitrophenol
	4,6-dinitro-2-methylphenol
	2-naphthylamine
	4-aminobiphenyl

5. For the samples listed below, the continuing calibration, DSBA09998, contained the following compounds with %Ds greater than 50%, but less than 90%. Qualify all positive results for these compounds as estimated (J) and all non detect results as estimated (UJ).

SBLKW	2,4-dinitro-
MPT2MW5-01	phenol

Continuing Calibrations (continued)

6. For the samples listed below, the continuing calibration, DSBA010016, contained the following compounds with %Ds greater than 25%, but less than 50%. Qualify all positive results for these compounds as estimated (J).

SBLKW_2	4-nitrophenol
MPT2MW4-01	1-naphthylamine
MPT2MW10-01	2-naphthylamine
MPT2MW15D-01	phenacetin
MPT2MW16S-01	
MPT2MW5-01D	
MPT2MW501DMS	
MPT2MW501DMSD	

7. For the samples listed below, the continuing calibration, ASBA013104, contained the following compounds with %Ds greater than 25%, but less than 50%. Qualify all positive results for these compounds as estimated (J).

SBLKW_3	hexachloro-
MPT2MW15S-01	benzene
	benzo(k)anthene
	bis(2-chloroisopropyl)ether
	2,4-dinitrophenol
	4-nitroaniline
	3,3'-dichlorobenzidine
	2-picoline
	methyl methanesulfonate
	N-nitrosopiperdine
	1-naphthylamine

Continuing Calibrations (continued)

8. For the samples listed below, the continuing calibration, ASBA013104, contained the following compounds with %Ds greater than 50%, but less than 90%. Qualify all positive results for these compounds as estimated (J) and all non detect results as estimated (UJ).

SBLKW_3	benzidine
MPT2MW15S-01	2-naphthylamine
	4-aminobiphenyl

Internal Standards

All of the blank and sample internal standard EICP areas met the EICP internal standard area QA/QC criteria. No qualifications are required.

Method Blanks

The method blanks that were analyzed exhibited contamination for TCLs. The method blank results will be compared to their associated samples. Refer to the glossary of data qualifiers for a list and definition of the method blank qualifiers: CRQL, U and No Action.

Specific findings:

9. The following samples have been qualified for method blank contamination.

<u>di-n-butylphthalate - CRQL</u>

MPT2MW5-01
MPT2MW8-01

<u>bis(2-ethylhexyl)phthalate - CRQL</u>

MPT2MW5-01
MPT2MW8-01
MPT2MW10-01

Surrogates

All of the surrogate recoveries were within QA/QC criteria. No qualifications are required.

Matrix Spike/Matrix Spike Duplicate

The MS/MSD exhibited acceptable recoveries. No qualifications are required.

Blank Spike/Blank Spike Duplicate

No BS/BSDs were associated with this SDG.

Compound Identification/Quantitation

No qualifications are required.

ATTACHMENT A

Appendix IX Compounds Associated with only a Continuing Calibration

Compound Name
N-Nitrosodiethylamine
N-Nitrosopyrrolidine
N-Nitrosomethylethylamine
N-Nitrosomorpholine
o-Toluidine
Hexachloropropene
p-Phenyleneamine
Safrole
Isosafrole
1,4-Napthoquinone
1,3-Dinitrobenzene
5-Nitro-o-toluidine
1,3,5-Trinitrobenzene
4-Nitroquinoline-1-oxide
Methapyrilene
3,3'-Dimethylbenzidine
2-Acetamidofluorene
Hexachlorophene

ATTACHMENT B

Appendix IX Compounds Associated with No Calibrations

Compound Name
Phenyl-tert-butylamine
Diphenylamine

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* All compounds are rejected due to missing initial and continuing calibrations.

GLOSSARY OF DATA QUALIFIERS

QUALIFICATION CODES

U = Not detected

J = Estimated value

UJ = Reported quantitation limit is qualified as estimated

R = Result is rejected and unusable

NJ = Presumptive evidence for the presence of the material at an estimated value

K = Result is biased high

L = Result is biased low

METHOD BLANK QUALIFICATION CODES

CRQL = The sample result for the blank contaminant is less than the sample CRQL and is less than 10X the method blank value. The sample result for the blank contaminant is rejected and the CRQL for that analyte is reported.

U = The sample result for the blank contaminant is greater than the sample CRQL and is less than 10X the method blank value. The sample result for the blank contaminant is qualified as non detected at the analyte value reported.

No Action = The sample result for the blank contaminant is greater than the sample CRQL and is greater than 10X the method blank value. The sample result for the blank contaminant is not qualified with any blank qualifiers.

The specific findings will be noted in numerical form on the Form Is in this data validation report. These specific finding footnotes will reflect the conclusions found in the data validation process that resulted in the qualification of the data.

SUMMARY OF DATA QUALIFICATIONS

SAMPLE ID	ANALYTE ID	DL	QL	SPECIFIC FINDINGS
All samples	Attachment A	+/-	J/UJ	1
All samples	Attachment B	+/-	R	2
SBLKW MPT2MW5-01	benzoic acid 4-nitrophenol 4,6-dinitro-2-methylphenol 2-naphthylamine 4-aminobiphenyl	+	J	4
SBLKW MPT2MW5-01	2,4-dinitro-phenol	+/-	J/UJ	5
SBLKW_2 MPT2MW4-01 MPT2MW10-01 MPT2MW15D-01 MPT2MW16S-01 MPT2MW5-01D MPT2MW501DMS MPT2MW501DMSD	4-nitrophenol 1-naphthylamine 2-naphthylamine phenacetin	+	J	6

* DL denotes the Form I qualifier supplied by the laboratory
QL denotes the qualifier used by the data validation firm
+ in the DL column denotes a positive result
- in the DL column denotes a non detect result

SUMMARY OF DATA QUALIFICATIONS

SAMPLE ID	ANALYTE ID	DL	QL	SPECIFIC FINDINGS
SBLKW_3 MPT2MW15S-01	hexachloro-benzene benzo(k)anthene bis(2-chloroisopropyl)ether 2,4-dinitrophenol 4-nitroaniline 3,3'-dichlorobenzidine 2-picoline methyl methanesulfonate N-nitrosopiperdine 1-naphthylamine	+	J	7
SBLKW_3 MPT2MW15S-01	benzidine 2-naphthylamine 4-aminobiphenyl	+/-	J/UJ	8
MPT2MW5-01 MPT2MW8-01	di-n-butyl-phthalate	+BJ	CRQL	9
MPT2MW5-01 MPT2MW8-01 MPT2MW10-01	bis(2-ethyl-hexyl)phthalate	+BJ	CRQL	9

* DL denotes the Form I qualifier supplied by the laboratory
QL denotes the qualifier used by the data validation firm
+ in the DL column denotes a positive result
- in the DL column denotes a non detect result

DATA ASSESSMENT NARRATIVE

ORGANOCHLORINE PESTICIDES AND PCBS - METHOD 8080

General

The organic findings offered in this screening report assumes that all analytical results are correct as reported and is based upon the examination of the reported holding times, GC instrument performance, initial and continuing calibrations, analytical sequence, blank analysis results, surrogate recoveries, and MS/MSD results. All comments made within this report should be considered when examining the analytical results (Form Is). Please refer the specific findings found in each category to the Summary of Data Qualification table.

LABORATORY NUMBER: 20877

Contractual Non-Compliance

The laboratory did not provide a CLP Form 9 or equivalent summary of retention time information as required under the NEESA QA Requirements (*NEESA 20.2-047B, June 1988, page 61, Table 7.6*) for Level C Deliverables for the Pesticide/PCB data. No qualification of the reported data was made based on this deficiency.

One Appendix IX compound from this fraction, Kepone, was "Not Reported - due to poor recovery from spiking studies performed at the laboratory".

Holding Times

Sample MPT2MW15D-01RX was re-extracted outside the required hold time.

Specific Finding

1. All reported non-detect results for sample MPT2MW15D-01RX are qualified as estimated because it was re-extracted outside the required hold time.

All other samples were extracted and analyzed within the required hold times based on the Chain-of-Custodies and Form 4s included in the package.

GC Instrument Performance

This GC analytical fraction was apparently analyzed utilizing internal standards, relative retention times and relative response factors. All percent breakdowns reported were within the required QC limits. No surrogate retention time information was available. Target compound resolution and potential internal standard or surrogate interferences could not be determined. No qualifications of the reported non-detect results were made based on instrument performance.

Initial Calibration

The single-component pesticides were analyzed using an initial five-point calibrations. Only the relative concentrations of the standards used for these calibrations were presented in the limited Level C data package. Thus, none of the reported CRQLs could be verified due to the lack of information regarding concentrations of the lowest standards and final extract volumes for the samples. No information regarding the Aroclor initial calibrations was contained in the data package.

The initial calibration for the single-component pesticides were presented using non-linear quadratic model statistics. All quadratic correlations were acceptable. No qualification of the reported results were required based on the initial calibration.

Continuing Calibrations

All %Ds for all continuing calibrations were within QC limits with only one exception. Delta-BHC was slightly above the 15% D QC limit in one continuing calibration.

Specific Finding

2. All samples appear to be associated with the continuing calibration containing a high % difference due to a decrease in response for Delta-BHC. Therefore, all reported non-detect results for this compound are qualified as estimated.

Blanks

The reported Form Is for the Method blanks showed no confirmed positive results above the reported CRQLs. No qualifications were required.

Surrogate Recoveries

Recovery limits for the surrogates appear to be those of the USEPA CLP 2/88 SOW.

Specific Finding

3. Sample MPT2MW15D-01 showed 0% recovery for the DBC surrogate. All non-detect results (all) for this sample are rejected, "R".

Matrix Spike/Matrix Spike Duplicate

All Recoveries and RPDs for the MS/MSD included in this data package were within QC limits. No qualifications were required.

Analyte Identification/Quantitation

All reported results for these samples are accepted without additional qualification based on the limited information contained in the NEESA Level C deliverables package.

QUALIFICATION CODES

U	=	Not detected
J	=	Reported result is quantitatively estimated
UJ	=	Reported quantitation limit is qualified as estimated
R	=	Result is rejected and unusable
N	=	Result is negated, do not consider result in sample
NJ	=	Presumptive evidence for the presence of the material at an estimated concentration

Validation specific findings are noted in numerical form on the Form Is in this data validation report. These specific finding footnotes reflect the conclusions found in the data validation process that resulted in the qualifications of the data.

SUMMARY OF GC DATA QUALIFICATIONS

SAMPLE ID	ANALYTE ID	DL	QL	SPECIFIC FINDINGS
MPT2MW15D-01RX	All	U	UJ	1
All	delta-BHC	U	UJ	2
MPT2MW15D-01	All	U	R	3

* DL denotes the Form I qualifier/value supplied by the laboratory
QL denotes the qualifier/value used by Validator

+ in the DL column denotes a positive result
+ in the QL column denotes a reviewer revised result

HEARTLAND ENVIRONMENTAL
SERVICES, INC.

DATA ASSESSMENT NARRATIVE
Metals
and Wet Chemistry

General

The inorganic findings offered in this screening report assumes that all analytical results are correct as reported and is based upon the examination of the reported holding times, calibration standards, blank analysis results and MS/MSD results. A minimum of ten percent of all laboratory calculations. All comments made within this report should be considered when examining the analytical results (Form Is).

This data package consisted of results from **Mayport, SDG# 20877**, the analysis of eight (8) field water sample and one Matrix Spike and Duplicate pair for Cyanide only and seven (7) field water samples for Wet Chemistry analyses. Overall, the inorganic data quality was fair. Level C data validation reviews rely on the laboratory filling out the forms correctly. The All protocol requirements were followed.

Specific QA/QC deficiency Findings are listed numerically in the following categories:

Holding Times

The holding times were met as specified in Section 3 of the NEESA (20.2-047B) QA protocol.

Calibration

No deficiencies in this section.

Preparation and Field Blanks

No deficiencies in this section.

Interferences

No significant interferences were observed.

Spike Recovery

No deficiencies in this section.

Duplicate

No deficiencies in this section.

LCS

No deficiencies in this section.

Serial Dilution

No deficiencies in this section.

MSA

No deficiencies in this section.

Wet Chemistry

The samples were reviewed for holding times, detection limit and LCSs.

SUMMARY OF DATA QUALIFICATIONS

SAMPLE ID	ANALYTE	DL	QL	SPECIFIC FINDING
All water data stands as reported without qualification.				
All water samples	The Wet Chemistry will stands as reported without qualification.			

DL - denotes laboratory qualifier/reported value
+ denotes positive values
U denotes non-detect values

QL - denotes data validation qualifier

DATA ASSESSMENT NARRATIVE

VOLATILE ORGANICS

The organic findings offered in this screening report assumes that all analytical results are correct as reported and is based upon the examination of the reported holding times, blank analysis results, surrogate and matrix spike recoveries, GC/MS performance, tuning results, calibration results and internal standard areas. This report was prepared in compliance relative to the analytical and deliverable requirements specified in the U.S. EPA CLP, 2/88 SOW; the National Functional Guidelines for Organic Data Review, and NEESA Level C and D. All comments made within this report should be considered when examining the analytical results (Form I's).

Case # 20884

System Performance and Overall Assessment

The overall system performance was fair. The laboratory deviated from the methodology in the analyses of the this SDG, which resulted in qualification of the data. In addition, it must be noted that a NEESA Level C data package does not provide the data validator with all of the necessary supporting documentation to investigate the data thoroughly for errors.

Contractual Non Compliance

Heartland ESI observed several instances of non compliance throughout the data package.

* The laboratory analyzed twelve (12) (see **Attachment A**) of the twenty-three (23) Appendix IX compounds in a one point continuing calibration mixture analyzed each day before analysis. These twelve (12) compounds did not have an initial calibration associated with this analysis.

* The CRQLs reported by the laboratory for the twelve (12) compounds reflect an initial calibration, not the continuing calibration that was analyzed. Additional information was required to support the CRQLS reported by the laboratory due the lack of an initial calibration. The laboratory provided Heartland ESI with a MDL study performed for these compounds, dated June 5, 1991. The twelve (12) compounds are qualified at the reported CRQL as estimated (J/UJ).

* The laboratory used the blank qualifier flag (B) incorrectly for method blank contamination on the method blank Form 1s.

Contractual Non Compliance (continued)

* The laboratory did not analyze separate calibrations for water and soil analyses **(E-13/VOA, 2.1.1).**

* The laboratory is reporting the wrong method blank ID on the form 4As.

Specific findings:

1. For all of the samples, qualifications are required for the laboratory reported CRQLs that could not be supported for the target compounds listed in Attachment A. Due to the MDL study for these compounds provided by the laboratory, Heartland ESI will accept these CRQLs with the qualification that all non detect results are estimated (UJ). In addition, all positive results for these compounds are qualified as estimated (J) due to the lack of an initial calibration.

Holding Times

All of the samples were analyzed within the contractual holding times for volatile analysis. No qualification are required.

Tuning

All of the BFB tunes in the initial and continuing calibrations met the percent relative abundance criteria of the SOW and the Organic Functional Guidelines. No qualifications are required.

Initial Calibrations

The initial calibration that was analyzed by the laboratory for these samples was acceptable for all %RSDs. One compound, 1,4-dioxane, exhibited a RRF less than 0.05. No qualifications are required since samples were not analyzed after the initial calibration.

Continuing Calibrations

One (1) of the three (3) continuing calibrations that were analyzed with this data package required qualifications for non compliant %Ds. All of the calibrations require qualifications for non compliant RRFs.

Continuing Calibrations (continued)

Specific findings:

2. For the samples listed below, the continuing calibration, CSVO020549, contained the following compounds with %Ds greater than 25% D, but less than 50% D. Qualify all positive results for these compounds as estimated (J).

VBLKW_2	chloromethane
MPT2MW7D-01	bromomethane
MPT2MW2-01	
MPT2MW2-01D	
MPT2MW2-01DMS	
MPT2MW2-01DMSD	

3. For all of the samples, the continuing calibrations contained the 1,4-dioxane with a RRF less than 0.05. Qualify all positive results for this compound as estimated (J) and reject (R) all non detect results.

Internal Standards

All of the internal standard EICP areas for the samples and the blanks were within QA/QC limits. No qualifications are required.

Method Blanks

The method blanks that were analyzed exhibited contamination for methylene chloride and/or acetone. The method blank results will be compared to their associated samples. Refer to the glossary of data qualifiers for a list and definition of the method blank qualifiers: CRQL, U and No Action.

Method Blank (continued)

Specific Findings:

4. The following samples have been qualified for blank contamination. Qualifications are for all method blanks.

<u>methylene chloride - CRQL</u>

MPT2MW6-01
MPT2MW7S-01

<u>methylene chloride - U</u>

MPT2MW1-01
TRIP BLANK
MPT-FB-01
MPT-RB-01
MPT13MW1-01
MPT13MW3-01
MPT13MW2-01
MPT13MW6-01

<u>acetone - CRQL</u>

MPT2MW6-01
MPT2MW1-0
MPT2MW7S-01
MPT2MW7D-01
MPT13MW1-01
MPT13MW3-01
MPT13MW2-01

<u>acetone - U</u>

TRIP BLANK
MPT-FB-01
MPT-RB-01
MPT2MW7D-01
MPT2MW2-01D
MPT13MW6-01

Trip Blanks

The trip blank analyzed with this SDG exhibited contamination that was attributed to the method blank. No qualifications are required.

Rinseate/Field Blanks

The rinseate blank and field blank exhibited contamination that was attributed to method blank contamination. In addition, chlorobenzene was detected in both samples. However, the associated samples did not exhibit contamination for chlorobenzene, so qualifications are not required.

Surrogates

All of the surrogate recoveries were within QA/QC limits. No qualifications are required

Matrix Spike/Matrix Spike Duplicate (MS/MSD)

The MS/MSD exhibited acceptable recoveries and RPDs. No qualifications are required.

Blank Spike/Blank Spike Duplicate (BS/BSD)

No BS/BSDs were analyzed with this SDG.

Compound Identification/Quantitation

No qualifications are required.

ATTACHMENT A

Appendix IX Compounds Associated with only a Continuing Calibration

Compound Name
Acetonitrile
3-Chloropropene
Propionitrile
Methacrylonitrile
Methyl Methacrylate
1,2-Dibromoethane
1,1,1,2-Tetrachloroethane
1,2-Dibromo-3-Chloropropane
Pentachloroethane
Isobutyl alcohol
Chloropropene

GLOSSARY OF DATA QUALIFIERS

QUALIFICATION CODES

U = Not detected

J = Estimated value

UJ = Reported quantitation limit is qualified as estimated

R = Result is rejected and unusable

NJ = Presumptive evidence for the presence of the material at an estimated value

K = Result is biased high

L = Result is biased low

METHOD BLANK QUALIFICATION CODES

CRQL = The sample result for the blank contaminant is less than the sample CRQL and is less than 10X the method blank value. The sample result for the blank contaminant is rejected and the CRQL for that analyte is reported.

U = The sample result for the blank contaminant is greater than the sample CRQL and is less than 10X the method blank value. The sample result for the blank contaminant is qualified as non detected at the analyte value reported.

No Action = The sample result for the blank contaminant is greater than the sample CRQL and is greater than 10X the method blank value. The sample result for the blank contaminant is not qualified with any blank qualifiers.

The specific findings will be noted in numerical form on the Form Is in this data validation report. These specific finding footnotes will reflect the conclusions found in the data validation process that resulted in the qualification of the data.

SUMMARY OF DATA QUALIFICATIONS

SAMPLE ID	ANALYTE ID	DL	QL	SPECIFIC FINDINGS
All samples	Attachment A	+/-	J/UJ	1
VBLKW_2 MPT2MW7D-01 MPT2MW2-01 MPT2MW2-01D MPT2MW2-01DMS MPT2MW2-01DMSD	chloromethane bromomethane	+	J	2
All samples	1,4-dioxane	+/-	J/R	3
MPT2MW6-01 MPT2MW7S-01	methylene chloride	+BJ	CRQL	4
MPT2MW1-01 TRIP BLANK MPT-FB-01 MPT-RB-01 MPT13MW1-01 MPT13MW3-01 MPT13MW2-01 MPT13MW6-01	methylene chloride	+B	U	4
MPT2MW6-01 MPT2MW1-0 MPT2MW7S-01 MPT2MW7D-01 MPT13MW1-01 MPT13MW3-01 MPT13MW2-01	acetone	+BJ	CRQL	4

* DL denotes the Form I qualifier supplied by the laboratory
QL denotes the qualifier used by the data validation firm
+ in the DL column denotes a positive result
- in the DL column denotes a non detect result

SUMMARY OF DATA QUALIFICATIONS

SAMPLE ID	ANALYTE ID	DL	QL	SPECIFIC FINDINGS
TRIP BLANK	acetone	+B	U	4
MPT-FB-01				
MPT-RB-01				
MPT2MW7D-01				
MPT2MW2-01D				
MPT13MW6-01				

* DL denotes the Form I qualifier supplied by the laboratory
QL denotes the qualifier used by the data validation firm
+ in the DL column denotes a positive result
- in the DL column denotes a non detect result

DATA ASSESSMENT NARRATIVE

SEMIVOLATILE ORGANICS

General

The organic findings offered in this screening report assumes that all analytical results are correct as reported and is based upon the examination of the reported holding times, blank analysis results, surrogate and matrix spike recoveries, GC/MS performance, tuning results, calibration results and internal standard areas. This report was prepared in compliance relative to the analytical and deliverable requirements specified in the U.S. EPA CLP, 2/88 SOW; the National Functional Guidelines for Organic Data Review, and NEESA Level C and D. All comments made within this report should be considered when examining the analytical results (Form I's).

Case # 20884

System Performance and Overall Assessment

The overall system performance was fair. The laboratory deviated from the methodology in the analyses of this SDG, which resulted in qualification of the data. In addition, it must be noted that a NEESA Level C data package does not provide the data validator with all of the necessary supporting documentation to investigate the data thoroughly for errors.

Contractual Non Compliance

Heartland ESI observed several instances of non compliance throughout the data package.

* The laboratory analyzed eighteen (18) **(See Attachment A)** of the forty-three (43) Appendix IX compounds in a one point continuing calibration mixture analyzed each day before analysis. These eighteen (18) compounds did not have an initial calibration associated with this analysis.

* The CRQLs reported by the laboratory for the twelve (12) compounds reflect an initial calibration, not the continuing calibration that was analyzed. Additional information was required to support the CRQLS reported by the laboratory due the lack of an initial calibration. The laboratory provided Heartland ESI with a MDL study performed for these compounds, dated June 5, 1991. The twelve (12) compounds are qualified at the reported CRQL as estimated (J/UJ).

Contractual Non Compliance (continued)

* The laboratory reported CRQLs for two (2) of the Appendix IX compounds (see **Attachment B)** which did not have an initial or continuing calibration associated with the analyses. All results for these two (2) compounds will be rejected.

* The laboratory used the blank qualifier flag (B) incorrectly for method blank contamination on the method blank Form 1s.

* The laboratory is reporting the wrong method blank ID on the form 4As.

Specific findings:

1. For all of the samples, qualifications are required for the laboratory reported CRQLs that could not be supported for the target compounds listed in Attachment A. Due to the MDL study for these compounds provided by the laboratory, Heartland ESI will accept these CRQLs with the qualification that all non detect results are estimated (UJ). In addition, all positive results for these compounds are qualified as estimated (J) due to the lack of an initial calibration.

2. For all of the samples, rejection is required for the two (2) compounds in Attachment B. The laboratory did not provide calibration data for these two (2) compounds. All results for these compounds are rejected (R).

Holding Times

All extraction holding times and analysis holding times were met for all samples. No qualifications are required.

Tuning

All of the DFTPP tunes in the initial and continuing calibrations met the percent relative abundance criteria of the SOW and the Organic Functional Guidelines. No qualifications are required.

Initial Calibrations

One (1) of the initial calibrations that were analyzed by the laboratory for these samples was not acceptable for all compound %RSDs. All RRFs were acceptable.

Specific findings:

3. The initial calibration analyzed on 02/17/92 contained the following compounds with %RSDs greater than 30%. No qualifications are required since samples were not analyzed after the initial calibration.

   benzidine
   1-naphthylamine
   2-naphthylamine
   4-aminobiphenyl

Continuing Calibrations

The continuing calibration that was analyzed with this sample required qualifications for non compliant %Ds. All of the criteria and non criteria compounds met RRF requirements.

Specific Findings:

4. For the samples listed below, the continuing calibration, DSBA010016, contained the following compounds with %Ds greater than 25%, but less than 50%. Qualify all positive results for these compounds as estimated (J).

SBLKW	phenacetin
MPT2MW6-01	4-nitrophenol
	2-naphthylamine
	1-naphthylamine

Continuing Calibrations (continued)

5. For the samples listed below, the continuing calibration, ASBA013124, contained the following compounds with %Ds greater than 25%, but less than 50%. Qualify all positive results for these compounds as estimated (J).

SBLKW_2 All samples except MPT2MW6-01	2-methyl- naphthalene bis(2-chloroethoxy)methane hexachlorobenzene benzo(k)fluoranthene 4,6-dinitro-2-methylphenol 3,3'-dichlorobenzidine methyl methanesulfonate benzidine 2-naphthylamine pentachloronitrobenzene

6. For the samples listed below, the continuing calibration, ASBA013124, contained the following compounds with %Ds greater than 50%, but less than 90%. Qualify all positive results for these compounds as estimated (J) and all non detect results as estimated (UJ).

SBLKW_2 All samples except MPT2MW6-01	2,4-dinitro- phenol

Internal Standards

All of the blank and sample internal standard EICP areas met the EICP internal standard area QA/QC criteria. No qualifications are required.

Method Blanks

The method blanks that were analyzed exhibited contamination for TCLs. The method blank results will be compared to their associated samples. Refer to the glossary of data qualifiers for a list and definition of the method blank qualifiers: CRQL, U and No Action.

Method Blanks (continued)

Specific findings:

7. The following samples have been qualified for method blank contamination.

   di-n-butylphthalate - CRQL

   All samples except
   MPT2MW6-01

Surrogates

All of the surrogate recoveries, with the exception of one (1) recovery, were within QA/QC criteria. No qualifications are required.

Matrix Spike/Matrix Spike Duplicate

No MS/MSD was submitted with this SDG.

Blank Spike/Blank Spike Duplicate

No BS/BSDs were associated with this SDG.

Compound Identification/Quantitation

No qualifications are required.

ATTACHMENT A

Appendix IX Compounds Associated with only a Continuing Calibration

Compound Name
N-Nitrosodiethylamine
N-Nitrosopyrrolidine
N-Nitrosomethylethylamine
N-Nitrosomorpholine
o-Toluidine
Hexachloropropene
p-Phenyleneamine
Safrole
Isosafrole
1,4-Napthoquinone
1,3-Dinitrobenzene
5-Nitro-o-toluidine
1,3,5-Trinitrobenzene
4-Nitroquinoline-1-oxide
Methapyrilene
3,3'-Dimethylbenzidine
2-Acetamidofluorene
Hexachlorophene

ATTACHMENT B

Appendix IX Compounds Associated with No Calibrations

Compound Name
Phenyl-tert-butylamine
Diphenylamine

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* All compounds are rejected due to missing initial and continuing calibrations.

GLOSSARY OF DATA QUALIFIERS

QUALIFICATION CODES

U = Not detected

J = Estimated value

UJ = Reported quantitation limit is qualified as estimated

R = Result is rejected and unusable

NJ = Presumptive evidence for the presence of the material at an estimated value

K = Result is biased high

L = Result is biased low

METHOD BLANK QUALIFICATION CODES

CRQL = The sample result for the blank contaminant is less than the sample CRQL and is less than 10X the method blank value. The sample result for the blank contaminant is rejected and the CRQL for that analyte is reported.

U = The sample result for the blank contaminant is greater than the sample CRQL and is less than 10X the method blank value. The sample result for the blank contaminant is qualified as non detected at the analyte value reported.

No Action = The sample result for the blank contaminant is greater than the sample CRQL and is greater than 10X the method blank value. The sample result for the blank contaminant is not qualified with any blank qualifiers.

The specific findings will be noted in numerical form on the Form Is in this data validation report. These specific finding footnotes will reflect the conclusions found in the data validation process that resulted in the qualification of the data.

SUMMARY OF DATA QUALIFICATIONS

SAMPLE ID	ANALYTE ID	DL	QL	SPECIFIC FINDINGS
All samples	Attachment A	+/-	J/UJ	1
All samples	Attachment B	+/-	R	2
SBLKW MPT2MW6-01	phenacetin 4-nitrophenol 2-naphthylamine 1-naphthylamine	+	J	4
SBLKW_2 All samples except MPT2MW6-01	2-methyl- naphthalene bis(2-chloroethoxy)methane hexachlorobenzene benzo(k)fluoranthene 4,6-dinitro-2-methylphenol 3,3'-dichlorobenzidine methyl methanesulfonate benzidine 2-naphthylamine pentachloronitrobenzene	+	J	5
SBLKW_2 All samples except MPT2MW6-01	2,4-dinitro- phenol	+/-	J/UJ	6
All samples except MPT2MW6-01	di-n-butyl- phthalate	+BJ	CRQL	7

* DL denotes the Form I qualifier supplied by the laboratory
QL denotes the qualifier used by the data validation firm
+ in the DL column denotes a positive result
- in the DL column denotes a non detect result

DATA ASSESSMENT NARRATIVE

ORGANOCHLORINE PESTICIDES AND PCBS - METHOD 8080

General

The organic findings offered in this screening report assumes that all analytical results are correct as reported and is based upon the examination of the reported holding times, GC instrument performance, initial and continuing calibrations, analytical sequence, blank analysis results, surrogate recoveries, and MS/MSD results. All comments made within this report should be considered when examining the analytical results (Form Is). Please refer the specific findings found in each category to the Summary of Data Qualification table.

LABORATORY NUMBER: 20884

Contractual Non-Compliance

The laboratory did not provide a CLP Form 9 or equivalent summary of retention time information as required under the NEESA QA Requirements (*NEESA 20.2-047B, June 1988, page 61, Table 7.6*) for Level C Deliverables for the Pesticide/PCB data. No qualification of the reported data was made based on this deficiency.

One Appendix IX compound from this fraction, Kepone, was "Not Reported - due to poor recovery from spiking studies performed at the laboratory".

Holding Times

All extraction and analysis hold times were apparently met as indicated by the Chain-of-Custodies and Form 4s included in the package.

GC Instrument Performance

This GC analytical fraction was apparently analyzed utilizing internal standards, relative retention times and relative response factors. All percent breakdowns reported were within the required QC limits. No surrogate retention time information was available. Target compound resolution and potential internal standard or surrogate interferences could not be determined. No qualifications of the reported non-detect results were made based on instrument performance.

Initial Calibration

The single-component pesticides were analyzed using an initial five-point calibrations. Only the relative concentrations of the standards used for these calibrations were presented in the limited Level C data package. Thus, none of the reported CRQLs could be verified due to the lack of information regarding concentrations of the lowest standards and final extract volumes for the samples. No information regarding the Aroclor initial calibrations was contained in the data package.

The initial calibration for the single-component pesticides were presented using non-linear quadratic model statistics. The correlations were acceptable. No qualification of the reported results were required based on the initial calibrations reported.

Continuing Calibrations

All %Ds for all continuing calibrations were within QC limits with only one exception. Delta-BHC was slightly above the 15% D QC limit in one continuing calibration. Although the difference was due to a decrease in response for this compound, neither of the reported samples appear to be associated with this continuing calibration based on the file IDs. No qualifications were required based on the data presented.

Blanks

The reported Form Is for the Method blanks showed no confirmed positive results above the reported CRQLs. No qualifications were required.

Surrogate Recoveries

All reported sample surrogate recoveries were within the reported QC limits. Recovery limits for the surrogates appear to be approximately those utilized by the USEPA CLP under the 2/88 SOW.

Matrix Spike/Matrix Spike Duplicate

No MS/MSD was included in this data package. All Recoveries for the Blank Spike included for the water matrix were within QC limits. No qualifications were required.

Analyte Identification/Quantitation

All reported results for these samples are accepted without additional qualification based on the limited information contained in the NEESA Level C deliverables package.

QUALIFICATION CODES

U	=	Not detected
J	=	Reported result is quantitatively estimated
UJ	=	Reported quantitation limit is qualified as estimated
R	=	Result is rejected and unusable
N	=	Result is negated, do not consider result in sample
NJ	=	Presumptive evidence for the presence of the material at an estimated concentration

Validation specific findings are noted in numerical form on the Form Is in this data validation report. These specific finding footnotes reflect the conclusions found in the data validation process that resulted in the qualifications of the data.

SUMMARY OF GC DATA QUALIFICATIONS

SAMPLE ID	ANALYTE ID	DL	QL	SPECIFIC FINDINGS
No specific findings were identified which resulted in the qualification of any of the reported non-detect sample results.				

* DL denotes the Form I qualifier/value supplied by the laboratory
QL denotes the qualifier/value used by Validator

+ in the DL column denotes a positive result
+ in the QL column denotes a reviewer revised result

DATA ASSESSMENT NARRATIVE
Metals
and Wet Chemistry

General

The inorganic findings offered in this screening report assumes that all analytical results are correct as reported and is based upon the examination of the reported holding times, calibration standards, blank analysis results and MS/MSD results. A minimum of ten percent of all laboratory calculations. All comments made within this report should be considered when examining the analytical results (Form Is).

This data package consisted of results from **Mayport, SDG# 20877 and 884**, the analysis of twenty (20) field water samples and one Matrix Spike and Duplicate pair for TAL Metals. Overall, the inorganic data quality was fair. Level C data validation reviews rely on the laboratory filling out the forms correctly. The All protocol requirements were followed.

Specific QA/QC deficiency Findings are listed numerically in the following categories:

Holding Times

The holding times were met as specified in Section 3 of the NEESA (20.2-047B) QA protocol.

Calibration

No deficiencies in this section.

Preparation and Field Blanks

1. The preparation blank exhibited contamination for the following elements.

Arsenic	0.4	ug/l
Calcium	65.6	ug/l

The USEPA requires that all sample values below five times the preparation blank contamination be qualified as non-detect, "U".

Interferences

No significant interferences were observed.

Metals Data Assessment Narrative (continued - Page 2)

Spike Recovery

No deficiencies in this section.

Duplicate

No deficiencies in this section.

LCS

No deficiencies in this section.

Serial Dilution

2. The Serial Dilution for Barium was outside the control limit. All positive and non-detect results are qualified as estimated, "J" or "UJ".

MSA

3. The following samples exhibited poor recoveries during the Analytical spiking for GFAA. All positive and non-detect results are qualified as estimated, "J" or "UJ".

Analyte	Sample Numbers
Arsenic	mw-4-01, mw-5-01, mw-5-01d and mw-8-01.
Lead	MPT2MW-1-01, MW-15D-01, MW-15S-01 MW-4-01 AND -5-01.
Selenium	MPT13MW-1-01, -2-01, -3-01, -6-01 AND MPT2MW-6-01.
Thallium	MPT2MW-1-01, -7S-01, MW-10-01, MW-16D-01 AND MW-8-01.

HEARTLAND ENVIRONMENTAL
SERVICES, INC.

SUMMARY OF DATA QUALIFICATIONS

SAMPLE ID	ANALYTE	DL	QL	SPECIFIC FINDING
All water samples	As and Ca	+	U	1
All water samples	Ba	+	J	2
MW-4-01, MW-5-01, MW-5-01D, AND MW-8-01.	As	+/U	J/UJ	3
MPT2MW-1-01, MW-15D-01, MW-15S-01, MW-4-01, -5-01 AND MW-5-01D.	Pb			
MPT2MW-1-01, -2-01, -3-01, -6-01 AND MPT2MW-6-01.	Se			
MPT2MW-1-01, -7S-01, MW-10-01, MW-16D-01 AND MW-8-01.	Tl			

DL - denotes laboratory qualifier/reported value
+ denotes positive values
U denotes non-detect values

QL - denotes data validation qualifier

HEARTLAND ENVIRONMENTAL
SERVICES, INC.

DATA ASSESSMENT NARRATIVE
Metals
and Wet Chemistry

General

The inorganic findings offered in this screening report assumes that all analytical results are correct as reported and is based upon the examination of the reported holding times, calibration standards, blank analysis results and MS/MSD results. A minimum of ten percent of all laboratory calculations. All comments made within this report should be considered when examining the analytical results (Form Is).

This data package consisted of results from **Mayport, SDG# 20884**, the analysis of twelve (12) field water sample and no Matrix Spike and Duplicate pair for Cyanide only and nine (9) field water samples for Wet Chemistry analyses. Overall, the inorganic data quality was fair. Quality Assurance samples were found in SDG20886. Level C data validation reviews rely on the laboratory filling out the forms correctly. The All protocol requirements were followed.

Specific QA/QC deficiency Findings are listed numerically in the following categories:

Holding Times

The holding times were met as specified in Section 3 of the NEESA (20.2-047B) QA protocol.

Calibration

No deficiencies in this section.

Preparation and Field Blanks

No deficiencies in this section.

Interferences

No significant interferences were observed.

Spike Recovery

No deficiencies in this section.

Duplicate

No deficiencies in this section.

LCS

No deficiencies in this section.

Serial Dilution

No deficiencies in this section.

MSA

No deficiencies in this section.

Wet Chemistry

The samples were reviewed for holding times, detection limit and LCSs.

SUMMARY OF DATA QUALIFICATIONS

SAMPLE ID	ANALYTE	DL	QL	SPECIFIC FINDING
All water data stands as reported without qualification.				
All water samples	The Wet Chemistry will stands as reported without qualification.			

DL - denotes laboratory qualifier/reported value
+ denotes positive values
U denotes non-detect values

QL - denotes data validation qualifier

DATA ASSESSMENT NARRATIVE

VOLATILE ORGANICS

The organic findings offered in this screening report assumes that all analytical results are correct as reported and is based upon the examination of the reported holding times, blank analysis results, surrogate and matrix spike recoveries, GC/MS performance, tuning results, calibration results and internal standard areas. This report was prepared in compliance relative to the analytical and deliverable requirements specified in the U.S. EPA CLP, 2/88 SOW; the National Functional Guidelines for Organic Data Review, and NEESA Level C and D. All comments made within this report should be considered when examining the analytical results (Form I's).

Case # 20902

System Performance and Overall Assessment

The overall system performance was fair. The laboratory deviated from the methodology in the analyses of the this SDG, which resulted in qualification of the data. In addition, it must be noted that a NEESA Level C data package does not provide the data validator with all of the necessary supporting documentation to investigate the data thoroughly for errors.

Contractual Non Compliance

Heartland ESI observed several instances of non compliance throughout the data package.

* The laboratory analyzed twelve (12) (**see Attachment A**) of the twenty-three (23) Appendix IX compounds in a one point continuing calibration mixture analyzed each day before analysis. These twelve (12) compounds did not have an initial calibration associated with this analysis.

* The CRQLs reported by the laboratory for the twelve (12) compounds reflect an initial calibration, not the continuing calibration that was analyzed. Additional information was required to support the CRQLS reported by the laboratory due the lack of an initial calibration. The laboratory provided Heartland ESI with a MDL study performed for these compounds, dated June 5, 1991. The twelve (12) compounds are qualified at the reported CRQL as estimated (J/UJ).

* The laboratory used the blank qualifier flag (B) incorrectly for method blank contamination on the method blank Form 1s.

Contractual Non Compliance (continued)

* The laboratory did not analyze separate calibrations for water and soil analyses **(E-13/VOA, 2.1.1).**

* The laboratory is reporting the wrong method blank ID on the form 4As.

Specific findings:

1. For all of the samples, qualifications are required for the laboratory reported CRQLs that could not be supported for the target compounds listed in Attachment A. Due to the MDL study for these compounds provided by the laboratory, Heartland ESI will accept these CRQLs with the qualification that all non detect results are estimated (UJ). In addition, all positive results for these compounds are qualified as estimated (J) due to the lack of an initial calibration.

Holding Times

All of the samples were analyzed within the contractual holding times for volatile analysis. No qualification are required.

Tuning

All of the BFB tunes in the initial and continuing calibrations met the percent relative abundance criteria of the SOW and the Organic Functional Guidelines. No qualifications are required.

Initial Calibrations

The initial calibration that was analyzed by the laboratory for these samples was acceptable for all %RSDs. One compound, 1,4-dioxane, exhibited a RRF less than 0.05. No qualifications are required since samples were not analyzed after the initial calibration.

Continuing Calibrations

Four (4) of the continuing calibrations that were analyzed with this data package required qualifications for non compliant %Ds. All of the calibrations require qualifications for non compliant RRFs.

Continuing Calibrations (continued)

Specific findings:

2. For the samples listed below, the continuing calibration, BSVH014026, contained the following compounds with %Ds greater than 25% D, but less than 50% D. Qualify all positive results for these compounds as estimated (J).

VBLKW	acetone
MPT-RB-05	chloromethane
TRIP BLANK	2-hexanone
MPT-RB-02	acrylonitrile
MPT-RB-03	trans-1,4-dichloro-2-butene
MPT2MW17S	

3. For the samples listed below, the continuing calibration, CSVO020610, contained the following compounds with %Ds greater than 25% D, but less than 50% D. Qualify all positive results for these compounds as estimated (J).

VBLKW_3	bromomethane
MPT-SW-8	
MPT1MW-1-01	

4. For all of the samples, the continuing calibrations contained the 1,4-dioxane with a RRF less than 0.05. Qualify all positive results for this compound as estimated (J) and reject (R) all non detect results.

Internal Standards

All of the internal standard EICP areas for the samples and the blanks were within QA/QC limits. No qualifications are required.

Method Blanks

The method blanks that were analyzed exhibited contamination for methylene chloride and/or acetone. The method blank results will be compared to their a[illegible] samples. Refer to the glossary of data qualifiers for a list and definition of the method blank qualifiers: CRQL, U and No Action.

Method Blanks (continued)

Specific Findings:

5. The following samples have been qualified for blank contamination. Qualifications are for all method blanks.

   methylene chloride - U

   MPT2MW12D
   MPTS-1-01
   MPT1MW-1-01
   MPT2-SW-8
   MPT2-SD-8

   acetone - CRQL

   All samples except
   MPT2MW12D

   acetone - U

   MPT2MW12D

Trip Blanks

The trip blank analyzed with this SDG exhibited contamination for methylene chloride. The trip blank results will be compared to their associated samples. Refer to the glossary of data qualifiers for a list and definition of the method blank qualifiers that will be used to qualify the trip blank: CRQL, U and No Action.

Specific findings:

6. The following samples have been qualified for trip blank contamination.

   methylene chloride - CRQL

   MPT-RB-05
   MPT2MW17S
   MPT-RB-02
   MPT-RB-03

Rinseate/Field Blanks

A rinseate or field blank was not identifiable in this SDG.

Surrogates

All of the surrogate recoveries were within QA/QC limits. No qualifications are required

Matrix Spike/Matrix Spike Duplicate (MS/MSD)

The two (2) MS/MSDs exhibited acceptable recoveries and RPDs. No qualifications are required.

Blank Spike/Blank Spike Duplicate (BS/BSD)

No BS/BSDs were analyzed with this SDG.

Compound Identification/Quantitation

No qualifications are required.

ATTACHMENT A

Appendix IX Compounds Associated with only a Continuing Calibration

Compound Name
Acetonitrile
3-Chloropropene
Propionitrile
Methacrylonitrile
Methyl Methacrylate
1,2-Dibromoethane
1,1,1,2-Tetrachloroethane
1,2-Dibromo-3-Chloropropane
Pentachloroethane
Isobutyl alcohol
Chloropropene

GLOSSARY OF DATA QUALIFIERS

QUALIFICATION CODES

U = Not detected

J = Estimated value

UJ = Reported quantitation limit is qualified as estimated

R = Result is rejected and unusable

NJ = Presumptive evidence for the presence of the material at an estimated value

K = Result is biased high

L = Result is biased low

METHOD BLANK QUALIFICATION CODES

CRQL = The sample result for the blank contaminant is less than the sample CRQL and is less than 10X the method blank value. The sample result for the blank contaminant is rejected and the CRQL for that analyte is reported.

U = The sample result for the blank contaminant is greater than the sample CRQL and is less than 10X the method blank value. The sample result for the blank contaminant is qualified as non detected at the analyte value reported.

No Action = The sample result for the blank contaminant is greater than the sample CRQL and is greater than 10X the method blank value. The sample result for the blank contaminant is not qualified with any blank qualifiers.

The specific findings will be noted in numerical form on the Form Is in this data validation report. These specific finding footnotes will reflect the conclusions found in the data validation process that resulted in the qualification of the data.

SUMMARY OF DATA QUALIFICATIONS

SAMPLE ID	ANALYTE ID	DL	QL	SPECIFIC FINDINGS
All samples	Attachment A	+/-	J/UJ	1
VBLKW MPT-RB-05 TRIP BLANK MPT-RB-02 MPT-RB-03 MPT2MW17S	acetone chloromethane 2-hexanone acrylonitrile trans-1,4-dichloro-2-butene	+	J	2
VBLKW_3 MPT-SW-8 MPT1MW-1-01	bromomethane	+	J	3
All samples	1,4-dioxane	+/-	J/R	4
MPT2MW12D MPTS-1-01 MPT1MW-1-01 MPT2-SW-8 MPT2-SD-8	methylene chloride	+B	U	5
All samples except MPT2MW12D	acetone	+BJ	CRQL	5
MPT2MW12D	acetone	+B	U	5
MPT-RB-05 MPT2MW17S MPT-RB-02 MPT-RB-03	methylene chloride	+J	CRQL	6

* DL denotes the Form I qualifier supplied by the laboratory
QL denotes the qualifier used by the data validation firm
+ in the DL column denotes a positive result
- in the DL column denotes a non detect result

DATA ASSESSMENT NARRATIVE

VOLATILE ORGANICS - 601 ANALYSIS

The organic findings offered in this screening report assumes that all analytical results are correct as reported and is based upon the examination of the reported holding times, blank analysis results, surrogate and matrix spike recoveries, GC performance, and calibration results. This report was prepared in compliance relative to the analytical and deliverable requirements specified in the U.S. EPA 601 method; the National Functional Guidelines for Organic Data Review where applicable, and NEESA Level C. All comments made within this report should be considered when examining the analytical results (Form I's).

Sample Group # 92B14C01

System Performance and Overall Assessment

The overall system performance was acceptable. It must be noted that a NEESA Level C data package does not provide the data validator with all of the necessary supporting documentation to investigate the data thoroughly for errors.

Contractual Non Compliance

Heartland ESI observed one instance of non compliance throughout the data package.

* The laboratory did not provide a Form 4 equivalent for the method blank analyses.

Holding Times

All of the samples, with the exception of one (1) sample, were analyzed within the contractual holding times for volatile analysis. Sample MPT-1-MW-1-01 was analyzed four (4) days outside of the analysis holding times.

Specific findings:

1. For the sample listed below, the analysis holding time was exceeded by four (4) days. Qualify all positive results as estimated (J) and all non detect results as estimated (UJ).

   MPT-1-MW-1-01

Initial Calibrations

The initial calibration that was analyzed by the laboratory for these samples was acceptable. Although the laboratory did not report the initial calibration on an equivalent Form 6, the laboratory submitted all of the calibration plots. Heartland ESI will accept the linear plots. No qualification are required.

Continuing Calibrations

The continuing calibration that was analyzed with this data package was not acceptable for all compound %Ds.

Specific findings:

2. For the samples listed below, the continuing calibration analyzed on 02/26/92 contained the following compounds with non compliant %Ds. Qualify all positive results for these compounds as estimated (J).

MPT-5-1-01	chloromethane
MPT-2-MW-17S	

Method Blanks

The method blanks that were analyzed did not exhibit contamination for target compounds. No qualifications are required.

Trip Blanks

A trip blank was not analyzed with this SDG.

Rinseate/Field Blanks

A rinseate or field blank was not identified.

Surrogates

All of the surrogate recoveries were acceptable. No qualifications are required

Matrix Spike/Matrix Spike Duplicate (MS/MSD)

The MS/MSD was acceptable. No qualifications are required.

Blank Spike/Blank Spike Duplicate (BS/BSD)

No BS/BSDs were analyzed with this SDG.

Compound Identification/Quantitation

No qualifications are required.

GLOSSARY OF DATA QUALIFIERS

QUALIFICATION CODES

U = Not detected

J = Estimated value

UJ = Reported quantitation limit is qualified as estimated

R = Result is rejected and unusable

NJ = Presumptive evidence for the presence of the material at an estimated value

K = Result is biased high

L = Result is biased low

METHOD BLANK QUALIFICATION CODES

CRQL = The sample result for the blank contaminant is less than the sample CRQL and is less than 10X the method blank value. The sample result for the blank contaminant is rejected and the CRQL for that analyte is reported.

U = The sample result for the blank contaminant is greater than the sample CRQL and is less than 10X the method blank value. The sample result for the blank contaminant is qualified as non detected at the analyte value reported.

No Action = The sample result for the blank contaminant is greater than the sample CRQL and is greater than 10X the method blank value. The sample result for the blank contaminant is not qualified with any blank qualifiers.

The specific findings will be noted in numerical form on the Form Is in this data validation report. These specific finding footnotes will reflect the conclusions found in the data validation process that resulted in the qualification of the data.

SUMMARY OF DATA QUALIFICATIONS

SAMPLE ID	ANALYTE ID	DL	QL	SPECIFIC FINDINGS
MPT-1-MW-1-01	All analytes	+/-	J/UJ	1
MPT-5-1-01 MPT-2-MW-17S	chloromethane	+	J	2

* DL denotes the Form I qualifier supplied by the laboratory
QL denotes the qualifier used by the data validation firm
+ in the DL column denotes a positive result
- in the DL column denotes a non detect result

DATA ASSESSMENT NARRATIVE

SEMIVOLATILE ORGANICS

General

The organic findings offered in this screening report assumes that all analytical results are correct as reported and is based upon the examination of the reported holding times, blank analysis results, surrogate and matrix spike recoveries, GC/MS performance, tuning results, calibration results and internal standard areas. This report was prepared in compliance relative to the analytical and deliverable requirements specified in the U.S. EPA CLP, 2/88 SOW; the National Functional Guidelines for Organic Data Review, and NEESA Level C and D. All comments made within this report should be considered when examining the analytical results (Form I's).

Case # 20902

System Performance and Overall Assessment

The overall system performance was fair. The laboratory deviated from the methodology in the analyses of this SDG, which resulted in qualification of the data. In addition, it must be noted that a NEESA Level C data package does not provide the data validator with all of the necessary supporting documentation to investigate the data thoroughly for errors.

Contractual Non Compliance

Heartland ESI observed several instances of non compliance throughout the data package.

* The laboratory analyzed eighteen (18) (See Attachment A) of the forty-three (43) Appendix IX compounds in a one point continuing calibration mixture analyzed each day before analysis. These eighteen (18) compounds did not have an initial calibration associated with this analysis.

* The CRQLs reported by the laboratory for the twelve (12) compounds reflect an initial calibration, not the continuing calibration that was analyzed. Additional information was required to support the CRQLS reported by the laboratory due the lack of an initial calibration. The laboratory provided Heartland ESI with a MDL study performed for these compounds, dated June 5, 1991. The twelve (12) compounds are qualified at the reported CRQL as estimated (J/UJ).

Contractual Non Compliance (continued)

* The laboratory reported CRQLs for two (2) of the Appendix IX compounds (see **Attachment B)** which did not have an initial or continuing calibration associated with the analyses. All results for these two (2) compounds will be rejected.

* The laboratory used the blank qualifier flag (B) incorrectly for method blank contamination on the method blank Form 1s.

* The laboratory is reporting the wrong method blank ID on the form 4As.

Specific findings:

1. For all of the samples, qualifications are required for the laboratory reported CRQLs that could not be supported for the target compounds listed in Attachment A. Due to the MDL study for these compounds provided by the laboratory, Heartland ESI will accept these CRQLs with the qualification that all non detect results are estimated (UJ). In addition, all positive results for these compounds are qualified as estimated (J) due to the lack of an initial calibration.

2. For all of the samples, rejection is required for the two (2) compounds in Attachment B. The laboratory did not provide calibration data for these two (2) compounds. All results for these compounds are rejected (R).

Holding Times

All extraction holding times, with the exception of one sample, and analysis holding times were met for all samples.

Specific findings:

3. For the samples listed below, the extraction holding time was exceeded by fifteen days (15). All sample results are rejected (R) due to the exceeded holding times.

   MPT-RB-3_RX

Tuning

All of the DFTPP tunes in the initial and continuing calibrations met the percent relative abundance criteria of the SOW and the Organic Functional Guidelines. No qualifications are required.

Initial Calibrations

One (1) of the initial calibrations that were analyzed by the laboratory for these samples was not acceptable for all compound %RSDs. All RRFs were acceptable.

Specific findings:

4. The initial calibration analyzed on 02/17/92 contained the following compounds with %RSDs greater than 30%. No qualifications are required since samples were not analyzed after the initial calibration.

   benzidine
   1-naphthylamine
   2-naphthylamine
   4-aminobiphenyl

Continuing Calibrations

The continuing calibration that was analyzed with this sample required qualifications for non compliant %Ds. All of the criteria and non criteria compounds met RRF requirements.

Specific Findings:

5. For the samples listed below, the continuing calibration, DSBA010016, contained the following compounds with %Ds greater than 25%, but less than 50%. Qualify all positive results for these compounds as estimated (J).

SBLKS	4-nitrophenol
MPT2-SD-8	2,4-dinitrophenol
	1-naphthylamine
	2-naphthylamine
	phenacetin
	4-aminobiphenyl

Continuing Calibrations (continued)

6. For the samples listed below, the continuing calibration, DSBA010016, contained the following compounds with %Ds greater than 25%, but less than 50%. Qualify all positive results for these compounds as estimated (J).

SBLKW_3	2-methyl-
MPT-RB-02	naphthalene
MPT-RB-03	hexachlorobenzene
	benzo(k)fluoranthene
	2-nitroaniline
	bis(2-chloroisopropyl)ether
	2,4-dinitrophenol
	4-nitroaniline
	3,3'-dichlorobenzidine
	2-picoline
	methyl methanesulfonate
	N-nitrosopiperidine
	1-naphthylamine

7. For the samples listed below, the continuing calibration, DSBA010016, contained the following compounds with %Ds greater than 50%, but less than 90%. Qualify all positive results for these compounds as estimated (J) and all non detect results as estimated (UJ).

SBLKW_3	2-naphthyl-
MPT-RB-02	amine
MPT-RB-03	4-aminobiphenyl
	benzidine

Continuing Calibrations (continued)

8. For the samples listed below, the continuing calibration, ASBA013124, contained the following compounds with %Ds greater than 25%, but less than 50%. Qualify all positive results for these compounds as estimated (J).

SBLKW	bis(2-chloro-
MPT-RB-05	ethoxy)methane
MPT2MW12D	2-methylnaphthalene
	hexachlorobenzene
	benzo(k)fluoranthene
	4,6-dinitro-2-methylphenol
	3,3'-dichlorobenzidine
	methyl methanesulfonate
	benzidine
	2-naphthylamine
	pentachloronitrobenzene

9. For the samples listed below, the continuing calibration, ASBA013124, contained the following compounds with %Ds greater than 50%, but less than 90%. Qualify all positive results for these compounds as estimated (J) and all non detect results as estimated (UJ).

SBLKW	2,4-dinitro-
MPT-RB-05	phenol
MPT2MW12D	

10. For the samples listed below, the continuing calibration, DSBA010112, contained the following compounds with %Ds greater than 25%, but less than 50%. Qualify all positive results for these compounds as estimated (J).

SBLKW_4	nitrobenzene
MPT2MW17S	anthrene
MPT2-SW-8	2-nitroaniline
	4-nitrophenol
	4,6-dinitro-2-methylphenol
	N-nitrosopiperidine
	1-naphthylamine
	2-naphthylamine
	phenacetin
	p-dimethylaminoazobenzene

Continuing Calibrations (continued)

11. For the samples listed below, the continuing calibration, DSBA010112, contained the following compounds with %Ds greater than 50%, but less than 90%. Qualify all positive results for these compounds as estimated (J) and all non detect results as estimated (UJ).

SBLKW_4	benzo(b)fluoranthene
MPT2MW17S	benzidine
MPT2-SW-8	

12. For the samples listed below, the continuing calibration, DSBA010132, contained the following compounds with %Ds greater than 25%, but less than 50%. Qualify all positive results for these compounds as estimated (J).

SBLKW_2	4-nitrophenol
MPTS-1-01	methyl methanesulfonate
MPT1MW-1-01	2-naphthylamine

13. For the samples listed below, the continuing calibration, DSBA010132, contained the following compounds with %Ds greater than 50%, but less than 90%. Qualify all positive results for these compounds as estimated (J) and all non detect results as estimated (UJ).

SBLKW_2	benzidine
MPTS-1-01	
MPT1MW-1-01	

Internal Standards

All of the blank and sample internal standard EICP areas met the EICP internal standard area QA/QC criteria. No qualifications are required.

Method Blanks

The method blanks that were analyzed exhibited contamination for TCLs. The method blank results will be compared to their associated samples. Refer to the glossary of data qualifiers for a list and definition of the method blank qualifiers: CRQL, U and No Action.

Method Blanks (continued)

Specific findings:

14. The following samples have been qualified for method blank contamination.

    di-n-butylphthalate - CRQL

    MPT-RB-05
    MPT2MW12D
    MPT2MW17S
    MPTS-1-01
    MPT1MW-1-01

    pentachlorophenol - CRQL

    MPTS-1-01
    MPT1MW-1-01

Surrogates

All of the surrogate recoveries, with the exception on one (1) recovery, were within QA/QC criteria.

Specific findings:

15. For the sample listed below, one (1) acid surrogate exhibited a recovery less than 10%. For the acid fraction, qualify all positive results as estimated (J) and reject (R) all non detect results.

    MPT-RB-03

Matrix Spike/Matrix Spike Duplicate

No MS/MSD was analyzed with this SDG.

Blank Spike/Blank Spike Duplicate

No BS/BSDs were associated with this SDG.

Compound Identification/Quantitation

No qualifications are required.

ATTACHMENT A

Appendix IX Compounds Associated with only a Continuing Calibration

Compound Name

N-Nitrosodiethylamine
N-Nitrosopyrrolidine
N-Nitrosomethylethylamine
N-Nitrosomorpholine
o-Toluidine
Hexachloropropene
p-Phenyleneamine
Safrole
Isosafrole
1,4-Napthoquinone
1,3-Dinitrobenzene
5-Nitro-o-toluidine
1,3,5-Trinitrobenzene
4-Nitroquinoline-1-oxide
Methapyrilene
3,3'-Dimethylbenzidine
2-Acetamidofluorene
Hexachlorophene

ATTACHMENT B

Appendix IX Compounds Associated with No Calibrations

Compound Name
Phenyl-tert-butylamine
Diphenylamine

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* All compounds are rejected due to missing initial and continuing calibrations.

GLOSSARY OF DATA QUALIFIERS

QUALIFICATION CODES

U = Not detected

J = Estimated value

UJ = Reported quantitation limit is qualified as estimated

R = Result is rejected and unusable

NJ = Presumptive evidence for the presence of the material at an estimated value

K = Result is biased high

L = Result is biased low

METHOD BLANK QUALIFICATION CODES

CRQL = The sample result for the blank contaminant is less than the sample CRQL and is less than 10X the method blank value. The sample result for the blank contaminant is rejected and the CRQL for that analyte is reported.

U = The sample result for the blank contaminant is greater than the sample CRQL and is less than 10X the method blank value. The sample result for the blank contaminant is qualified as non detected at the analyte value reported.

No Action = The sample result for the blank contaminant is greater than the sample CRQL and is greater than 10X the method blank value. The sample result for the blank contaminant is not qualified with any blank qualifiers.

The specific findings will be noted in numerical form on the Form Is in this data validation report. These specific finding footnotes will reflect the conclusions found in the data validation process that resulted in the qualification of the data.

SUMMARY OF DATA QUALIFICATIONS

SAMPLE ID	ANALYTE ID	DL	QL	SPECIFIC FINDINGS
All samples	Attachment A	+/-	J/UJ	1
All samples	Attachment B	+/-	R	2
MPT-RB-3_RX	all analytes	+/-	R	3
SBLKS MPT2-SD-8	4-nitrophenol 2,4-dinitrophenol 1-naphthylamine 2-naphthylamine phenacetin 4-aminobiphenyl	+	J	5
SBLKW_3 MPT-RB-02 MPT-RB-03	2-methyl- naphthalene hexachlorobenzene benzo(k)fluoranthene 2-nitroaniline bis(2-chloroisopropyl)ether 2,4-dinitrophenol 4-nitroaniline 3,3'-dichlorobenzidine 2-picoline methyl methanesulfonate N-nitrosopiperidine 1-naphthylamine	+	J	6
SBLKW_3 MPT-RB-02 MPT-RB-03	2-naphthyl- amine 4-aminobiphenyl benzidine	+/-	J/UJ	7

* DL denotes the Form I qualifier supplied by the laboratory
QL denotes the qualifier used by the data validation firm
+ in the DL column denotes a positive result
- in the DL column denotes a non detect result

SUMMARY OF DATA QUALIFICATIONS

SAMPLE ID	ANALYTE ID	DL	QL	SPECIFIC FINDINGS
SBLKW MPT-RB-05 MPT2MW12D	bis(2-chloro-ethoxy)methane 2-methylnaphthalene hexachlorobenzene benzo(k)fluoranthene 4,6-dinitro-2-methylphenol 3,3'-dichlorobenzidine methyl methanesulfonate benzidine 2-naphthylamine pentachloronitrobenzene	+	J	8
SBLKW MPT-RB-05 MPT2MW12D	2,4-dinitro-phenol	+/-	J/UJ	9
SBLKW_4 MPT2MW17S MPT2-SW-8	nitrobenzene anthrene 2-nitroaniline 4-nitrophenol 4,6-dinitro-2-methylphenol2 N-nitrosopiperidine 1-naphthylamine 2-naphthylamine phenacetin p-dimethylaminoazobenzene	+	J	10
SBLKW_4 MPT2MW17S MPT2-SW-8	benzo(b)fluor-anthrene benzidine	+/-	J/UJ	11

* DL denotes the Form I qualifier supplied by the laboratory
QL denotes the qualifier used by the data validation firm
\+ in the DL column denotes a positive result
\- in the DL column denotes a non detect result

SUMMARY OF DATA QUALIFICATIONS

SAMPLE ID	ANALYTE ID	DL	QL	SPECIFIC FINDINGS
SBLKW_2 MPTS-1-01 MPT1MW-1-01	4-nitrophenol methyl methanesulfonate 2-naphthylamine	+	J	12
SBLKW_2 MPTS-1-01 MPT1MW-1-01	benzidine	+/-	J/UJ	13
MPT-RB-05 MPT2MW12D MPT2MW17S MPTS-1-01 MPT1MW-1-01	di-n-butyl-phthalate	+BJ	CRQL	14
MPTS-1-01 MPT1MW-1-01	pentachloro-phenol	+BJ	CRQL	14
MPT-RB-03	Acid fraction	+/-	J/R	15

* DL denotes the Form I qualifier supplied by the laboratory
QL denotes the qualifier used by the data validation firm
\+ in the DL column denotes a positive result
\- in the DL column denotes a non detect result

DATA ASSESSMENT NARRATIVE

ORGANOCHLORINE PESTICIDES AND PCBS - METHOD 8080

General

The organic findings offered in this screening report assumes that all analytical results are correct as reported and is based upon the examination of the reported holding times, GC instrument performance, initial and continuing calibrations, analytical sequence, blank analysis results, surrogate recoveries, and MS/MSD results. All comments made within this report should be considered when examining the analytical results (Form Is). Please refer the specific findings found in each category to the Summary of Data Qualification table.

LABORATORY NUMBER: 20902

Contractual Non-Compliance

The laboratory did not provide a CLP Form 9 or equivalent summary of retention time information as required under the NEESA QA Requirements (*NEESA 20.2-047B, June 1988, page 61, Table 7.6*) for Level C Deliverables for the Pesticide/PCB data. No qualification of the reported data was made based on this deficiency.

One Appendix IX compound from this fraction, Kepone, was "Not Reported - due to poor recovery from spiking studies performed at the laboratory".

Holding Times

All extraction and analysis hold times were apparently met as indicated by the Chain-of-Custodies and Form 4s included in the package.

GC Instrument Performance

This GC analytical fraction was apparently analyzed utilizing internal standards, relative retention times and relative response factors. All percent breakdowns reported were within the required QC limits. No surrogate retention time information was available. Target compound resolution and potential internal standard or surrogate interferences could not be determined. No qualifications of the reported non-detect results were made based on instrument performance.

Initial Calibration

The single-component pesticides were analyzed using an initial five-point calibrations. Only the relative concentrations of the standards used for these calibrations were presented in the limited Level C data package. Thus, none of the reported CRQLs could be verified due to the lack of information regarding concentrations of the lowest standards and final extract volumes for the samples. No information regarding the Aroclor initial calibrations was contained in the data package.

The initial calibration for the single-component pesticides were presented using non-linear quadratic model statistics. The correlations were acceptable. No qualification of the reported results were required based on the initial calibrations reported.

Continuing Calibrations

All %Ds for all continuing calibrations were within QC limits with only one exception. Delta-BHC was slightly above the 15% D QC limit in one continuing calibration. Although the difference was due to a decrease in response for this compound, neither of the reported samples appear to be associated with this continuing calibration based on the file IDs. No qualifications were required based on the data presented.

Blanks

The reported Form I for the Method blank showed no confirmed positive results above the reported CRQLs. No qualifications were required.

Surrogate Recoveries

All reported sample surrogate recoveries were within the reported QC limits. Recovery limits for the surrogates appear to generated by laboratory control charting procedures. The surrogate recovery for sample MPT1MW-1-01 was somewhat low (56%) but did not require qualification.

Matrix Spike/Matrix Spike Duplicate

No MS/MSD was included in this data package. All Recoveries for the Blank Spike included for the water matrix were within QC limits. No qualifications were required.

Analyte Identification/Quantitation

All reported results for these samples are accepted without additional qualification based on the limited information contained in the NEESA Level C deliverables package.

QUALIFICATION CODES

U	=	Not detected
J	=	Reported result is quantitatively estimated
UJ	=	Reported quantitation limit is qualified as estimated
R	=	Result is rejected and unusable
N	=	Result is negated, do not consider result in sample
NJ	=	Presumptive evidence for the presence of the material at an estimated concentration

Validation specific findings are noted in numerical form on the Form Is in this data validation report. These specific finding footnotes reflect the conclusions found in the data validation process that resulted in the qualifications of the data.

SUMMARY OF GC DATA QUALIFICATIONS

SAMPLE ID	ANALYTE ID	DL	QL	SPECIFIC FINDINGS
No specific findings were identified which resulted in the qualification of any of the reported non-detect sample results.				

* DL denotes the Form I qualifier/value supplied by the laboratory
QL denotes the qualifier/value used by Validator

+ in the DL column denotes a positive result
+ in the QL column denotes a reviewer revised result

HEARTLAND ENVIRONMENTAL
SERVICES, INC.

DATA ASSESSMENT NARRATIVE
Metals
and Wet Chemistry

General

The inorganic findings offered in this screening report assumes that all analytical results are correct as reported and is based upon the examination of the reported holding times, calibration standards, blank analysis results and MS/MSD results. A minimum of ten percent of all laboratory calculations. All comments made within this report should be considered when examining the analytical results (Form Is).

This data package consisted of results from **Mayport, SDG# 20902**, the analysis of eight (8) field water sample and one Matrix Spike and Duplicate pair for TAL Metals and seven (7) field water samples for Wet Chemistry analyses. Overall, the inorganic data quality was fair. Level C data validation reviews rely on the laboratory filling out the forms correctly. The All protocol requirements were followed.

Specific QA/QC deficiency Findings are listed numerically in the following categories:

Holding Times

The holding times were met as specified in Section 3 of the NEESA (20.2-047B) QA protocol.

Calibration

No deficiencies in this section.

Preparation and Field Blanks

1. The preparation blank exhibited contamination for the following elements.

   Silver 2.3 ug/l

   The USEPA requires that all sample values below five times the preparation blank contamination be qualified as non-detect, "U".

Interferences

No significant interferences were observed.

Metals Data Assessment Narrative (continued - Page 2)

Spike Recovery

No deficiencies in this section.

Duplicate

No deficiencies in this section.

LCS

No deficiencies in this section.

Serial Dilution

No deficiencies in this section.

MSA

2. The following samples exhibited poor recoveries during the Analytical spiking for GFAA. All positive and non-detect results are qualified as estimated, "J" or "UJ".

Analyte	Sample Numbers
Arsenic	MW-17D AND 2-SW-8.
Lead	MW-17D.
Selenium	MW-17S, MW-17D, MW-1-01 AND MW-2-SW-8.
Thallium	MW-1-01, MW-1-01 AND MW2-SW-8.

Wet Chemistry

The samples were reviewed for holding times, detection limit and LCSs.

HEARTLAND ENVIRONMENTAL
SERVICES, INC.

SUMMARY OF DATA QUALIFICATIONS

SAMPLE ID	ANALYTE	DL	QL	SPECIFIC FINDING
All water samples	Ag	+	U	1
MW-17D AND MW2-SW-8.	As	+/U	J/UJ	2
MW-17D.	Pb			
MW-17S, MW-17D, MW1-01 AND MW2-SW-8.	Se			
MW-1-01, MW1-01AND MW2-SW-8.	Tl			
All water samples	The Wet Chemistry will stands as reported without qualification.			

DL - denotes laboratory qualifier/reported value
+ denotes positive values
U denotes non-detect values

QL - denotes data validation qualifier

DATA ASSESSMENT NARRATIVE

VOLATILE ORGANICS

The organic findings offered in this screening report assumes that all analytical results are correct as reported and is based upon the examination of the reported holding times, blank analysis results, surrogate and matrix spike recoveries, GC/MS performance, tuning results, calibration results and internal standard areas. This report was prepared in compliance relative to the analytical and deliverable requirements specified in the U.S. EPA CLP, 2/88 SOW; the National Functional Guidelines for Organic Data Review, and NEESA Level C and D. All comments made within this report should be considered when examining the analytical results (Form I's).

Case # 20931

System Performance and Overall Assessment

The overall system performance was poor. The laboratory deviated from the methodology in the analyses of the this SDG, which resulted in qualification of the data. In addition, it must be noted that a NEESA Level C data package does not provide the data validator with all of the necessary supporting documentation to investigate the data thoroughly for errors.

Contractual Non Compliance

Heartland ESI observed several instances of non compliance throughout the data package.

* The laboratory analyzed twelve (12) (see **Attachment A**) of the twenty-three (23) Appendix IX compounds in a one point continuing calibration mixture analyzed each day before analysis. These twelve (12) compounds did not have an initial calibration associated with this analysis.

* The CRQLs reported by the laboratory for the twelve (12) compounds reflect an initial calibration, not the continuing calibration that was analyzed. Additional information was required to support the CRQLS reported by the laboratory due the lack of an initial calibration. The laboratory provided Heartland ESI with a MDL study performed for these compounds, dated June 5, 1991. The twelve (12) compounds are qualified at the reported CRQL as estimated (J/UJ).

* The laboratory used the blank qualifier flag (B) incorrectly for method blank contamination on the method blank Form 1s.

Contractual Non Compliance (continued)

* The laboratory did not analyze separate calibrations for water and soil analyses **(E-13/VOA, 2.1.1).**

* The laboratory is reporting the wrong method blank ID on the form 4As.

Specific findings:

1. For all of the samples, qualifications are required for the laboratory reported CRQLs that could not be supported for the target compounds listed in Attachment A. Due to the MDL study for these compounds provided by the laboratory, Heartland ESI will accept these CRQLs with the qualification that all non detect results are estimated (UJ). In addition, all positive results for these compounds are qualified as estimated (J) due to the lack of an initial calibration.

Holding Times

All of the samples were analyzed within the contractual holding times for volatile analysis. No qualification are required.

Tuning

All of the BFB tunes in the initial and continuing calibrations met the percent relative abundance criteria of the SOW and the Organic Functional Guidelines. No qualifications are required.

Initial Calibrations

The initial calibration that was analyzed by the laboratory for these samples was acceptable for all %RSDs. The initial calibration did not meet RRF criteria for one compound, 1,4-dioxane, which exhibited a RRF less than 0.05. No qualifications are required since samples were not analyzed after the initial calibration.

Continuing Calibrations

The continuing calibration that was analyzed with this data package required qualifications for non compliant %Ds. The calibration requires qualifications for non compliant RRFs.

Continuing Calibrations (continued)

Specific findings:

2. For the samples listed below, the continuing calibration, BSVH014284, contained the following compounds with %Ds greater than 25% D, but less than 50% D. Qualify all positive results for these compounds as estimated (J).

All samples	bromodichloro-methane trans-1,4-dichloropropene bromoform acetone carbon disulfide methylene chloride trichlorofluoromethane trans-1,4-dichloro-2-butene

3. For the samples listed below, the continuing calibration, BSVH014284, contained the following compounds with %Ds greater than 50% D, but less than 90% D. Qualify all positive results for these compounds as estimated (J) and all non detect results as estimated (UJ).

All samples	1,1,1-tri-chloroethane carbon tetrachloride bromofluorobenzene (surrogate)

4. For the samples listed below, the continuing calibration, BSVH014284, contained the following compounds with %Ds greater than 90% D. Qualify all positive results for these compounds as estimated (J) and reject (R) all non detect results.

All samples	1,2-dichloro-ethane 1,2-dichloroethane-d_4 (surrogate)

5. For all of the samples, the continuing calibration contained the 1,4-dioxane with a RRF less than 0.05. Qualify all positive results for this compound as estimated (J) and reject (R) all non detect results.

Internal Standards

All of the internal standard EICP areas for the samples and the blanks were within QA/QC limits. No qualifications are required.

Method Blanks

The method blanks that were analyzed exhibited contamination for acetone. The method blank results will be compared to their associated samples. Refer to the glossary of data qualifiers for a list and definition of the method blank qualifiers: CRQL, U and No Action.

Specific Findings:

6. The following samples have been qualified for blank contamination. Qualifications are for all method blanks.

   <u>acetone - CRQL</u>

   TRAVEL BLANK

   <u>acetone - U</u>

   MPT2MW16DD01

Trip Blanks

The trip blank analyzed with this SDG exhibited contamination for acetone that was attributed to the method blank. In addition, the trip blank exhibited contamination for methylene chloride. The trip blank results will be compared to their associated samples. Refer to the glossary of data qualifiers for a list and definition of the method blank/trip blank qualifiers: CRQL, U and No Action.

Specific findings:

7. The following samples have been qualified for trip blank contamination.

All samples	methylene - CRQL chloride

Rinseate/Field Blanks

The rinseate and field blank exhibited contamination that was attributed to the method blanks and trip blank. Chlorobenzene and chloroform was also detected in the rinseate blank. The rinseate blank results will be compared to their associated samples. Refer to the glossary of data qualifiers for a list and definition of the method blank/trip blank qualifiers: CRQL, U and No Action.

Specific findings:

8. The following samples have been qualified for rinseate blank contamination.

   MPT2MW16DD01 chloroform - CRQL

Surrogates

All of the surrogate recoveries were within QA/QC limits. No qualifications are required

Matrix Spike/Matrix Spike Duplicate (MS/MSD)

A MS/MSD was not submitted with this SDG.

Blank Spike/Blank Spike Duplicate (BS/BSD)

No BS/BSDs were analyzed with this SDG.

Compound Identification/Quantitation

No qualifications are required.

ATTACHMENT A

Appendix IX Compounds Associated with only a Continuing Calibration

Compound Name

Acetonitrile
3-Chloropropene
Propionitrile
Methacrylonitrile
Methyl Methacrylate
1,2-Dibromoethane
1,1,1,2-Tetrachloroethane
1,2-Dibromo-3-Chloropropane
Pentachloroethane
Isobutyl alcohol
Chloropropene

GLOSSARY OF DATA QUALIFIERS

QUALIFICATION CODES

U = Not detected

J = Estimated value

UJ = Reported quantitation limit is qualified as estimated

R = Result is rejected and unusable

NJ = Presumptive evidence for the presence of the material at an estimated value

K = Result is biased high

L = Result is biased low

METHOD BLANK QUALIFICATION CODES

CRQL = The sample result for the blank contaminant is less than the sample CRQL and is less than 10X the method blank value. The sample result for the blank contaminant is rejected and the CRQL for that analyte is reported.

U = The sample result for the blank contaminant is greater than the sample CRQL and is less than 10X the method blank value. The sample result for the blank contaminant is qualified as non detected at the analyte value reported.

No Action = The sample result for the blank contaminant is greater than the sample CRQL and is greater than 10X the method blank value. The sample result for the blank contaminant is not qualified with any blank qualifiers.

The specific findings will be noted in numerical form on the Form Is in this data validation report. These specific finding footnotes will reflect the conclusions found in the data validation process that resulted in the qualification of the data.

SUMMARY OF DATA QUALIFICATIONS

SAMPLE ID	ANALYTE ID	DL	QL	SPECIFIC FINDINGS
All samples	Attachment A	+/-	J/UJ	1
All samples	bromodichloro-methane trans-1,4-dichloropropene bromoform acetone carbon disulfide methylene chloride trichlorofluoromethane trans-1,4-dichloro-2-butene	+	J	2
All samples	1,1,1-tri-chloroethane carbon tetrachloride	+/-	J/UJ	3
All samples	1,2-dichloro-ethane	+/-	J/R	4
All samples	1,4-dioxane	+/-	R	5
TRAVEL BLANK	acetone	+BJ	CRQL	6
MPT2MW16DD01	acetone	+B	U	6
All samples	methylene chloride	+J	CRQL	7
MPT2MW16DD01	chloroform	+J	CRQL	8

* DL denotes the Form I qualifier supplied by the laboratory
QL denotes the qualifier used by the data validation firm
+ in the DL column denotes a positive result
- in the DL column denotes a non detect result

X

DATA ASSESSMENT NARRATIVE

SEMIVOLATILE ORGANICS

General

The organic findings offered in this screening report assumes that all analytical results are correct as reported and is based upon the examination of the reported holding times, blank analysis results, surrogate and matrix spike recoveries, GC/MS performance, tuning results, calibration results and internal standard areas. This report was prepared in compliance relative to the analytical and deliverable requirements specified in the U.S. EPA CLP, 2/88 SOW; the National Functional Guidelines for Organic Data Review, and NEESA Level C and D. All comments made within this report should be considered when examining the analytical results (Form I's).

Case # 20931

System Performance and Overall Assessment

The overall system performance was fair. The laboratory deviated from the methodology in the analyses of this SDG, which resulted in qualification of the data. In addition, it must be noted that a NEESA Level C data package does not provide the data validator with all of the necessary supporting documentation to investigate the data thoroughly for errors.

Contractual Non Compliance

Heartland ESI observed several instances of non compliance throughout the data package.

* The laboratory analyzed eighteen (18) **(See Attachment A)** of the forty-three (43) Appendix IX compounds in a one point continuing calibration mixture analyzed each day before analysis. These eighteen (18) compounds did not have an initial calibration associated with this analysis.

* The CRQLs reported by the laboratory for the twelve (12) compounds reflect an initial calibration, not the continuing calibration that was analyzed. Additional information was required to support the CRQLS reported by the laboratory due the lack of an initial calibration. The laboratory provided Heartland ESI with a MDL study performed for these compounds, dated June 5, 1991. The twelve (12) compounds are qualified at the reported CRQL as estimated (J/UJ).

Contractual Non Compliance (continued)

* The laboratory reported CRQLs for two (2) of the Appendix IX compounds (see **Attachment B)** which did not have an initial or continuing calibration associated with the analyses. All results for these two (2) compounds will be rejected.

* The laboratory used the blank qualifier flag (B) incorrectly for method blank contamination on the method blank Form 1s.

* The laboratory is reporting the wrong method blank ID on the form 4As.

Specific findings:

1. For all of the samples, qualifications are required for the laboratory reported CRQLs that could not be supported for the target compounds listed in Attachment A. Due to the MDL study for these compounds provided by the laboratory, Heartland ESI will accept these CRQLs with the qualification that all non detect results are estimated (UJ). In addition, all positive results for these compounds are qualified as estimated (J) due to the lack of an initial calibration.

2. For all of the samples, rejection is required for the two (2) compounds in Attachment B. The laboratory did not provide calibration data for these two (2) compounds. All results for these compounds are rejected (R).

Holding Times

All extraction holding times and analysis holding times were met for all samples. No qualifications are required.

Tuning

All of the DFTPP tunes in the initial and continuing calibrations met the percent relative abundance criteria of the SOW and the Organic Functional Guidelines. No qualifications are required.

Initial Calibrations

One (1) of the initial calibrations that were analyzed by the laboratory for these samples was not acceptable for all compound %RSDs. All RRFs were acceptable.

Specific findings:

3. The initial calibration analyzed on 02/17/92 contained the following compounds with %RSDs greater than 30%. No qualifications are required since samples were not analyzed after the initial calibration.

   benzidine
   1-naphthylamine
   2-naphthylamine
   4-aminobiphenyl

Continuing Calibrations

The continuing calibration that was analyzed with this sample required qualifications for non compliant %Ds. All of the criteria and non criteria compounds met RRF requirements.

Specific Findings:

4. For the samples listed below, the continuing calibration, DSBA010112, contained the following compounds with %Ds greater than 25%, but less than 50%. Qualify all positive results for these compounds as estimated (J).

All samples	nitrobenzene
	anthracene
	2-nitroaniline
	4-nitrophenol
	4,6-dinitro-2-methylphenol
	N-nitrosopiperidine
	1-naphthylamine
	2-naphthylamine
	phenacetin

Continuing Calibrations (continued)

5. For the samples listed below, the continuing calibration, DSBA010112, contained the following compounds with %Ds greater than 50%, but less than 90%. Qualify all positive results for these compounds as estimated (J) and all non detect results as estimated (UJ).

All samples	benzidine benzo(b)fluoranthene

Internal Standards

All of the blank and sample internal standard EICP areas met the EICP internal standard area QA/QC criteria. No qualifications are required.

Method Blanks

The method blanks that were analyzed exhibited contamination for TCLs. The method blank results will be compared to their associated samples. Refer to the glossary of data qualifiers for a list and definition of the method blank qualifiers: CRQL, U and No Action.

Specific findings:

6. The following samples have been qualified for method blank contamination.

<u>di-n-butylphthalate - CRQL</u>

MPT2MW16DD01

Surrogates

All of the surrogate recoveries were within QA/QC criteria. No qualifications are required.

Matrix Spike/Matrix Spike Duplicate

A MS/MSD was not submitted with this SDG.

Blank Spike/Blank Spike Duplicate

No BS/BSDs were associated with this SDG.

Compound Identification/Quantitation

No qualifications are required.

ATTACHMENT A

Appendix IX Compounds Associated with only a Continuing Calibration

Compound Name

N-Nitrosodiethylamine
N-Nitrosopyrrolidine
N-Nitrosomethylethylamine
N-Nitrosomorpholine
o-Toluidine
Hexachloropropene
p-Phenyleneamine
Safrole
Isosafrole
1,4-Napthoquinone
1,3-Dinitrobenzene
5-Nitro-o-toluidine
1,3,5-Trinitrobenzene
4-Nitroquinoline-1-oxide
Methapyrilene
3,3'-Dimethylbenzidine
2-Acetamidofluorene
Hexachlorophene

ATTACHMENT B

Appendix IX Compounds Associated with No Calibrations

Compound Name

Phenyl-tert-butylamine
Diphenylamine

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* **All compounds are rejected due to missing initial and continuing calibrations.**

GLOSSARY OF DATA QUALIFIERS

QUALIFICATION CODES

U = Not detected

J = Estimated value

UJ = Reported quantitation limit is qualified as estimated

R = Result is rejected and unusable

NJ = Presumptive evidence for the presence of the material at an estimated value

K = Result is biased high

L = Result is biased low

METHOD BLANK QUALIFICATION CODES

CRQL = The sample result for the blank contaminant is less than the sample CRQL and is less than 10X the method blank value. The sample result for the blank contaminant is rejected and the CRQL for that analyte is reported.

U = The sample result for the blank contaminant is greater than the sample CRQL and is less than 10X the method blank value. The sample result for the blank contaminant is qualified as non detected at the analyte value reported.

No Action = The sample result for the blank contaminant is greater than the sample CRQL and is greater than 10X the method blank value. The sample result for the blank contaminant is not qualified with any blank qualifiers.

The specific findings will be noted in numerical form on the Form Is in this data validation report. These specific finding footnotes will reflect the conclusions found in the data validation process that resulted in the qualification of the data.

SUMMARY OF DATA QUALIFICATIONS

SAMPLE ID	ANALYTE ID	DL	QL	SPECIFIC FINDINGS
All samples	Attachment A	+/-	J/UJ	1
All samples	Attachment B	+/-	R	2
All samples	nitrobenzene anthracene 2-nitroaniline 4-nitrophenol 4,6-dinitro-2-methylphenol N-nitrosopiperidine 1-naphthylamine 2-naphthylamine phenacetin	+	J	4
All samples	benzidine benzo(b)fluoranthene	+/-	J/UJ	5
MPT2MW16DD01	di-n-butyl-phthalate	+BJ	CRQL	6

* DL denotes the Form I qualifier supplied by the laboratory
QL denotes the qualifier used by the data validation firm
\+ in the DL column denotes a positive result
\- in the DL column denotes a non detect result

DATA ASSESSMENT NARRATIVE

ORGANOCHLORINE PESTICIDES AND PCBS - METHOD 8080

General

The organic findings offered in this screening report assumes that all analytical results are correct as reported and is based upon the examination of the reported holding times, GC instrument performance, initial and continuing calibrations, analytical sequence, blank analysis results, surrogate recoveries, and MS/MSD results. All comments made within this report should be considered when examining the analytical results (Form Is). Please refer the specific findings found in each category to the Summary of Data Qualification table.

LABORATORY NUMBER: 20753

Contractual Non-Compliance

The laboratory did not provide a CLP Form 9 or equivalent summary of retention time information as required under the NEESA QA Requirements (*NEESA 20.2-047B, June 1988, page 61, Table 7.6*) for Level C Deliverables for the Pesticide/PCB data. No qualification of the reported data was made based on this deficiency.

One Appendix IX compound from this fraction, Kepone, was "Not Reported -due to poor recovery from spiking studies performed at the laboratory".

Holding Times

All extraction and analysis hold times were apparently met as indicated by the Chain-of-Custodies and Form 4s included in the package.

GC Instrument Performance

This GC analytical fraction was apparently analyzed utilizing internal standards, relative retention times and relative response factors. All percent breakdowns reported were within the required QC limits. No surrogate retention time information was available. Target compound resolution and potential internal standard or surrogate interferences could not be determined. No qualifications of the reported non-detect results were made based on instrument performance.

Initial Calibration

The single-component pesticides were analyzed using an initial five-point calibrations. Only the relative concentrations of the standards used for these calibrations were presented in the limited Level C data package. Thus, none of the reported CRQLs could be verified due to the lack of information regarding concentrations of the lowest standards and final extract volumes for the samples. No information regarding the Aroclor initial calibrations was contained in the data package.

The initial calibration for the single-component pesticides presented were acceptably linear. No qualification of the reported results were required based on the initial calibrations reported.

Continuing Calibrations

All %Ds for all continuing calibrations were within QC limits with only one exception. The Appendix IX compound Diallate was slightly above the 15% D QC limit (16%) in one continuing calibration. The difference was due to an increase in response for this compound. Therefore, the associated non-detect sample results were not qualified. No qualifications were required based on the continuing calibration results presented.

Blanks

None of the reported Form Is for Method blanks for any fraction showed confirmed positive results above the reported CRQLs. No qualifications were required.

Surrogate Recoveries

All reported sample surrogate recoveries were within the reported QC limits. Recovery limits for the surrogates appear to have been established using appropriate Control Charting procedures by the laboratory.

Matrix Spike/Matrix Spike Duplicate

All reported Recoveries and RPDs for the MS/MSD included in this data package were within QC limits. The Recoveries for the Blank Spikes included for each matrix were somewhat low. No qualifications were required.

Analyte Identification/Quantitation

All reported results for these samples are accepted without additional qualification based on the limited information contained in the NEESA Level C deliverables package.

QUALIFICATION CODES

U	=	Not detected
J	=	Reported result is quantitatively estimated
UJ	=	Reported quantitation limit is qualified as estimated
R	=	Result is rejected and unusable
N	=	Result is negated, do not consider result in sample
NJ	=	Presumptive evidence for the presence of the material at an estimated concentration

Validation specific findings are noted in numerical form on the Form Is in this data validation report. These specific finding footnotes reflect the conclusions found in the data validation process that resulted in the qualifications of the data.

SUMMARY OF GC DATA QUALIFICATIONS

SAMPLE ID	ANALYTE ID	DL	QL	SPECIFIC FINDINGS
No specific findings were identified which resulted in the qualification of any of the reported non-detect sample results.				

* DL denotes the Form I qualifier/value supplied by the laboratory
QL denotes the qualifier/value used by Validator

+ in the DL column denotes a positive result
+ in the QL column denotes a reviewer revised result

HEARTLAND ENVIRONMENTAL
SERVICES, INC.

DATA ASSESSMENT NARRATIVE
Metals
and Wet Chemistry

General

The inorganic findings offered in this screening report assumes that all analytical results are correct as reported and is based upon the examination of the reported holding times, calibration standards, blank analysis results and MS/MSD results. A minimum of ten percent of all laboratory calculations. All comments made within this report should be considered when examining the analytical results (Form Is).

This data package consisted of results from **Mayport, SDG# 20753**, the analysis of three (3) field water samples and no Matrix Spike and Duplicate pair and eight (8) field soil samples and no Matrix Spike and Duplicate pair for TAL Metals and eight field water samples for Wet Chemistry. Overall, the inorganic data quality was fair. Level C data validation reviews rely on the laboratory filling out the forms correctly. The Laboratory performed a Matrix Spike and Duplicate on samples from a different site and are not acceptable. The All other protocol requirements were followed.

Specific QA/QC deficiency Findings are listed numerically in the following categories:

Holding Times

The holding times were met as specified in Section 3 of the NEESA (20.2-047B) QA protocol.

Calibration

No deficiencies in this section.

Preparation and Field Blanks

1. The preparation blank exhibited contamination for the following elements.

Cadmium	3.3	ug/l	Lead	0.496	mg/kg
			Vanadium	0.694	mg/kg
			Zinc	3.849	mg/kg

The USEPA requires that all sample values below five times the preparation blank contamination be qualified as non-detect, "U".

2. The preparation blank exhibited negative bias for the following element.

Beryllium	-1.1	ug/l	Copper	-0.805	mg/kg
Vanadium	-3.0	ug/l	Silver	-0.632	mg/kg

Metals Data Assessment Narrative (continued - Page 2)

All sample values within ten times the preparation blank contamination and non-detect results are qualified as estimated, "J" or "UJ".

Interferences

No significant interferences were observed.

Spike Recovery

3. No Matrix Spike for this SDG. All positive and non-detect results are qualified as estimated, "J" or "UJ".

Duplicate

4. The Duplicate Analysis for this SDG. All positive and non-detect results are qualified as estimated, "J" or "UJ".

LCS

No deficiencies in this section.

Serial Dilution

No deficiencies in this section.

MSA

No deficiencies in this section.

Wet Chemistry

The samples were reviewed for holding times, detection limit and LCSs.

HEARTLAND ENVIRONMENTAL SERVICES, INC.

SUMMARY OF DATA QUALIFICATIONS

SAMPLE ID	ANALYTE	DL	QL	SPECIFIC FINDING
All water samples All soil samples	Pb, V, Zn. Cd	+	J	1
All water samples All soil samples	Be and V Cu and Ag	+/U	J/UJ	2
All samples	All analytes	+/U	J/UJ	3
All samples	All analytes	+/U	J/UJ	4

All water samples The Wet Chemistry will stand as reported without qualification.

DL - denotes laboratory qualifier/reported value
+ denotes positive values
U denotes non-detect values

QL - denotes data validation qualifier

DATA ASSESSMENT NARRATIVE

VOLATILE ORGANICS

The organic findings offered in this screening report assumes that all analytical results are correct as reported and is based upon the examination of the reported holding times, blank analysis results, surrogate and matrix spike recoveries, GC/MS performance, tuning results, calibration results and internal standard areas. This report was prepared in compliance relative to the analytical and deliverable requirements specified in the U.S. EPA CLP, 2/88 SOW; SW-846, Method 8240; the National Functional Guidelines for Organic Data Review, and NEESA Level C and D. All comments made within this report should be considered when examining the analytical results (Form I's).

Case # 20781

System Performance and Overall Assessment

The overall system performance was fair. The laboratory deviated from the methodology in the analyses of the this SDG, which resulted in qualification of the data. In addition, it must be noted that a NEESA Level C data package does not provide the data validator with all of the necessary supporting documentation to investigate the data thoroughly for errors.

Contractual Non Compliance

Heartland ESI observed several instances of non compliance throughout the data package.

* The laboratory analyzed twelve (12) (**see Attachment A**) of the twenty-three (23) Appendix IX compounds in a one point continuing calibration mixture analyzed each day before analysis. These twelve (12) compounds did not have an initial calibration associated with this analysis.

* The CRQLs reported by the laboratory for the twelve (12) compounds reflect an initial calibration, not the continuing calibration that was analyzed. Additional information was required to support the CRQLS reported by the laboratory due the lack of an initial calibration. The laboratory provided Heartland ESI with a MDL study performed for these compounds, dated June 5, 1991. The twelve (12) compounds are qualified at the reported CRQL as estimated (J/UJ).

* The laboratory used the blank qualifier flag (B) incorrectly for method blank contamination on the method blank Form 1s.

Contractual Non Compliance (continued)

* The laboratory did not analyze separate calibrations for water and soil analyses (E-13/VOA, 2.1.1).

* The laboratory is reporting the wrong method blank ID on the form 4As.

Specific findings:

1. For all of the samples, qualifications are required for the laboratory reported CRQLs that could not be supported for the target compounds listed in Attachment A. Due to the MDL study for these compounds provided by the laboratory, Heartland ESI will accept these CRQLs with the qualification that all non detect results are estimated (UJ). In addition, all positive results for these compounds are qualified as estimated (J) due to the lack of an initial calibration.

Holding Times

All of the samples were analyzed within the contractual holding times for volatile analysis. No qualification are required.

Tuning

All of the BFB tunes in the initial and continuing calibrations met the percent relative abundance criteria of the SOW and the Organic Functional Guidelines. No qualifications are required.

Initial Calibrations

The initial calibration that was analyzed by the laboratory for these samples was acceptable for all criteria and non criteria %RSDs. One compound, 1,4-dioxane, exhibited a RRF less than 0.05. However, qualifications are not required since samples were not analyzed after the initial calibration.

Continuing Calibrations

The continuing calibrations that was analyzed with this data package required qualifications for non compliant %Ds and RRFs.

Continuing Calibrations (continued)

Specific findings:

2. For the samples listed below, the continuing calibration, CSVO020247, contained the following compounds with %Ds greater than 25% D, but less than 50% D. Qualify all positive results for these compounds as estimated (J).

SBLKW	1,2-dichloroethane-d_4
SBLKS	trichlorofluoromethane
TRIP BLANK5	carbon tetrachloride
MPT-2-DM-1	1,3-dichlorobenzene
MPT-2-PG-1	1,2-dichlorobenzene
MPT-2-PK-1	

3. For all of the samples, 1,4-dioxane exhibited a RRF less than 0.05 in the continuing calibration, CSVO020247. Qualify all positive results for this compound as estimated (J) and reject (R) all non detect results.

Internal Standards

All of the internal standard EICP areas for the samples and the blanks were within QA/QC limits. No qualifications are required.

Method Blanks

The method blanks that were analyzed exhibited contamination for methylene chloride, acetone and 2-butanone. The method blank results will be compared to their associated samples. Refer to the glossary of data qualifiers for a list and definition of the method blank qualifiers: CRQL, U and No Action.

Specific Findings:

3. The following samples have been qualified for blank contamination. Qualifications are for all method blanks.

   <u>methylene chloride - U</u>

   All samples

Method blanks (Specific finding #3 continued)

acetone - U

TRIP_BLANK5
MPT-2-PG-1
MPT-2-PK-1

acetone - NA

MPT-2-DM-1

2-butanone - CRQL

TRIP_BLANK5
MPT-2-PK-1
MPT-2-DM-1

2-butanone - U

MPT-2-PG-1

Trip Blanks

The trip blank analyzed with this SDG exhibited contamination that was attributed to the associated method blank. No qualifications are required.

Surrogates

All of the surrogates recoveries were within QA/QC limits. No qualifications are required.

Matrix Spike/Matrix Spike Duplicate (MS/MSD)

A MS/MSD was not submitted with this SDG.

Blank Spike/Blank Spike Duplicate (BS/BSD)

No BS/BSDs were analyzed with this SDG.

DATA ASSESSMENT NARRATIVE

VOLATILE ANALYSIS

Compound Identification/Quantitation

No qualifications are required.

ATTACHMENT A

Appendix IX Compounds Associated with only a Continuing Calibration

Compound Name
Acetonitrile
3-Chloropropene
Propionitrile
Methacrylonitrile
Methyl Methacrylate
1,2-Dibromoethane
1,1,1,2-Tetrachloroethane
1,2-Dibromo-3-Chloropropane
Pentachloroethane
Isobutyl alcohol
Chloropropene

GLOSSARY OF DATA QUALIFIERS

QUALIFICATION CODES

U = Not detected

J = Estimated value

UJ = Reported quantitation limit is qualified as estimated

R = Result is rejected and unusable

NJ = Presumptive evidence for the presence of the material at an estimated value

K = Result is biased high

L = Result is biased low

METHOD BLANK QUALIFICATION CODES

CRQL = The sample result for the blank contaminant is less than the sample CRQL and is less than 10X the method blank value. The sample result for the blank contaminant is rejected and the CRQL for that analyte is reported.

U = The sample result for the blank contaminant is greater than the sample CRQL and is less than 10X the method blank value. The sample result for the blank contaminant is qualified as non detected at the analyte value reported.

No Action = The sample result for the blank contaminant is greater than the sample CRQL and is greater than 10X the method blank value. The sample result for the blank contaminant is not qualified with any blank qualifiers.

The specific findings will be noted in numerical form on the Form Is in this data validation report. These specific finding footnotes will reflect the conclusions found in the data validation process that resulted in the qualification of the data.

SUMMARY OF DATA QUALIFICATIONS

SAMPLE ID	ANALYTE ID	DL	QL	SPECIFIC FINDINGS
All samples	Attachment A	+/-	J/UJ	1
SBLKW SBLKS TRIP BLANK5 MPT-2-DM-1 MPT-2-PG-1 MPT-2-PK-1	1,2-dichloro-ethane-d_4 carbon tetrachloride 1,3-dichlorobenzene 1,2-dichlorobenzene trichlorofluoromethane	+	J	2
All samples	1,4-dioxane	+/-	J/R	3
All samples	methylene-chloride	+B	U	4
TRIP_BLANK5 MPT-2-PG-1 MPT-2-PK-1	acetone	+	U	4
MPT-2-DM-1	acetone	+	NA	4
TRIP_BLANK5 MPT-2-PK-1 MPT-2-DM-1	2-butanone	+	CRQL	4
MPT-2-PG-1	2-butanone	+	U	4

* DL denotes the Form I qualifier supplied by the laboratory
QL denotes the qualifier used by the data validation firm
+ in the DL column denotes a positive result
- in the DL column denotes a non detect result

DATA ASSESSMENT NARRATIVE

SEMIVOLATILE ORGANICS

General

The organic findings offered in this screening report assumes that all analytical results are correct as reported and is based upon the examination of the reported holding times, blank analysis results, surrogate and matrix spike recoveries, GC/MS performance, tuning results, calibration results and internal standard areas. This report was prepared in compliance relative to the analytical and deliverable requirements specified in the U.S. EPA CLP, 2/88 SOW; SW-846, Method 8270, the National Functional Guidelines for Organic Data Review, and NEESA Level C and D. All comments made within this report should be considered when examining the analytical results (Form I's).

Case # 20781

System Performance and Overall Assessment

The overall system performance was fair. The laboratory deviated from the methodology in the analyses of this SDG, which resulted in qualification of the data. In addition, it must be noted that a NEESA Level C data package does not provide the data validator with all of the necessary supporting documentation to investigate the data thoroughly for errors.

Contractual Non Compliance

Heartland ESI observed several instances of non compliance throughout the data package.

* The laboratory analyzed eighteen (18) **(See Attachment A)** of the forty-three (43) Appendix IX compounds in a one point continuing calibration mixture analyzed each day before analysis. These eighteen (18) compounds did not have an initial calibration associated with this analysis.

* The CRQLs reported by the laboratory for the twelve (12) compounds reflect an initial calibration, not the continuing calibration that was analyzed. Additional information was required to support the CRQLS reported by the laboratory due the lack of an initial calibration. The laboratory provided Heartland ESI with a MDL study performed for these compounds, dated June 5, 1991. The twelve (12) compounds are qualified at the reported CRQL as estimated (J/UJ).

Contractual Non Compliance (continued)

* The laboratory reported CRQLs for two (2) of the Appendix IX compounds (see **Attachment B)** which did not have an initial or continuing calibration associated with the analyses. All results for these two (2) compounds will be rejected.

* The laboratory used the blank qualifier flag (B) incorrectly for method blank contamination on the method blank Form 1s.

* The laboratory is reporting the wrong method blank ID on the form 4As.

Specific findings:

1. For all of the samples, qualifications are required for the laboratory reported CRQLs that could not be supported for the target compounds listed in Attachment A. Due to the MDL study for these compounds provided by the laboratory, Heartland ESI will accept these CRQLs with the qualification that all non detect results are estimated (UJ). In addition, all positive results for these compounds are qualified as estimated (J) due to the lack of an initial calibration.

2. For all of the samples, rejection is required for the two (2) compounds in Attachment B. The laboratory did not provide calibration data for these two (2) compounds. All results for these compounds are rejected (R).

Holding Times

All extraction and analysis holding times were met for all samples.

Tuning

All of the DFTPP tunes in the initial and continuing calibrations met the percent relative abundance criteria of the SOW and the Organic Functional Guidelines. No qualifications are required.

Initial Calibrations

The initial calibration that was analyzed by the laboratory for these samples was not acceptable for all compound %RSDs. The average RRFs for all of the criteria compounds met the initial calibration criteria.

Initial Calibrations (continued)

Specific Findings:

3. The initial calibration on, 02/10/92, had the following compounds with %RSD greater than 30% RSD. No qualification are required because no samples were analyzed following this calibration

   benzo(k)fluoranthene

Continuing Calibrations

The continuing calibration that was analyzed with this data package was acceptable for %Ds. All of the criteria and non criteria compounds met RRF requirements.

Internal Standards

All of the blank and sample internal standard EICP areas met the EICP internal standard area QA/QC criteria. No qualifications are required.

Method Blanks

The method blanks that were analyzed exhibited contamination for di-n-butylphthalate. The method blank results will be compared to their associated samples. Refer to the glossary of data qualifiers for a list and definition of the method blank qualifiers: CRQL, U and No Action.

Specific Findings:

4. The following samples have been qualified for blank contamination. Qualification are for all method blanks.

   <u>di-n-butylphthalate - CRQL</u>

   MPT-2-PG-1
   MPT-2-PK-1

DATA ASSESSMENT NARRATIVE

SEMIVOLATILE ANALYSIS

Surrogates

All of the surrogate recoveries were within QA/QC criteria. Qualifications are not required.

Matrix Spike/Matrix Spike Duplicate

No MS/MSD analyzed with these samples.

Blank Spike/Blank Spike Duplicate

No BS/BSDs associated with this SDG.

Compound Identification/Quantitation

No qualifications are required.

ATTACHMENT A

Appendix IX Compounds Associated with only a Continuing Calibration

Compound Name
N-Nitrosodiethylamine
N-Nitrosopyrrolidine
N-Nitrosomethylethylamine
N-Nitrosomorpholine
o-Toluidine
Hexachloropropene
p-Phenyleneamine
Safrole
Isosafrole
1,4-Napthoquinone
1,3-Dinitrobenzene
5-Nitro-o-toluidine
1,3,5-Trinitrobenzene
4-Nitroquinoline-1-oxide
Methapyrilene
3,3'-Dimethylbenzidine
2-Acetamidofluorene
Hexachlorophene

ATTACHMENT B

Appendix IX Compounds Associated with No Calibrations

Compound Name
Phenyl-tert-butylamine
Diphenylamine

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* All compounds are rejected due to missing initial and continuing calibrations.

GLOSSARY OF DATA QUALIFIERS

QUALIFICATION CODES

U = Not detected

J = Estimated value

UJ = Reported quantitation limit is qualified as estimated

R = Result is rejected and unusable

NJ = Presumptive evidence for the presence of the material at an estimated value

K = Result is biased high

L = Result is biased low

METHOD BLANK QUALIFICATION CODES

CRQL = The sample result for the blank contaminant is less than the sample CRQL and is less than 10X the method blank value. The sample result for the blank contaminant is rejected and the CRQL for that analyte is reported.

U = The sample result for the blank contaminant is greater than the sample CRQL and is less than 10X the method blank value. The sample result for the blank contaminant is qualified as non detected at the analyte value reported.

No Action = The sample result for the blank contaminant is greater than the sample CRQL and is greater than 10X the method blank value. The sample result for the blank contaminant is not qualified with any blank qualifiers.

The specific findings will be noted in numerical form on the Form Is in this data validation report. These specific finding footnotes will reflect the conclusions found in the data validation process that resulted in the qualification of the data.

SUMMARY OF DATA QUALIFICATIONS

SAMPLE ID	ANALYTE ID	DL	QL	SPECIFIC FINDINGS
All samples	Attachment A	+/-	J/UJ	1
All samples	Attachment B	+/-	R	2
MPT-2-PG-1 MPT-2-PK-1	di-n-butyl- phthalate	+	CRQL	4

* DL denotes the Form I qualifier supplied by the laboratory
QL denotes the qualifier used by the data validation firm
\+ in the DL column denotes a positive result
\- in the DL column denotes a non detect result

HEARTLAND ENVIRONMENTAL
SERVICES, INC.

DATA ASSESSMENT NARRATIVE
Metals
and Wet Chemistry

General

The inorganic findings offered in this screening report assumes that all analytical results are correct as reported and is based upon the examination of the reported holding times, calibration standards, blank analysis results and MS/MSD results. A minimum of ten percent of all laboratory calculations. All comments made within this report should be considered when examining the analytical results (Form Is).

This data package consisted of results from **Mayport, SDG# 20781**, the analysis of three (3) field soil samples and no Matrix Spike and Duplicate pair for TAL Metals. Overall, the inorganic data quality was fair. Level C data validation reviews rely on the laboratory filling out the forms correctly. The Laboratory performed a Matrix Spike and Duplicate on samples from a different site and are not acceptable. The All other protocol requirements were followed.

Specific QA/QC deficiency Findings are listed numerically in the following categories:

Holding Times

The holding times were met as specified in Section 3 of the NEESA (20.2-047B) QA protocol.

Calibration

No deficiencies in this section.

Preparation and Field Blanks

1. The preparation blank exhibited contamination for the following elements.

Barium	0.286	mg/kg
Lead	0.55	mg/kg
Selenium	0.246	mg/kg
Zinc	0.276	mg/kg

The USEPA requires that all sample values below five times the preparation blank contamination be qualified as non-detect, "U".

2. The preparation blank exhibited negative bias for the following element.

Silver	-0.444	mg/kg

Metals Data Assessment Narrative (continued - Page 2)

All sample values within ten times the preparation blank contamination and non-detect results are qualified as estimated, "J" or "UJ".

Interferences

No significant interferences were observed.

Spike Recovery

3. No Matrix Spike for this SDG. All positive and non-detect results are qualified as estimated, "J" or "UJ".

Duplicate

4. The Duplicate Analysis for this SDG. All positive and non-detect results are qualified as estimated, "J" or "UJ".

LCS

No deficiencies in this section.

Serial Dilution

No deficiencies in this section.

MSA

No deficiencies in this section.

HEARTLAND ENVIRONMENTAL SERVICES, INC.

SUMMARY OF DATA QUALIFICATIONS

SAMPLE ID	ANALYTE	DL	QL	SPECIFIC FINDING
All soil samples	Ba, Pb, Se, and Zn.	+	U	1
All soil samples	Ag	+/U	J/UJ	2
All soil samples	All analytes	+/U	J/UJ	3
All soil samples	All analytes	+/U	J/UJ	4

DL - denotes laboratory qualifier/reported value
+ denotes positive values
U denotes non-detect values

QL - denotes data validation qualifier

X

DATA ASSESSMENT NARRATIVE

VOLATILE ORGANICS

The organic findings offered in this screening report assumes that all analytical results are correct as reported and is based upon the examination of the reported holding times, blank analysis results, surrogate and matrix spike recoveries, GC/MS performance, tuning results, calibration results and internal standard areas. This report was prepared in compliance relative to the analytical and deliverable requirements specified in the U.S. EPA CLP, 2/88 SOW; the National Functional Guidelines for Organic Data Review, and NEESA Level C and D. All comments made within this report should be considered when examining the analytical results (Form I's).

Case # 20837

System Performance and Overall Assessment

The overall system performance was fair. The laboratory deviated from the methodology in the analyses of the this SDG, which resulted in qualification of the data. In addition, it must be noted that a NEESA Level C data package does not provide the data validator with all of the necessary supporting documentation to investigate the data thoroughly for errors.

Contractual Non Compliance

Heartland ESI observed several instances of non compliance throughout the data package.

* The laboratory analyzed twelve (12) (see **Attachment A**) of the twenty-three (23) Appendix IX compounds in a one point continuing calibration mixture analyzed each day before analysis. These twelve (12) compounds did not have an initial calibration associated with this analysis.

* The CRQLs reported by the laboratory for the twelve (12) compounds reflect an initial calibration, not the continuing calibration that was analyzed. Additional information was required to support the CRQLS reported by the laboratory due the lack of an initial calibration. The laboratory provided Heartland ESI with a MDL study performed for these compounds, dated June 5, 1991. The twelve (12) compounds are qualified at the reported CRQL as estimated (J/UJ).

* The laboratory used the blank qualifier flag (B) incorrectly for method blank contamination on the method blank Form 1s.

Contractual Non Compliance (continued)

* The laboratory did not analyze separate calibrations for water and soil analyses **(E-13/VOA, 2.1.1).**

* The laboratory is reporting the wrong method blank ID on the form 4As.

Specific findings:

1. For all of the samples, qualifications are required for the laboratory reported CRQLs that could not be supported for the target compounds listed in Attachment A. Due to the MDL study for these compounds provided by the laboratory, Heartland ESI will accept these CRQLs with the qualification that all non detect results are estimated (UJ). In addition, all positive results for these compounds are qualified as estimated (J) due to the lack of an initial calibration.

Holding Times

All of the samples were analyzed within the contractual holding times for volatile analysis. No qualification are required.

Tuning

All of the BFB tunes in the initial and continuing calibrations met the percent relative abundance criteria of the SOW and the Organic Functional Guidelines. No qualifications are required.

Initial Calibrations

The initial calibration that was analyzed by the laboratory for these samples was acceptable for all %RSDs. One compound, 1,4-dioxane, exhibited a RRF less than 0.05. No qualifications are required since samples were not analyzed after the initial calibration.

Continuing Calibrations

The one (1) continuing calibration that was analyzed with this data package required qualifications for non compliant %Ds. All of the calibrations require qualifications for non compliant RRFs.

Continuing Calibrations (continued)

Specific findings:

2. For the samples listed below, the continuing calibration, CSVO020354, contained the following compounds with %Ds greater than 25% D, but less than 50% D. Qualify all positive results for these compounds as estimated (J).

VBLKW	dibromomethane
All samples	1,2-dichlorobenzene
	1,3-dichlorobenzene

3. For all of the samples, the continuing calibrations contained the 1,4-dioxane with a RRF less than 0.05. Qualify all positive results for this compound as estimated (J) and reject (R) all non detect results.

Internal Standards

All of the internal standard EICP areas for the samples and the blanks were within QA/QC limits. No qualifications are required.

Method Blanks

The method blanks that were analyzed exhibited contamination for acetone. The method blank results will be compared to their associated samples. Refer to the glossary of data qualifiers for a list and definition of the method blank qualifiers: CRQL, U and No Action.

Specific Findings:

4. The following samples have been qualified for blank contamination. Qualifications are for all method blanks.

<u>acetone - CRQL</u>

MPT-FB-01
MPT-RB-01
MPT-22-MW1-01

Method Blank (Specific finding #4 continued)

<u>acetone - U</u>

MPT2MW11-01
MPT2MW12S-01
MPT2MW12S-01D
TRAVEL BLANK

Trip Blanks

The trip blank exhibited contamination for methylene chloride. The method blank results will be compared to their associated samples. Refer to the glossary of data qualifiers for a list and definition of the method blank qualifiers: CRQL, U and No Action.

5. The following samples have been qualified for trip blank contamination.

<u>methylene chloride - CRQL</u>

All samples

Rinseate/Field Blanks

The rinseate blank and field blank exhibited contamination that was attributed to method blank/trip blank contamination. In addition, chlorobenzene was detected in both samples. However, the associated samples did not exhibit contamination for chlorobenzene, so qualifications are not required.

Surrogates

All of the surrogate recoveries were within QA/QC limits. No qualifications are required

Matrix Spike/Matrix Spike Duplicate (MS/MSD)

A MS/MSD was not submitted with this SDG.

Blank Spike/Blank Spike Duplicate (BS/BSD)

No BS/BSDs were analyzed with this SDG.

Compound Identification/Quantitation

No qualifications are required.

ATTACHMENT A

Appendix IX Compounds Associated with only a Continuing Calibration

Compound Name
Acetonitrile
3-Chloropropene
Propionitrile
Methacrylonitrile
Methyl Methacrylate
1,2-Dibromoethane
1,1,1,2-Tetrachloroethane
1,2-Dibromo-3-Chloropropane
Pentachloroethane
Isobutyl alcohol
Chloropropene

GLOSSARY OF DATA QUALIFIERS

QUALIFICATION CODES

U = Not detected

J = Estimated value

UJ = Reported quantitation limit is qualified as estimated

R = Result is rejected and unusable

NJ = Presumptive evidence for the presence of the material at an estimated value

K = Result is biased high

L = Result is biased low

METHOD BLANK QUALIFICATION CODES

CRQL = The sample result for the blank contaminant is less than the sample CRQL and is less than 10X the method blank value. The sample result for the blank contaminant is rejected and the CRQL for that analyte is reported.

U = The sample result for the blank contaminant is greater than the sample CRQL and is less than 10X the method blank value. The sample result for the blank contaminant is qualified as non detected at the analyte value reported.

No Action = The sample result for the blank contaminant is greater than the sample CRQL and is greater than 10X the method blank value. The sample result for the blank contaminant is not qualified with any blank qualifiers.

The specific findings will be noted in numerical form on the Form Is in this data validation report. These specific finding footnotes will reflect the conclusions found in the data validation process that resulted in the qualification of the data.

SUMMARY OF DATA QUALIFICATIONS

SAMPLE ID	ANALYTE ID	DL	QL	SPECIFIC FINDINGS
All samples	Attachment A	+/-	J/UJ	1
VBLKW All samples	dibromomethane 1,2-dichlorobenzene 1,3-dichlorobenzene	+	J	2
All samples	1,4-dioxane	+/-	J/R	3
MPT-FB-01 MPT-RB-01 MPT-22-MW1-01	acetone	+BJ	CRQL	4
MPT2MW11-01 MPT2MW12S-01 MPT2MW12S-01D TRAVEL BLANK	acetone	+B	U	4
All samples except TRIP BLANK	methylene chloride	+J	CRQL	5

* DL denotes the Form I qualifier supplied by the laboratory
QL denotes the qualifier used by the data validation firm
+ in the DL column denotes a positive result
- in the DL column denotes a non detect result

X

DATA ASSESSMENT NARRATIVE

SEMIVOLATILE ORGANICS

General

The organic findings offered in this screening report assumes that all analytical results are correct as reported and is based upon the examination of the reported holding times, blank analysis results, surrogate and matrix spike recoveries, GC/MS performance, tuning results, calibration results and internal standard areas. This report was prepared in compliance relative to the analytical and deliverable requirements specified in the U.S. EPA CLP, 2/88 SOW; the National Functional Guidelines for Organic Data Review, and NEESA Level C and D. All comments made within this report should be considered when examining the analytical results (Form I's).

Case # 20837

System Performance and Overall Assessment

The overall system performance was fair. The laboratory deviated from the methodology in the analyses of this SDG, which resulted in qualification of the data. In addition, it must be noted that a NEESA Level C data package does not provide the data validator with all of the necessary supporting documentation to investigate the data thoroughly for errors.

Contractual Non Compliance

Heartland ESI observed several instances of non compliance throughout the data package.

* The laboratory analyzed eighteen (18) **(See Attachment A)** of the forty-three (43) Appendix IX compounds in a one point continuing calibration mixture analyzed each day before analysis. These eighteen (18) compounds did not have an initial calibration associated with this analysis.

* The CRQLs reported by the laboratory for the twelve (12) compounds reflect an initial calibration, not the continuing calibration that was analyzed. Additional information was required to support the CRQLS reported by the laboratory due the lack of an initial calibration. The laboratory provided Heartland ESI with a MDL study performed for these compounds, dated June 5, 1991. The twelve (12) compounds are qualified at the reported CRQL as estimated (J/UJ).

Contractual Non Compliance (continued)

* The laboratory reported CRQLs for two (2) of the Appendix IX compounds (see Attachment B) which did not have an initial or continuing calibration associated with the analyses. All results for these two (2) compounds will be rejected.

* The laboratory used the blank qualifier flag (B) incorrectly for method blank contamination on the method blank Form 1s.

* The laboratory is reporting the wrong method blank ID on the form 4As.

Specific findings:

1. For all of the samples, qualifications are required for the laboratory reported CRQLs that could not be supported for the target compounds listed in Attachment A. Due to the MDL study for these compounds provided by the laboratory, Heartland ESI will accept these CRQLs with the qualification that all non detect results are estimated (UJ). In addition, all positive results for these compounds are qualified as estimated (J) due to the lack of an initial calibration.

2. For all of the samples, rejection is required for the two (2) compounds in Attachment B. The laboratory did not provide calibration data for these two (2) compounds. All results for these compounds are rejected (R).

Holding Times

All extraction holding times and analysis holding times were met for all samples. No qualifications are required.

Tuning

All of the DFTPP tunes in the initial and continuing calibrations met the percent relative abundance criteria of the SOW and the Organic Functional Guidelines. No qualifications are required.

Initial Calibrations

The initial calibrations that was analyzed by the laboratory for these samples was acceptable for all compound %RSDs and RRFs. No qualifications are required.

Continuing Calibrations

The continuing calibration that was analyzed with this sample required qualifications for non compliant %Ds. All of the criteria and non criteria compounds met RRF requirements.

Specific Findings:

3. For the samples listed below, the continuing calibration, ASBA012928, contained the following compounds with %Ds greater than 25%, but less than 50%. Qualify all positive results for these compounds as estimated (J).

All samples	hexachloro-benzene benzo(k)fluoranthene 2-nitroaniline benzoic acid 2-nitroaniline 3,3'-dichlorobenzidine methyl methanesulfonate N-nitrosopiperidine 1-naphthylamine 2-naphthylamine phenacetin

4. For the samples listed below, the continuing calibration, ASBA012928, contained the following compounds with %Ds greater than 50%, but less than 90%. Qualify all positive results for these compounds as estimated (J) and all non detect results as estimated (UJ).

All samples	bis(2-chloro-isopropyl)ether

Internal Standards

All of the blank and sample internal standard EICP areas met the EICP internal standard area QA/QC criteria. No qualifications are required.

Method Blanks

The method blanks that were analyzed exhibited contamination for TCLs. The method blank results will be compared to their associated samples. Refer to the glossary of data qualifiers for a list and definition of the method blank qualifiers: CRQL, U and No Action.

Specific findings:

5. The following samples have been qualified for method blank contamination.

   <u>di-n-butylphthalate - CRQL</u>

   MPT22-MW1-01
   MPT2MW11-01
   MPT2MW12S-01
   MPT2MW12S-01D

Surrogates

All of the surrogate recoveries, with the exception of one (1) recovery, were within QA/QC criteria. No qualifications are required.

Matrix Spike/Matrix Spike Duplicate

No MS/MSD was submitted with this SDG.

Blank Spike/Blank Spike Duplicate

No BS/BSDs were associated with this SDG.

Compound Identification/Quantitation

No qualifications are required.

ATTACHMENT A

Appendix IX Compounds Associated with only a Continuing Calibration

Compound Name
N-Nitrosodiethylamine
N-Nitrosopyrrolidine
N-Nitrosomethylethylamine
N-Nitrosomorpholine
o-Toluidine
Hexachloropropene
p-Phenyleneamine
Safrole
Isosafrole
1,4-Napthoquinone
1,3-Dinitrobenzene
5-Nitro-o-toluidine
1,3,5-Trinitrobenzene
4-Nitroquinoline-1-oxide
Methapyrilene
3,3'-Dimethylbenzidine
2-Acetamidofluorene
Hexachlorophene

ATTACHMENT B

Appendix IX Compounds Associated with No Calibrations

Compound Name
Phenyl-tert-butylamine
Diphenylamine

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* All compounds are rejected due to missing initial and continuing calibrations.

GLOSSARY OF DATA QUALIFIERS

QUALIFICATION CODES

U = Not detected

J = Estimated value

UJ = Reported quantitation limit is qualified as estimated

R = Result is rejected and unusable

NJ = Presumptive evidence for the presence of the material at an estimated value

K = Result is biased high

L = Result is biased low

METHOD BLANK QUALIFICATION CODES

CRQL = The sample result for the blank contaminant is less than the sample CRQL and is less than 10X the method blank value. The sample result for the blank contaminant is rejected and the CRQL for that analyte is reported.

U = The sample result for the blank contaminant is greater than the sample CRQL and is less than 10X the method blank value. The sample result for the blank contaminant is qualified as non detected at the analyte value reported.

No Action = The sample result for the blank contaminant is greater than the sample CRQL and is greater than 10X the method blank value. The sample result for the blank contaminant is not qualified with any blank qualifiers.

The specific findings will be noted in numerical form on the Form Is in this data validation report. These specific finding footnotes will reflect the conclusions found in the data validation process that resulted in the qualification of the data.

SUMMARY OF DATA QUALIFICATIONS

SAMPLE ID	ANALYTE ID	DL	QL	SPECIFIC FINDINGS
All samples	Attachment A	+/-	J/UJ	1
All samples	Attachment B	+/-	R	2
All samples	hexachloro-benzene benzo(k)fluoranthene 2-nitroaniline benzoic acid 2-nitroaniline 3,3'-dichlorobenzidine methyl methanesulfonate N-nitrosopiperidine 1-naphthylamine 2-naphthylamine phenacetin	+	J	3
All samples	bis(2-chloro-isopropyl)ether	+/-	J/UJ	4
MPT22-MW1-01 MPT2MW11-01 MPT2MW12S-01 MPT2MW12S-01D	di-n-butyl-phthalate	+BJ	CRQL	5

* DL denotes the Form I qualifier supplied by the laboratory
QL denotes the qualifier used by the data validation firm
\+ in the DL column denotes a positive result
\- in the DL column denotes a non detect result

DATA ASSESSMENT NARRATIVE

ORGANOCHLORINE PESTICIDES AND PCBS - METHOD 8080

General

The organic findings offered in this screening report assumes that all analytical results are correct as reported and is based upon the examination of the reported holding times, GC instrument performance, initial and continuing calibrations, analytical sequence, blank analysis results, surrogate recoveries, and MS/MSD results. All comments made within this report should be considered when examining the analytical results (Form Is). Please refer the specific findings found in each category to the Summary of Data Qualification table.

LABORATORY NUMBER: 20837

Contractual Non-Compliance

The laboratory did not provide a CLP Form 9 or equivalent summary of retention time information as required under the NEESA QA Requirements (*NEESA 20.2-047B, June 1988, page 61, Table 7.6*) for Level C Deliverables for the Pesticide/PCB data. No qualification of the reported data was made based on this deficiency.

One Appendix IX compound from this fraction, Kepone, was "Not Reported -due to poor recovery from spiking studies performed at the laboratory".

Holding Times

All extraction and analysis hold times were apparently met as indicated by the Chain-of-Custodies and Form 4s included in the package.

GC Instrument Performance

This GC analytical fraction was apparently analyzed utilizing internal standards, relative retention times and relative response factors. All percent breakdowns reported were within the required QC limits. No surrogate retention time information was available. Target compound resolution and potential internal standard or surrogate interferences could not be determined. No qualifications of the reported non-detect results were made based on instrument performance.

Initial Calibration

The single-component pesticides were analyzed using an initial five-point calibrations. Only the relative concentrations of the standards used for these calibrations were presented in the limited Level C data package. Thus, none of the reported CRQLs could be verified due to the lack of information regarding concentrations of the lowest standards and final extract volumes for the samples. No information regarding the Aroclor initial calibrations was contained in the data package.

The initial calibration for the single-component pesticides were presented using non-linear quadratic model statistics. The correlations were acceptable. No qualification of the reported results were required based on the initial calibrations reported.

Continuing Calibrations

All %Ds for all continuing calibrations were within QC limits with only one exception. Delta-BHC was slightly above the 15% D QC limit in one continuing calibration. Although the difference was due to a decrease in response for this compound, none of the reported samples appear to be associated with this continuing calibration based on the file Ids. No qualifications were required based on the data presented.

Blanks

The reported Form I for the Method blank showed no confirmed positive results above the reported CRQLs. No qualifications were required.

Surrogate Recoveries

All reported sample surrogate recoveries were within the reported QC limits. Recovery limits for the surrogates appear to be those utilized by the USEPA CLP under the 2/88 SOW.

Matrix Spike/Matrix Spike Duplicate

No MS/MSD was included in this data package. One Recovery for the Blank Spike included for the water matrix was somewhat high. No qualifications were required.

Analyte Identification/Quantitation

All reported results for these samples are accepted without additional qualification based on the limited information contained in the NEESA Level C deliverables package.

QUALIFICATION CODES

U	=	Not detected
J	=	Reported result is quantitatively estimated
UJ	=	Reported quantitation limit is qualified as estimated
R	=	Result is rejected and unusable
N	=	Result is negated, do not consider result in sample
NJ	=	Presumptive evidence for the presence of the material at an estimated concentration

Validation specific findings are noted in numerical form on the Form Is in this data validation report. These specific finding footnotes reflect the conclusions found in the data validation process that resulted in the qualifications of the data.

SUMMARY OF GC DATA QUALIFICATIONS

SAMPLE ID	ANALYTE ID	DL	QL	SPECIFIC FINDINGS
No specific findings were identified which resulted in the qualification of any of the reported non-detect sample results.				

* DL denotes the Form I qualifier/value supplied by the laboratory
QL denotes the qualifier/value used by Validator

+ in the DL column denotes a positive result
+ in the QL column denotes a reviewer revised result

DATA ASSESSMENT NARRATIVE
Metals
and Wet Chemistry

General

The inorganic findings offered in this screening report assumes that all analytical results are correct as reported and is based upon the examination of the reported holding times, calibration standards, blank analysis results and MS/MSD results. A minimum of ten percent of all laboratory calculations. All comments made within this report should be considered when examining the analytical results (Form Is).

This data package consisted of results from **Mayport, SDG# 20837**, the analysis of six (6) field water samples and one Matrix Spike and Duplicate pair for TAL Metals and three (3) field water samples for Wet Chemistry analyses. Overall, the inorganic data quality was fair. Level C data validation reviews rely on the laboratory filling out the forms correctly. The All protocol requirements were followed.

Specific QA/QC deficiency Findings are listed numerically in the following categories:

Holding Times

The holding times were met as specified in Section 3 of the NEESA (20.2-047B) QA protocol.

Calibration

No deficiencies in this section.

Preparation and Field Blanks

1. The preparation blank exhibited contamination for the following elements.

Barium	0.58	ug/l
Calcium	211.6	ug/l
Iron	31.77	ug/l
Magnesium	29.57	ug/l
Manganese	0.84	ug/l
Sodium	880.	ug/l
Zinc	4.11	ug/l

The USEPA requires that all sample values below five times the preparation blank contamination be qualified as non-detect, "U".

Interferences

No significant interferences were observed.

Spike Recovery

No deficienies in this section.

Duplicate

2. The Duplicate Analysis for Zinc was outside the control limit. All positive and non-detect results are qualified as estimated, "J" or "UJ".

LCS

No deficiencies in this section.

Serial Dilution

No deficiencies in this section.

MSA

No deficiencies in this section.

Wet Chemistry

The samples were reviewed for holding times, detection limit and LCSs.

SUMMARY OF DATA QUALIFICATIONS

SAMPLE ID	ANALYTE	DL	QL	SPECIFIC FINDING
All water samples	Ba, Ca, Fe, Mg, Mn, Na and Zn.	+	U	1
All water samples	Zn	+/U	J/UJ	2
All water samples	The Wet Chemistry will stands as reported without qualification.			

DL - denotes laboratory qualifier/reported value
+ denotes positive values
U denotes non-detect values

QL - denotes data validation qualifier

DATA ASSESSMENT NARRATIVE

VOLATILE ORGANICS

The organic findings offered in this screening report assumes that all analytical results are correct as reported and is based upon the examination of the reported holding times, blank analysis results, surrogate and matrix spike recoveries, GC/MS performance, tuning results, calibration results and internal standard areas. This report was prepared in compliance relative to the analytical and deliverable requirements specified in the U.S. EPA CLP, 2/88 SOW; the National Functional Guidelines for Organic Data Review, and NEESA Level C and D. All comments made within this report should be considered when examining the analytical results (Form I's).

Case # 20850

System Performance and Overall Assessment

The overall system performance was poor. The laboratory deviated from the methodology in the analyses of the this SDG, which resulted in qualification of the data. In addition, it must be noted that a NEESA Level C data package does not provide the data validator with all of the necessary supporting documentation to investigate the data thoroughly for errors.

Contractual Non Compliance

Heartland ESI observed several instances of non compliance throughout the data package.

* The laboratory analyzed twelve (12) (see **Attachment A**) of the twenty-three (23) Appendix IX compounds in a one point continuing calibration mixture analyzed each day before analysis. These twelve (12) compounds did not have an initial calibration associated with this analysis.

* The CRQLs reported by the laboratory for the twelve (12) compounds reflect an initial calibration, not the continuing calibration that was analyzed. Additional information was required to support the CRQLS reported by the laboratory due the lack of an initial calibration. The laboratory provided Heartland ESI with a MDL study performed for these compounds, dated June 5, 1991. The twelve (12) compounds are qualified at the reported CRQL as estimated (J/UJ).

* The laboratory used the blank qualifier flag (B) incorrectly for method blank contamination on the method blank Form 1s.

Contractual Non Compliance (continued)

* The laboratory did not analyze separate calibrations for water and soil analyses **(E-13/VOA, 2.1.1).**

* The laboratory is reporting the wrong method blank ID on the form 4As.

Specific findings:

1. For all of the samples, qualifications are required for the laboratory reported CRQLs that could not be supported for the target compounds listed in Attachment A. Due to the MDL study for these compounds provided by the laboratory, Heartland ESI will accept these CRQLs with the qualification that all non detect results are estimated (UJ). In addition, all positive results for these compounds are qualified as estimated (J) due to the lack of an initial calibration.

Holding Times

All of the samples were analyzed within the contractual holding times for volatile analysis. No qualification are required.

Tuning

All of the BFB tunes in the initial and continuing calibrations met the percent relative abundance criteria of the SOW and the Organic Functional Guidelines. No qualifications are required.

Initial Calibrations

The initial calibration that was analyzed by the laboratory for these samples was acceptable for all %RSDs. The initial calibration did not meet RRF criteria for one compound, 1,4-dioxane, which exhibited a RRF less than 0.05. No qualifications are required since samples were not analyzed after the initial calibration.

Continuing Calibrations

The continuing calibration that was analyzed with this data package was acceptable for all compound %Ds. The calibration requires qualifications for non compliant RRFs.

Continuing Calibrations (continued)

Specific findings:

2. For all of the samples, the continuing calibration contained the 1,4-dioxane with a RRF less than 0.05. Qualify all positive results for this compound as estimated (J) and reject (R) all non detect results.

Internal Standards

All of the internal standard EICP areas for the samples and the blanks were within QA/QC limits. No qualifications are required.

Method Blanks

The method blanks that were analyzed exhibited contamination for acetone and methylene chloride. The method blank results will be compared to their associated samples. Refer to the glossary of data qualifiers for a list and definition of the method blank qualifiers: CRQL, U and No Action.

Specific Findings:

3. The following samples have been qualified for blank contamination. Qualifications are for all method blanks.

   <u>methylene chloride - CRQL</u>
   MPT13MW-4-01
   MPT13MW-5-01

   <u>methylene chloride - U</u>
   TRAVEL BLANK

   <u>acetone - U</u>
   TRAVEL BLANK
   MPT13MW-5-01

   <u>acetone - No Action</u>
   MPT13MW-4-01

Trip Blanks

The trip blank analyzed with this SDG exhibited contamination that was attributed to the method blank. No qualifications are required.

Rinseate/Field Blanks

A rinseate or field blank was not identified.

Surrogates

All of the surrogate recoveries were within QA/QC limits. No qualifications are required

Matrix Spike/Matrix Spike Duplicate (MS/MSD)

A MS/MSD was not submitted with this SDG.

Blank Spike/Blank Spike Duplicate (BS/BSD)

No BS/BSDs were analyzed with this SDG.

Compound Identification/Quantitation

No qualifications are required.

ATTACHMENT A

Appendix IX Compounds Associated with only a Continuing Calibration

Compound Name
Acetonitrile
3-Chloropropene
Propionitrile
Methacrylonitrile
Methyl Methacrylate
1,2-Dibromoethane
1,1,1,2-Tetrachloroethane
1,2-Dibromo-3-Chloropropane
Pentachloroethane
Isobutyl alcohol
Chloropropene

GLOSSARY OF DATA QUALIFIERS

QUALIFICATION CODES

U = Not detected

J = Estimated value

UJ = Reported quantitation limit is qualified as estimated

R = Result is rejected and unusable

NJ = Presumptive evidence for the presence of the material at an estimated value

K = Result is biased high

L = Result is biased low

METHOD BLANK QUALIFICATION CODES

CRQL = The sample result for the blank contaminant is less than the sample CRQL and is less than 10X the method blank value. The sample result for the blank contaminant is rejected and the CRQL for that analyte is reported.

U = The sample result for the blank contaminant is greater than the sample CRQL and is less than 10X the method blank value. The sample result for the blank contaminant is qualified as non detected at the analyte value reported.

No Action = The sample result for the blank contaminant is greater than the sample CRQL and is greater than 10X the method blank value. The sample result for the blank contaminant is not qualified with any blank qualifiers.

The specific findings will be noted in numerical form on the Form Is in this data validation report. These specific finding footnotes will reflect the conclusions found in the data validation process that resulted in the qualification of the data.

SUMMARY OF DATA QUALIFICATIONS

SAMPLE ID	ANALYTE ID	DL	QL	SPECIFIC FINDINGS
All samples	Attachment A	+/-	J/UJ	1
All samples	1,4-dioxane	+/-	R	2
MPT13MW-4-01 MPT13MW-5-01	methylene chloride	+BJ	CRQL	3
TRAVEL BLANK	methylene chloride	+B	U	3
TRAVEL BLANK MPT13MW-5-01	acetone	+B	U	3
MPT13MW-4-01	acetone	+B	NA	3

* DL denotes the Form I qualifier supplied by the laboratory
QL denotes the qualifier used by the data validation firm
\+ in the DL column denotes a positive result
\- in the DL column denotes a non detect result

DATA ASSESSMENT NARRATIVE

SEMIVOLATILE ORGANICS

General

The organic findings offered in this screening report assumes that all analytical results are correct as reported and is based upon the examination of the reported holding times, blank analysis results, surrogate and matrix spike recoveries, GC/MS performance, tuning results, calibration results and internal standard areas. This report was prepared in compliance relative to the analytical and deliverable requirements specified in the U.S. EPA CLP, 2/88 SOW; the National Functional Guidelines for Organic Data Review, and NEESA Level C and D. All comments made within this report should be considered when examining the analytical results (Form I's).

Case # 20850

System Performance and Overall Assessment

The overall system performance was fair. The laboratory deviated from the methodology in the analyses of this SDG, which resulted in qualification of the data. In addition, it must be noted that a NEESA Level C data package does not provide the data validator with all of the necessary supporting documentation to investigate the data thoroughly for errors.

Contractual Non Compliance

Heartland ESI observed several instances of non compliance throughout the data package.

* The laboratory analyzed eighteen (18) **(See Attachment A)** of the forty-three (43) Appendix IX compounds in a one point continuing calibration mixture analyzed each day before analysis. These eighteen (18) compounds did not have an initial calibration associated with this analysis.

* The CRQLs reported by the laboratory for the twelve (12) compounds reflect an initial calibration, not the continuing calibration that was analyzed. Additional information was required to support the CRQLS reported by the laboratory due the lack of an initial calibration. The laboratory provided Heartland ESI with a MDL study performed for these compounds, dated June 5, 1991. The twelve (12) compounds are qualified at the reported CRQL as estimated (J/UJ).

Contractual Non Compliance (continued)

* The laboratory reported CRQLs for two (2) of the Appendix IX compounds (see **Attachment B)** which did not have an initial or continuing calibration associated with the analyses. All results for these two (2) compounds will be rejected.

* The laboratory used the blank qualifier flag (B) incorrectly for method blank contamination on the method blank Form 1s.

* The laboratory is reporting the wrong method blank ID on the form 4As.

Specific findings:

1. For all of the samples, qualifications are required for the laboratory reported CRQLs that could not be supported for the target compounds listed in Attachment A. Due to the MDL study for these compounds provided by the laboratory, Heartland ESI will accept these CRQLs with the qualification that all non detect results are estimated (UJ). In addition, all positive results for these compounds are qualified as estimated (J) due to the lack of an initial calibration.

2. For all of the samples, rejection is required for the two (2) compounds in Attachment B. The laboratory did not provide calibration data for these two (2) compounds. All results for these compounds are rejected (R).

Holding Times

All extraction holding times and analysis holding times were met for all samples. No qualifications are required.

Tuning

All of the DFTPP tunes in the initial and continuing calibrations met the percent relative abundance criteria of the SOW and the Organic Functional Guidelines. No qualifications are required.

Initial Calibrations

The one (1) initial calibration that was analyzed by the laboratory for these samples was not acceptable for all compound %RSDs. All RRFs were acceptable.

Specific findings:

3. The initial calibration analyzed on 02/17/92 contained the following compounds with %RSDs greater than 30%. No qualifications are required since samples were not analyzed after the initial calibration.

   benzidine
   1-naphthylamine
   2-naphthylamine
   4-aminobiphenyl

Continuing Calibrations

The continuing calibration that was analyzed with this sample required qualifications for non compliant %Ds. All of the criteria and non criteria compounds met RRF requirements.

Specific Findings:

4. For the samples listed below, the continuing calibration, DSBA09981, contained the following compounds with %Ds greater than 25%, but less than 50%. Qualify all positive results for these compounds as estimated (J).

All samples	benzyl alcohol 1-naphthylamine

5. For the samples listed below, the continuing calibration, DSBA010112, contained the following compounds with %Ds greater than 50%, but less than 90%. Qualify all positive results for these compounds as estimated (J) and all non detect results as estimated (UJ).

All samples	2-naphthyl- amine

Internal Standards

All of the blank and sample internal standard EICP areas met the EICP internal standard area QA/QC criteria. No qualifications are required.

Method Blanks

The method blanks that were analyzed exhibited contamination for TCLs. The method blank results will be compared to their associated samples. Refer to the glossary of data qualifiers for a list and definition of the method blank qualifiers: CRQL, U and No Action.

Specific findings:

6. The following samples have been qualified for method blank contamination.

   <u>di-n-butylphthalate - CRQL</u>

   MPT13MW-4-01

   <u>di-n-butylphthalate - U</u>

   MPT13MW-5-01

Surrogates

All of the surrogate recoveries were within QA/QC criteria. No qualifications are required.

Matrix Spike/Matrix Spike Duplicate

A MS/MSD was not submitted with this SDG.

Blank Spike/Blank Spike Duplicate

No BS/BSDs were associated with this SDG.

Compound Identification/Quantitation

No qualifications are required.

ATTACHMENT A

Appendix IX Compounds Associated with only a Continuing Calibration

Compound Name

N-Nitrosodiethylamine
N-Nitrosopyrrolidine
N-Nitrosomethylethylamine
N-Nitrosomorpholine
o-Toluidine
Hexachloropropene
p-Phenyleneamine
Safrole
Isosafrole
1,4-Napthoquinone
1,3-Dinitrobenzene
5-Nitro-o-toluidine
1,3,5-Trinitrobenzene
4-Nitroquinoline-1-oxide
Methapyrilene
3,3'-Dimethylbenzidine
2-Acetamidofluorene
Hexachlorophene

ATTACHMENT B

Appendix IX Compounds Associated with No Calibrations

Compound Name
Phenyl-tert-butylamine
Diphenylamine

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* All compounds are rejected due to missing initial and continuing calibrations.

GLOSSARY OF DATA QUALIFIERS

QUALIFICATION CODES

U = Not detected

J = Estimated value

UJ = Reported quantitation limit is qualified as estimated

R = Result is rejected and unusable

NJ = Presumptive evidence for the presence of the material at an estimated value

K = Result is biased high

L = Result is biased low

METHOD BLANK QUALIFICATION CODES

CRQL = The sample result for the blank contaminant is less than the sample CRQL and is less than 10X the method blank value. The sample result for the blank contaminant is rejected and the CRQL for that analyte is reported.

U = The sample result for the blank contaminant is greater than the sample CRQL and is less than 10X the method blank value. The sample result for the blank contaminant is qualified as non detected at the analyte value reported.

No Action = The sample result for the blank contaminant is greater than the sample CRQL and is greater than 10X the method blank value. The sample result for the blank contaminant is not qualified with any blank qualifiers.

The specific findings will be noted in numerical form on the Form Is in this data validation report. These specific finding footnotes will reflect the conclusions found in the data validation process that resulted in the qualification of the data.

SUMMARY OF DATA QUALIFICATIONS

SAMPLE ID	ANALYTE ID	DL	QL	SPECIFIC FINDINGS
All samples	Attachment A	+/-	J/UJ	1
All samples	Attachment B	+/-	R	2
All samples	benzyl alcohol 1-naphthylamine	+	J	4
All samples	2-naphthyl-amine	+/-	J/UJ	5
MPT13W-4-01	di-n-butyl-phthalate	+BJ	CRQL	6
MPT13W-5-01	di-n-butyl-phthalate	+BJ	U	6

* DL denotes the Form I qualifier supplied by the laboratory
QL denotes the qualifier used by the data validation firm
+ in the DL column denotes a positive result
- in the DL column denotes a non detect result

DATA ASSESSMENT NARRATIVE

ORGANOCHLORINE PESTICIDES AND PCBS - METHOD 8080

General

The organic findings offered in this screening report assumes that all analytical results are correct as reported and is based upon the examination of the reported holding times, GC instrument performance, initial and continuing calibrations, analytical sequence, blank analysis results, surrogate recoveries, and MS/MSD results. All comments made within this report should be considered when examining the analytical results (Form Is). Please refer the specific findings found in each category to the Summary of Data Qualification table.

LABORATORY NUMBER: 20850

Contractual Non-Compliance

The laboratory did not provide a CLP Form 9 or equivalent summary of retention time information as required under the NEESA QA Requirements (*NEESA 20.2-047B, June 1988, page 61, Table 7.6*) for Level C Deliverables for the Pesticide/PCB data. No qualification of the reported data was made based on this deficiency.

One Appendix IX compound from this fraction, Kepone, was "Not Reported - due to poor recovery from spiking studies performed at the laboratory".

Holding Times

All extraction and analysis hold times were apparently met as indicated by the Chain-of-Custodies and Form 4s included in the package.

GC Instrument Performance

This GC analytical fraction was apparently analyzed utilizing internal standards, relative retention times and relative response factors. All percent breakdowns reported were within the required QC limits. No surrogate retention time information was available. Target compound resolution and potential internal standard or surrogate interferences could not be determined. No qualifications of the reported non-detect results were made based on instrument performance.

Initial Calibration

The single-component pesticides were analyzed using an initial five-point calibrations. Only the relative concentrations of the standards used for these calibrations were presented in the limited Level C data package. Thus, none of the reported CRQLs could be verified due to the lack of information regarding concentrations of the lowest standards and final extract volumes for the samples. No information regarding the Aroclor initial calibrations was contained in the data package.

The initial calibration for the single-component pesticides were presented using non-linear quadratic model statistics. The correlations were acceptable. No qualification of the reported results were required based on the initial calibrations reported.

Continuing Calibrations

All %Ds for all continuing calibrations were within QC limits with only one exception. Delta-BHC was slightly above the 15% D QC limit in one continuing calibration. Although the difference was due to a decrease in response for this compound, neither of the reported samples appear to be associated with this continuing calibration based on the file IDs. No qualifications were required based on the data presented.

Blanks

The reported Form I for the Method blank showed no confirmed positive results above the reported CRQLs. No qualifications were required.

Surrogate Recoveries

All reported sample surrogate recoveries were within the reported QC limits. Recovery limits for the surrogates appear to be those utilized by the USEPA CLP under the 2/88 SOW.

Matrix Spike/Matrix Spike Duplicate

No MS/MSD was included in this data package. All Recoveries for the Blank Spike included for the water matrix were within QC limits. No qualifications were required.

Analyte Identification/Quantitation

All reported results for these samples are accepted without additional qualification based on the limited information contained in the NEESA Level C deliverables package.

QUALIFICATION CODES

U	=	Not detected
J	=	Reported result is quantitatively estimated
UJ	=	Reported quantitation limit is qualified as estimated
R	=	Result is rejected and unusable
N	=	Result is negated, do not consider result in sample
NJ	=	Presumptive evidence for the presence of the material at an estimated concentration

Validation specific findings are noted in numerical form on the Form Is in this data validation report. These specific finding footnotes reflect the conclusions found in the data validation process that resulted in the qualifications of the data.

SUMMARY OF GC DATA QUALIFICATIONS

SAMPLE ID	ANALYTE ID	DL	QL	SPECIFIC FINDINGS
No specific findings were identified which resulted in the qualification of any of the reported non-detect sample results.				

* DL denotes the Form I qualifier/value supplied by the laboratory
QL denotes the qualifier/value used by Validator

+ in the DL column denotes a positive result
+ in the QL column denotes a reviewer revised result

HEARTLAND ENVIRONMENTAL
SERVICES, INC.

DATA ASSESSMENT NARRATIVE
Metals
and Wet Chemistry

General

The inorganic findings offered in this screening report assumes that all analytical results are correct as reported and is based upon the examination of the reported holding times, calibration standards, blank analysis results and MS/MSD results. A minimum of ten percent of all laboratory calculations. All comments made within this report should be considered when examining the analytical results (Form Is).

This data package consisted of results from **Mayport, SDG# 20850**, the analysis of two (2) field water sample and no Matrix Spike and Duplicate pair for TAL Metals and two (2) field water samples for Wet Chemistry analyses. Overall, the inorganic data quality was fair. The Quality Assurance samples were found in SDG 20866. Level C data validation reviews rely on the laboratory filling out the forms correctly. The All protocol requirements were followed.

Specific QA/QC deficiency Findings are listed numerically in the following categories:

Holding Times

The holding times were met as specified in Section 3 of the NEESA (20.2-047B) QA protocol.

Calibration

The CCV for Tin was out of control. The reviewer was not able to qualify any of the data for this problem because of the lack of raw data.

Preparation and Field Blanks

1. The preparation blank exhibited contamination for the following elements.

Calcium	178.	ug/l
Copper	2.53	ug/l
Iron	19.94	ug/l
Manganese	0.44	ug/l
Nickel	7.3	ug/l
Sodium	776.	ug/l
Zinc	12.78	ug/l

The USEPA requires that all sample values below five times the preparation blank contamination be qualified as non-detect, "U".

2. The preparation blank exhibited negative bias for the following element.

   Mercury -0.164 ug/l

   All sample values within ten times the preparation blank contamination and non-detect results are qualified as estimated, "J" or "UJ".

Interferences

No significant interferences were observed.

Spike Recovery

3. The Matrix Spike recoveries for Lead and Thallium were below the lower control limit. All positive and non-detect results are qualified as estimated, "J" or "UJ".

4. The Matrix Spike recovery for Selenium was below 30%. All non-detect results are rejected and all positive results are qualified as estimated, "J".

5. The Matrix Spike for Mercury was analyzed on a sample from a different site. All positive and non-detect results are qualified as estimated, "J" or "UJ".

Duplicate

No deficiencies in this section.

LCS

No deficiencies in this section.

Serial Dilution

No deficiencies in this section.

MSA

No deficiencies in this section.

Wet Chemistry

The samples were reviewed for holding times, detection limit and LCSs.

SUMMARY OF DATA QUALIFICATIONS

SAMPLE ID	ANALYTE	DL	QL	SPECIFIC FINDING
All water samples	Ca, Cu, Fe, Mn, Ni, Na and Zn.	+	U	1
All water samples	Hg	+/U	J/UJ	2
All water samples	Pb and Tl	+/U	J/UJ	3
All water samples	Se	U +	R J	4
All water samples	Hg	+/U	J/UJ	5
All water samples	The Wet Chemistry will stands as reported without qualification.			

DL - denotes laboratory qualifier/reported value
+ denotes positive values
U denotes non-detect values

QL - denotes data validation qualifier

DATA ASSESSMENT NARRATIVE

VOLATILE ORGANICS

The organic findings offered in this screening report assumes that all analytical results are correct as reported and is based upon the examination of the reported holding times, blank analysis results, surrogate and matrix spike recoveries, GC/MS performance, tuning results, calibration results and internal standard areas. This report was prepared in compliance relative to the analytical and deliverable requirements specified in the U.S. EPA CLP, 2/88 SOW; the National Functional Guidelines for Organic Data Review, and NEESA Level C and D. All comments made within this report should be considered when examining the analytical results (Form I's).

Case # 20866

System Performance and Overall Assessment

The overall system performance was fair. The laboratory deviated from the methodology in the analyses of the this SDG, which resulted in qualification of the data. In addition, it must be noted that a NEESA Level C data package does not provide the data validator with all of the necessary supporting documentation to investigate the data thoroughly for errors.

Contractual Non Compliance

Heartland ESI observed several instances of non compliance throughout the data package.

* The laboratory analyzed twelve (12) (see **Attachment A**) of the twenty-three (23) Appendix IX compounds in a one point continuing calibration mixture analyzed each day before analysis. These twelve (12) compounds did not have an initial calibration associated with this analysis.

* The CRQLs reported by the laboratory for the twelve (12) compounds reflect an initial calibration, not the continuing calibration that was analyzed. Additional information was required to support the CRQLS reported by the laboratory due the lack of an initial calibration. The laboratory provided Heartland ESI with a MDL study performed for these compounds, dated June 5, 1991. The twelve (12) compounds are qualified at the reported CRQL as estimated (J/UJ).

* The laboratory used the blank qualifier flag (B) incorrectly for method blank contamination on the method blank Form 1s.

Contractual Non Compliance (continued)

* The laboratory did not analyze separate calibrations for water and soil analyses **(E-13/VOA, 2.1.1).**

* The laboratory is reporting the wrong method blank ID on the form 4As.

Specific findings:

1. For all of the samples, qualifications are required for the laboratory reported CRQLs that could not be supported for the target compounds listed in Attachment A. Due to the MDL study for these compounds provided by the laboratory, Heartland ESI will accept these CRQLs with the qualification that all non detect results are estimated (UJ). In addition, all positive results for these compounds are qualified as estimated (J) due to the lack of an initial calibration.

Holding Times

All of the samples were analyzed within the contractual holding times for volatile analysis. No qualification are required.

Tuning

All of the BFB tunes in the initial and continuing calibrations met the percent relative abundance criteria of the SOW and the Organic Functional Guidelines. No qualifications are required.

Initial Calibrations

The initial calibration that was analyzed by the laboratory for these samples was acceptable for all %RSDs. One compound, 1,4-dioxane, exhibited a RRF less than 0.05. No qualifications are required since samples were not analyzed after the initial calibration.

Continuing Calibrations

The one (1) continuing calibration that was analyzed with this data package required qualifications for non compliant %Ds. All of the calibrations require qualifications for non compliant RRFs.

Continuing Calibrations (continued)

Specific findings:

2. For the samples listed below, the continuing calibration, CSVO020450, contained the following compounds with %Ds greater than 25% D, but less than 50% D. Qualify all positive results for these compounds as estimated (J).

VBLKW	dibromomethane
All samples	1,2-dichlorobenzene

3. For all of the samples, the continuing calibrations contained the 1,4-dioxane with a RRF less than 0.05. Qualify all positive results for this compound as estimated (J) and reject (R) all non detect results.

Internal Standards

All of the internal standard EICP areas for the samples and the blanks were within QA/QC limits. No qualifications are required.

Method Blanks

The method blanks that were analyzed exhibited contamination for methylene chloride and/or acetone. The method blank results will be compared to their associated samples. Refer to the glossary of data qualifiers for a list and definition of the method blank qualifiers: CRQL, U and No Action.

Specific Findings:

4. The following samples have been qualified for blank contamination. Qualifications are for all method blanks.

   <u>methylene chloride - CRQL</u>

   MPT-FB-02

   <u>methylene chloride - U</u>

   All samples except
   MPT-FB-02

Method Blank (Specific finding #4 continued)

<u>acetone - CRQL</u>

MPT2-MW9S-01

<u>acetone - U</u>

All samples except
MPT2-MW9S-01

Trip Blanks

A trip blank was not identified with this SDG.

Rinseate/Field Blanks

The rinseate blank and field blank exhibited contamination that was attributed to method blank contamination. In addition, chlorobenzene was detected in both samples. However, the associated samples did not exhibit contamination for chlorobenzene, so qualifications are not required.

Surrogates

All of the surrogate recoveries were within QA/QC limits. No qualifications are required

Matrix Spike/Matrix Spike Duplicate (MS/MSD)

The MS/MSD exhibited acceptable recoveries and RPDs. No qualifications are required.

Blank Spike/Blank Spike Duplicate (BS/BSD)

No BS/BSDs were analyzed with this SDG.

Compound Identification/Quantitation

No qualifications are required.

ATTACHMENT A

Appendix IX Compounds Associated with only a Continuing Calibration

Compound Name
Acetonitrile
3-Chloropropene
Propionitrile
Methacrylonitrile
Methyl Methacrylate
1,2-Dibromoethane
1,1,1,2-Tetrachloroethane
1,2-Dibromo-3-Chloropropane
Pentachloroethane
Isobutyl alcohol
Chloropropene

GLOSSARY OF DATA QUALIFIERS

QUALIFICATION CODES

U = Not detected

J = Estimated value

UJ = Reported quantitation limit is qualified as estimated

R = Result is rejected and unusable

NJ = Presumptive evidence for the presence of the material at an estimated value

K = Result is biased high

L = Result is biased low

METHOD BLANK QUALIFICATION CODES

CRQL = The sample result for the blank contaminant is less than the sample CRQL and is less than 10X the method blank value. The sample result for the blank contaminant is rejected and the CRQL for that analyte is reported.

U = The sample result for the blank contaminant is greater than the sample CRQL and is less than 10X the method blank value. The sample result for the blank contaminant is qualified as non detected at the analyte value reported.

No Action = The sample result for the blank contaminant is greater than the sample CRQL and is greater than 10X the method blank value. The sample result for the blank contaminant is not qualified with any blank qualifiers.

The specific findings will be noted in numerical form on the Form Is in this data validation report. These specific finding footnotes will reflect the conclusions found in the data validation process that resulted in the qualification of the data.

SUMMARY OF DATA QUALIFICATIONS

SAMPLE ID	ANALYTE ID	DL	QL	SPECIFIC FINDINGS
All samples	Attachment A	+/-	J/UJ	1
VBLKW All samples	dibromomethane 1,2-dichlorobenzene	+	J	2
All samples	1,4-dioxane	+/-	J/R	3
MPT-FB-02	methylene chloride	+BJ	CRQL	4
All samples except MPT-FB-02	methylene chloride	+B	U	4
MPT2-MW9S-01	acetone	+BJ	CRQL	4
All samples except MPT2-MW9S-01	acetone	+B	U	4

* DL denotes the Form I qualifier supplied by the laboratory
QL denotes the qualifier used by the data validation firm
\+ in the DL column denotes a positive result
\- in the DL column denotes a non detect result

DATA ASSESSMENT NARRATIVE

SEMIVOLATILE ORGANICS

General

The organic findings offered in this screening report assumes that all analytical results are correct as reported and is based upon the examination of the reported holding times, blank analysis results, surrogate and matrix spike recoveries, GC/MS performance, tuning results, calibration results and internal standard areas. This report was prepared in compliance relative to the analytical and deliverable requirements specified in the U.S. EPA CLP, 2/88 SOW; the National Functional Guidelines for Organic Data Review, and NEESA Level C and D. All comments made within this report should be considered when examining the analytical results (Form I's).

Case # 20866

System Performance and Overall Assessment

The overall system performance was fair. The laboratory deviated from the methodology in the analyses of this SDG, which resulted in qualification of the data. In addition, it must be noted that a NEESA Level C data package does not provide the data validator with all of the necessary supporting documentation to investigate the data thoroughly for errors.

Contractual Non Compliance

Heartland ESI observed several instances of non compliance throughout the data package.

* The laboratory analyzed eighteen (18) **(See Attachment A)** of the forty-three (43) Appendix IX compounds in a one point continuing calibration mixture analyzed each day before analysis. These eighteen (18) compounds did not have an initial calibration associated with this analysis.

* The CRQLs reported by the laboratory for the twelve (12) compounds reflect an initial calibration, not the continuing calibration that was analyzed. Additional information was required to support the CRQLS reported by the laboratory due the lack of an initial calibration. The laboratory provided Heartland ESI with a MDL study performed for these compounds, dated June 5, 1991. The twelve (12) compounds are qualified at the reported CRQL as estimated (J/UJ).

Contractual Non Compliance (continued)

* The laboratory reported CRQLs for two (2) of the Appendix IX compounds (see **Attachment B)** which did not have an initial or continuing calibration associated with the analyses. All results for these two (2) compounds will be rejected.

* The laboratory used the blank qualifier flag (B) incorrectly for method blank contamination on the method blank Form 1s.

* The laboratory is reporting the wrong method blank ID on the form 4As.

Specific findings:

1. For all of the samples, qualifications are required for the laboratory reported CRQLs that could not be supported for the target compounds listed in Attachment A. Due to the MDL study for these compounds provided by the laboratory, Heartland ESI will accept these CRQLs with the qualification that all non detect results are estimated (UJ). In addition, all positive results for these compounds are qualified as estimated (J) due to the lack of an initial calibration.

2. For all of the samples, rejection is required for the two (2) compounds in Attachment B. The laboratory did not provide calibration data for these two (2) compounds. All results for these compounds are rejected (R).

Holding Times

All extraction holding times and analysis holding times were met for all samples. No qualifications are required.

Tuning

All of the DFTPP tunes in the initial and continuing calibrations met the percent relative abundance criteria of the SOW and the Organic Functional Guidelines. No qualifications are required.

Initial Calibrations

One (1) of the initial calibrations that were analyzed by the laboratory for these samples was not acceptable for all compound %RSDs. All RRFs were acceptable.

Specific findings:

3. The initial calibration analyzed on 02/17/92 contained the following compounds with %RSDs greater than 30%. No qualifications are required since samples were not analyzed after the initial calibration.

   benzidine
   1-naphthylamine
   2-naphthylamine
   4-aminobiphenyl

Continuing Calibrations

The continuing calibration that was analyzed with this sample required qualifications for non compliant %Ds. All of the criteria and non criteria compounds met RRF requirements.

Specific Findings:

4. For the samples listed below, the continuing calibration, ASBA012928, contained the following compounds with %Ds greater than 25%, but less than 50%. Qualify all positive results for these compounds as estimated (J).

MPT2-MW9D01	hexachlorobenzene
MPT-FB-02	benzo(k)fluoranthene
MPT-RB-02	2-nitroaniline
	benzoic acid
	2-nitroaniline
	3,3'-dichlorobenzidine
	methyl methanesulfonate
	N-nitrosopiperidine
	1-naphthylamine
	2-naphthylamine
	phenacetin
	4-aminobiphenyl

Continuing Calibrations (continued)

5. For the samples listed below, the continuing calibration, ASBA012928, contained the following compounds with %Ds greater than 50%, but less than 90%. Qualify all positive results for these compounds as estimated (J) and all non detect results as estimated (UJ).

MPT2-MW9D01	bis(2-chloroiso-
MPT-FB-02	propyl)ether
MPT-RB-02	

6. For the samples listed below, the continuing calibration, ASBA012943, contained the following compounds with %Ds greater than 25%, but less than 50%. Qualify all positive results for these compounds as estimated (J).

SBLKW_2	bis(2-chloro-
MPT2-MW301	ethoxy)methane
MPT2MW301MS	hexachlorobenzene
MPT2MW301MSD	benzo(k)fluoranthene
	2-nitroaniline
	bis(2-chloroisopropyl)ether
	2,4-dinitrophenol
	4-nitrophenol
	3,3'-dichlorobenzidine

7. For the samples listed below, the continuing calibration, DSBA009981, contained the following compounds with %Ds greater than 25%, but less than 50%. Qualify all positive results for these compounds as estimated (J).

SBLKW_3	benzyl alcohol
MPT2-MW9S-01	1-naphthylamine

8. For the samples listed below, the continuing calibration, DSBA009981, contained the following compounds with %Ds greater than 50%, but less than 90%. Qualify all positive results for these compounds as estimated (J) and all non detect results as estimated (UJ).

SBLKW_3	
MPT2-MW9S-01	2-naphthylamine

Internal Standards

All of the blank and sample internal standard EICP areas met the EICP internal standard area QA/QC criteria. No qualifications are required.

Method Blanks

The method blanks that were analyzed exhibited contamination for TCLs. The method blank results will be compared to their associated samples. Refer to the glossary of data qualifiers for a list and definition of the method blank qualifiers: CRQL, U and No Action.

Specific findings:

9. The following samples have been qualified for method blank contamination.

   <u>di-n-butylphthalate - CRQL</u>

   All samples

Surrogates

All of the surrogate recoveries, with the exception of one (1) recovery, were within QA/QC criteria. No qualifications are required.

Matrix Spike/Matrix Spike Duplicate

The MS/MSD spike recoveries were acceptable for all of the compounds. Two (2) RPDs were outside of QA/QC limits. No qualifications are required.

Blank Spike/Blank Spike Duplicate

No BS/BSDs were associated with this SDG.

Compound Identification/Quantitation

No qualifications are required.

ATTACHMENT A

Appendix IX Compounds Associated with only a Continuing Calibration

Compound Name

N-Nitrosodiethylamine
N-Nitrosopyrrolidine
N-Nitrosomethylethylamine
N-Nitrosomorpholine
o-Toluidine
Hexachloropropene
p-Phenyleneamine
Safrole
Isosafrole
1,4-Napthoquinone
1,3-Dinitrobenzene
5-Nitro-o-toluidine
1,3,5-Trinitrobenzene
4-Nitroquinoline-1-oxide
Methapyrilene
3,3'-Dimethylbenzidine
2-Acetamidofluorene
Hexachlorophene

ATTACHMENT B

Appendix IX Compounds Associated with No Calibrations

Compound Name
Phenyl-tert-butylamine
Diphenylamine

* All compounds are rejected due to missing initial and continuing calibrations.

GLOSSARY OF DATA QUALIFIERS

QUALIFICATION CODES

U = Not detected

J = Estimated value

UJ = Reported quantitation limit is qualified as estimated

R = Result is rejected and unusable

NJ = Presumptive evidence for the presence of the material at an estimated value

K = Result is biased high

L = Result is biased low

METHOD BLANK QUALIFICATION CODES

CRQL = The sample result for the blank contaminant is less than the sample CRQL and is less than 10X the method blank value. The sample result for the blank contaminant is rejected and the CRQL for that analyte is reported.

U = The sample result for the blank contaminant is greater than the sample CRQL and is less than 10X the method blank value. The sample result for the blank contaminant is qualified as non detected at the analyte value reported.

No Action = The sample result for the blank contaminant is greater than the sample CRQL and is greater than 10X the method blank value. The sample result for the blank contaminant is not qualified with any blank qualifiers.

The specific findings will be noted in numerical form on the Form Is in this data validation report. These specific finding footnotes will reflect the conclusions found in the data validation process that resulted in the qualification of the data.

SUMMARY OF DATA QUALIFICATIONS

SAMPLE ID	ANALYTE ID	DL	QL	SPECIFIC FINDINGS
All samples	Attachment A	+/-	J/UJ	1
All samples	Attachment B	+/-	R	2
MPT2-MW9D01 MPT-FB-02 MPT-RB-02	hexachloro-benzene benzo(k)fluoranthene 2-nitroaniline benzoic acid 2-nitroaniline 3,3'-dichlorobenzidine methyl methanesulfonate N-nitrosopiperidine 1-naphthylamine 2-naphthylamine phenacetin 4-aminobiphenyl	+	J	4
MPT2-MW9D01 MPT-FB-02 MPT-RB-02	bis(2-chloroiso-propyl)ether	+/-	J/UJ	5
SBLKW_2 MPT2-MW301 MPT2MW301MS MPT2MW301MSD	bis(2-chloro-ethoxy)methane hexachlorobenzene benzo(k)fluoranthene 2-nitroaniline bis(2-chloroisopropyl)ether 2,4-dinitrophenol 4-nitrophenol 3,3'-dichlorobenzidine	+	J	6

* DL denotes the Form I qualifier supplied by the laboratory
QL denotes the qualifier used by the data validation firm
+ in the DL column denotes a positive result
- in the DL column denotes a non detect result

SUMMARY OF DATA QUALIFICATIONS

SAMPLE ID	ANALYTE ID	DL	QL	SPECIFIC FINDINGS
SBLKW_3 MPT2-MW9S-01	benzyl alcohol 1-naphthylamine	+	J	7
SBLKW_3 MPT2-MW9S-01	2-naphthylamine	+/-	J/UJ	8
All samples	di-n-butyl- phthalate	+BJ	CRQL	9

* DL denotes the Form I qualifier supplied by the laboratory
QL denotes the qualifier used by the data validation firm
+ in the DL column denotes a positive result
- in the DL column denotes a non detect result

DATA ASSESSMENT NARRATIVE

ORGANOCHLORINE PESTICIDES AND PCBS - METHOD 8080

General

The organic findings offered in this screening report assumes that all analytical results are correct as reported and is based upon the examination of the reported holding times, GC instrument performance, initial and continuing calibrations, analytical sequence, blank analysis results, surrogate recoveries, and MS/MSD results. All comments made within this report should be considered when examining the analytical results (Form Is). Please refer the specific findings found in each category to the Summary of Data Qualification table.

LABORATORY NUMBER: 20866

Contractual Non-Compliance

The laboratory did not provide a CLP Form 9 or equivalent summary of retention time information as required under the NEESA QA Requirements (*NEESA 20.2-047B, June 1988, page 61, Table 7.6*) for Level C Deliverables for the Pesticide/PCB data. No qualification of the reported data was made based on this deficiency.

One Appendix IX compound from this fraction, Kepone, was "Not Reported - due to poor recovery from spiking studies performed at the laboratory".

Holding Times

All extraction and analysis hold times were apparently met as indicated by the Chain-of-Custodies and Form 4s included in the package.

GC Instrument Performance

This GC analytical fraction was apparently analyzed utilizing internal standards, relative retention times and relative response factors. All percent breakdowns reported were within the required QC limits. No surrogate retention time information was available. Target compound resolution and potential internal standard or surrogate interferences could not be determined. No qualifications of the reported non-detect results were made based on instrument performance.

Initial Calibration

The single-component pesticides were analyzed using an initial five-point calibrations. Only the relative concentrations of the standards used for these calibrations were presented in the limited Level C data package. Thus, none of the reported CRQLs could be verified due to the lack of information regarding concentrations of the lowest

Initial Calibration (continued)

standards and final extract volumes for the samples. No information regarding the Aroclor initial calibrations was contained in the data package.

The initial calibration for the single-component pesticides were presented using non-linear quadratic model statistics. The non-CLP Appendix IX analytes were not presented for the confirmation column. The reviewer assumes the primary "hit" requiring confirmation was among these compounds. All quadratic correlations were acceptable. No qualification of the reported results were required based on the initial calibrations reported.

Continuing Calibrations

All %Ds for all continuing calibrations were within QC limits with only one exception. Delta-BHC was slightly above the 15% D QC limit in one continuing calibration. Although the difference was due to a decrease in response for this compound, none of the reported samples appear to be associated with this continuing calibration based on the file IDs. No qualifications were required based on the data presented.

Blanks

The reported Form I for the Method blank showed no confirmed positive results above the reported CRQLs. No qualifications were required.

Surrogate Recoveries

All reported sample surrogate recoveries were within the reported QC limits. Recovery limits for the surrogates appear to be those utilized by the USEPA CLP 2/88 SOW.

Matrix Spike/Matrix Spike Duplicate

The MS/MSD included in this data package exhibited extremely low recoveries for Methoxychlor, while all recoveries for the Blank Spike were within QC limits.

Specific Finding

1. The non-detect results reported for Methoxychlor in sample MPT-MW301 are rejected, "R", due to the extremely low recoveries in the MS/MSD.

Analyte Identification/Quantitation

All reported results for these samples are accepted without additional qualification based on the limited information contained in the NEESA Level C deliverables package.

QUALIFICATION CODES

U	=	Not detected
J	=	Reported result is quantitatively estimated
UJ	=	Reported quantitation limit is qualified as estimated
R	=	Result is rejected and unusable
N	=	Result is negated, do not consider result in sample
NJ	=	Presumptive evidence for the presence of the material at an estimated concentration

Validation specific findings are noted in numerical form on the Form Is in this data validation report. These specific finding footnotes reflect the conclusions found in the data validation process that resulted in the qualifications of the data.

SUMMARY OF GC DATA QUALIFICATIONS

SAMPLE ID	ANALYTE ID	DL	QL	SPECIFIC FINDINGS
MPT-MW301	Methoxychlor	U	R	1

* DL denotes the Form I qualifier/value supplied by the laboratory
QL denotes the qualifier/value used by Validator

+ in the DL column denotes a positive result
+ in the QL column denotes a reviewer revised result

HEARTLAND ENVIRONMENTAL
SERVICES, INC.

DATA ASSESSMENT NARRATIVE
Metals
and Wet Chemistry

General

The inorganic findings offered in this screening report assumes that all analytical results are correct as reported and is based upon the examination of the reported holding times, calibration standards, blank analysis results and MS/MSD results. A minimum of ten percent of all laboratory calculations. All comments made within this report should be considered when examining the analytical results (Form Is).

This data package consisted of results from **Mayport, SDG# 20866**, the analysis of five (5) field water sample and one Matrix Spike and Duplicate pair for TAL Metals and three (3) field water samples for Wet Chemistry analyses. Overall, the inorganic data quality was fair. Level C data validation reviews rely on the laboratory filling out the forms correctly. The All protocol requirements were followed.

Specific QA/QC deficiency Findings are listed numerically in the following categories:

Holding Times

The holding times were met as specified in Section 3 of the NEESA (20.2-047B) QA protocol.

Calibration

No deficiencies in this section.

Preparation and Field Blanks

1. The preparation blank exhibited contamination for the following elements.

Calcium	178.	ug/l
Copper	2.53	ug/l
Iron	19.94	ug/l
Manganese	0.44	ug/l
Nickel	7.3	ug/l
Sodium	776.	ug/l
Zinc	12.78	ug/l

The USEPA requires that all sample values below five times the preparation blank contamination be qualified as non-detect, "U".

Metals Data Assessment Narrative (continued - Page 2)

Interferences

No significant interferences were observed.

Spike Recovery

2. The Matrix Spike recoveries for Lead and Thallium were below the lower control limit. All positive and non-detect results are qualified as estimated, "J" or "UJ".

3. The Matrix Spike recovery for Selenium was below 30%. All non-detect results are rejected and all positive results are qualified as estimated, "J".

Duplicate

No deficiencies in this section.

LCS

No deficiencies in this section.

Serial Dilution

No deficiencies in this section.

MSA

4. The following samples exhibited poor recoveries during the Analytical spiking for GFAA. All positive and non-detect results are qualified as estimated, "J" or "UJ".

Analyte	Sample Numbers
Arsenic	MPT2-MW301
Lead	MPT2-MW301
Thallium	MPT2-MW301

Wet Chemistry

The samples were reviewed for holding times, detection limit and LCSs.

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SUMMARY OF DATA QUALIFICATIONS

SAMPLE ID	ANALYTE	DL	QL	SPECIFIC FINDING
All water samples	Ca, Cu, Fe, Mn, Ni, Na and Zn.	+	U	1
All water samples	Pb and Tl	+/U	J/UJ	2
All water samples	Se	U +	R J	3
MPT2-MW301 MPT2-MW301 MPT2-MW301	As Pb Tl	+/U	J/UJ	4
All water samples	The Wet Chemistry will stands as reported without qualification.			

DL - denotes laboratory qualifier/reported value
+ denotes positive values
U denotes non-detect values

QL - denotes data validation qualifier

DATA ASSESSMENT NARRATIVE

ORGANOCHLORINE PESTICIDES AND PCBS - METHOD 8080

General

The organic findings offered in this screening report assumes that all analytical results are correct as reported and is based upon the examination of the reported holding times, GC instrument performance, initial and continuing calibrations, analytical sequence, blank analysis results, surrogate recoveries, and MS/MSD results. All comments made within this report should be considered when examining the analytical results (Form Is). Please refer the specific findings found in each category to the Summary of Data Qualification table.

LABORATORY NUMBER: 20931

Contractual Non-Compliance

The laboratory did not provide a CLP Form 9 or equivalent summary of retention time information as required under the NEESA QA Requirements (*NEESA 20.2-047B, June 1988, page 61, Table 7.6*) for Level C Deliverables for the Pesticide/PCB data. No qualification of the reported data was made based on this deficiency.

One Appendix IX compound from this fraction, Kepone, was "Not Reported - due to poor recovery from spiking studies performed at the laboratory".

Holding Times

All extraction and analysis hold times were apparently met as indicated by the Chain-of-Custodies and Form 4s included in the package.

GC Instrument Performance

This GC analytical fraction was apparently analyzed utilizing internal standards, relative retention times and relative response factors. All percent breakdowns reported were within the required QC limits. No surrogate retention time information was available. Target compound resolution and potential internal standard or surrogate interferences could not be determined. No qualifications of the reported non-detect results were made based on instrument performance.

Initial Calibration

The single-component pesticides were analyzed using an initial five-point calibrations. Only the relative concentrations of the standards used for these calibrations were presented in the limited Level C data package. Thus, none of the reported CRQLs could be verified due to the lack of information regarding concentrations of the lowest standards and final extract volumes for the samples. No information regarding the Aroclor initial calibrations was contained in the data package.

The initial calibration for the single-component pesticides were presented using non-linear quadratic model statistics. The correlations were acceptable. No qualification of the reported results were required based on the initial calibrations reported.

Continuing Calibrations

All %Ds for all continuing calibrations were within QC limits with only one exception. Delta-BHC was slightly above the 15% D QC limit in one continuing calibration. Although the difference was due to a decrease in response for this compound, neither of the reported samples appear to be associated with this continuing calibration based on the file IDs. No qualifications were required based on the data presented.

Blanks

The reported Form I for the Method blank showed no confirmed positive results above the reported CRQLs. No qualifications were required.

Surrogate Recoveries

All reported sample surrogate recoveries were within the reported QC limits. Recovery limits for the surrogates appear to generated by laboratory control charting procedures.

Matrix Spike/Matrix Spike Duplicate

No MS/MSD was included in this data package. All Recoveries for the Blank Spike included for the water matrix were within QC limits. No qualifications were required.

Analyte Identification/Quantitation

All reported results for these samples are accepted without additional qualification based on the limited information contained in the NEESA Level C deliverables package.

QUALIFICATION CODES

U	=	Not detected
J	=	Reported result is quantitatively estimated
UJ	=	Reported quantitation limit is qualified as estimated
R	=	Result is rejected and unusable
N	=	Result is negated, do not consider result in sample
NJ	=	Presumptive evidence for the presence of the material at an estimated concentration

Validation specific findings are noted in numerical form on the Form Is in this data validation report. These specific finding footnotes reflect the conclusions found in the data validation process that resulted in the qualifications of the data.

SUMMARY OF GC DATA QUALIFICATIONS

SAMPLE ID	ANALYTE ID	DL	QL	SPECIFIC FINDINGS
No specific findings were identified which resulted in the qualification of any of the reported non-detect sample results.				

* DL denotes the Form I qualifier/value supplied by the laboratory
QL denotes the qualifier/value used by Validator

+ in the DL column denotes a positive result
+ in the QL column denotes a reviewer revised result

DATA ASSESSMENT NARRATIVE
Metals
and Wet Chemistry

General

The inorganic findings offered in this screening report assumes that all analytical results are correct as reported and is based upon the examination of the reported holding times, calibration standards, blank analysis results and MS/MSD results. A minimum of ten percent of all laboratory calculations. All comments made within this report should be considered when examining the analytical results (Form Is).

This data package consisted of results from **Mayport, SDG# 20931**, the analysis of two (2) field water sample and one Matrix Spike and Duplicate pair for TAL Metals and one (1) field water samples for Wet Chemistry analyses. Overall, the inorganic data quality was fair. Level C data validation reviews rely on the laboratory filling out the forms correctly. The All protocol requirements were followed.

Specific QA/QC deficiency Findings are listed numerically in the following categories:

Holding Times

The holding times were met as specified in Section 3 of the NEESA (20.2-047B) QA protocol.

Calibration

No deficiencies in this section.

Preparation and Field Blanks

1. The preparation blank exhibited contamination for the following elements.

   Silver 2.3 ug/l

   The USEPA requires that all sample values below five times the preparation blank contamination be qualified as non-detect, "U".

Interferences

No significant interferences were observed.

Metals Data Assessment Narrative (continued - Page 2)

Spike Recovery

No deficiencies in this section.

Duplicate

No deficiencies in this section.

LCS

No deficiencies in this section.

Serial Dilution

No deficiencies in this section.

MSA

2. The following samples exhibited poor recoveries during the Analytical spiking for GFAA. All positive and non-detect results are qualified as estimated, "J" or "UJ".

Analyte	Sample Numbers
Lead	MW-16DD-01
Selenium	MW-16DD-01

Wet Chemistry

The samples were reviewed for holding times, detection limit and LCSs.

HEARTLAND ENVIRONMENTAL
SERVICES, INC.

SUMMARY OF DATA QUALIFICATIONS

SAMPLE ID	ANALYTE	DL	QL	SPECIFIC FINDING
All water samples	Ag	+	U	1
MW-16DD-01	Pb	+/U	J/UJ	2
MW-16DD-01	Se			

All water samples The Wet Chemistry will stands as reported without qualification.

DL - denotes laboratory qualifier/reported value
+ denotes positive values
U denotes non-detect values

QL - denotes data validation qualifier

DATA ASSESSMENT NARRATIVE

SEMIVOLATILE ORGANICS

General

The organic findings offered in this screening report assumes that all analytical results are correct as reported and is based upon the examination of the reported holding times, blank analysis results, surrogate and matrix spike recoveries, GC/MS performance, tuning results, calibration results and internal standard areas. This report was prepared in compliance relative to the analytical and deliverable requirements specified in the U.S. EPA CLP, 2/88 SOW; the National Functional Guidelines for Organic Data Review, and NEESA Level C and D. All comments made within this report should be considered when examining the analytical results (Form I's).

Case # 21018

System Performance and Overall Assessment

The overall system performance was fair. The laboratory deviated from the methodology in the analyses of this SDG, which resulted in qualification of the data. In addition, it must be noted that a NEESA Level C data package does not provide the data validator with all of the necessary supporting documentation to investigate the data thoroughly for errors.

Contractual Non Compliance

Heartland ESI observed several instances of non compliance throughout the data package.

* The laboratory analyzed eighteen (18) **(See Attachment A)** of the forty-three (43) Appendix IX compounds in a one point continuing calibration mixture analyzed each day before analysis. These eighteen (18) compounds did not have an initial calibration associated with this analysis.

* The CRQLs reported by the laboratory for the twelve (12) compounds reflect an initial calibration, not the continuing calibration that was analyzed. Additional information was required to support the CRQLS reported by the laboratory due the lack of an initial calibration. The laboratory provided Heartland ESI with a MDL study performed for these compounds, dated June 5, 1991. The twelve (12) compounds are qualified at the reported CRQL as estimated (J/UJ).

Contractual Non Compliance (continued)

* The laboratory reported CRQLs for two (2) of the Appendix IX compounds **(see Attachment B)** which did not have an initial or continuing calibration associated with the analyses. All results for these two (2) compounds will be rejected.

* The laboratory used the blank qualifier flag (B) incorrectly for method blank contamination on the method blank Form 1s.

* The laboratory is reporting the wrong method blank ID on the form 4As.

Specific findings:

1. For all of the samples, qualifications are required for the laboratory reported CRQLs that could not be supported for the target compounds listed in Attachment A. Due to the MDL study for these compounds provided by the laboratory, Heartland ESI will accept these CRQLs with the qualification that all non detect results are estimated (UJ). In addition, all positive results for these compounds are qualified as estimated (J) due to the lack of an initial calibration.

2. For all of the samples, rejection is required for the two (2) compounds in Attachment B. The laboratory did not provide calibration data for these two (2) compounds. All results for these compounds are rejected (R).

Holding Times

All extraction and analysis holding times were met for all samples.

Tuning

All of the DFTPP tunes in the initial and continuing calibrations met the percent relative abundance criteria of the SOW and the Organic Functional Guidelines. No qualifications are required.

Initial Calibrations

The initial calibrations that were analyzed by the laboratory for these samples were acceptable for all compound %RSDs and RRFs. No qualifications are required.

Continuing Calibrations

The continuing calibration that was analyzed with this sample required qualifications for non compliant %Ds. All of the criteria and non criteria compounds met RRF requirements.

Specific Findings:

3. For the samples listed below, the continuing calibration, ASBA013222, contained the following compounds with %Ds greater than 25%. Qualify all positive results for these compounds as estimated (J).

SBLKW	2-methylphenol
MPT2QS1	2,4-dinitrophenol
	4-nitrophenol
	bis(2-ethylhexyl)phthalate
	methyl methanesulfonate
	benzidine
	2,3,4,6-tetrachlorophenol

Internal Standards

All of the blank and sample internal standard EICP areas met the EICP internal standard area QA/QC criteria. No qualifications are required.

Method Blanks

The method blanks that were analyzed did not exhibit contamination for TCLs or TICs. No qualifications are required.

Surrogates

All of the surrogate recoveries were within QA/QC criteria. Qualifications are not required.

Matrix Spike/Matrix Spike Duplicate

No MS/MSD was analyzed with this SDG.

Blank Spike/Blank Spike Duplicate

No BS/BSDs were associated with this SDG.

Compound Identification/Quantitation

No qualifications are required.

ATTACHMENT A

Appendix IX Compounds Associated with only a Continuing Calibration

Compound Name

N-Nitrosodiethylamine
N-Nitrosopyrrolidine
N-Nitrosomethylethylamine
N-Nitrosomorpholine
o-Toluidine
Hexachloropropene
p-Phenyleneamine
Safrole
Isosafrole
1,4-Napthoquinone
1,3-Dinitrobenzene
5-Nitro-o-toluidine
1,3,5-Trinitrobenzene
4-Nitroquinoline-1-oxide
Methapyrilene
3,3′-Dimethylbenzidine
2-Acetamidofluorene
Hexachlorophene

ATTACHMENT B

Appendix IX Compounds Associated with No Calibrations

Compound Name
Phenyl-tert-butylamine
Diphenylamine

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* All compounds are rejected due to missing initial and continuing calibrations.

GLOSSARY OF DATA QUALIFIERS

QUALIFICATION CODES

U = Not detected

J = Estimated value

UJ = Reported quantitation limit is qualified as estimated

R = Result is rejected and unusable

NJ = Presumptive evidence for the presence of the material at an estimated value

K = Result is biased high

L = Result is biased low

METHOD BLANK QUALIFICATION CODES

CRQL = The sample result for the blank contaminant is less than the sample CRQL and is less than 10X the method blank value. The sample result for the blank contaminant is rejected and the CRQL for that analyte is reported.

U = The sample result for the blank contaminant is greater than the sample CRQL and is less than 10X the method blank value. The sample result for the blank contaminant is qualified as non detected at the analyte value reported.

No Action = The sample result for the blank contaminant is greater than the sample CRQL and is greater than 10X the method blank value. The sample result for the blank contaminant is not qualified with any blank qualifiers.

The specific findings will be noted in numerical form on the Form Is in this data validation report. These specific finding footnotes will reflect the conclusions found in the data validation process that resulted in the qualification of the data.

SUMMARY OF DATA QUALIFICATIONS

SAMPLE ID	ANALYTE ID	DL	QL	SPECIFIC FINDINGS
All samples	Attachment A	+/-	J/UJ	1
All samples	Attachment B	+/-	R	2
SBLKW MPT2QS1	2-methylphenol 2,4-dinitrophenol 4-nitrophenol bis(2-ethylhexyl)phthalate methyl methanesulfonate benzidine 2,3,4,6-tetrachlorophenol	+	J	3

* DL denotes the Form I qualifier supplied by the laboratory
QL denotes the qualifier used by the data validation firm
+ in the DL column denotes a positive result
- in the DL column denotes a non detect result

DATA ASSESSMENT NARRATIVE

PCBs ONLY - METHOD 8080

General

The organic findings offered in this screening report assumes that all analytical results are correct as reported and is based upon the examination of the reported holding times, GC instrument performance, initial and continuing calibrations, analytical sequence, blank analysis results, surrogate recoveries, and MS/MSD results. All comments made within this report should be considered when examining the analytical results (Form Is). Please refer the specific findings found in each category to the Summary of Data Qualification table.

LABORATORY NUMBER: 21018

Contractual Non-Compliance

The laboratory did not provide a CLP Form 9 or equivalent summary of retention time information as required under the NEESA QA Requirements (*NEESA 20.2-047B, June 1988, page 61, Table 7.6*) for Level C Deliverables for the Pesticide/PCB data. No qualification of the reported data was made based on this deficiency.

Specific Finding

1. The laboratory performed only a single-point initial calibration for the target PCBs (Aroclors). Although this is the routine USEPA CLP procedure, the reviewer believes "PCB only" analysis requires adherence to the SW846 Method 8080 requirements for a five-point initial calibration. In addition, no continuing calibrations for the target or reported Aroclors were reported. For these reasons, the reviewer has chosen to qualify all reported positive Aroclor results as quantitatively estimated, "J".

Holding Times

All extraction and analysis hold times were apparently met as indicated by the Chain-of-Custodies and Form 4s included in the package.

GC Instrument Performance

This GC analytical fraction was apparently analyzed utilizing internal standards, relative retention times and relative response factors. All percent breakdowns reported were within the required QC limits, although this breakdown information is not required for PCB only analysis. No surrogate retention time information was available. No qualifications were made based on instrument performance.

Initial Calibration

The calibrations for the single-component pesticides were presented using an initial five-point calibrations. No information regarding PCB calibrations were present in any of the PCB only packages. The reviewer requested that run logs be submitted to assure that the laboratory analyzed at least a single concentration Aroclor standard. These run logs were subsequently received by the validator and reviewed to confirm the single-point initial calibration procedures. All reported positive results are quantitatively qualified based on this single-point initial calibration as described previously.

Continuing Calibrations

No continuing calibrations were reported for the target Aroclor compounds. All reported positive results for the reported PCBs were qualified based on the lack of continuing calibrations for the Aroclors.

Blanks

The reported Form I for the Method blank showed no confirmed positive results above the reported CRQLs. No qualifications were required.

Surrogate Recoveries

All reported sample surrogate recoveries were within the reported QC limits, with the exception of those samples in which DBC was diluted-out for the quantitation of the reported Aroclor. Recovery limits for the surrogates appear to generated by laboratory control charting procedures. No qualifications were required.

Matrix Spike/Matrix Spike Duplicate

No MS/MSD was included in this data package. All Recoveries for the Blank Spike included for the soil matrix were within QC limits. No qualifications were required.

Analyte Identification/Quantitation

The method of Aroclor quantitation could not be determined from the information presented in this package. The laboratory is reminded that sample dilutions greater than 1:10 should be accompanied by analysis at lesser dilutions to ensure the lowest possible reporting limits for the non-reported target analytes. All reported results for these samples are accepted without additional qualification based on the limited information contained in the NEESA Level C deliverables package.

QUALIFICATION CODES

U	=	Not detected
J	=	Reported result is quantitatively estimated
UJ	=	Reported quantitation limit is qualified as estimated
R	=	Result is rejected and unusable
N	=	Result is negated, do not consider result in sample
NJ	=	Presumptive evidence for the presence of the material at an estimated concentration

Validation specific findings are noted in numerical form on the Form Is in this data validation report. These specific finding footnotes reflect the conclusions found in the data validation process that resulted in the qualifications of the data.

SUMMARY OF GC DATA QUALIFICATIONS

SAMPLE ID	ANALYTE ID	DL	QL	SPECIFIC FINDINGS
All	All	+	J	1

* DL denotes the Form I qualifier/value supplied by the laboratory
QL denotes the qualifier/value used by Validator

+ in the DL column denotes a positive result
+ in the QL column denotes a reviewer revised result

HEARTLAND ENVIRONMENTAL
SERVICES, INC.

DATA ASSESSMENT NARRATIVE
Metals
and Wet Chemistry

General

The inorganic findings offered in this screening report assumes that all analytical results are correct as reported and is based upon the examination of the reported holding times, calibration standards, blank analysis results and MS/MSD results. A minimum of ten percent of all laboratory calculations. All comments made within this report should be considered when examining the analytical results (Form Is).

This data package consisted of results from **Mayport, SDG# 21018,** the analysis of one (1) field water sample and no Matrix Spike and Duplicate pair for TAL Metals. Overall, the inorganic data quality was fair. Level C data validation reviews rely on the laboratory filling out the forms correctly. The All protocol requirements were followed.

Specific QA/QC deficiency Findings are listed numerically in the following categories:

Holding Times

The holding times were met as specified in Section 3 of the NEESA (20.2-047B) QA protocol.

Calibration

No deficiencies in this section.

Preparation and Field Blanks

1. The preparation blank exhibited contamination for the following elements.

Arsenic	0.69	ug/l
Barium	0.87	ug/l
Chromium	2.90	ug/l
Copper	19.54	ug/l
Nickel	5.13	ug/l
Zinc	13.65	ug/l

The USEPA requires that all sample values below five times the preparation blank contamination be qualified as non-detect, "U".

Metals Data Assessment Narrative (continued - Page 2)

Interferences

No significant interferences were observed.

Spike Recovery

2. The Laboratory used a sample from a different site for the Quality Assurance. Therefore all positive and non-detect results are qualified as estimated, "J" or "UJ".

Duplicate

3. The Laboratory used a sample from a different site for the Quality Assurance. Therefore all positive and non-detect results are qualified as estimated, "J" or "UJ".

LCS

No deficiencies in this section.

Serial Dilution

No deficiencies in this section.

MSA

No deficiencies in this section.

HEARTLAND ENVIRONMENTAL
SERVICES, INC.

SUMMARY OF DATA QUALIFICATIONS

SAMPLE ID	ANALYTE	DL	QL	SPECIFIC FINDING
All water samples	As, Ba, Cr, Cu, Ni, Zn.	+	U	1
All water samples	All analytes	+/U	J/UJ	2
All water samples	All analytes	+/U	J/UJ	3

DL - denotes laboratory qualifier/reported value
+ denotes positive values
U denotes non-detect values

QL - denotes data validation qualifier

DATA ASSESSMENT NARRATIVE

PCBs ONLY - METHOD 8080

General

The organic findings offered in this screening report assumes that all analytical results are correct as reported and is based upon the examination of the reported holding times, GC instrument performance, initial and continuing calibrations, analytical sequence, blank analysis results, surrogate recoveries, and MS/MSD results. All comments made within this report should be considered when examining the analytical results (Form Is). Please refer the specific findings found in each category to the Summary of Data Qualification table.

LABORATORY NUMBER: 21029

Contractual Non-Compliance

The laboratory did not provide a CLP Form 9 or equivalent summary of retention time information as required under the NEESA QA Requirements (*NEESA 20.2-047B, June 1988, page 61, Table 7.6*) for Level C Deliverables for the Pesticide/PCB data. No qualification of the reported data was made based on this deficiency.

Specific Finding

1. The laboratory performed only a single-point initial calibration for the target PCBs (Aroclors). Although this is the routine USEPA CLP procedure, the reviewer believes "PCB only" analysis requires adherence to the SW846 Method 8080 requirements for a five-point initial calibration. In addition, no continuing calibrations for the target or reported Aroclors were reported. For these reasons, the reviewer has chosen to qualify all reported positive Aroclor results as quantitatively estimated, "J".

Holding Times

All extraction and analysis hold times were apparently met as indicated by the Chain-of-Custodies and Form 4s included in the package.

GC Instrument Performance

This GC analytical fraction was apparently analyzed utilizing internal standards, relative retention times and relative response factors. All percent breakdowns reported were within the required QC limits, although this breakdown information is not required for PCB only analysis. No surrogate retention time information was available. No qualifications were made based on instrument performance.

Initial Calibration

The calibrations for the single-component pesticides were presented using an initial five-point calibrations. No information regarding PCB calibrations were present in any of the PCB only packages. The reviewer requested that run logs be submitted to assure that the laboratory analyzed at least a single concentration Aroclor standard. These run logs were subsequently received by the validator and reviewed to confirm the single-point initial calibration procedures. All reported positive results are quantitatively qualified based on this single-point initial calibration as described previously.

Continuing Calibrations

No continuing calibrations were reported for the target Aroclor compounds. All reported positive results for the reported PCBs were qualified based on the lack of continuing calibrations for the Aroclors.

Blanks

The reported Form I for the Method blank showed no confirmed positive results above the reported CRQLs. No qualifications were required.

Surrogate Recoveries

All reported sample surrogate recoveries were within the reported QC limits, with the exception of those samples in which DBC was diluted-out for the quantitation of the reported Aroclor. Recovery limits for the surrogates appear to generated by laboratory control charting procedures. No qualifications were required.

Matrix Spike/Matrix Spike Duplicate

No Recoveries were obtained for the MS/MSD was included in this data package due to the presence of the spike compound, AR1260, in high concentration in the unspiked sample. All Recoveries for the Blank Spike included for the soil matrix were within QC limits. No qualifications were required.

Analyte Identification/Quantitation

The method of Aroclor quantitation could not be determined from the information presented in this package. The laboratory is reminded that sample dilutions greater than 1:10 should be accompanied by analysis at lesser dilutions to ensure the lowest possible reporting limits for the non-reported target analytes. All reported results for these samples are accepted without additional qualification based on the limited information contained in the NEESA Level C deliverables package.

QUALIFICATION CODES

U	=	Not detected
J	=	Reported result is quantitatively estimated
UJ	=	Reported quantitation limit is qualified as estimated
R	=	Result is rejected and unusable
N	=	Result is negated, do not consider result in sample
NJ	=	Presumptive evidence for the presence of the material at an estimated concentration

Validation specific findings are noted in numerical form on the Form Is in this data validation report. These specific finding footnotes reflect the conclusions found in the data validation process that resulted in the qualifications of the data.

SUMMARY OF GC DATA QUALIFICATIONS

SAMPLE ID	ANALYTE ID	DL	QL	SPECIFIC FINDINGS
All	All	+	J	1

* DL denotes the Form I qualifier/value supplied by the laboratory
QL denotes the qualifier/value used by Validator

+ in the DL column denotes a positive result
+ in the QL column denotes a reviewer revised result

DATA ASSESSMENT NARRATIVE

PCBs ONLY - METHOD 8080

General

The organic findings offered in this screening report assumes that all analytical results are correct as reported and is based upon the examination of the reported holding times, GC instrument performance, initial and continuing calibrations, analytical sequence, blank analysis results, surrogate recoveries, and MS/MSD results. All comments made within this report should be considered when examining the analytical results (Form Is). Please refer the specific findings found in each category to the Summary of Data Qualification table.

LABORATORY NUMBER: 21042

Contractual Non-Compliance

The laboratory did not provide a CLP Form 9 or equivalent summary of retention time information as required under the NEESA QA Requirements (*NEESA 20.2-047B, June 1988, page 61, Table 7.6*) for Level C Deliverables for the Pesticide/PCB data. No qualification of the reported data was made based on this deficiency.

Specific Finding

1. The laboratory performed only a single-point initial calibration for the target PCBs (Aroclors). Although this is the routine USEPA CLP procedure, the reviewer believes "PCB only" analysis requires adherence to the SW846 Method 8080 requirements for a five-point initial calibration. In addition, no continuing calibrations for the target or reported Aroclors were reported. For these reasons, the reviewer has chosen to qualify all reported positive Aroclor results as quantitatively estimated, "J".

Holding Times

All extraction and analysis hold times were apparently met as indicated by the Chain-of-Custodies and Form 4s included in the package.

GC Instrument Performance

This GC analytical fraction was apparently analyzed utilizing internal standards, relative retention times and relative response factors. All percent breakdowns reported were within the required QC limits, although this breakdown information is not required for PCB only analysis. No surrogate retention time information was available. No qualifications were made based on instrument performance.

Initial Calibration

The calibrations for the single-component pesticides were presented using an initial five-point calibrations. No information regarding PCB calibrations were present in any of the PCB only packages. The reviewer requested that run logs be submitted to assure that the laboratory analyzed at least a single concentration Aroclor standard. These run logs were subsequently received by the validator and reviewed to confirm the single-point initial calibration procedures. All reported positive results are quantitatively qualified based on this single-point initial calibration as described previously.

Continuing Calibrations

No continuing calibrations were reported for the target Aroclor compounds. All reported positive results for the reported PCBs were qualified based on the lack of continuing calibrations for the Aroclors.

Blanks

The reported Form I for the Method blank showed no confirmed positive results above the reported CRQLs. No qualifications were required.

Surrogate Recoveries

All reported sample surrogate recoveries were within the reported QC limits, with the exception of those samples in which DBC was diluted-out for the quantitation of the reported Aroclor. Recovery limits for the surrogates appear to generated by laboratory control charting procedures. No qualifications were required.

Matrix Spike/Matrix Spike Duplicate

No MS/MSD was included in this data package. All Recoveries for the Blank Spike included for the soil matrix were within QC limits. No qualifications were required.

Analyte Identification/Quantitation

The method of Aroclor quantitation could not be determined from the information presented in this package. The laboratory is reminded that sample dilutions greater than 1:10 should be accompanied by analysis at lesser dilutions to ensure the lowest possible reporting limits for the non-reported target analytes. All reported results for these samples are accepted without additional qualification based on the limited information contained in the NEESA Level C deliverables package.

QUALIFICATION CODES

U	=	Not detected
J	=	Reported result is quantitatively estimated
UJ	=	Reported quantitation limit is qualified as estimated
R	=	Result is rejected and unusable
N	=	Result is negated, do not consider result in sample
NJ	=	Presumptive evidence for the presence of the material at an estimated concentration

Validation specific findings are noted in numerical form on the Form Is in this data validation report. These specific finding footnotes reflect the conclusions found in the data validation process that resulted in the qualifications of the data.

SUMMARY OF GC DATA QUALIFICATIONS

SAMPLE ID	ANALYTE ID	DL	QL	SPECIFIC FINDINGS
All	All	+	J	1

* DL denotes the Form I qualifier/value supplied by the laboratory
QL denotes the qualifier/value used by Validator

+ in the DL column denotes a positive result
+ in the QL column denotes a reviewer revised result

DATA ASSESSMENT NARRATIVE

SEMIVOLATILE ORGANICS

General

The organic findings offered in this screening report assumes that all analytical results are correct as reported and is based upon the examination of the reported holding times, blank analysis results, surrogate and matrix spike recoveries, GC/MS performance, tuning results, calibration results and internal standard areas. This report was prepared in compliance relative to the analytical and deliverable requirements specified in the U.S. EPA CLP, 2/88 SOW; the National Functional Guidelines for Organic Data Review, and NEESA Level C and D. All comments made within this report should be considered when examining the analytical results (Form I's).

Case # 21060

System Performance and Overall Assessment

The overall system performance was poor. The continuing calibration supplied by the laboratory for this SDG contained many non compliant compounds. In addition, the laboratory deviated from the methodology in the analyses of this SDG, which resulted in qualification of the data. In addition, it must be noted that a NEESA Level C data package does not provide the data validator with all of the necessary supporting documentation to investigate the data thoroughly for errors.

Contractual Non Compliance

Heartland ESI observed several instances of non compliance throughout the data package.

* The laboratory analyzed eighteen (18) (See **Attachment A**) of the forty-three (43) Appendix IX compounds in a one point continuing calibration mixture analyzed each day before analysis. These eighteen (18) compounds did not have an initial calibration associated with this analysis.

* The CRQLs reported by the laboratory for the twelve (12) compounds reflect an initial calibration, not the continuing calibration that was analyzed. Additional information was required to support the CRQLS reported by the laboratory due the lack of an initial calibration. The laboratory provided Heartland ESI with a MDL study performed for these compounds, dated June 5, 1991. The twelve (12) compounds are qualified at the reported CRQL as estimated (J/UJ).

Contractual Non Compliance (continued)

* The laboratory reported CRQLs for two (2) of the Appendix IX compounds (see **Attachment B)** which did not have an initial or continuing calibration associated with the analyses. All results for these two (2) compounds will be rejected.

* The laboratory used the blank qualifier flag (B) incorrectly for method blank contamination on the method blank Form 1s.

* The laboratory is reporting the wrong method blank ID on the form 4As.

Specific findings:

1. For all of the samples, qualifications are required for the laboratory reported CRQLs that could not be supported for the target compounds listed in Attachment A. Due to the MDL study for these compounds provided by the laboratory, Heartland ESI will accept these CRQLs with the qualification that all non detect results are estimated (UJ). In addition, all positive results for these compounds are qualified as estimated (J) due to the lack of an initial calibration.

2. For all of the samples, rejection is required for the two (2) compounds in Attachment B. The laboratory did not provide calibration data for these two (2) compounds. All results for these compounds are rejected (R).

Holding Times

All extraction and analysis holding times were met for all samples.

Tuning

All of the DFTPP tunes in the initial and continuing calibrations met the percent relative abundance criteria of the SOW and the Organic Functional Guidelines. No qualifications are required.

Initial Calibrations

The initial calibrations that were analyzed by the laboratory for these samples were acceptable for all compound RRFs. Benzidine, 1-naphthylamine, 2-naphthylamine, and 4-aminobiphenyl exceeded 30%RSD. No qualifications are required since samples were not analyzed after the initial calibration.

Continuing Calibrations

The continuing calibration that was analyzed with this sample required qualifications for non compliant %Ds. All of the criteria and non criteria compounds met RRF requirements.

Specific Findings:

3. For the samples listed below, the continuing calibration, DSBA010164, contained the following compounds with %Ds greater than 25%. Qualify all positive results for these compounds as estimated (J).

SBLKW	1-naphthylamine
MPT2FB2	2,3,4,6-tetrachlorophenol
	pentachloronitrobenzene
	p-dimethylaminoazobenzene
	bis(2-chloroethyl)ether
	1,2-dichlorobenzene
	1,3-dichlorobenzene
	2-methylphenol
	4-methylphenol
	isophorone
	bis(2-chloroethoxy)methane
	2,6-dinitrotoluene
	2,4-dinitrotoluene
	hexachlorobenzene
	phenol-d_5
	3-nitroaniline
	2,4-dinitrophenol
	butylbenzylphthalate
	bis(2-ethylhexyl)phthalate
	benzyl alcohol

Continuing Calibrations (continued)

4. For the samples listed below, the continuing calibration, DSBA010164, contained the following compounds with %Ds greater than 50%, but less than 90%. Qualify all positive results for these compounds as estimated (J) and all non detect results as estimated (UJ).

SBLKW	N-nitroso-di-
MPT2FB2	n-propylamine
	hexachloroethane
	ethyl methanesulfonate

5. For the samples listed below, the continuing calibration, DSBA010164, contained the following compounds with %Ds greater than 90%. Qualify all positive results for these compounds as estimated (J) and reject (R) all non detect results.

SBLKW	bis(2-chloroiso-
MPT2FB2	propyl)ether
	4-nitroaniline

Internal Standards

All of the blank and sample internal standard EICP areas met the EICP internal standard area QA/QC criteria. No qualifications are required.

Method Blanks

The method blank that was analyzed exhibited contamination for bis(2-ethylhexyl)-phthalate. The method blank results will be compared to their associated samples. Refer to the glossary of data qualifiers for a list and definition of the method blank qualifiers: CRQL, U and No Action.

Specific findings:

6. The following sample has been qualified for method blank contamination.

<u>bis(2-ethylhexyl)phthalate - CRQL</u>

MPT2FB2

Surrogates

All of the surrogate recoveries, with the exception of one (1), were within QA/QC criteria. This non compliant recovery was above the QA/QC limits, so qualifications are not required.

Matrix Spike/Matrix Spike Duplicate

No MS/MSD was analyzed with this SDG.

Blank Spike/Blank Spike Duplicate

No BS/BSDs were associated with this SDG.

Compound Identification/Quantitation

No qualifications are required.

ATTACHMENT A

Appendix IX Compounds Associated with only a Continuing Calibration

Compound Name
N-Nitrosodiethylamine
N-Nitrosopyrrolidine
N-Nitrosomethylethylamine
N-Nitrosomorpholine
o-Toluidine
Hexachloropropene
p-Phenyleneamine
Safrole
Isosafrole
1,4-Napthoquinone
1,3-Dinitrobenzene
5-Nitro-o-toluidine
1,3,5-Trinitrobenzene
4-Nitroquinoline-1-oxide
Methapyrilene
3,3'-Dimethylbenzidine
2-Acetamidofluorene
Hexachlorophene

ATTACHMENT B

Appendix IX Compounds Associated with No Calibrations

Compound Name
Phenyl-tert-butylamine
Diphenylamine

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* All compounds are rejected due to missing initial and continuing calibrations.

GLOSSARY OF DATA QUALIFIERS

QUALIFICATION CODES

U = Not detected

J = Estimated value

UJ = Reported quantitation limit is qualified as estimated

R = Result is rejected and unusable

NJ = Presumptive evidence for the presence of the material at an estimated value

K = Result is biased high

L = Result is biased low

METHOD BLANK QUALIFICATION CODES

CRQL = The sample result for the blank contaminant is less than the sample CRQL and is less than 10X the method blank value. The sample result for the blank contaminant is rejected and the CRQL for that analyte is reported.

U = The sample result for the blank contaminant is greater than the sample CRQL and is less than 10X the method blank value. The sample result for the blank contaminant is qualified as non detected at the analyte value reported.

No Action = The sample result for the blank contaminant is greater than the sample CRQL and is greater than 10X the method blank value. The sample result for the blank contaminant is not qualified with any blank qualifiers.

The specific findings will be noted in numerical form on the Form Is in this data validation report. These specific finding footnotes will reflect the conclusions found in the data validation process that resulted in the qualification of the data.

SUMMARY OF DATA QUALIFICATIONS

SAMPLE ID	ANALYTE ID	DL	QL	SPECIFIC FINDINGS
All samples	Attachment A	+/-	J/UJ	1
All samples	Attachment B	+/-	R	2
SBLKW MPT2FB2	1-naphthylamine 2,3,4,6-tetrachlorophenol pentachloronitrobenzene p-dimethylaminoazobenzene bis(2-chloroethyl)ether 1,2-dichlorobenzene 1,3-dichlorobenzene 2-methylphenol 4-methylphenol isophorone bis(2-chloroethoxy)methane 2,6-dinitrotoluene 2,4-dinitrotoluene hexachlorobenzene 3-nitroaniline 2,4-dinitrophenol butylbenzylphthalate bis(2-ethylhexyl)phthalate benzyl alcohol	+	J	3
SBLKW MPT2FB2	N-nitroso-di-n-propylamine hexachloroethane ethyl methanesulfonate	+/-	J/UJ	4
SBLKW MPT2FB2	bis(2-chloroisopropyl)ether 4-nitroaniline	+/-	J/R	5

* DL denotes the Form I qualifier supplied by the laboratory
QL denotes the qualifier used by the data validation firm
+ in the DL column denotes a positive result
- in the DL column denotes a non detect result

SUMMARY OF DATA QUALIFICATIONS

SAMPLE ID	ANALYTE ID	DL	QL	SPECIFIC FINDINGS
MPT2FB2	bis(2-ethyl-hexyl)phthalate	+BJ	CRQL 6	

* DL denotes the Form I qualifier supplied by the laboratory
QL denotes the qualifier used by the data validation firm
+ in the DL column denotes a positive result
- in the DL column denotes a non detect result

DATA ASSESSMENT NARRATIVE

PCBs ONLY - METHOD 8080

General

The organic findings offered in this screening report assumes that all analytical results are correct as reported and is based upon the examination of the reported holding times, GC instrument performance, initial and continuing calibrations, analytical sequence, blank analysis results, surrogate recoveries, and MS/MSD results. All comments made within this report should be considered when examining the analytical results (Form Is). Please refer the specific findings found in each category to the Summary of Data Qualification table.

LABORATORY NUMBER: 21060

Contractual Non-Compliance

The laboratory did not provide a CLP Form 9 or equivalent summary of retention time information as required under the NEESA QA Requirements (*NEESA 20.2-047B, June 1988, page 61, Table 7.6*) for Level C Deliverables for the Pesticide/PCB data. No qualification of the reported data was made based on this deficiency.

Specific Finding

1. The laboratory performed only a single-point initial calibration for the target PCBs (Aroclors). Although this is the routine USEPA CLP procedure, the reviewer believes "PCB only" analysis requires adherence to the SW846 Method 8080 requirements for a five-point initial calibration. In addition, no continuing calibrations for the target or reported Aroclors were reported. For these reasons, the reviewer has chosen to qualify all reported positive Aroclor results as quantitatively estimated, "J".

Holding Times

All extraction and analysis hold times were apparently met as indicated by the Chain-of-Custodies and Form 4s included in the package.

GC Instrument Performance

This GC analytical fraction was apparently analyzed utilizing internal standards, relative retention times and relative response factors. All percent breakdowns reported were within the required QC limits, although this breakdown information is not required for PCB only analysis. No surrogate retention time information was available. No qualifications were made based on instrument performance.

Initial Calibration

The calibrations for the single-component pesticides were presented using an initial five-point calibrations. No information regarding PCB calibrations were present in any of the PCB only packages. The reviewer requested that run logs be submitted to assure that the laboratory analyzed at least a single concentration Aroclor standard. These run logs were subsequently received by the validator and reviewed to confirm the single-point initial calibration procedures. All reported positive results are quantitatively qualified based on this single-point initial calibration as described previously.

Continuing Calibrations

No continuing calibrations were reported for the target Aroclor compounds. All reported positive results for the reported PCBs were qualified based on the lack of continuing calibrations for the Aroclors.

Blanks

The reported Form I for the Method blank showed no confirmed positive results above the reported CRQLs. No qualifications were required.

Surrogate Recoveries

All reported sample surrogate recoveries were within the reported QC limits, with the exception of those samples in which DBC was diluted-out for the quantitation of the reported Aroclor. Recovery limits for the surrogates appear to generated by laboratory control charting procedures. No qualifications were required.

Matrix Spike/Matrix Spike Duplicate

All Recoveries and RPDs obtained for the soil MS/MSD included in this data package were acceptable. All Recoveries for the Blank Spike included for the soil matrix were within QC limits. No qualifications were required.

Analyte Identification/Quantitation

The method of Aroclor quantitation could not be determined from the information presented in this package. The laboratory is reminded that sample dilutions greater than 1:10 should be accompanied by analysis at lesser dilutions to ensure the lowest possible reporting limits for the non-reported target analytes. All reported results for these samples are accepted without additional qualification based on the limited information contained in the NEESA Level C deliverables package.

QUALIFICATION CODES

U	=	Not detected
J	=	Reported result is quantitatively estimated
UJ	=	Reported quantitation limit is qualified as estimated
R	=	Result is rejected and unusable
N	=	Result is negated, do not consider result in sample
NJ	=	Presumptive evidence for the presence of the material at an estimated concentration

Validation specific findings are noted in numerical form on the Form Is in this data validation report. These specific finding footnotes reflect the conclusions found in the data validation process that resulted in the qualifications of the data.

SUMMARY OF GC DATA QUALIFICATIONS

SAMPLE ID	ANALYTE ID	DL	QL	SPECIFIC FINDINGS
All	All	+	J	1

* DL denotes the Form I qualifier/value supplied by the laboratory
QL denotes the qualifier/value used by Validator

+ in the DL column denotes a positive result
+ in the QL column denotes a reviewer revised result

HEARTLAND ENVIRONMENTAL
SERVICES, INC.

DATA ASSESSMENT NARRATIVE
Metals
and Wet Chemistry

General

The inorganic findings offered in this screening report assumes that all analytical results are correct as reported and is based upon the examination of the reported holding times, calibration standards, blank analysis results and MS/MSD results. A minimum of ten percent of all laboratory calculations. All comments made within this report should be considered when examining the analytical results (Form Is).

This data package consisted of results from **Mayport, SDG# 21060**, the analysis of one (1) field water sample and one Matrix Spike and Duplicate pair for TAL Metals. Overall, the inorganic data quality was fair. Level C data validation reviews rely on the laboratory filling out the forms correctly. The All protocol requirements were followed.

Specific QA/QC deficiency **Findings** are listed numerically in the following categories:

Holding Times

The holding times were met as specified in Section 3 of the NEESA (20.2-047B) QA protocol.

Calibration

No deficiencies in this section.

Preparation and Field Blanks

1. The preparation blank exhibited contamination for the following elements.

Barium	1.07	ug/l
Beryllium	0.19	ug/l
Calcium	193.	ug/l
Chromium	3.48	ug/l
Copper	7.71	ug/l
Lead	1.61	ug/l
Iron	37.96	ug/l
Manganese	1.2	ug/l
Sodium	1029.	ug/l
Zinc	8.55	ug/l

The USEPA requires that all sample values below five times the preparation blank contamination be qualified as non-detect, "U".

Metals Data Assessment Narrative (continued - Page 2)

Interferences

No significant interferences were observed.

Spike Recovery

No deficiencies in this section.

Duplicate

No deficiencies in this section.

LCS

No deficiencies in this section.

Serial Dilution

No deficiencies in this section.

MSA

2. The following samples exhibited poor recoveries during the Analytical spiking for GFAA. All positive and non-detect results are qualified as estimated, "J" or "UJ".

Analyte	Sample Numbers
Thallium	MPT2FB2.

HEARTLAND ENVIRONMENTAL
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SUMMARY OF DATA QUALIFICATIONS

SAMPLE ID	ANALYTE	DL	QL	SPECIFIC FINDING
All water samples	Ba, Be, Ca, Cr, Cu, Pb, Fe, Mn, Na and Zn.	+	U	1
MPT2FB2	Tl	+/U	J/UJ	2

DL - denotes laboratory qualifier/reported value
+ denotes positive values
U denotes non-detect values

QL - denotes data validation qualifier

DATA ASSESSMENT NARRATIVE

VOLATILE ORGANICS

The organic findings offered in this screening report assumes that all analytical results are correct as reported and is based upon the examination of the reported holding times, blank analysis results, surrogate and matrix spike recoveries, GC/MS performance, tuning results, calibration results and internal standard areas. This report was prepared in compliance relative to the analytical and deliverable requirements specified in the U.S. EPA CLP, 2/88 SOW; the National Functional Guidelines for Organic Data Review, and NEESA Level C and D. All comments made within this report should be considered when examining the analytical results (Form I's).

Case # 21171

System Performance and Overall Assessment

The overall system performance was fair. The laboratory deviated from the methodology in the analyses of the this SDG, which resulted in qualification of the data. In addition, it must be noted that a NEESA Level C data package does not provide the data validator with all of the necessary supporting documentation to investigate the data thoroughly for errors.

Contractual Non Compliance

Heartland ESI observed several instances of non compliance throughout the data package.

* The laboratory analyzed twelve (12) (see **Attachment A**) of the twenty-three (23) Appendix IX compounds in a one point continuing calibration mixture analyzed each day before analysis. These twelve (12) compounds did not have an initial calibration associated with this analysis.

* The CRQLs reported by the laboratory for the twelve (12) compounds reflect an initial calibration, not the continuing calibration that was analyzed. Additional information was required to support the CRQLS reported by the laboratory due the lack of an initial calibration. The laboratory provided Heartland ESI with a MDL study performed for these compounds, dated June 5, 1991. The twelve (12) compounds are qualified at the reported CRQL as estimated (J/UJ).

* The laboratory used the blank qualifier flag (B) incorrectly for method blank contamination on the method blank Form 1s.

Contractual Non Compliance (continued)

* The laboratory did not analyze separate calibrations for water and soil analyses **(E-13/VOA, 2.1.1).**

* The laboratory is reporting the wrong method blank ID on the form 4As.

Specific findings:

1. For all of the samples, qualifications are required for the laboratory reported CRQLs that could not be supported for the target compounds listed in Attachment A. Due to the MDL study for these compounds provided by the laboratory, Heartland ESI will accept these CRQLs with the qualification that all non detect results are estimated (UJ). In addition, all positive results for these compounds are qualified as estimated (J) due to the lack of an initial calibration.

Holding Times

All of the samples were analyzed within the contractual holding times for volatile analysis. No qualification are required.

Tuning

All of the BFB tunes in the initial and continuing calibrations met the percent relative abundance criteria of the SOW and the Organic Functional Guidelines. No qualifications are required.

Initial Calibrations

One (1) of the two (2) initial calibrations that was analyzed by the laboratory for these samples was not acceptable for all %RSDs. One compound, acetone, exhibited a %RSD greater than 30%. In addition, the initial calibrations did not meet RRF criteria for one compound, 1,4-dioxane, which exhibited a RRF less than 0.05. No qualifications are required since samples were not analyzed after the initial calibration.

Continuing Calibrations

Two (2) of the three (3) continuing calibrations that were analyzed with this data package required qualifications for non compliant %Ds. All of the calibrations require qualifications for non compliant RRFs.

Continuing Calibrations (continued)

Specific findings:

2. For the samples listed below, the continuing calibration, CSVO021087, contained the following compounds with %Ds greater than 25% D, but less than 50% D. Qualify all positive results for these compounds as estimated (J).

VBLKW_2	acetone
VBLKS_2	1,2-dichloroethane
MPTFB04	1,2-dichloroethane-d_4 (surrogate)
MPT22U2	
MPT22L2	
MPT22U3	
MPT22L3	
MPT22L4	

3. For the samples listed below, the continuing calibration, CSVO021109, contained the following compounds with %Ds greater than 25% D, but less than 50% D. Qualify all positive results for these compounds as estimated (J).

VBLKS_3	acetone
MPT22L2MS	chloromethane
MPT22L2MSD	

4. For all of the samples, the continuing calibrations contained the 1,4-dioxane with a RRF less than 0.05. Qualify all positive results for this compound as estimated (J) and reject (R) all non detect results.

Internal Standards

All of the internal standard EICP areas for the samples and the blanks were within QA/QC limits. No qualifications are required.

Method Blanks

The method blanks that were analyzed exhibited contamination for methylene chloride, chloroform, and/or acetone. The method blank results will be compared to their associated samples. Refer to the glossary of data qualifiers for a list and definition of the method blank qualifiers: CRQL, U and No Action.

Specific Findings:

5. The following samples have been qualified for blank contamination. Qualifications are for all method blanks.

   <u>methylene chloride - U</u>

   MPT22U1
   MPT22LI
   MPT22D1
   MPT22U4
   MPTFB04
   MPT22U2
   MPT22L2
   MPT22U3
   MPT22L3
   MPT22L4

   <u>acetone - CRQL</u>

   MPT22L2
   MPT22L4

   <u>acetone - U</u>

   MPTFB04
   MPT22U2
   MPT22U3
   MPT22L3

Method Blanks (Specific finding #5 continued)

<u>chloroform - CRQL</u>

MPTRB01
TRIP BLANK
MPT22U1
MPT22LI
MPT22D1
MPT22U4
MPT22U2
MPT22L2
MPT22U3
MPT22L3
MPT22L4

Trip Blanks

The trip blank analyzed with this SDG exhibited contamination for chloroform that was attributed to the method blank. In addition, the trip blank exhibited contamination for methylene chloride, acetone, and carbon disulfide. The trip blank results will be compared to their associated samples. Refer to the glossary of data qualifiers for a list and definition of the method blank/trip blank qualifiers: CRQL, U and No Action.

Specific findings:

6. The following samples have been qualified for trip blank contamination.

MPT22U1	acetone - U
MPT22LI	acetone - CRQL
MPT22L3	carbon - CRQL disulfide
MPT22U4	acetone - U
MPTRB01	methylene - U chloride
	acetone - U
	carbon disulfide - U

Rinseate/Field Blanks

The rinseate and field blank exhibited contamination that was attributed to the method blanks and trip blank. Chlorobenzene was also detected in the rinseate blank, but was not detected in any of the associated samples. No qualifications are required.

Surrogates

All of the surrogate recoveries were within QA/QC limits. No qualifications are required

Matrix Spike/Matrix Spike Duplicate (MS/MSD)

The two (2) MS/MSDs exhibited acceptable recoveries and RPDs. No qualifications are required.

Blank Spike/Blank Spike Duplicate (BS/BSD)

No BS/BSDs were analyzed with this SDG.

Compound Identification/Quantitation

No qualifications are required.

ATTACHMENT A

Appendix IX Compounds Associated with only a Continuing Calibration

Compound Name

Acetonitrile
3-Chloropropene
Propionitrile
Methacrylonitrile
Methyl Methacrylate
1,2-Dibromoethane
1,1,1,2-Tetrachloroethane
1,2-Dibromo-3-Chloropropane
Pentachloroethane
Isobutyl alcohol
Chloropropene

GLOSSARY OF DATA QUALIFIERS

QUALIFICATION CODES

U = Not detected

J = Estimated value

UJ = Reported quantitation limit is qualified as estimated

R = Result is rejected and unusable

NJ = Presumptive evidence for the presence of the material at an estimated value

K = Result is biased high

L = Result is biased low

METHOD BLANK QUALIFICATION CODES

CRQL = The sample result for the blank contaminant is less than the sample CRQL and is less than 10X the method blank value. The sample result for the blank contaminant is rejected and the CRQL for that analyte is reported.

U = The sample result for the blank contaminant is greater than the sample CRQL and is less than 10X the method blank value. The sample result for the blank contaminant is qualified as non detected at the analyte value reported.

No Action = The sample result for the blank contaminant is greater than the sample CRQL and is greater than 10X the method blank value. The sample result for the blank contaminant is not qualified with any blank qualifiers.

The specific findings will be noted in numerical form on the Form Is in this data validation report. These specific finding footnotes will reflect the conclusions found in the data validation process that resulted in the qualification of the data.

SUMMARY OF DATA QUALIFICATIONS

SAMPLE ID	ANALYTE ID	DL	QL	SPECIFIC FINDINGS
All samples	Attachment A	+/-	J/UJ	1
VBLKW_2 VBLKS_2 MPTFB04 MPT22U2 MPT22L2 MPT22U3 MPT22L3 MPT22L4	acetone 1,2-dichloroethane	+	J	2
VBLKS_3 MPT22L2MS MPT22L2MSD	acetone chloromethane	+	J	3
All samples	1,4-dioxane	+/-	R	4
MPT22U1 MPT22LI MPT22D1 MPT22U4 MPTFB04 MPT22U2 MPT22L2 MPT22U3 MPT22L3 MPT22L4	methylene chloride	+B	U	5
MPT22L2 MPT22L4	acetone	+BJ	CRQL	5

* DL denotes the Form I qualifier supplied by the laboratory
QL denotes the qualifier used by the data validation firm
+ in the DL column denotes a positive result
- in the DL column denotes a non detect result

SUMMARY OF DATA QUALIFICATIONS

SAMPLE ID	ANALYTE ID	DL	QL	SPECIFIC FINDINGS
MPTFB04 MPT22U2 MPT22U3 MPT22L3	acetone	+B	U	5
MPTRB01 TRIP BLANK MPT22U1 MPT22LI MPT22D1 MPT22U4 MPT22U2 MPT22L2 MPT22U3 MPT22L3 MPT22L4	chloroform	+BJ	CRQL	5
MPT22U1	acetone	+	U	6
MPT22LI	acetone	+J	CRQL	6
MPT22L3	carbon disulfide	+J	CRQL	6
MPT22U4	acetone	+	U	6
MPTRB01	methylene chloride	+	U	6
	acetone	+	U	
	carbon disulfide	+	U	

* DL denotes the Form I qualifier supplied by the laboratory
QL denotes the qualifier used by the data validation firm
+ in the DL column denotes a positive result
- in the DL column denotes a non detect result

DATA ASSESSMENT NARRATIVE

SEMIVOLATILE ORGANICS

General

The organic findings offered in this screening report assumes that all analytical results are correct as reported and is based upon the examination of the reported holding times, blank analysis results, surrogate and matrix spike recoveries, GC/MS performance, tuning results, calibration results and internal standard areas. This report was prepared in compliance relative to the analytical and deliverable requirements specified in the U.S. EPA CLP, 2/88 SOW; the National Functional Guidelines for Organic Data Review, and NEESA Level C and D. All comments made within this report should be considered when examining the analytical results (Form I's).

Case # 21171

System Performance and Overall Assessment

The overall system performance was fair. The laboratory deviated from the methodology in the analyses of this SDG, which resulted in qualification of the data. In addition, it must be noted that a NEESA Level C data package does not provide the data validator with all of the necessary supporting documentation to investigate the data thoroughly for errors.

Contractual Non Compliance

Heartland ESI observed several instances of non compliance throughout the data package.

* The laboratory analyzed eighteen (18) **(See Attachment A)** of the forty-three (43) Appendix IX compounds in a one point continuing calibration mixture analyzed each day before analysis. These eighteen (18) compounds did not have an initial calibration associated with this analysis.

* The CRQLs reported by the laboratory for the twelve (12) compounds reflect an initial calibration, not the continuing calibration that was analyzed. Additional information was required to support the CRQLS reported by the laboratory due the lack of an initial calibration. The laboratory provided Heartland ESI with a MDL study performed for these compounds, dated June 5, 1991. The twelve (12) compounds are qualified at the reported CRQL as estimated (J/UJ).

Contractual Non Compliance (continued)

* The laboratory reported CRQLs for two (2) of the Appendix IX compounds (see **Attachment B)** which did not have an initial or continuing calibration associated with the analyses. All results for these two (2) compounds will be rejected.

* The laboratory used the blank qualifier flag (B) incorrectly for method blank contamination on the method blank Form 1s.

* The laboratory is reporting the wrong method blank ID on the form 4As.

Specific findings:

1. For all of the samples, qualifications are required for the laboratory reported CRQLs that could not be supported for the target compounds listed in Attachment A. Due to the MDL study for these compounds provided by the laboratory, Heartland ESI will accept these CRQLs with the qualification that all non detect results are estimated (UJ). In addition, all positive results for these compounds are qualified as estimated (J) due to the lack of an initial calibration.

2. For all of the samples, rejection is required for the two (2) compounds in Attachment B. The laboratory did not provide calibration data for these two (2) compounds. All results for these compounds are rejected (R).

Holding Times

All extraction holding times and analysis holding times were met for all samples. No qualifications are required.

Tuning

All of the DFTPP tunes in the initial and continuing calibrations met the percent relative abundance criteria of the SOW and the Organic Functional Guidelines. No qualifications are required.

Initial Calibrations

One (1) of the initial calibrations that were analyzed by the laboratory for these samples was not acceptable for all compound %RSDs. All RRFs were acceptable.

Specific findings:

3. The initial calibration analyzed on 03/26/92 contained the following compounds with %RSDs greater than 30%. No qualifications are required since samples were not analyzed after the initial calibration.

   1-naphthylamine
   2-naphthylamine
   4-aminobiphenyl

Continuing Calibrations

The continuing calibration that was analyzed with this sample required qualifications for non compliant %Ds. All of the criteria and non criteria compounds met RRF requirements.

Specific Findings:

4. For the samples listed below, the continuing calibration, DSBA013445, contained the following compounds with %Ds greater than 25%, but less than 50%. Qualify all positive results for these compounds as estimated (J).

SBLKW	benzoic acid
MPT-FB-04	
MPT-RB-01	

Continuing Calibrations (continued)

5. For the samples listed below, the continuing calibration, DSBA010283, contained the following compounds with %Ds greater than 25%, but less than 50%. Qualify all positive results for these compounds as estimated (J).

SBLKS	2-naphthylamine
All samples except	4-aminobiphenyl
MPT-FB-04	
MPT-RB-01	

Internal Standards

All of the blank and sample internal standard EICP areas met the EICP internal standard area QA/QC criteria. No qualifications are required.

Method Blanks

The method blanks that were analyzed exhibited contamination for TCLs. The method blank results will be compared to their associated samples. Refer to the glossary of data qualifiers for a list and definition of the method blank qualifiers: CRQL, U and No Action.

Specific findings:

6. The following samples have been qualified for method blank contamination.

<u>bis(2-ethylhexyl)phthalate - CRQL</u>

All samples except
MPT22U4
MPT22L4

Surrogates

All of the surrogate recoveries were within QA/QC criteria. No qualifications are required.

Matrix Spike/Matrix Spike Duplicate

No MS/MSD was submitted with this SDG.

Blank Spike/Blank Spike Duplicate

No BS/BSDs were associated with this SDG.

Compound Identification/Quantitation

No qualifications are required.

ATTACHMENT A

Appendix IX Compounds Associated with only a Continuing Calibration

Compound Name

N-Nitrosodiethylamine
N-Nitrosopyrrolidine
N-Nitrosomethylethylamine
N-Nitrosomorpholine
o-Toluidine
Hexachloropropene
p-Phenyleneamine
Safrole
Isosafrole
1,4-Napthoquinone
1,3-Dinitrobenzene
5-Nitro-o-toluidine
1,3,5-Trinitrobenzene
4-Nitroquinoline-1-oxide
Methapyrilene
3,3'-Dimethylbenzidine
2-Acetamidofluorene
Hexachlorophene

ATTACHMENT B

Appendix IX Compounds Associated with No Calibrations

Compound Name
Phenyl-tert-butylamine
Diphenylamine

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* All compounds are rejected due to missing initial and continuing calibrations.

GLOSSARY OF DATA QUALIFIERS

QUALIFICATION CODES

U = Not detected

J = Estimated value

UJ = Reported quantitation limit is qualified as estimated

R = Result is rejected and unusable

NJ = Presumptive evidence for the presence of the material at an estimated value

K = Result is biased high

L = Result is biased low

METHOD BLANK QUALIFICATION CODES

CRQL = The sample result for the blank contaminant is less than the sample CRQL and is less than 10X the method blank value. The sample result for the blank contaminant is rejected and the CRQL for that analyte is reported.

U = The sample result for the blank contaminant is greater than the sample CRQL and is less than 10X the method blank value. The sample result for the blank contaminant is qualified as non detected at the analyte value reported.

No Action = The sample result for the blank contaminant is greater than the sample CRQL and is greater than 10X the method blank value. The sample result for the blank contaminant is not qualified with any blank qualifiers.

The specific findings will be noted in numerical form on the Form Is in this data validation report. These specific finding footnotes will reflect the conclusions found in the data validation process that resulted in the qualification of the data.

SUMMARY OF DATA QUALIFICATIONS

SAMPLE ID	ANALYTE ID	DL	QL	SPECIFIC FINDINGS
All samples	Attachment A	+/-	J/UJ	1
All samples	Attachment B	+/-	R	2
SBLKW MPT-FB-04 MPT-RB-01	benzoic acid	+	J	4
SBLKS All samples except MPT-FB-04 MPT-RB-01	2-naphthylamine 4-aminobiphenyl	+	J	5
All samples except MPT22U4 MPT22L4	bis(2-ethyl- hexyl)phthalate	+BJ	CRQL	6

* DL denotes the Form I qualifier supplied by the laboratory
QL denotes the qualifier used by the data validation firm
+ in the DL column denotes a positive result
- in the DL column denotes a non detect result

DATA ASSESSMENT NARRATIVE

ORGANOCHLORINE PESTICIDES AND PCBS - METHOD 8080

General

The organic findings offered in this screening report assumes that all analytical results are correct as reported and is based upon the examination of the reported holding times, GC instrument performance, initial and continuing calibrations, analytical sequence, blank analysis results, surrogate recoveries, and MS/MSD results. All comments made within this report should be considered when examining the analytical results (Form Is). Please refer the specific findings found in each category to the Summary of Data Qualification table.

LABORATORY NUMBER: 21171

Contractual Non-Compliance

No positive hits were identified in any of the samples for any of the analytical fractions. The sample chromatograms included in this NEESA Level C data package were relatively free of significant peaks. No qualification of the reported data was made based on this deficiency.

One Appendix IX compound was "Not Reported - due to poor recovery from spiking studies performed at the laboratory". This compound is: Kepone.

Holding Times

All extraction and analysis hold times were apparently met as indicated by the Chain-of-Custodies and Form 4s included in the package.

GC Instrument Performance

All three GC analytical fractions were apparently analyzed utilizing internal standards, relative retention times and relative response factors. For the Pesticide/PCB analysis, all percent breakdowns reported were within the required QC limits. No surrogate retention time information was available for any fraction. Target compound resolution and potential internal standard or surrogate interferences could not be determined. No qualifications of the reported non-detect results were made based on instrument performance.

Initial Calibration

The laboratory utilized initial five-point calibrations. Only the relative concentrations of the standards used for these calibrations were presented in the limited Level C data package. Thus, none of the reported CRQLs could be verified due to the lack of information regarding concentrations of the lowest standards and final extract volumes for the samples.

No qualifications of the reported non-detect results were required based on the initial calibrations reported.

Continuing Calibrations

All %Ds for all continuing calibrations for all fractions were within QC limits with only one exception.

Blanks

None of the reported Form Is for Method blanks for any fraction showed confirmed positive results above the reported CRQLs. No qualifications were required.

Surrogate Recoveries

All reported sample surrogate recoveries were within the reported QC limits. Recovery limits for the surrogates appear to have been established using appropriate Control Charting procedures by the laboratory.

Matrix Spike/Matrix Spike Duplicate

A MS/MSD was included in this data package. Blank Spikes were included for each analysis. Recoveries were acceptable.

Analyte Identification/Quantitation

No positive results were reported for either sample for any fraction. No additional qualifications of the reported non-detect results were required.

Overall Assessment

The reviewer commends the laboratory for including Forms 8 and 9 in the data package.

QUALIFICATION CODES

U	=	Not detected
J	=	Reported result is quantitatively estimated
UJ	=	Reported quantitation limit is qualified as estimated
R	=	Result is rejected and unusable
N	=	Result is negated, do not consider result in sample
NJ	=	Presumptive evidence for the presence of the material at an estimated concentration

Validation specific findings are noted in numerical form on the Form Is in this data validation report. These specific finding footnotes reflect the conclusions found in the data validation process that resulted in the qualifications of the data.

SUMMARY OF GC DATA QUALIFICATIONS

SAMPLE ID	ANALYTE ID	DL	QL	SPECIFIC FINDINGS
No qualifications are required in this Level C data package.				

* DL denotes the Form I qualifier/value supplied by the laboratory
QL denotes the qualifier/value used by Validator

+ in the DL column denotes a positive result
+ in the QL column denotes a reviewer revised result

HEARTLAND ENVIRONMENTAL
SERVICES, INC.

SUMMARY OF DATA QUALIFICATIONS

SAMPLE ID	ANALYTE	DL	QL	SPECIFIC FINDING
All soil samples	As, Ca, Cr, Fe, Pb, Mg Mn, Ni, Na and Zn.	+	U	1
All water samples	Ca, Cu, Fe, Mn, Na, Zn.			
All soil samples	Be	+/U	J/UJ	2
All water samples	Be and Cd			
All water samples	Pb	+/U	J/UJ	3
All water samples	Hg and Cn	+/U	J/UJ	4
All soil samples	Mn and Zn.	+/U	J/UJ	5
All water samples	Hg and Cn	+/U	J/UJ	6
MPT22U4	Se	+/U	J/UJ	7

DL - denotes laboratory qualifier/reported value
+ denotes positive values
U denotes non-detect values

QL - denotes data validation qualifier

SDG: 21662

27 May 1992

Attention Greg Brown:

This memo offers explanations of the qualifications made to the data for SDG 21662. A copy of this memo should be kept with the data.

Data qualification was made due to four (4) analytical concerns:

1) The hold time to analysis for mercury was grossly exceeded. All data for this analyte is rejected and unusable (R).

2) The preparation blank run for this SDG contained contamination. Positive preparation contamination occurred for the following analytes: barium, beryllium, chromium, nickel, and zinc. Positive results greater than the CRDL and less than five (5) times the blank results are qualified as estimated (J).

3) The duplicate result fell outside the QA/QC limits for zinc. The result is qualified as estimated (J).

4) The graphite furnace atomic absorption (GFAA) spike exhibited a low recovery for selenium. The result is qualified as having an estimated quantitation limit (UJ).

The qualifications shown on the form I for this SDG also contain numbers which refer to the issues specified above.

Patrick McGuire