

HUNTER ARMY AIRFIELD
CAP PART-B BUILDING 728
CONSTITUENTS DETECTED IN SOILS

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Date: 05/01/97

CONSTITUENT (Units in mg/kg)	SITE	MW59	MW59	MW60	MW60	MW60	MW60	MW61
SAMPLE ID	WB5901	WB5902	WB6001	WB6002	WB8101	WB6101		
DATE	02/26/97	02/26/97	02/26/97	02/26/97	02/26/97	02/26/97		
DEPTH (ft)	6.00	10.00	2.00	15.00	15.00	6.00		
RESULT TYPE	Primary	Primary	Primary	Primary	Duplicate	Primary		
Benzene	<60	<0.0062	<0.0058	<0.0070	(0.0036)	<0.0066		
Ethylbenzene	330 J	0.010	<0.0058	<0.0070	<0.0066	<0.0066		
Toluene	500 J	0.013	<0.0058	<0.0070	<0.0066	<0.0066		
Xylene (total)	1500 J	0.016	<0.0058	0.052	0.028	<0.0066		
Acenaphthene	4.8 J	<0.41	<0.38	<0.46	(0.041)	<0.44		
Acenaphthylene	<4.0	<0.41	<0.38	<0.46	<0.43	<0.44		
Benzo(a)pyrene	<4.0	<0.41	<0.38	<0.46	<0.43	<0.44		
Benzo(b,k)fluoranthene	9.0 J	<0.41	(0.10)	<0.46	<0.43	<0.44		
Benzo(ghi)perylene	<4.0	<0.41	<0.38	<0.46	<0.43	<0.44		
Chrysene + Benzo(a)anthracene	7.2 J	(0.14)	<0.38	<0.46	<0.43	<0.44		
Fluoranthene	20 J	(0.22)	(0.17)	(0.064)	(0.15)	(0.042)		
Fluorene	5.1 J	(0.082)	(0.058)	<0.46	<0.43	<0.44		
Indeno(1,2,3-cd)pyrene + Dibenzo(a,h)anthr	<4.0	<0.41	<0.38	<0.46	<0.43	<0.44		
Naphthalene	4.1 J	<0.41	<0.38	(0.16)	(0.15)	<0.44		
Phenanthrene + Anthracene	24 J	(0.21)	(0.20)	<0.46	(0.082)	<0.44		
Pyrene	14 J	(0.19)	(0.18)	(0.077)	(0.15)	(0.090)		
1-Methylnaphthalene	4.1 J	(0.028)	(0.031)	(0.094)	(0.094)	<0.44		
2-Methylnaphthalene	12 J	(0.024)	(0.020)	(0.095)	(0.10)	<0.44		
GRO	10000 J	1.3	<0.2	0.28 J	0.24	<0.24		
DRO	1800 J	<12	18	<14 J	<13	<13		

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For RCL 8000ASLS

HUNTER ARMY AIRFIELD
CAP PART-B BUILDING 728
CONSTITUENTS DETECTED IN SOILS

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CONSTITUENT	(Units in mg/kg)	SITE	MW61	MW62	MW62	MW63	MW63	MW64
SAMPLE ID	DATE	DEPTH (ft)	RESULT TYPE	Primary	Primary	Primary	Primary	Primary
Benzene			(0.0050)	<60	<0.0061	<0.0058	(0.0036)	<0.0061
Ethylbenzene			<0.0061	1100 J	0.050	<0.0058	<0.0066	<0.0061
Toluene			<0.0061	<60	<0.0061	<0.0058	(0.0060)	<0.0061
Xylene (total)			(0.0030)	1300 J	0.043	(0.0011)	(0.0045)	<0.0061
Acenaphthene			<0.40	13 J	(0.068)	<0.38	<0.43	<0.40
Acenaphthylene			<0.40	<7.8	(0.098)	<0.38	<0.43	<0.40
Benzo(a)pyrene			<0.40	<7.8	<0.40	<0.38	<0.43	<0.40
Benzo(b,k)fluoranthene			<0.40	5.8 J	(0.10)	(0.12)	<0.43	<0.40
Benzo(ghi)perylene			<0.40	<7.8	<0.40	<0.38	<0.43	<0.40
Chrysene + Benzo(a)anthracene			<0.40	11 J	(0.12)	<0.38	<0.43	<0.40
Fluoranthene			(0.042)	16 J	(0.27)	(0.11)	(0.086)	<0.40
Fluorene			<0.40	6.4 J	<0.40	<0.38	(0.049)	<0.40
Indeno(1,2,3-cd)pyrene + Dibenzo(a,h)anthr			<0.40	<7.8	<0.40	<0.38	<0.43	<0.40
Naphthalene			<0.40	15 J	<0.40	<0.38	(0.045)	<0.40
Phenanthrene + Anthracene			<0.40	16 J	<0.40	(0.078)	<0.43	<0.40
Pyrene			(0.062)	13 J	(0.22)	(0.13)	(0.069)	(0.12)
1-Methylnaphthalene			<0.40	12 J	(0.11)	(0.018)	(0.056)	<0.40
2-Methylnaphthalene			<0.40	26 J	(0.17)	<0.38	(0.051)	<0.40
GRO			<0.22	43000 J	2.2	<0.2	0.30	<0.22
DRO			<12	5700 J	17	<12	<13	<12

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For RCL 8 SLS

HUNTER ARMY AIRFIELD
CAP PART-B BUILDING 728
CONSTITUENTS DETECTED IN SOILS

CONSTITUENT	UNIT (mg/kg)	SITE	MW64	MW65	MW65	MW66	MW66	MW67
SAMPLE ID	DATE	DEPTH (ft)	RESULT TYPE	Primary	Primary	Primary	Primary	Primary
Benzene			<0.0062	<0.0056	<0.0066	<0.0060	<0.0061	<0.0060
Ethylbenzene			<0.0062	<0.0056	<0.0066	<0.0060	<0.0061	<0.0060
Toluene			<0.0062	<0.0056	<0.0066	<0.0060	<0.0061	<0.0060
Xylene (total)			<0.0062	<0.0056	<0.0066	<0.0060	<0.0061	<0.0060
Acenaphthene			<0.41	<0.38	<0.43	<0.40	<0.40	<0.39
Acenaphthylene			<0.41	(0.079)	<0.43	<0.40	(0.094)	<0.39
Benzo(a)pyrene			(0.14)	<0.38	<0.43	<0.40	(0.087)	<0.39
Benzo(b,k)fluoranthene			<0.41	(0.14)	<0.43	(0.15)	<0.40	<0.39
Benzo(ghi)perylene			<0.41	<0.38	<0.43	<0.40	<0.40	<0.39
Chrysene + Benzo(a)anthracene			<0.41	<0.38	<0.43	0.69	<0.40	<0.39
Fluoranthene			<0.41	(0.11)	<0.43	(0.090)	(0.053)	<0.39
Fluorene			<0.41	<0.38	<0.43	<0.40	<0.40	<0.39
Indeno(1,2,3-cd)pyrene + Dibenzo(a,h)anthr			<0.41	<0.38	<0.43	<0.40	<0.40	<0.39
Naphthalene			<0.41	<0.38	<0.43	<0.40	<0.40	<0.39
Phenanthrene + Anthracene			<0.41	(0.21)	<0.43	<0.40	<0.40	<0.39
Pyrene			(0.087)	(0.17)	(0.094)	(0.15)	<0.40	<0.39
1-Methylnaphthalene			<0.41	(0.072)	<0.43	<0.40	(0.040)	<0.39
2-Methylnaphthalene			<0.41	(0.12)	<0.43	<0.40	<0.40	<0.39
GRO			<0.22	<0.2	<0.23	<0.21	0.22 UJ	<0.21
DRO			<12	<11	<13	<12	<12	<12

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For RCL 8000ASLS

HUNTER ARMY AIRFIELD
CAP PART-B BUILDING 728
CONSTITUENTS DETECTED IN SOILS

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CONSTITUENT	(Units in mg/kg)	SITE	MW67	WB8201	WB6702	SB149	SB14901	SB149	SB14902	SB149	SB16001	SB15001
DATE			02/28/97		02/28/97	03/01/97		03/01/97		03/01/97		03/01/97
DEPTH (ft)			6.00		15.00	6.00		10.00		10.00		6.00
RESULT TYPE			Duplicate	Primary	Primary	Primary	Primary	Primary	Duplicate	Primary	Duplicate	Primary
Benzene			<0.0060	<0.0061	<0.0061	<0.0063	<0.49	<0.50	<1.2			
Ethylbenzene			<0.0060	<0.0061	<0.0061	0.024	(0.41)	1.0	15 J			
Toluene			<0.0060	<0.0061	<0.0061	<0.0063	<0.49	<0.50	<1.2			
Xylene (total)			<0.0060	<0.0061	<0.0061	0.012	0.69	1.6	7.9 J			
Acenaphthene			<0.39	<0.40	<0.40	<0.42	(0.35)	(0.36)	0.84			
Acenaphthylene			(0.057)	<0.40	<0.40	(0.070)	(0.33)	(0.34)	(0.29)			
Benzo(a)pyrene			<0.39	<0.40	<0.40	(0.099)	(0.28)	(0.18)	0.56			
Benzo(b,k)fluoranthene			<0.39	<0.40	<0.40	(0.25)	0.73	0.46	1.5			
Benzo(ghi)perylene			<0.39	<0.40	<0.40	<0.42	<0.40	<0.41	<0.42			
Chrysene + Benzo(a)anthracene			<0.39	<0.40	<0.40	(0.30)	0.47	0.75	0.96			
Fluoranthene			<0.39	<0.40	<0.40	(0.33)	2.1	1.4	3.6			
Fluorene			<0.39	<0.40	<0.40	<0.42	0.81	0.60	1.1			
Indeno(1,2,3-cd)pyrene + Dibenzo(a,h)anthr			<0.39	<0.40	<0.40	<0.42	(0.14)	<0.41	<0.42			
Naphthalene			<0.39	<0.40	<0.40	<0.42	(0.074)	(0.075)	(0.26)			
Phenanthrene + Anthracene			<0.39	<0.40	<0.40	(0.23)	<0.40	<0.41	4.9			
Pyrene			(0.062)	(0.076)	(0.076)	(0.34)	1.8	1.1	3.0			
1-Methylnaphthalene			<0.39	<0.40	<0.40	(0.025)	(0.36)	(0.36)	0.59			
2-Methylnaphthalene			<0.39	<0.40	<0.40	<0.42	0.88	0.81	1.6			
GRO			<0.21	<0.22	<0.22	1.2 J	35 J	68	730 J			
DRO			<12	<12	<12	13	110	100	160			

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For RCL 8 SLS

HUNTER ARMY AIRFIELD
CAP PART-B BUILDING 728
CONSTITUENTS DETECTED IN SOILS

CONSTITUENT (Units in mg/kg)	SITE SAMPLE ID	SB150 SB15002	SWE03 SE0301	SWE03 SE2001
DATE	03/01/97	03/04/97	03/04/97	03/04/97
DEPTH (ft)	10.00	0.00	0.00	0.00
RESULT TYPE	Primary	Primary	Duplicate	Duplicate
Benzene	<0.48	<0.0062	<0.0061	<0.0061
Ethylbenzene	(0.34)	<0.0062	<0.0061	<0.0061
Toluene	<0.48	<0.0062	<0.0061	<0.0061
Xylene (total)	0.76	<0.0062	(0.0018)	(0.0018)
Acenaphthene	(0.22)	(0.12)	(0.19)	(0.19)
Acenaphthylene	(0.21)	(0.099)	(0.16)	(0.16)
Benzo(a)pyrene	(0.19)	0.61	0.58	0.58
Benzo(b,k)fluoranthene	0.47	1.3	1.3	1.3
Benzo(ghi)perylene	<0.40	0.86	0.46	0.46
Chrysene + Benzo(a)anthracene	0.83	1.4	0.91	0.91
Fluoranthene	1.0	1.2	1.3	1.3
Fluorene	0.53	(0.17)	(0.23)	(0.23)
Indeno(1,2,3-cd)pyrene + Dibenzo(a,h)anthr	<0.40	0.89	0.77	0.77
Naphthalene	<0.40	(0.072)	(0.11)	(0.11)
Phenanthrene + Anthracene	<0.40	0.68	0.61	0.61
Pyrene	0.66	1.0	1.4	1.4
1-Methylnaphthalene	(0.39)	(0.10)	(0.054)	(0.054)
2-Methylnaphthalene	0.84	(0.022)	(0.058)	(0.058)
GRO	24	<0.22	<0.22	<0.22
DRO	110	16	16	16

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For RCL 8000ASLS

HUNTER ARMY AIRFIELD
CAP PART-B BUILDING 728
PRIMARY GROUNDWATER RESULTS

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CONSTITUENT	SITE	MW01	MW02	MW03	MW03	MW03	MW05	MW06
SAMPLE ID		MW0102	MW0202	MW0302	MW10002	MW0502	MW0602	
DATE		03/31/97	03/31/97	03/31/97	03/31/97	03/31/97	04/01/97	
RESULT TYPE		Primary	Primary	Primary	Duplicate	Primary	Primary	
Benzene	(ug/L)	<1	<1	4.2	4.2	<1	24	
Ethyl benzene	(ug/L)	<1	<1	5.3	4.9	<1	54	
Toluene	(ug/L)	<1	<1	<1	<1	<1	6.4	
Xylene (total)	(ug/L)	<2	<2	<2	2.8	<2	27	
Acenaphthene	(ug/L)	---	---	---	---	---	---	
Acenaphthylene	(ug/L)	<1	<1	(0.16)	(0.21)	<1	5.0	
Anthracene	(ug/L)	<1	<1	<1	<1	<1	(0.29)	
Benzo(a)anthracene	(ug/L)	<0.2	<0.2	(0.014)	(0.010)	<0.2	1.1	
Benzo(a)pyrene	(ug/L)	<0.031	(0.013)	<0.031	<0.031	<0.031	0.26	
Benzo(g,h,i)perylene	(ug/L)	<0.031	<0.031	<0.031	<0.031	<0.031	0.13	
Benzo(b)fluoranthene	(ug/L)	<0.5	<0.5	<0.5	<0.5	<0.5	(0.053)	
Benzo(k)fluoranthene	(ug/L)	<0.2	(0.017)	<0.2	<0.2	<0.2	(0.13)	
Chrysene	(ug/L)	<0.031	<0.031	<0.031	<0.031	<0.031	0.051	
Dibenzo(a,h)anthracene	(ug/L)	<0.031	(0.017)	<0.031	<0.031	<0.031	0.26	
Fluoranthene	(ug/L)	<0.036	<0.036	<0.036	<0.036	<0.036	<0.036	
Fluorene	(ug/L)	<0.5	<0.5	<0.5	<0.5	<0.5	2.9	
Indeno(1,2,3-cd)pyrene	(ug/L)	<0.5	(0.12)	(0.14)	(0.12)	<0.5	3.9	
Naphthalene	(ug/L)	<0.031	<0.031	<0.031	<0.031	<0.031	0.035	
Phenanthrene	(ug/L)	<1	<1	1.5	1.2	<1	20	
Pyrene	(ug/L)	(0.010)	(0.012)	(0.10)	(0.080)	<0.2	7.0	
1-Methylnaphthalene	(ug/L)	<0.5	<0.5	<0.5	<0.5	<0.5	2.7	
2-Methylnaphthalene	(ug/L)	<1	<1	1.1	(0.90)	<1	14	
	(ug/L)	<1	(0.18)	(0.14)	(0.11)	<1	5.2	
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HUNTER ARMY AIRFIELD
CAP PART-B BUILDING 728
PRIMARY GROUNDWATER RESULTS

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CONSTITUENT	SITE	MW09	MW10	MW11	MW12	MW13	MW14
SAMPLE ID		MW0902	MW1002	MW1102	MW1202	MW1302	MW1402
DATE		03/31/97	03/31/97	04/01/97	04/01/97	04/01/97	04/01/97
RESULT TYPE		Primary	Primary	Primary	Primary	Primary	Primary
Benzene	(ug/L)	<1	<1	1700	56 J	1.4	<1
Ethyl benzene	(ug/L)	<1	<1	380	40 J	<1	<1
Toluene	(ug/L)	<1	<1	600	28 J	<1	<1
Xylene (total)	(ug/L)	<2	<2	2300	46 J	<2	<2
Acenaphthene	(ug/L)	---	---	---	---	---	---
Acenaphthylene	(ug/L)	<1	<1	(0.98)	(0.78)	<1	<1
Anthracene	(ug/L)	<0.2	<0.2	<0.2	0.31	<0.2	<0.2
Benzo(a)anthracene	(ug/L)	<0.031	<0.031	<0.031	0.12	<0.031	<0.031
Benzo(a)pyrene	(ug/L)	<0.031	<0.031	<0.031	0.11	<0.031	<0.031
Benzo(g,h,i)perylene	(ug/L)	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(b)fluoranthene	(ug/L)	<0.2	<0.2	<0.2	(0.044)	<0.2	<0.2
Benzo(k)fluoranthene	(ug/L)	<0.031	<0.031	<0.031	0.032	<0.031	<0.031
Chrysene	(ug/L)	<0.031	<0.031	<0.031	0.22	<0.031	<0.031
Dibenzo(a,h)anthracene	(ug/L)	<0.036	<0.036	<0.036	<0.036	<0.036	<0.036
Fluoranthene	(ug/L)	<0.5	<0.5	<0.5	1.4	<0.5	<0.5
Fluorene	(ug/L)	<0.5	<0.5	(0.12)	0.56	<0.5	<0.5
Indeno(1,2,3-cd)pyrene	(ug/L)	<0.031	<0.031	<0.031	<0.031	<0.031	<0.031
Naphthalene	(ug/L)	<1	<1	6.7	17 J	1.0	<1
Phenanthrene	(ug/L)	<0.2	<0.2	<0.2	1.5	<0.2	<0.2
Pyrene	(ug/L)	<0.5	<0.5	<0.5	1.2	<0.5	<0.5
1-Methylnaphthalene	(ug/L)	<1	<1	<1	5.8	(0.30)	<1
2-Methylnaphthalene	(ug/L)	<1	<1	1.7	4.9	(0.12)	<1
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EPA METHODS: 8310 & 8020 For RCL 8000P

J = RESULT IS ESTIMATED. R = RESULT IS REJECTED.

HUNTER ARMY AIRFIELD
CAP PART-B BUILDING 728
PRIMARY GROUNDWATER RESULTS

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CONSTITUENT	SITE	MW55	MW56	MW57	MW58	MW60	MW61
SAMPLE ID		MW5501	MW5601	MW5701	MW5801	MW6001	MW6101
DATE		03/31/97	03/31/97	03/31/97	03/31/97	04/01/97	04/01/97
RESULT TYPE		Primary	Primary	Primary	Primary	Primary	Primary
Benzene	(ug/L)	<1	17	24	41 J	1400	910 J
Ethyl benzene	(ug/L)	<1	9.1	40	16 J	280	170 J
Toluene	(ug/L)	<1	3.3	49	11 J	290	12 J
Xylene (total)	(ug/L)	<2	34	170	94 J	1600	760 J
Acenaphthene	(ug/L)	<1	<1	<1	<1	6.2	(3.7)
Acenaphthylene	(ug/L)	<1	<1	<1	<1	<1	<5
Anthracene	(ug/L)	<0.2	1.2	(0.0049)	<0.2	(0.057)	(0.086)
Benzo(a)anthracene	(ug/L)	<0.031	0.41	<0.031	<0.031	<0.031	<0.16
Benzo(a)pyrene	(ug/L)	(0.011)	0.20	<0.031	<0.031	<0.031	<0.16
Benzo(g,h,i)perylene	(ug/L)	<0.5	(0.12)	<0.5	<0.5	<0.5	<2.6
Benzo(b)fluoranthene	(ug/L)	(0.017)	0.21	<0.2	(0.011)	<0.2	<1
Benzo(k)fluoranthene	(ug/L)	(0.0073)	0.12	<0.031	<0.031	<0.031	<0.16
Chrysene	(ug/L)	(0.015)	0.54	<0.031	(0.010)	(0.0087)	<0.16
Dibenzo(a,h)anthracene	(ug/L)	<0.036	<0.036	<0.036	<0.036	<0.036	<0.18
Fluoranthene	(ug/L)	<0.5	3.9	<0.5	(0.080)	(0.037)	<2.6
Fluorene	(ug/L)	<0.5	1.2	(0.057)	<0.5	2.4	(1.2)
Indeno(1,2,3-cd)pyrene	(ug/L)	<0.031	0.075	<0.031	<0.031	<0.031	<0.16
Naphthalene	(ug/L)	<1	2.3	1.1	3.4	56	47 J
Phenanthrene	(ug/L)	(0.046)	2.3	(0.026)	(0.029)	1.0	(0.87)
Pyrene	(ug/L)	<0.5	3.6	<0.5	<0.5	<0.5	<2.6
1-Methylnaphthalene	(ug/L)	<1	(0.70)	(0.83)	<1	16	<5
2-Methylnaphthalene	(ug/L)	<1	<1	1.7	1.2	16	16
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EPA METHOD 8310 & 8020 For RCL 8000P

RESULT IS ESTIMATED. R = RESULT IS REJECTED.

HUNTER ARMY AIRFIELD
CAP PART-B BUILDING 728
PRIMARY GROUNDWATER RESULTS

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CONSTITUENT	SITE	MW63	MW64	MW65	MW66	MW66	MW67
SAMPLE ID	DATE	DATE	DATE	DATE	DATE	DATE	DATE
RESULT TYPE	Primary	Primary	Primary	Primary	Primary	Duplicate	Primary
Benzene	(ug/L)	2400	81	<1	<1	<1	<1
Ethyl benzene	(ug/L)	460	36	<1	<1	<1	<1
Toluene	(ug/L)	300	50	<1	<1	<1	<1
Xylene (total)	(ug/L)	2000	320	<2	<2	<2	<2
		---	---	---	---	---	---
Acenaphthene	(ug/L)	3.0	(0.71)	<1	<1	<1	<1
Acenaphthylene	(ug/L)	<1	<1	<1	<1	<1	<1
Anthracene	(ug/L)	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)anthracene	(ug/L)	<0.031	<0.031	<0.031	<0.031	<0.031	<0.031
Benzo(a)pyrene	(ug/L)	<0.031	<0.031	<0.031	<0.031	<0.031	<0.031
Benzo(g,h,i)perylene	(ug/L)	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(b)fluoranthene	(ug/L)	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(k)fluoranthene	(ug/L)	<0.031	<0.031	<0.031	<0.031	<0.031	<0.031
Chrysene	(ug/L)	(0.017)	(0.0060)	<0.031	<0.031	<0.031	<0.031
Dibenzo(a,h)anthracene	(ug/L)	<0.036	<0.036	<0.036	<0.036	<0.036	<0.036
Fluoranthene	(ug/L)	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fluorene	(ug/L)	0.67	(0.18)	<0.5	<0.5	<0.5	<0.5
Indeno(1,2,3-cd)pyrene	(ug/L)	<0.031	<0.031	<0.031	<0.031	<0.031	<0.031
Naphthalene	(ug/L)	36 J	3.2	<1	<1	<1	<1
Phenanthrene	(ug/L)	(0.019)	(0.015)	(0.012)	<0.2	<0.2	<0.2
Pyrene	(ug/L)	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1-Methylnaphthalene	(ug/L)	<1	<1	<1	<1	<1	<1
2-Methylnaphthalene	(ug/L)	8.1	(0.87)	<1	<1	<1	<1
		---	---	---	---	---	---

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

() = Less than Reporting Limit

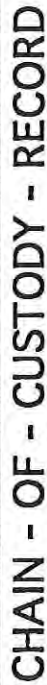
EPA METHODS: 8310 & 8020 For RCL 8000P

J = RESULT IS ESTIMATED. R = RESULT IS REJECTED.

HUNTER ARMY AIRFIELD
CAP PART-B BUILDING 728
PRIMARY GROUNDWATER RESULTS

CONSTITUENT	SITE			SWE01			SWE03		
	SAMPLE ID			SW0101			SW0301		
	DATE			03/04/97			03/04/97		
	RESULT TYPE			Primary			Duplicate		
Benzene	(ug/L)	6.8	8.1	3.7					
Ethyl benzene	(ug/L)	2.1	2.3	1.0					
Toluene	(ug/L)	3.9	4.3	1.2					
Xylene (total)	(ug/L)	7.7	8.8	4.3					
Acenaphthene	(ug/L)	<1	<1	<1					
Acenaphthylene	(ug/L)	<1	<1	<1					
Anthracene	(ug/L)	<0.2	<0.2	<0.2					
Benzo(a)anthracene	(ug/L)	0.11 J	0.21	<0.031					
Benzo(a)pyrene	(ug/L)	0.14 J	0.38	<0.031					
Benzo(g,h,i)perylene	(ug/L)	0.28 J	1.4	<0.5					
Benzo(b)fluoranthene	(ug/L)	0.098 J	0.21	<0.2					
Benzo(k)fluoranthene	(ug/L)	0.066 J	0.16	<0.031					
Chrysene	(ug/L)	0.090 J	0.31	<0.031					
Dibenzo(a,h)anthracene	(ug/L)	<0.036	0.096	<0.036					
Fluoranthene	(ug/L)	0.19 J	(0.24)	<0.5					
Fluorene	(ug/L)	<0.5	<0.5	<0.5					
Indeno(1,2,3-cd)pyrene	(ug/L)	0.086 J	0.21	<0.031					
Naphthalene	(ug/L)	<1	<1	<1					
Phenanthrene	(ug/L)	<0.2	(0.077)	<0.2					
Pyrene	(ug/L)	0.13 J	(0.35)	<0.5					
1-Methylnaphthalene	(ug/L)	<1	<1	<1					
2-Methylnaphthalene	(ug/L)	<1	<1	<1					
		---	---	---					

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed
() = Less than Reporting Limit



CHAIN - OF - CUSTODY - RECORD

TASK ORDER NO.

SAMPLE EVENT:

PROGRAM TYPE:

SAMPLER(S) SIGNATURE: *Daniel Howard*

[illegible]

Relinquished by:
(Signature)

Date/Time:

Received by:

Date/Time:

Cooler Temperature:

Remarks:

Send Results to:

AIRBIL CO.

Christine Hettinger c/o METCALF & EDDY, INC.
1201 Peachtree St., N.E., 400 Colony Square, Suite 1101
Atlanta, Georgia 30361
4) 881-8010, FAX (404) 872-3161

TRACKING NO:

4) 881-8010. FAX (404) 872-3161

STANDARD PRESERVATION (Y):

(H)	HCl/VOC,
(N)	HNO ₃ /METALS
(S)	H ₂ SO ₄ /
(O)	OTHER _____

STORED/SH' IN ICE



CHAIN - OF - CUSTODY - RECORD

PROJECT NAME: Hunter V

PROJECT NO: 019504-4102

LABORATORY ID: SL5

SAMPLER(S) NAME: Daniel Howard

TASK ORDER NO.

SAMPLE EVENT:

PROGRAM TYPE:

SAMPLER(S) SIGNATURE: Daniel Howard

DATE	TIME MILITARY	MATRIX (SW)	FIELD SAMPLE ID	SITE ID	RES CODE	DEPTH (FT)	NO. OF CONTS	STANDARD PRESERV (Y/N)*	FILTERED (L) LAB (F) FIELD
2/26/97	0750	S	WB5901	MW59	PP01	4/6	2	N	-
	0755	S	WB5902	MW59	PP01	8/10	2	N	-
	0840	S	WB6001	MW60	PP01	0/2	2	N	-
	0920	S	WB6002	MW60	PP01	13/15	2	N	-
	0920	S	WB8101	MW60	PD1	13/15	2	N	-
	1400	S	WB6101	MW61	PP01	4/6	2	N	-
	1420	S	WB6102	MW61	PP01	13/15	2	N	-
	1440	S	WB6301	MW63	PP01	0/2	2	N	-
	1530	S	WB6302	MW63	PP01	13/15	2	N	-
✓	-	W	TEMP	Blank			1		

Method No.

ANALYTICAL PARAMETERS	METHODS
VOC S	8100
SVOC PAH	8100
METALS ICP	8100
Hg CVAA	8100
GFAA	8100
HERBICIDES	8100
PESTICIDES	8100
PCB	8100
PH / DR O	8100
GRO	8100

Relinquished by:
(Signature) Daniel Howard

Date/Time: 2/26/97/1700

Received by: Metcalf & Eddy

Date/Time: 2-26-97 5:03

Cooler Temperature: 6.3°C

Remarks:

Send Results to:

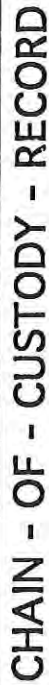
AIRBILL CO. Hand Delivered By MVE

TRACKING NO:

Christine Hettinger c/o METCALF & EDDY, INC.
1201 Peachtree St., N.E., 400 Colony Square, Suite 1101
Atlanta, Georgia 30361
(404) 881-8010, FAX (404) 872-3161

STANDARD PRESERVATION (Y):

(H) HCl/VOC,
(N) HNO₃/METALS
(S) H₂SO₄/
(O) OTHER
STORED/SHIPPED IN ICE/ON



CHAIN - OF - CUSTODY - RECORD

Hunter V

TASK ORDER NO.

019504-4102

SAMPLE EVENT:

575

PROGRAM TYPE:

niel Howard

SAMPLER(S) SIGNATURE: *Daniela Herzog*

DATE	TIME MILITARY	MATRIX (SW)	FIELD SAMPLE ID	SITE ID	RES CODE	DEPTH (FT.)	NO. OF CONTS.	STANDARD PRESERV. (Y/N)	FILTERED (L) LAB (F) FIELD
2/27/97	0745	S	WB6401	MW64	PP01	~~2~~ / ~~4~~	2	N	-
/	0815	S	WB6402	MW64	PP01	~~13~~ / ~~15~~	2	N	-
/	0905	S	WB6201	MW62	PP01	~~4~~ / ~~6~~	2	N	-
/	0925	S	WB6202	MW62	PP01	~~13~~ / ~~15~~	2	N	-
/	1315	S	WB6601	MW66	PP01	~~4~~ / ~~6~~	2	N	-
/	1345	S	WB6602	MW66	PP01	~~13~~ / ~~15~~	2	N	-
✓	—	W	TEMP	Blank		<del> </del> / <del> </del>	1		
						<del> </del> / <del> </del>			
						<del> </del> / <del> </del>			
						<del> </del> / <del> </del>			
						<del> </del> / <del> </del>			
						<del> </del> / <del> </del>			

Method No.

ANALYTICAL PARAMETERS/METHODS

[illegible]

Relinquished by:
(Signature)

Date/Time:

Received hv.

Date/TIME:

Cooler Temperature:

Remarks: *

* Use sample WB6602 as MS/MSD 9.57

Send Results to:

57-71144

AIRBILL CO. Samples hand delivered by
M+E. Gmc 013197

TRACKING NO:

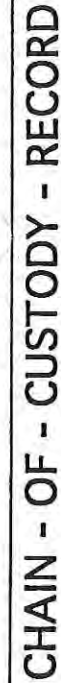
Christine Hettinger c/o METCALF & EDDY, INC.
1201 Peachtree St., N.E., 400 Colony Square, Suite 1101
Atlanta, Georgia 30361
(4) 881-8010, FAX (404) 872-3161

4) 881-8010, FAX (404) 872-3161

STANDARD PRESERVATION (Y):

(H)	HCl/VOC,
(N)	HNO ₃ /METALS
(S)	H ₂ SO ₄ /
(O)	OTHER _____

STORED/SHIF IN ICE/YAN



SAMPLER(S) NAME: Daniel Howard

PROGRAM TYPE:

SAMPLER(S) SIGNATURE: David Howard

Method No.[illegible]

Cooler Temperature:

Date/Time: 2007.4.50

Send Results to:

Christine Hettinger c/o METCALF & EDDY, INC.
1201 Peachtree St., N.E., 400 Colony Square, Suite 1101
Atlanta, Georgia 30361
(404) 881-8010, FAX (404) 872-3161

STANDARD PRESERVATION (Y):

(H)	HCl/VOC,
(N)	HNO ₃ /METALS
(S)	H ₂ SO ₄ /
(O)	OTHER _____

STORED/SHIPPED IN ICE ☒ N



SAMPLER(S) NAME: Daniel Howard

SAMPLER(S) SIGNATURE:

SIGNATURE: Daniel H. H. H.

Method No.

CHAIN - OF - CUSTODY - RECORD

ANALYTICAL PARAMETERS/METHODS

[illegible]

Date/Time: 8.1.97

Cooler Temperature:

10.9

Remarks:

Send Results to:

07-11-70

AIRBILL CO. Hand Delivered by MAF

Christine Hettinger c/o METCALF & EDDY, INC.
1201 Peachtree St., N.E., 400 Colony Square, Suite 1101
Atlanta, Georgia 30361

TRACKING NO:

1) 881-8010, FAX (404) 872-3161

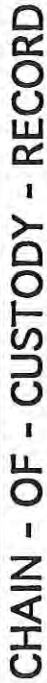
STANDARD PRESERVATION (Y):

(H)	HCl/VOC,
(N)	HNO ₃ /METALS
(S)	H ₂ SO ₄ /
(O)	OTHER _____

STORED/SHI IN ICEY/N



STORED/SHIPPED IN ICE 



Hunter

TASK ORDER NO.

PROJECT NO: 019504-4102

575

SAMPLER(S) SIGNATURE: Daniel Howard

SAMPLER(S) SIGN[illegible]

*

Relinquished by
(Signature)

Date/Time:

Received by:

Date/Time:

Remarks:

Use ^{OH} sample AA14601 as MS/MSD also

Send Results to:

AIRBILL CO.

Hand Delivered by M & F

TRACKING NO:

Christine Hettinger c/o METCALF & EDDY, INC.
1201 Peachtree St., N.E., 400 Colony Square, Suite 1101
Atlanta, Georgia 30361
(4) 881-8010, FAX (404) 872-3161

STANDARD PRESERVATION (Y):

(H)	HCl/VOC,
(N)	HNO ₃ /METALS
(S)	H ₂ SO ₄ /
(O)	OTHER _____

STORED/SHIPPED IN ICE/RYN

ANALYTICAL PARAMETERS/METHODS

G R O	805M	X	X	X	X	X
T P H / D R O	8-00 M	X	X	X	X	X
P C B						
P E S T I - C I - D E S						
H E R B I - C I - D E S						
M E T A L S ICP Hg CVAA						
S V O C PAH	8-00	X	X	X	X	X
V O C S	8070	X	X	X	X	X

Cooler Temperature:

A-12.6

CHAIN - OF - CUSTODY - RECORD



PROJECT NAME: Hunter V
PROJECT NO: 019504-4102
LABORATORY ID: SL5
SAMPLER(S) NAME: Daniel Howard
TASK ORDER NO. # 22
SAMPLE EVENT: _____
PROGRAM TYPE: _____
SAMPLER(S) SIGNATURE: Daniel Howard

[illegible]

ANALYTICAL PARAMETERS/METHODS	VOCs	Syngenta	Herbicides	Pesticides	PCB	TPH/DRD	GRD
	8020	8020					
	3	3					
	3	3					
	3	3					
	67	67					

Selling Agent (Signature)	Date/Time	Received by:	Date/Time
Daniel L Howard	3/4/97/15:51	D. Howard	3/4/97 3:50

0-7.1

STANDARD PRESERVATION (Y):

(H) HCV/VOC
(N) HMO/METALS
(S) H₂SO₄
(O) OTHER

STORED/SHIPPED IN ICE (N)

TRACKING NO: _____
 AIRBILL NO. Hand Delivered by M+E
 Send Results to: Christine Hattinger c/o METCALF & EDDY, INC.
1201 Peachtree St., N.E., 400 Colony Square, Suite 1101
Atlanta, Georgia 30361
(404) 881-8010, FAX (404) 872-3167

STORERO/SHIPPED IN ICE COLD



ANALYTICAL PARAMETER	METHODS
VOCs	G R O
	T P H / D R O
	P C B
	P E S T I C I D E S
	H E R B I C I D E S
	M E T A L S ICP Hg
SPECIAL	

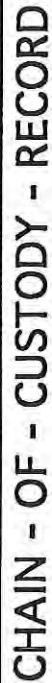
[illegible]

Cooler Temperature: 3-7.1

STANDARD PRESERVATION (Y):

(H)	HCl/VOC,
(N)	HN ₃ /METALS
(S)	H ₂ SO ₄ /
(O)	OTHER _____

STORED/SHIPPED IN ICE ☒



CHAIN - OF - CUSTODY - RECORD

TASK ORDER NO. # 22

SAMPLE EVENT:

PROGRAM TYPE:

SAMPLER(S) SIGNATURE: Daniel Howard

Method No.

ANALYTICAL PARAMETERS/METHODS

[illegible]

Received by:

Date/Time:

Date/Time:

Cooler Temperature:

Remarks:

Send Results to:

AIRBILL CO. Hand Delivered by M&E

TRACKING NO:

Christine Hettinger c/o METCALF & EDDY, INC.
1201 Peachtree St., N.E., 400 Colony Square, Suite 1101
Atlanta, Georgia 30361

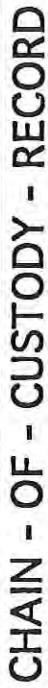
STANDARD PRESERVATION (Y):

(H) HCl/VOC,
(N) HNO₃/METALS
(S) H₂SO₄/
(O) OTHER _____

STORED/SH IN ICE



STORED/SHIPPED IN ICE ☒ Y/N



TASK ORDER NO.

SAMPLE EVENT:

PROGRAM TYPE:

SAMPLER(S) SIGNATURE: _____

[illegible]

4/1/97/1254

Remarks:

Send Results to:

AIRBILL CO. Hand Delivered by M+E
TRACKING NO: (4) 881-8010, FAX (404) 872-3161

TRACKING NO:

(4) 881-8010, FAX (404) 872-3161

STANDARD PRESERVATION (Y):

(H)	HCl/VOC,
~~(N)~~	HNO ₃ /METALS
(S)	H ₂ SO ₄ /
(O)	OTHER _____

STORED/SH: IN ICE/IN

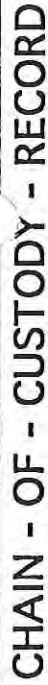
ANALYTICAL PARAMETERS/METHODS

Method No.

[illegible]

Cooler Temperature:

CC



CHAIN - OF - CUSTODY - RECORD

SAMPLER(S) NAME: Daniel Howard

PROGRAM TYPE:

SAMPLER(S) SIGNATURE: Daniel Howard

Method No.

ANALYTICAL PARAMETERS		METHODS	
VOCs	8020		
SVOCK	836	2	2
PAH	836	2	2
		4	4
METALS			
ICP			
Hg			
CVAA			
GFAA			
HERBICIDES			
PESTICIDES			
PCB			
TPH / DRO			
GR0			

Дата/Время:

Cooler Temperature:

(H)	HCl/VOC,
(N)	HNO ₃ /METALS
(S)	H ₂ SO ₄ /
(O)	OTHER _____

TRACKING NO:

(404) 881-8010. FAX (404) 872-3161



Hunter V

TASK ORDER NO.

SAMPLE EVENT:

PROGRAM TYPE:

SAMPLER(S) SIGNATURE: David Howard

DATE	TIME MILITARY	MATRIX (SW)	FIELD SAMPLE ID	SITE ID	RES CODE	DEPTH (FT.)	NO. OF CONTS.	STANDARD PRESERV. (Y/N)	FILTERED (L) LAB (F) FIELD
3/31/97	1840	W	MW5601	MW56	PP01	/	4	Y	NA
3/31/97	1930	W	MW0902	MW09	PP01	/	2	Y	NA
4/1/97	0740	W	MW1102	MW11	PP01	/	2	N	NA
↓	0755	W	MW6501	MW65	PP01	/	2	N	NA
↓	0805	W	MW1402	MW14	PP01	/	2	N	NA
↓	0815	W	MW1302	MW13	PP01	/	2	N	NA
↓	—	W	TEMP	Blank	—	/	1		
						/			
						/			
						/			
						/			
						/			

Method No.

CHAIN - OF - CUSTODY - RECORD

ANALYTICAL PARAMETERS/METHODS

[illegible]

Date/Time:

Received by:

Date/Time:

Cooler Temperature:

Remarks:

Send Results to:

AIRBILL CO.

Hand Delivered by Mr E

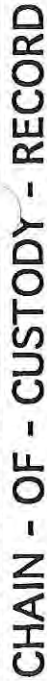
TRACKING NO:

Christine Hettinger c/o METCALF & EDDY, INC.
1201 Peachtree St., N.E., 400 Colony Square, Suite 1101
Atlanta, Georgia 30361
4) 881-8010, FAX (404) 872-3161

STANDARD PRESERVATION (Y):

(H) HCl/VOC,
(N) **HNO₃/METALS**
(S) H₂SO₄/
(O) OTHER _____

STORED/SHIP IN ICE ☒ Y/N



SAMPLER(S) NAME: Daniel Howard

SAMPLER(S) SIGNATURE: Daniel Howard

Method No.

Voc 1 of 3

4/1/97/1252 M. d. Churchill 5/11/1911 4.1.97 1252

Christine Hettinger c/o METCALF & EDDY, INC.
1201 Peachtree St., N.E., 400 Colony Square, Suite 1101
Atlanta, Georgia 30361
(404) 881-8010, FAX (404) 872-3161

STORED/SHIPPED IN ICE ☒ N



SAMPLER(S) NAME: Daniel Howard

DATE	TIME MILITARY	MATRIX (SW)	FIELD SAMPLE ID	SITE ID	RES. CODE	DEPTH (FT)	NO. OF CONTS	STANDARD PRESERV. (Y/N)*	FILTERED (L) LAB (P) FIELD
3/31/97	1745	W	TB01	MW01	BT1	/	3	Y	NA
↓	1840	W	MW5601	MW56	PP01	/	3	Y	NA
4/1/97	0740	W	MW1102	MW11	PP01	/	3	Y	NA
↓	0755	W	MW6501	MW65	PP01	/	3	Y	NA
↓	0805	W	MW1402	MW14	PP01	/	3	Y	NA
↓	0815	W	MW1302	MW13	PP01	/	3	Y	NA
↓	0825	W	MW1202	MW12	PP01	/	3	Y	NA
↓	1035	W	MW6601	MW66	PP01	/	3	Y	NA
↓	1035	W	MW10201	MW66	PD2	/	3	Y	NA
↓	1045	W	MW6701	MW67	PP01	/	3	Y	NA
↓	1100	W	MW6101	MW61	PP01	/	3	Y	NA
↓	1115	W	MW6301	MW63	PP01	/	3	Y	NA

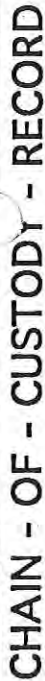
(404) 881-8010, FAX (404) 872-3161

STORED/SHOWN IN ICEBOX

ANALYTICAL PARAMETERS/METHODS

[illegible]

Method No.



Hunter V

TASK ORDER NO.

SAMPLE EVENT:

PROGRAM TYPE:

SAMPLER(S) NAME: Daniel Howard

SAMPLER(S) SIGNATURE: Daniel Howard

[illegible]

Method No.

ANALYTICAL PARAMETER	METHODS
V O C S	80206
S V O C	3
M E T A L S	3
ICP	.
Hg	3
CVAA	3
GFAA	3
H E R B I C I D E S	
P E E S T I C I D E S	
P C B	
T P H / D R O	
G R O	

Relinquished by:
(Signature)

Date/Time:

Received by:

Date/Time:

Cooler Temperature:

Remarks:

Send Results to:

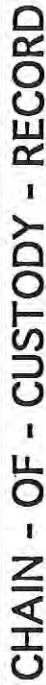
AIRBILL CO. Hand Delivered by M.F.

Christine Hettinger c/o METCALF & EDDY, INC.
1201 Peachtree St., N.E., 400 Colony Square, Suite 1101
Atlanta, Georgia 30361
(404) 881-8010, FAX (404) 872-3161

STANDARD PRESERVATION (Y):

(H)	HCl/VOC,
(N)	HNO ₃ /METALS
(S)	H ₂ SO ₄ /
(O)	OTHER _____

STORED/SHIPPED IN ICE ☒ YES ☐ NO



Hunter V

SAMPLE EVENT:

575

SAMPLER(S) SIGNATURE: *Daniel Hansen*

SAMPLER(S) SIGNATURE: *Daniel H. Hansen*

[illegible]

Date/Time:

4/197/1253

Send Results to:

AIRBILL CO. Hand Delivered by M + E

Christine Hettinger c/o METCALF & EDDY, INC.
1201 Peachtree St., N.E., 400 Colony Square, Suite 1101
Atlanta, Georgia 30361
(4) 881-8010. FAX (404) 872-3161

TRACKING NO:

(4) 881-8010. FAX (404) 872-3161

ANALYTICAL PARAMETERS/METHODS

[illegible]

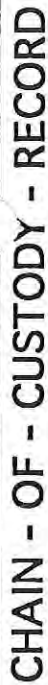
Cooler Temperature:

15

STANDARD PRESERVATION (Y):

(H)	HCl/VOC,
(N)	HNO ₃ /METALS
(S)	H ₂ SO ₄ /
(O)	OTHER

STORED/SHIPPED IN ICE/IN



SAMPLER(S) NAME: Danie Howard

PROGRAM TYPE:-

SAMPLER(S) SIGNATURE: *Daniel Hernandez*

[illegible]

Method No.

ANALYTICAL PARAMETERS, METHODS

[illegible]

Date/Time:

Cooler Temperature:

1571 Lab. 4-197 1251

Remarks:

Send Results to:

AIRBILL CO.

Christine Hettinger c/o METCALF & EDDY, INC.
1201 Peachtree St., N.E., 400 Colony Square, Suite 1101
Atlanta, Georgia 30361
(404) 881-8010. FAX (404) 872-3161

TRACKING NO:

STANDARD PRESERVATION (Y):

(H)	HCl/VOC,
(N)	HNO ₃ /METALS
(S)	H ₂ SO ₄ /
(O)	OTHER _____

STORED/SHIPPED IN ICE



Hunter V

PROJECT NO: 019504-4102

LABORATORY ID: 5 L5

PROGRAM TYPE:

SAMPLER(S) NAME: Daniel Howard

SAMPLER(S) SIGNATURE:

Method No.

ANALYTICAL PARAMETERS/METHODS

[illegible]

by: Daniel Z. Howard

4/1/97/1251

M. Devalle 57-7441

Date/Time:

Cooler Temperature:

4.1.917 1251

Remarks:

Send Results to:

AIRBILL CO.

Hand Delivered by M&E

Christine Hettinger c/o METCALF & EDDY, INC.
1201 Peachtree St., N.E., 400 Colony Square, Suite 1101
Atlanta, Georgia 30361
(404) 881-8010 FAX (404) 872-3161

STANDARD PRESERVATION (Y):

(H)	HCl/VOC,
(N)	HNO ₃ /METALS
(S)	H ₂ SO ₄ /
(O)	OTHER _____

STORED/SHIR IN ICE ~~Y/N~~

APPENDIX C

**MONITORING WELL SCHEMATICS,
MONITORING WELL DEVELOPMENT SHEETS,
AND PHOTOGRAPHS**

GROUND WATER INSTALLATION		PROJECT: 728-CAP B	JOB NO. 019504	WELL NO. MW55
DRILLING CONTRACTOR: PSI		COORDINATES:		
BEGUN: 2/24/17	SUPERVISOR: D. Humphries	WELL SITE:	WATER LEVEL: DEPTH/ELEV. 3.02_g / 15.30'	
FINISHED: 2/24/17	DRILLER: K. Durham			

REFERENCE POINT & ELEVATION:		DEPTH IN	ELEV. IN
GROUND SURFACE		0	18.5
SURFACE CASING: DIA.: NA TYPE:		—	—
TOP OF PROTECTIVE CASING			
PROTECTIVE CASING: DIA.: TYPE:		0.18	18.32
TOP OF RISER CASING			
BOTTOM OF SURFACE CASING		—	—
BACKFILL: Grout TYPE: Portland Type I			
RISER CASING: DIA.: 2" TYPE: PVC sch. 40		1.0	17.5
TOP OF SEAL			
ANNULAR SEAL: TYPE: Bentonite pellets		1.5	17.0
BOTTOM OF SEAL			
TOP OF SCREEN		2.0	16.5
FILTER MATERIAL: Silica Sand TYPE: 30/45			
SCREEN: DIA.: 2" TYPE: PVC sch 40 OPENING WIDTH: 0.010 in TYPE: slotted		12.0	6.5
BOTTOM OF SCREEN			
BOTTOM OF SUMP		—	—
BOTTOM OF HOLE		13.0	5.5

GENERALIZED GEOLOGIC LOG

W.L. $\pm$ 3.02 @ sampling

HOLE DIAMETER
11"

METHOD DRILLED:
6 1/4" ID HSA

METHOD DEVELOPED:
12V DC Whale Pump

TIME DEVELOPED:
1515
3-1-97

COMMENTS:

GROUND WATER INSTALLATION		PROJECT: 728 CAPB	JOB NO. 019504	WELL NO. MW56
DRILLING CONTRACTOR: PSI		COORDINATES:		
BEGUN: 2/24/97	SUPERVISOR: D. Humphreys	WELL SITE:		WATER LEVEL: DEPTH/ELEV. 4.53' / 15.16'
FINISHED: 2/24/97	DRILLER: K. Durham			

REFERENCE POINT & ELEVATION:		DEPTH IN	ELEV. IN FT
GROUND SURFACE		0	19.8
GENERALIZED GEOLOGIC LOG	SURFACE CASING: DIA.: TYPE: Flush mount	—	—
	TOP OF PROTECTIVE CASING		
	PROTECTIVE CASING: DIA.: TYPE:	0.11	19.69
	TOP OF RISER CASING	—	—
	BOTTOM OF SURFACE CASING		
	BACKFILL: Grout TYPE: Portland Type I		
	RISER CASING: DIA.: 2" TYPE: PVC sch 40	0.8	19.0
	TOP OF SEAL		
	ANNULAR SEAL: TYPE: bentonite pellets	1.1	18.7
	BOTTOM OF SEAL	1.4	18.4
4.53' toe @ Sampling	TOP OF SCREEN		
	FILTER MATERIAL: Silica Sand TYPE: 30/45		
	SCREEN: DIA.: 2" TYPE: PVC sch 40 OPENING WIDTH: 0.010 in TYPE: slotted	11.4	8.4
	BOTTOM OF SCREEN		
	BOTTOM OF SUMP	—	—
HOLE DIAMETER 11"		11.8	8.0
BOTTOM OF HOLE			

METHOD DRILLED:
6 1/4" ID HSA

METHOD DEVELOPED:
12 v DC whale Pump

TIME DEVELOPED:
3-1-97
0845

COMMENTS:

GROUND WATER INSTALLATION		PROJECT: 728 CAPB	JOB NO. 019504	WELL NO. MW57
DRILLING CONTRACTOR: PSI		COORDINATES:		
BEGUN: 2/25/97	SUPERVISOR: D. Humphris	WELL SITE:	WATER LEVEL: DEPTH/ELEV. 5.15' / 14.95'	
FINISHED: 2/25/97	DRILLER: K. Durham			

REFERENCE POINT & ELEVATION:	DEPTH IN FT	ELEV. IN FT
GROUND SURFACE	0	20.3 ~~19.4~~
—	—	—
0.20	20.10 ~~19.21~~	
—	—	—
1.0	19.3	
1.5	18.8	
2.0	18.3	
12.0	8.3	
14.0	6.3	

GENERALIZED GEOLOGIC LOG

SURFACE CASING: DIA.: 8" TYPE: Flush mount

TOP OF PROTECTIVE CASING

PROTECTIVE CASING: DIA.: TYPE:

TOP OF RISER CASING

BOTTOM OF SURFACE CASING

BACKFILL: Grout TYPE: Portland Type I

RISER CASING: DIA.: 2" TYPE: PVC sch 40

TOP OF SEAL

ANNULAR SEAL: TYPE: kontonite pellets

BOTTOM OF SEAL

TOP OF SCREEN

FILTER MATERIAL: Silica TYPE: 30/45 Sand

SCREEN: DIA.: 2" TYPE: PVC sch 40
OPENING WIDTH: 0.010 in TYPE: slotted

BOTTOM OF SCREEN

BOTTOM OF SUMP

BOTTOM OF HOLE

HOLE DIAMETER 11"

METHOD DRILLED: 6 1/4" ID HSA

METHOD DEVELOPED: 12 V DC whale pump

TIME DEVELOPED: 3-2-97
1025

COMMENTS:

GROUND WATER INSTALLATION		PROJECT: 728 CAPB	JOB NO. 619504	WELL NO. MW58
DRILLING CONTRACTOR: PSE		COORDINATES:		
BEGUN: 2/25/97	SUPERVISOR: D. Humphris	WELL SITE:	WATER LEVEL: DEPTH/ELEV. 4.42' / 14.98'	
FINISHED: 2/25/97	DRILLER: K. Durham			

REFERENCE POINT & ELEVATION:	DEPTH IN FT	ELEV. IN FT
GROUND SURFACE	0	19.4
GENERALIZED GEOLOGIC LOG SURFACE CASING: DIA.: TYPE: Flush mount TOP OF PROTECTIVE CASING PROTECTIVE CASING: DIA.: TYPE: TOP OF RISER CASING BOTTOM OF SURFACE CASING BACKFILL: Portland TYPE: I RISER CASING: DIA.: 2" TYPE: PVC sch 40 TOP OF SEAL ANNULAR SEAL: TYPE: bentonite pellets BOTTOM OF SEAL TOP OF SCREEN FILTER MATERIAL: Silica sand TYPE: 30/45 SCREEN: DIA.: 2" TYPE: PVC sch 40 OPENING WIDTH: 0.010 in TYPE: slotted BOTTOM OF SCREEN BOTTOM OF SUMP BOTTOM OF HOLE HOLE DIAMETER 11" 4.42' ± @ sampling		
	0.19	19.21
	0.5	18.9
	1.5	17.9
	2.0	17.4
	12.0	7.4
	14.0	5.4

METHOD DRILLED:

6 1/4" ID HSA

METHOD DEVELOPED:

12V DC Whale Pump

TIME DEVELOPED:

3-2-97

0935

COMMENTS:

GROUND WATER INSTALLATION		PROJECT: <i>728 CAP B</i>	JOB NO. <i>019504</i>	WELL NO. <i>MW59</i>
DRILLING CONTRACTOR: <i>PSI</i>		COORDINATES:		
BEGUN: <i>2/26/97</i>	SUPERVISOR: <i>D. Humphris</i>	WELL SITE:	WATER LEVEL: DEPTH/ELEV. <i>5.60' / 13.79'</i>	
FINISHED: <i>2/26/97</i>	DRILLER: <i>K. Durham</i>			

REFERENCE POINT & ELEVATION:	DEPTH IN FT	ELEV. IN FT
	0	19.4
	—	—
	0.16	19.24
	—	—
	1.0	18.4
	1.5	17.9
	2.0	17.4
	12.0	7.4
	—	—
	14.0	5.4

GENERALIZED GEOLOGIC LOG

Product 5.45'
W.L. 5.60'
3/31/97

GROUND SURFACE

SURFACE CASING: DIA.: 8" *Flush Mount*
TYPE: —

TOP OF PROTECTIVE CASING

PROTECTIVE CASING: DIA.: —
TYPE: —

TOP OF RISER CASING

BOTTOM OF SURFACE CASING

BACKFILL: *Portland* TYPE: *I*

RISER CASING: DIA.: 2"
TYPE: *PVC sch 40*

TOP OF SEAL

ANNULAR SEAL: TYPE: *bentonite pellets*

BOTTOM OF SEAL

TOP OF SCREEN

FILTER MATERIAL: *Silica Sand* TYPE: *30/45*

SCREEN: DIA.: 2" TYPE: *PVC sch 40*
OPENING WIDTH: *0.010 in* TYPE: *slotted*

BOTTOM OF SCREEN

BOTTOM OF SUMP

BOTTOM OF HOLE

HOLE DIAMETER 11"

COMMENTS:

METHOD DRILLED:

6 1/4" ID ASA

METHOD DEVELOPED:

12 V DC whale pump

TIME DEVELOPED:

3-2-97

1705

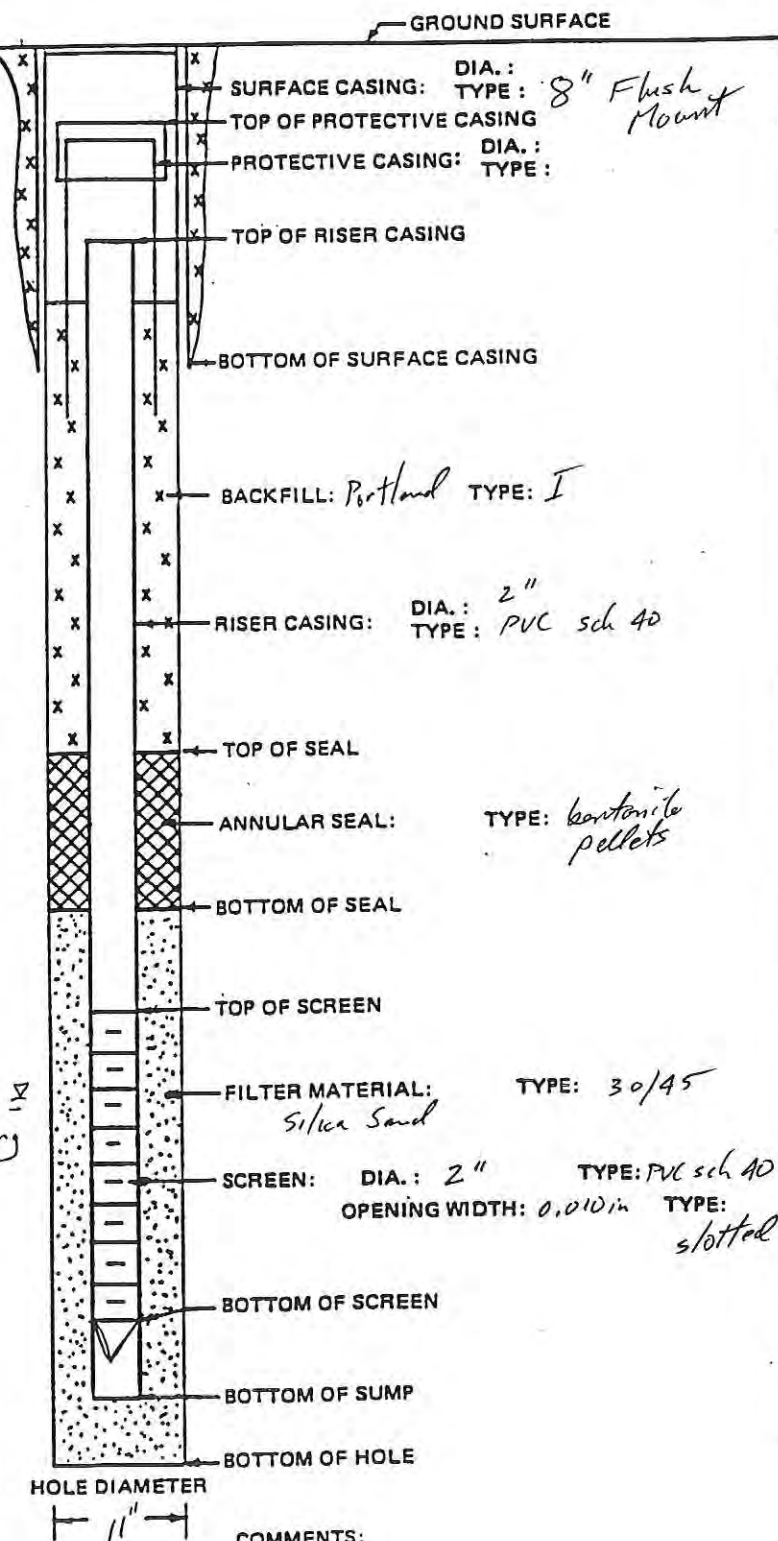
M&E
Metcalf & Eddy

GROUND WATER INSTALLATION		PROJECT: 728 CAP B	JOB NO. 019504	WELL NO. MW 60
DRILLING CONTRACTOR: PSI		COORDINATES:		
BEGUN: 2/26/97	SUPERVISOR: D. Humphris	WELL SITE:	WATER LEVEL: DEPTH/ELEV. 6.93' / 13.37'	
FINISHED: 2/26/97	DRILLER: K. Durham			

REFERENCE POINT & ELEVATION:

DEPTH IN FT	ELEV. IN FT
0	20.4'
—	—
0.10	20.30
—	—
1.0	19.4
2.0	18.4
3.0	17.4
13.0	7.4
—	—
15.0	5.4

GENERALIZED GEOLOGIC LOG



METHOD DRILLED:

6 1/4" ID HSA

METHOD DEVELOPED:

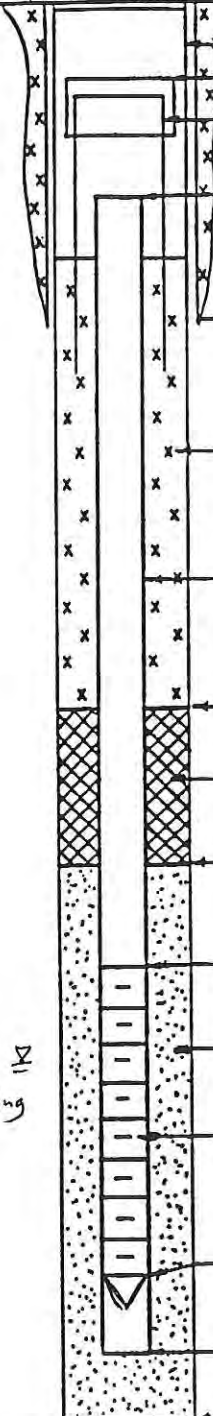
12 V DC whale pump

TIME DEVELOPED:

3-2-97
1150

COMMENTS:

GROUND WATER INSTALLATION		PROJECT: 728 CAP-B	JOB NO. 019504	WELL NO. MW61
DRILLING CONTRACTOR: PSI		COORDINATES:		
BEGUN: 2/26/97	SUPERVISOR: D. Humphris	WELL SITE:	WATER LEVEL: DEPTH/ELEV. 6.83' / 13.51'	
FINISHED: 2/26/97	DRILLER: K. Durham			

REFERENCE POINT & ELEVATION:	DEPTH IN FT	ELEV. IN FT
GROUND SURFACE	0	20.5
GENERALIZED GEOLOGIC LOG  SURFACE CASING: DIA.: 8" TYPE: Flush mount TOP OF PROTECTIVE CASING PROTECTIVE CASING: DIA.: TYPE: TOP OF RISER CASING BOTTOM OF SURFACE CASING BACKFILL: Portland TYPE: I RISER CASING: DIA.: 2" TYPE: PVC sch 40 TOP OF SEAL ANNULAR SEAL: TYPE: bentonite pellets BOTTOM OF SEAL TOP OF SCREEN FILTER MATERIAL: TYPE: 30/45 silica Sand SCREEN: DIA.: 2" TYPE: PVC sch 40 OPENING WIDTH: 0.010 in TYPE: slotted BOTTOM OF SCREEN BOTTOM OF SUMP BOTTOM OF HOLE HOLE DIAMETER 11"	—	—
	0.16	20.34
	—	—
	1.0	19.5
	2.0	18.5
	3.0	17.5
	13.0	7.5
	—	—
	15.0	5.5

METHOD DRILLED:
6 1/4" ID HSA

METHOD DEVELOPED:
12 V DC Whale Pump

TIME DEVELOPED:
3-2-97
1255

6.83' ± @ sampling

COMMENTS:

GROUND WATER INSTALLATION		PROJECT: 728 CAPB	JOB NO. 019504	WELL NO. MW 62
DRILLING CONTRACTOR: PSI		COORDINATES:		
BEGUN: 2/27/97	SUPERVISOR: D. Humphris	WELL SITE:	WATER LEVEL: DEPTH/ELEV. 6.57' / 13.22'	
FINISHED: 2/27/97	DRILLER: K. Durham			

REFERENCE POINT & ELEVATION:		DEPTH IN	ELEV. IN
GROUND SURFACE		0	19.9
		—	—
		0.11	19.79
		—	—
		1.0	18.9
		2.0	17.9
		3.0	16.9
		13.0	6.9
		—	—
		15.0	4.9

GENERALIZED GEOLOGIC LOG

METHOD DRILLED:
6 1/4" ID HSA

METHOD DEVELOPED:
12 V DC Whirl Pump

TIME DEVELOPED:
3-3-97
1550

COMMENTS:

GROUND WATER INSTALLATION		PROJECT: 728 CAP 13	JOB NO. 019504	WELL NO. MW63
DRILLING CONTRACTOR: PSI		COORDINATES:		
BEGUN: 2/26/97	SUPERVISOR: D. Humphris	WELL SITE:	WATER LEVEL: DEPTH/ELEV. 7.05' / 13.10'	
FINISHED: 2/26/97	DRILLER: K. Durham			

REFERENCE POINT & ELEVATION:	DEPTH IN FT	ELEV. IN FT
GROUND SURFACE	0	20.3
—	—	—
0.15	20.15	
—	—	
1.0	19.3	
2.0	18.3	
4.0	16.3	
14.0	6.3	
—	—	
15.0	5.3	

GENERALIZED GEOLOGIC LOG

SURFACE CASING: DIA.: 8" TYPE: Flush mount
 TOP OF PROTECTIVE CASING
 PROTECTIVE CASING: DIA.: TYPE:
 TOP OF RISER CASING
 BOTTOM OF SURFACE CASING
 BACKFILL: Portland TYPE: I
 RISER CASING: DIA.: 2" TYPE: PVC sch 40
 TOP OF SEAL
 ANNULAR SEAL: TYPE: bentonite pellets
 BOTTOM OF SEAL
 TOP OF SCREEN
 FILTER MATERIAL: silica sand TYPE: 30/45
 SCREEN: DIA.: 2" TYPE: PVC sch 40
 OPENING WIDTH: 0.010 in TYPE: slotted
 BOTTOM OF SCREEN
 BOTTOM OF SUMP
 BOTTOM OF HOLE
 HOLE DIAMETER 11"

7.05' ± @ Sampling

METHOD DRILLED: 6 1/4" IDHSA

METHOD DEVELOPED: 12 V DC Whale Pump

TIME DEVELOPED: 3-2-97 145B

COMMENTS:

GROUND WATER INSTALLATION		PROJECT: <i>B.728 - CAPB</i>	JOB NO. <i>019504</i>	WELL NO. <i>MW 64</i>
DRILLING CONTRACTOR: <i>PSI</i>		COORDINATES:		
BEGUN: <i>2/21/97</i>	SUPERVISOR: <i>D. Humphris</i>	WELL SITE:		WATER LEVEL: DEPTH/ELEV. <i>5.65' / 13.33'</i>
FINISHED: <i>2/27/97</i>	DRILLER: <i>K. Durham</i>			

REFERENCE POINT & ELEVATION:		DEPTH IN FT	ELEV. IN FT
GROUND SURFACE		0	19.1
—		—	—
0.12		18.98	
—		—	
1.0		18.1	
2.0		17.1	
3.0		16.1	
13.0		6.1	
—		—	
15.0		4.1	

**GENERALIZED
GEOLOGIC LOG**

DIA.: 8" *Flush mount*

TYPE:

DIA.: TYPE:

DIA.: TYPE:

DIA.: TYPE:

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METHOD DRILLED:
6 1/4" ID HSA

METHOD DEVELOPED:
12 V DC whale Pump

TIME DEVELOPED:
3-2-97
1550

HOLE DIAMETER
11"

COMMENTS:

GROUND WATER INSTALLATION		PROJECT: 728 CAPB	JOB NO. 019504	WELL NO. MW65
DRILLING CONTRACTOR: PSI		COORDINATES:		
BEGUN: 2/28/97	SUPERVISOR: D. Humphris	WELL SITE:	WATER LEVEL: DEPTH/ELEV. 7.04' / 11.37'	
FINISHED: 2/28/97	DRILLER: K. Durham			

REFERENCE POINT & ELEVATION:	DEPTH IN FT	ELEV. IN FT
GROUND SURFACE	0	18.6'
GENERALIZED GEOLOGIC LOG SURFACE CASING: DIA.: 8" TYPE: Flush mount TOP OF PROTECTIVE CASING PROTECTIVE CASING: DIA.: TYPE: TOP OF RISER CASING BOTTOM OF SURFACE CASING BACKFILL: portland TYPE: I RISER CASING: DIA.: 2" TYPE: PVC sch 40 TOP OF SEAL ANNULAR SEAL: TYPE: bentonite pellets BOTTOM OF SEAL TOP OF SCREEN FILTER MATERIAL: Silica Sand TYPE: 30/45 SCREEN: DIA.: 2" TYPE: PVC sch 40 OPENING WIDTH: 0.010 in TYPE: slotted BOTTOM OF SCREEN BOTTOM OF SUMP BOTTOM OF HOLE	0.19	18.41
	1.0	17.6
	2.0	16.6
	3.0	15.6
	13.0	5.6
	15.0	3.6

METHOD DRILLED:
6 1/4" ID HSA

METHOD DEVELOPED:
12 v DC whale pump

TIME DEVELOPED:
3-3-97

1130

HOLE DIAMETER
11"

COMMENTS:

7.04' ±
(@ sampling)

GROUND WATER INSTALLATION		PROJECT: 728 CAPB	JOB NO. 019504	WELL NO. MW 66
DRILLING CONTRACTOR: PSI		COORDINATES:		
BEGUN: 2/27/97	SUPERVISOR: D. Humphreys	WELL SITE:	WATER LEVEL: DEPTH/ELEV. 4.12' / 14.48'	
FINISHED: 2/28/97	DRILLER: K. Durham			

REFERENCE POINT & ELEVATION:		DEPTH IN FT.	ELEV. FT.
GROUND SURFACE		0	18.8
SURFACE CASING: DIA.: 8" TYPE: Flush Mount		—	—
TOP OF PROTECTIVE CASING		0.20	18.60
PROTECTIVE CASING: DIA.: TYPE:		—	—
TOP OF RISER CASING		—	—
BOTTOM OF SURFACE CASING		—	—
BACKFILL: Portland TYPE: I		29.8	-11.0
RISER CASING: DIA.: 2" TYPE: PVC sch 40		32.3	-13.5
TOP OF SEAL		35.6	-16.8
ANNULAR SEAL: TYPE: bentonite pellets		—	—
BOTTOM OF SEAL		40.5	-21.7
TOP OF SCREEN		—	—
FILTER MATERIAL: TYPE: 30/45 Silica Sand		—	—
SCREEN: DIA.: 2" TYPE: PVC sch 40		—	—
OPENING WIDTH: 0.010 in TYPE: slotted		42.0	-23.2
BOTTOM OF SCREEN		—	—
BOTTOM OF SUMP		—	—
BOTTOM OF HOLE		—	—

GENERALIZED GEOLOGIC LOG

4.02' ± @ sampling

METHOD DRILLED: 6 1/4" ID. HSA

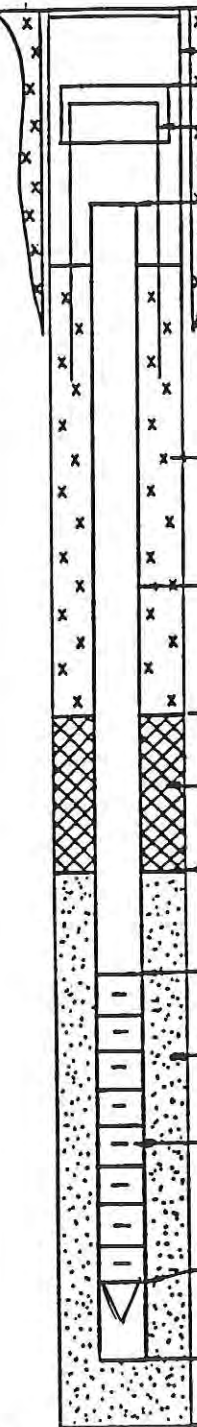
METHOD DEVELOPED: 12 VDC whale pump

TIME DEVELOPED: 3-3-97
1125

HOLE DIAMETER 11"

COMMENTS:

GROUND WATER INSTALLATION		PROJECT: 728 CAPB	JOB NO. 019504	WELL NO. MW67
DRILLING CONTRACTOR: PSI		COORDINATES:		
BEGUN: 2/28/97	SUPERVISOR: D. Humphris	WELL SITE:		WATER LEVEL: DEPTH/ELEV. 6.62' / 12.20'
FINISHED: 3/1/97	DRILLER: K. Durham			

REFERENCE POINT & ELEVATION:	DEPTH IN FT	ELEV. IN FT
GROUND SURFACE	0	19.0
GENERALIZED GEOLOGIC LOG 6.62' ± @ sampling  SURFACE CASING: DIA.: TYPE: <i>Flush mount</i> TOP OF PROTECTIVE CASING PROTECTIVE CASING: DIA.: TYPE: TOP OF RISER CASING BOTTOM OF SURFACE CASING BACKFILL: <i>Portland</i> TYPE: <i>I</i> RISER CASING: DIA.: 2" TYPE: <i>PVC sch 40</i> TOP OF SEAL ANNULAR SEAL: TYPE: <i>barfonite</i> BOTTOM OF SEAL TOP OF SCREEN FILTER MATERIAL: <i>Silica Sand</i> TYPE: <i>30/45</i> SCREEN: DIA.: 2" TYPE: <i>PVC sch 40</i> OPENING WIDTH: 0.010in TYPE: <i>slotted</i> BOTTOM OF SCREEN BOTTOM OF SUMP BOTTOM OF HOLE HOLE DIAMETER 11"	—	—
	0.18	18.82
	—	—
	27.6	-8.6
	30.0	-11.0
	33.0	-14.0
	38.0	-19.0
	40.0	-21.0

METHOD DRILLED:
6 1/4" ID HSA

METHOD DEVELOPED:
12 V DC whale Pump

TIME DEVELOPED:
3-3-97
1420

COMMENTS:



M&E
Metcalf & Eddy

METHOD OF DEVELOPMENT: 12 VDC Whistle Pump

STATIC WATER LEVEL: 2.60 ft

$$35 \text{ gal} + \begin{array}{r} \text{TD-12.0} \\ -2.6 \\ \hline 9.4 \end{array} \times 8 = 75.2 = 110 \text{ gal.}$$
PG. / OF /

MONITORING WELL DEVELOPMENT

WELL I.D. NO.: MW 56

METHOD OF DEVELOPMENT: 12V DC Whistle Pump

DATE: 3/1/97

STATIC WATER LEVEL: 4.11 ft

LOGGED BY: D. Humphris

$$\frac{TD - 11.4}{4.1} \times 8 = 58.4 \text{ gal}$$
[illegible]

TOTAL DEVELOPMENT TIME: 3:07

TOTAL VOLUME PURGED: 59 gal.

COMMENTS V. slow recharge
Wait 3 min = 1 gal output

METHOD OF DEVELOPMENT: 12 V DC Whale Pump

STATIC WATER LEVEL: 4.74 ft

$$13 \text{ Gal} + \frac{TD - 12.0}{4.7} = \frac{7.3}{7.3} \times 8 = 58.4 + 13 = 71.4$$
[illegible]

TOTAL DEVELOPMENT TIME: 1:25

TOTAL VOLUME PURGED: 140 gal

COMMENTS HC odor

METHOD OF DEVELOPMENT: Whale Pump

STATIC WATER LEVEL: TOC 4.02 ft

$$10 \text{ gal} + \frac{TD - 12.0}{\frac{4.0}{80'}} \times 8 = 64 + 10 = 74 \text{ gal}$$
PG. 1 OF 1

MONITORING WELL DEVELOPMENT

WELL I.D. NO.: MW 59

METHOD OF DEVELOPMENT: 12V DC Whale Pump

DATE: 3/2/97

STATIC WATER LEVEL: 5.26 TDC

LOGGED BY: D. Humphreys

$$13 \text{ gal} + \frac{TD - 12.0}{5.3} \times 8 = 53.6 + 13 = 67 \text{ gal}$$
[illegible]

TOTAL DEVELOPMENT TIME: 1:29

TOTAL VOLUME PURGED: 110 Gal.

COMMENTS Strong HC odor

M&E
Metcalf & Eddy

METHOD OF DEVELOPMENT: Whale Pump

STATIC WATER LEVEL: 6.65' TOC

13 gal + $\frac{TD - 13.0}{6.3} \times 8 = 50.4 + 13 = 63 \text{ gal}$

PG. 1 OF 1

METHOD OF DEVELOPMENT: 12VDC Whale Pump

STATIC WATER LEVEL: 6.55' TOC

13 gal + $\frac{TD-13.0}{6.6}$
 $\frac{6.4}{6.6} \times 8 = 51 + 13 = 64 \text{ gal}$

TOTAL DEVELOPMENT TIME: 1:40

TOTAL VOLUME PURGED: 155 GAL

COMMENTS H/C odor

MONITORING WELL DEVELOPMENT

WELL I.D. NO.: MW 62

METHOD OF DEVELOPMENT: Whale Pump

DATE: 3/3/97

STATIC WATER LEVEL: TOC 5.64 ft

LOGGED BY: Daniel Howard

13 Gal + 7.4' Column
x 8 - 59 = 72 Gal

[illegible]

TOTAL DEVELOPMENT TIME: 2 hr 43 min

TOTAL VOLUME PURGED: 90 gal

COMMENTS petroleum odor

MONITORING WELL DEVELOPMENT

WELL I.D. NO.: MW 63

METHOD OF DEVELOPMENT: 12V DC whole Pump

DATE: 3/2/97

STATIC WATER LEVEL: 6.85' TOC

LOGGED BY: D. Humphris

$$13 \text{ gal} \quad \begin{array}{r} \text{TD} - 14.0 \\ 6.9 \\ \hline 7.1 \end{array} \times 8 = 56.8 + 13 = 70 \text{ gal}$$
[illegible]

TOTAL DEVELOPMENT TIME: 1:07

TOTAL VOLUME PURGED: 106 gal

COMMENTS HC odor

MONITORING WELL DEVELOPMENT

WELL I.D. NO.: MW 64

METHOD OF DEVELOPMENT: Whale Pump

DATE: 3/2/97

STATIC WATER LEVEL: 5.30' TO C

LOGGED BY: Daniel Howard

$$13 \text{ gal} + \frac{TD = 13.0}{5.3} \times 8 = 62 + 13 = 75 \text{ gal}$$
[illegible]

TOTAL DEVELOPMENT TIME: 2 hr 11 min

TOTAL VOLUME PURGED: 140 gal

COMMENTS _____

MONITORING WELL DEVELOPMENT



WELL I.D. NO.: MW65

METHOD OF DEVELOPMENT: Whale Pump

DATE: 3/3/97

STATIC WATER LEVEL: TOC 6.86 ft

LOGGED BY: Daniel Howard

5 vol = 49 gal

SAMPLE NO.	TIME	PARAMETERS				PUMPING RATE (gpm)	VOLUME PUMPED (gal)	PHOTO TAKEN	OBSERVATIONS
		TEMP (°F)	pH	CONDY (umhos)	TURBIDITY (NTU)				
1	0827	71.7	6.18	191	NA	1.75	2.5	No	surged at 0 + 2.5
2	0841	71.1	5.90	201			5.0		surged
3	0849	71.2	6.05	189			2.5		surged
4	0856	71.0	6.08	184			10		surged
5	0905	71.1	6.04	186			15		surged
6	0916	72.2	6.08	181			20		surged
7	0925	71.8	6.03	185			25		surged
8	0933	71.1	6.06	178			30		
9	0938	71.0	6.10	176			35		
10	0945	72.0	6.03	171			45		
11	0952	73.0	6.05	172			55		
12	1002	72.9	6.07	168			65		
13	1010	72.5	6.07	168			75		
14	1018	73.1	6.06	167			85		surged
15	1028	73.3	6.04	171			95		
16	1035	73.2	6.02	170			105		
17	1046	73.8	6.02	167			115		
18	1053	74.0	5.99	167			125		clearing
19	1104	74.0	6.02	168			135		clearing
20	1117	74.1	6.05	163			145		clearing
21	1125	73.4	5.99	164			155		clearing no sediment
22	1130	72.9	5.93	162			160	Yes	clean

TOTAL DEVELOPMENT TIME: 3 hr 3 min

TOTAL VOLUME PURGED: 160 gal

COMMENTS _____

MONITORING WELL DEVELOPMENT

WELL I.D. NO.: MW 66

METHOD OF DEVELOPMENT: Ground for 2" submers.

DATE: 3/3/97

STATIC WATER LEVEL: TOC 3.714

LOGGED BY: D. Humphreys

$$100 \text{ Gal} + 65.6 + 23 = 189 \text{ Gal}$$
[illegible]

TOTAL DEVELOPMENT TIME: 2:07

TOTAL VOLUME PURGED: 189

COMMENTS Cleared up quickly

METHOD OF DEVELOPMENT: *Ground for 2" submers.*

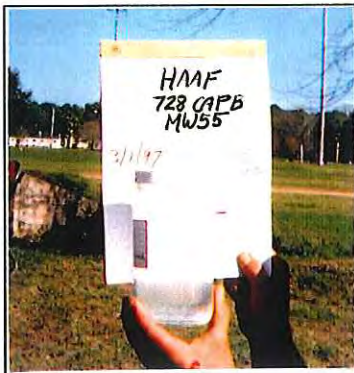
STATIC WATER LEVEL: TOC 5.83 ft

$$150 \text{ Gal} + 64 \text{ Gal} + 19 = 233 \text{ Gal}$$
[illegible]

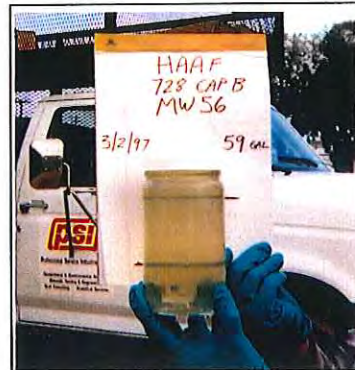
TOTAL DEVELOPMENT TIME: 2:14

TOTAL VOLUME PURGED: 233 Gal

COMMENTS _____



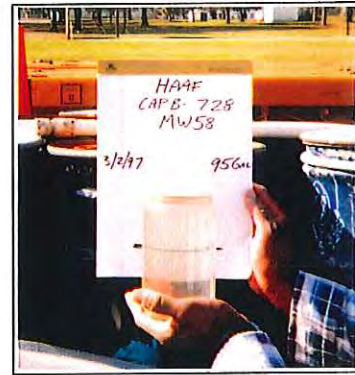
MW55



MW56



MW57



MW58

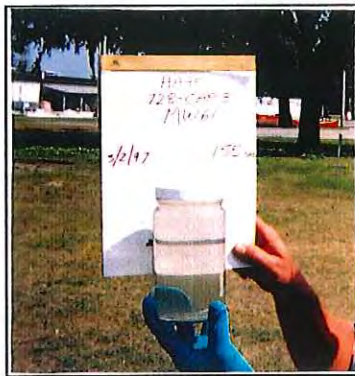


MW59

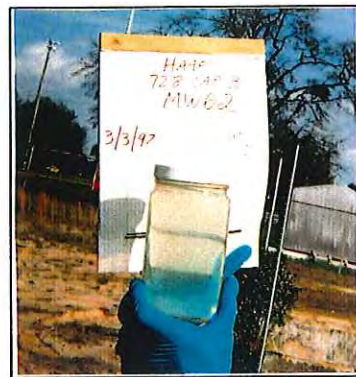


MW60

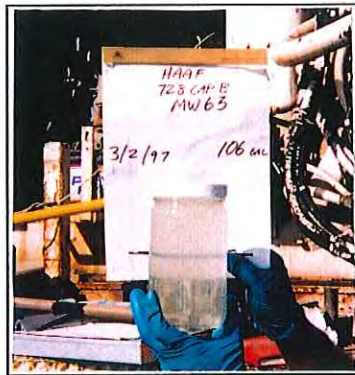
**HAAF BUILDING 728 CAP-B
Monitoring Well Development Photographs**



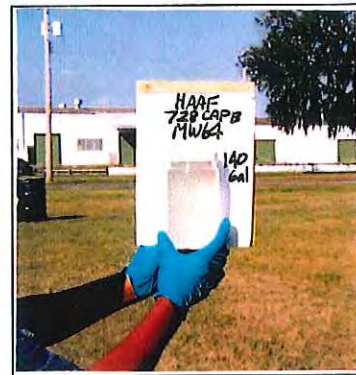
MW61



MW62



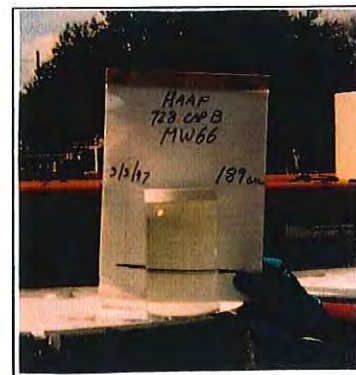
MW63



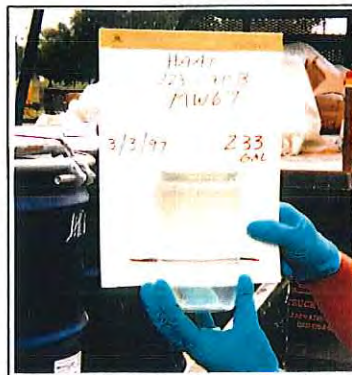
MW64



MW65



MW66

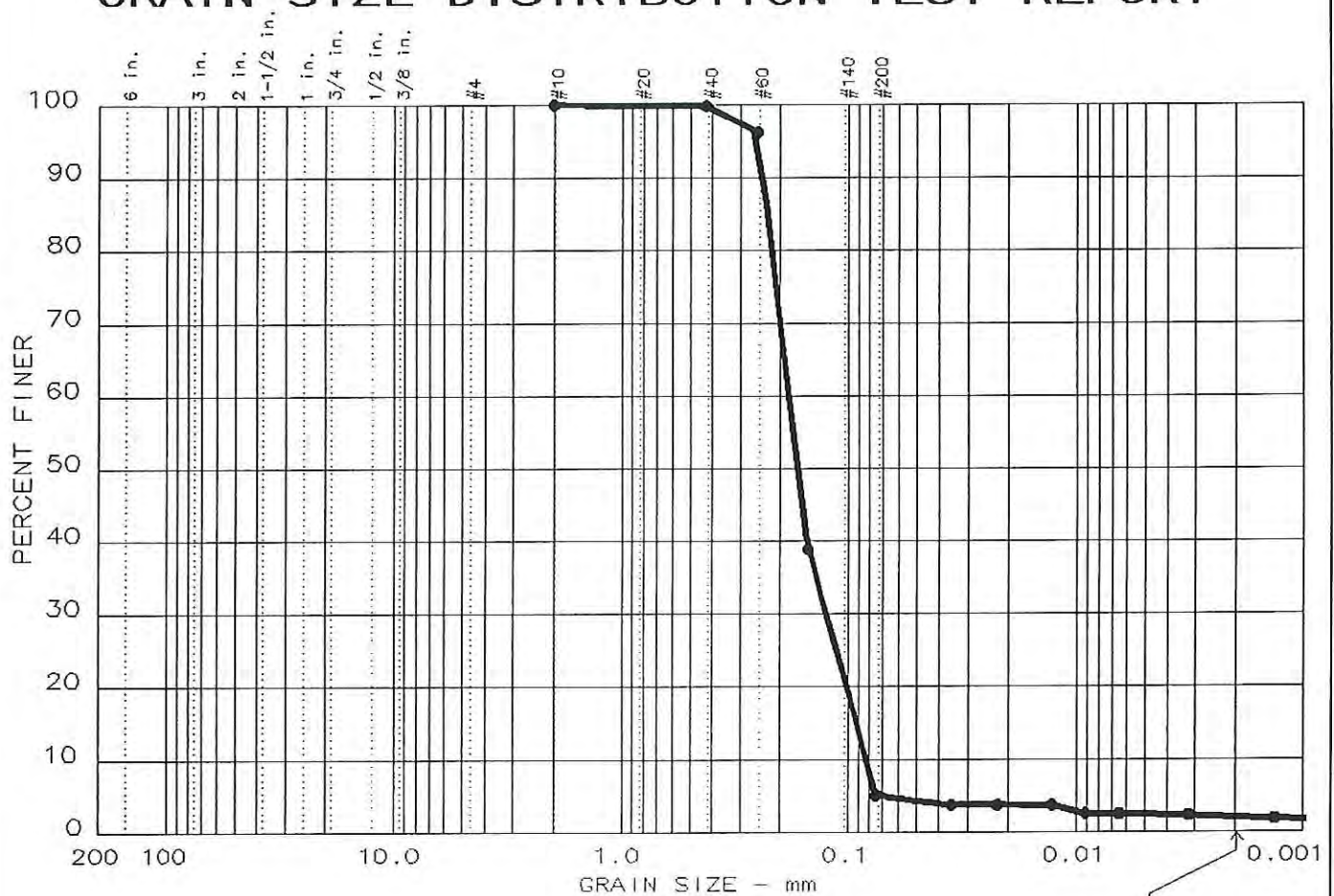


MW67

**HAAF BUILDING 728 CAP-B
Monitoring Well Development Photographs**

APPENDIX D
GEOTECHNICAL DATA
AND
AQUIFER ANALYSIS DATA

GRAIN SIZE DISTRIBUTION TEST REPORT



Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY
14	0.0	0.0	94.9	3.0	2.1

LL	PI	D ₈₅	D ₆₀	D ₅₀	D ₃₀	D ₁₅	D ₁₀	C _c	C _u
NP	NP	0.23	0.18	0.17	0.125	0.0917	0.0827	1.03	2.2

MATERIAL DESCRIPTION	USCS	AASHTO
	SP-SM	A-3

Project No.: 019504
 Project: HUNTER 5
 • Location: STA. MW55, 8' - 10'
 Date: 03-25-97

Remarks:
 TESTED BY:DM/JC
 CHECKED BY:D.MOORE
 NMC = 24.3%

GRAIN SIZE DISTRIBUTION TEST REPORT
 PROFESSIONAL SERVICE INDUSTRIES, INC.

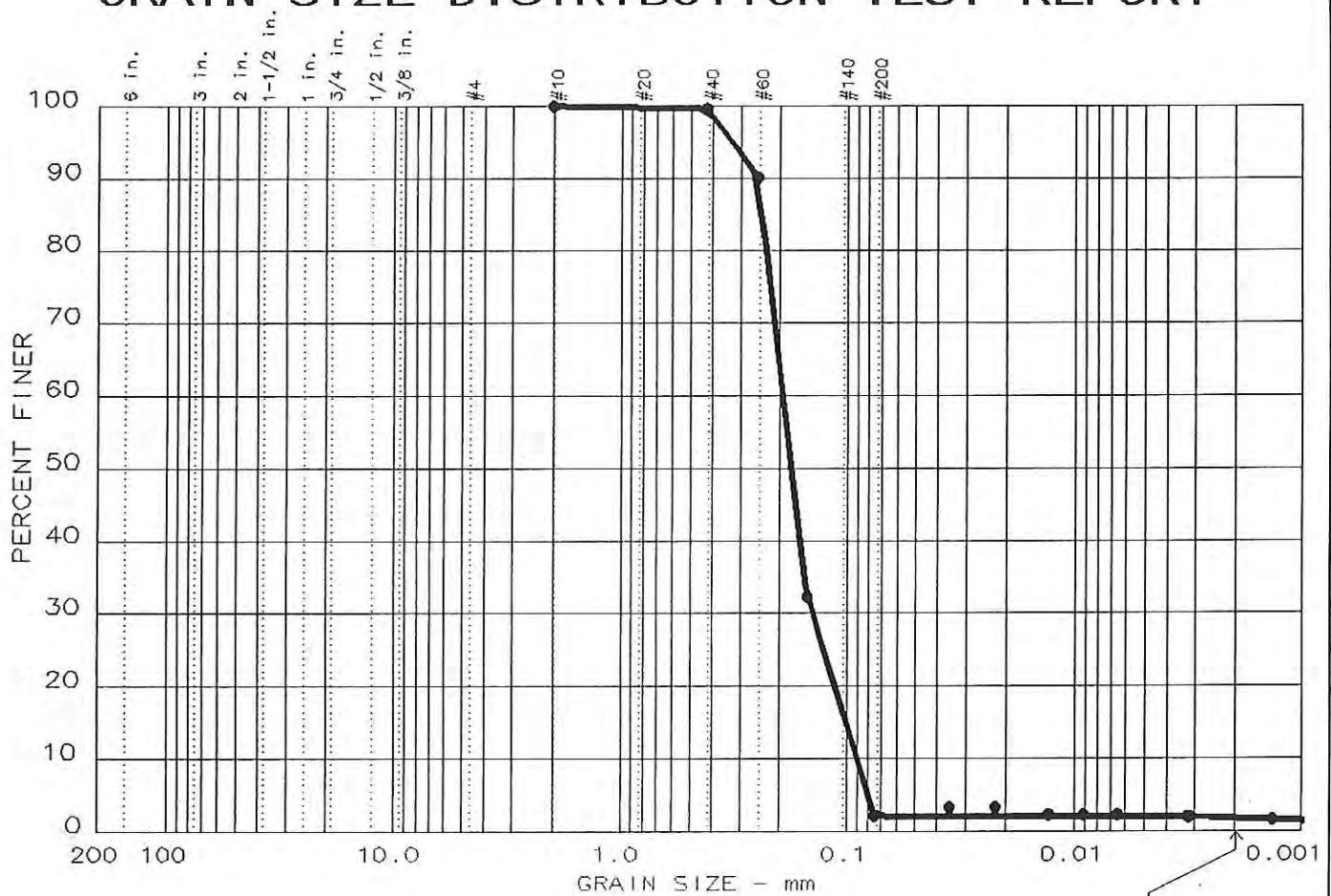
Figure No. _____

Grain size distribution curve for a soil sample. The graph plots Percent Finer (0 to 100) against Grain Size in mm (logarithmic scale from 200 to 0.0075). The curve shows a well-graded soil with a peak at 60% finer for 0.6 mm and 40% finer for 0.425 mm. The curve is labeled with sieve numbers: #10, #20, #40, #60, #140, and #200.

[illegible]

Project No.: 019504 Project: HUNTER 5 • Location: STA. MW56, 8' - 10' Date: 03-25-97	Remarks: TESTED BY:DM/JC CHECKED BY:D.MOORE NMC = 20.5% Figure No. _____
GRAIN SIZE DISTRIBUTION TEST REPORT PROFESSIONAL SERVICE INDUSTRIES, INC.	

GRAIN SIZE DISTRIBUTION TEST REPORT



The graph displays the grain size distribution of a soil sample. The vertical axis represents the percentage of soil finer than a given grain size, ranging from 0 to 100. The horizontal axis represents the grain size in millimeters on a logarithmic scale, ranging from 200 mm down to 0.0075 mm. The curve shows that approximately 95% of the soil is finer than 0.425 mm, and about 8% is finer than 0.075 mm. The soil is classified as well-graded based on the shape of the curve.

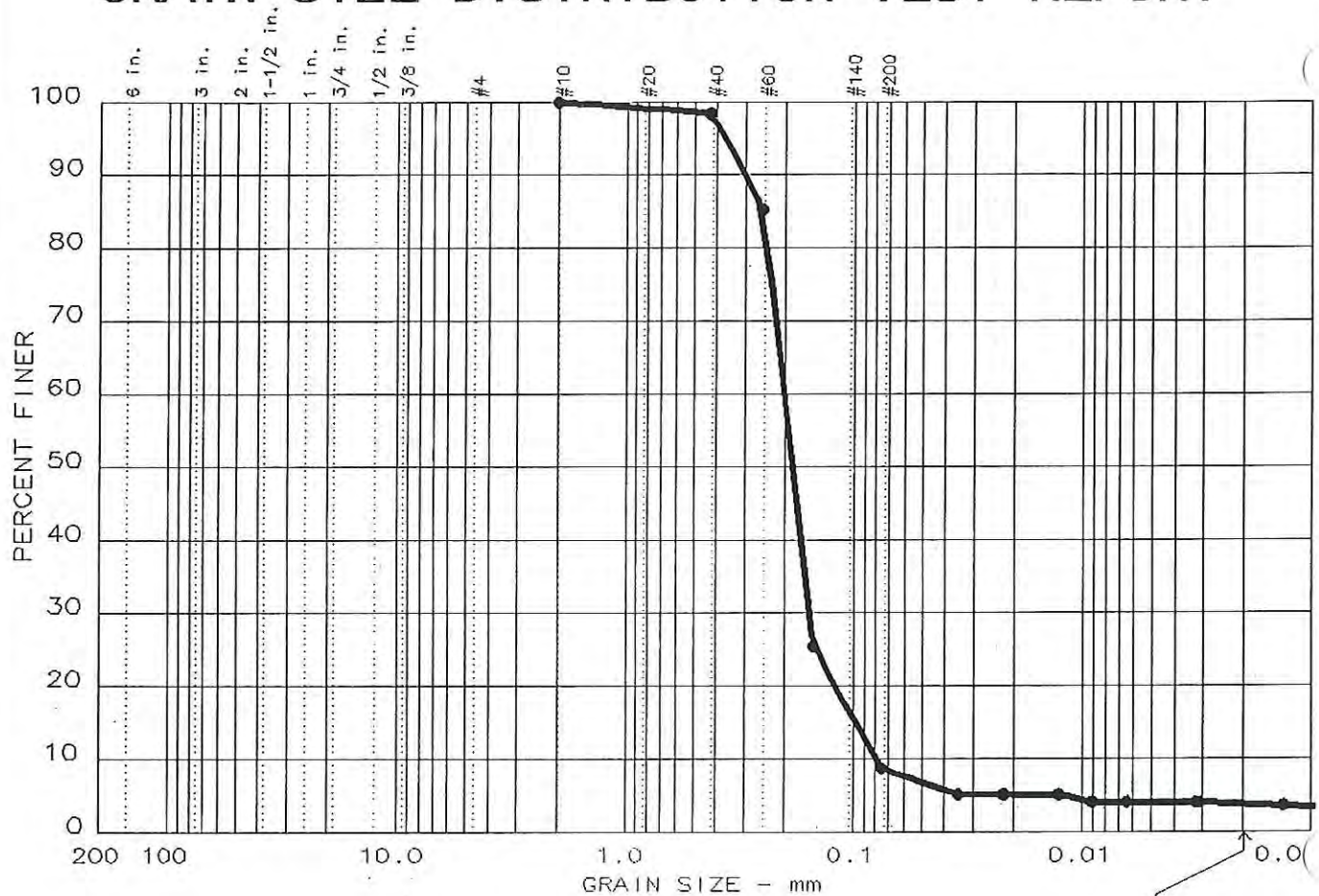
Grain Size (mm)	Percent Finer (%)
200	100
100	100
60	100
40	100
20	100
10	100
4.75	95
2.5	95
1.18	95
0.85	95
0.60	95
0.425	85
0.30	60
0.25	40
0.20	20
0.15	10
0.10	8
0.075	8
0.060	7
0.050	6
0.040	5
0.030	4
0.025	3
0.020	3
0.015	3
0.010	3
0.0075	3

Figure No. _____

Grain size distribution curve for Test Report No. 1. The curve shows a sharp drop between 0.1 mm and 0.075 mm, indicating a well-graded material. Key sieve sizes are marked at the top: 6 in., 3 in., 2 in., 1-1/2 in., 1 in., 3/4 in., 1/2 in., 3/8 in., #4, #10, #20, #40, #60, #140, #200.

Project No.: 019504 Project: HUNTER 5 • Location: STA. MW 59, 8' - 10' Date: 03-17-97	Remarks: TESTED BY:AW/DM CHECKED BY:D.MOORE NMC = 23.7%
GRAIN SIZE DISTRIBUTION TEST REPORT PROFESSIONAL SERVICE INDUSTRIES, INC.	
Figure No. _____	

GRAIN SIZE DISTRIBUTION TEST REPORT



Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY
● 15	0.0	0.0	91.3	4.8	3.9

LL	PI	D ₈₅	D ₆₀	D ₅₀	D ₃₀	D ₁₅	D ₁₀	C _c	C _u
● NP	NP	0.25	0.20	0.18	0.156	0.0973	0.0791	1.53	2.5

MATERIAL DESCRIPTION	USCS	AASHTO
●	SP-SM	A-3

Project No.: 019504
 Project: HUNTER 5
 ● Location: STA. MW60, 8' - 10'

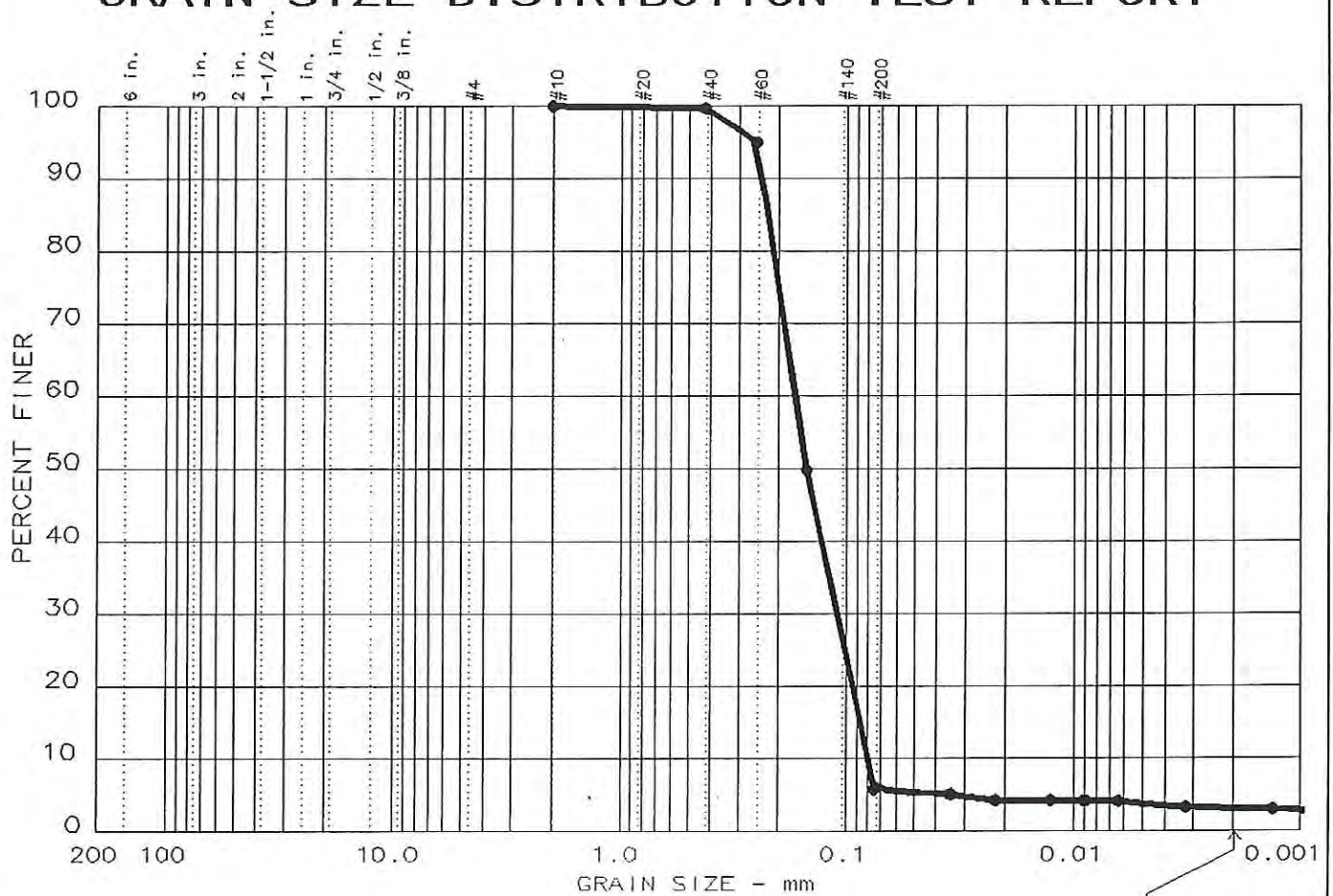
Date: 03-25-97

GRAIN SIZE DISTRIBUTION TEST REPORT
 PROFESSIONAL SERVICE INDUSTRIES, INC.

Remarks:
 TESTED BY: DM/JC
 CHECKED BY: D. MOORE
 NMC = 20.6%

Figure No. _____

GRAIN SIZE DISTRIBUTION TEST REPORT



Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY
● 19	0.0	0.0	94.2	2.7	3.1

	LL	PI	D ₈₅	D ₆₀	D ₅₀	D ₃₀	D ₁₅	D ₁₀	C _c	C _u
●	NP	NP	0.22	0.17	0.15	0.110	0.0866	0.0799	0.89	2.1

MATERIAL DESCRIPTION	USCS	AASHTO
●	SP-SM	A-3

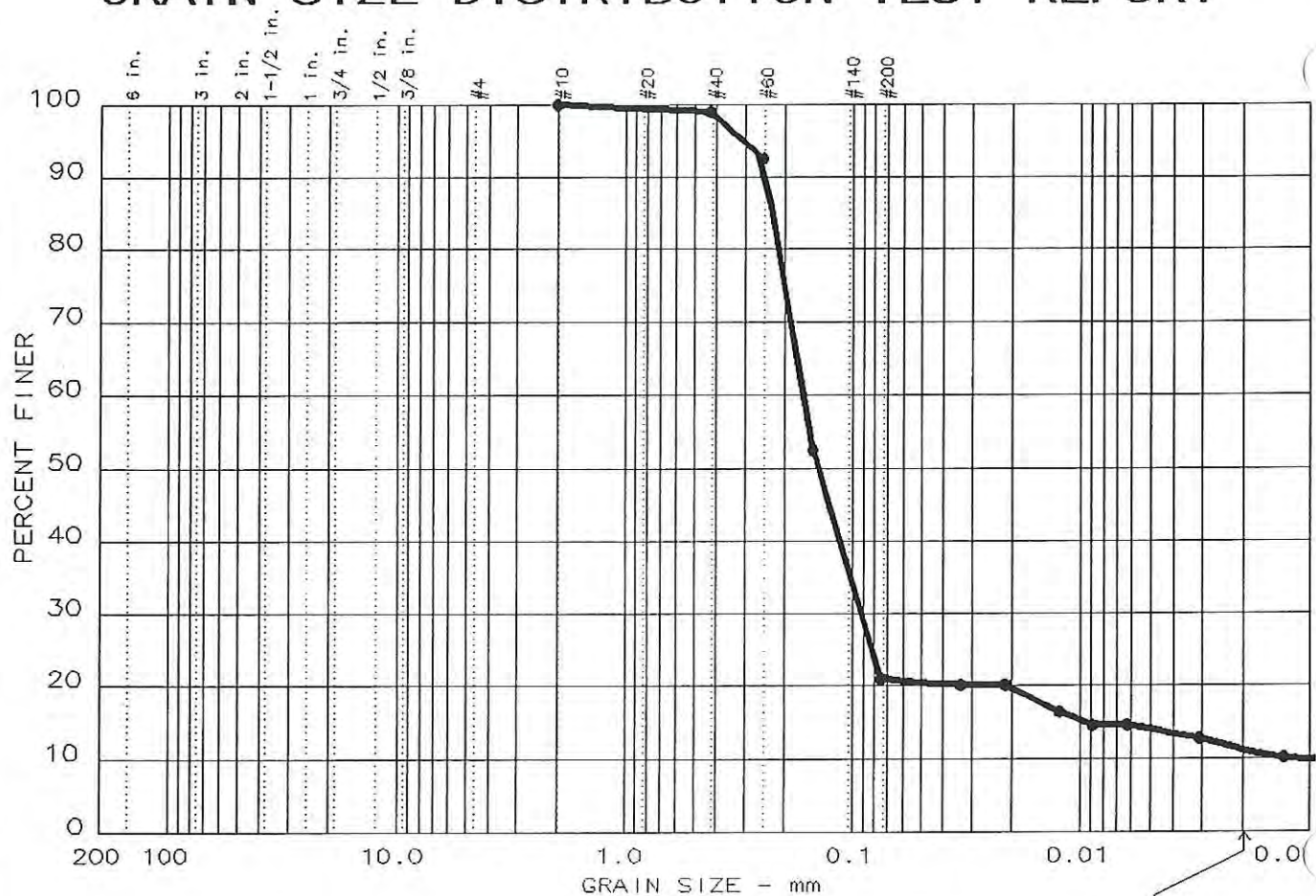
Project No.: 019504
 Project: HUNTER 5
 ● Location: STA. MW61, 13' - 15'
 Date: 03-25-97

Remarks:
 TESTED BY:DM/JC
 CHECKED BY:D.MOORE
 NMC = 26.7%

GRAIN SIZE DISTRIBUTION TEST REPORT
 PROFESSIONAL SERVICE INDUSTRIES, INC.

Figure No. _____

GRAIN SIZE DISTRIBUTION TEST REPORT



Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY
● 16	0.0	0.0	79.1	9.6	11.3

LL	PI	D ₈₅	D ₆₀	D ₅₀	D ₃₀	D ₁₅	D ₁₀	C _c	C _u
● NP	NP	0.23	0.17	0.14	0.091	0.0093	0.0010	48.42	160.3

MATERIAL DESCRIPTION	USCS	AASHTO
●	SM	A-2-4

Project No.: 019504
 Project: HUNTER 5
 ● Location: STA. MW62, 8' - 10'

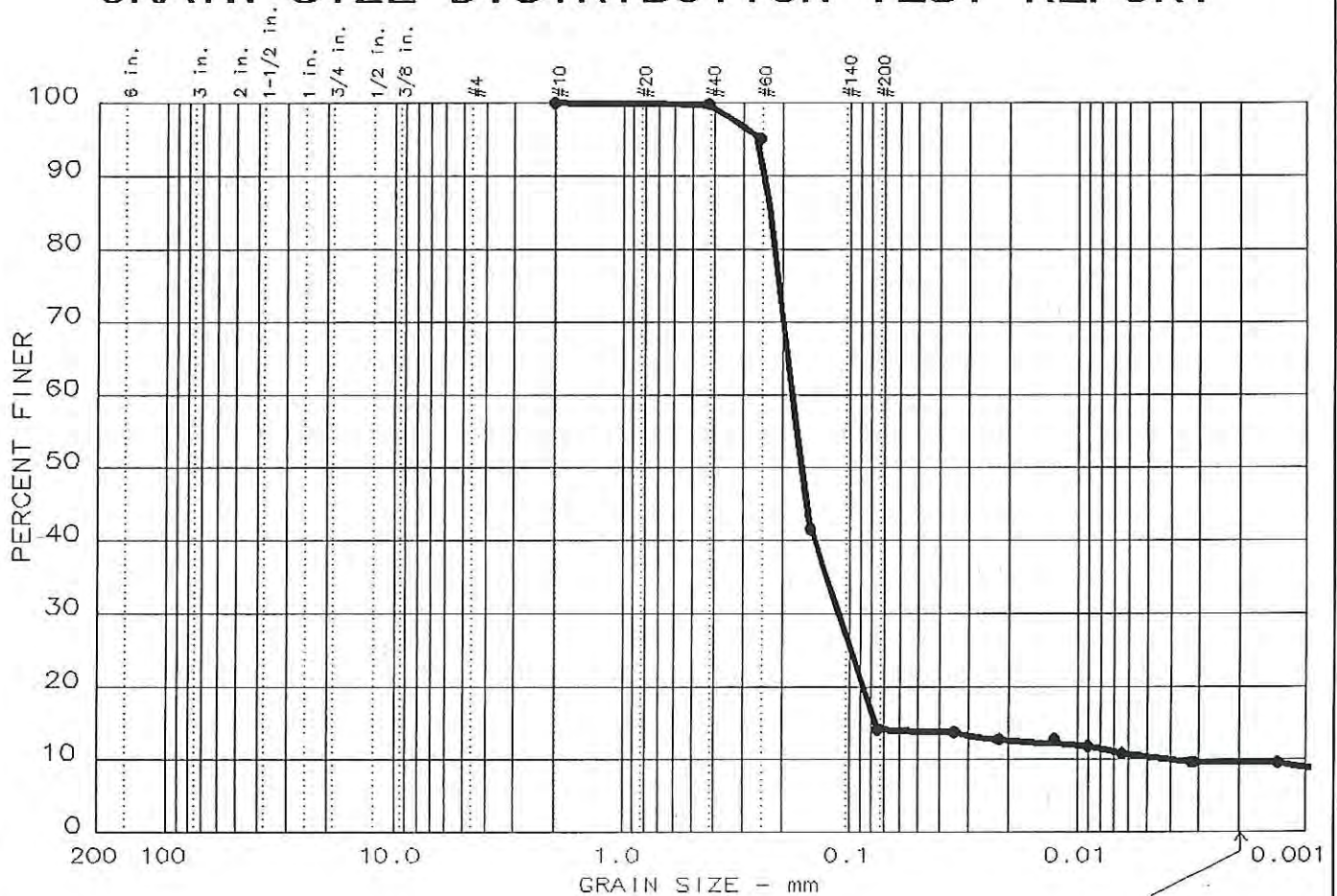
Date: 03-25-97

GRAIN SIZE DISTRIBUTION TEST REPORT
 PROFESSIONAL SERVICE INDUSTRIES, INC.

Remarks:
 TESTED BY: DM/JC
 CHECKED BY: D. MOORE
 NMC = 31.8%

Figure No. _____

GRAIN SIZE DISTRIBUTION TEST REPORT



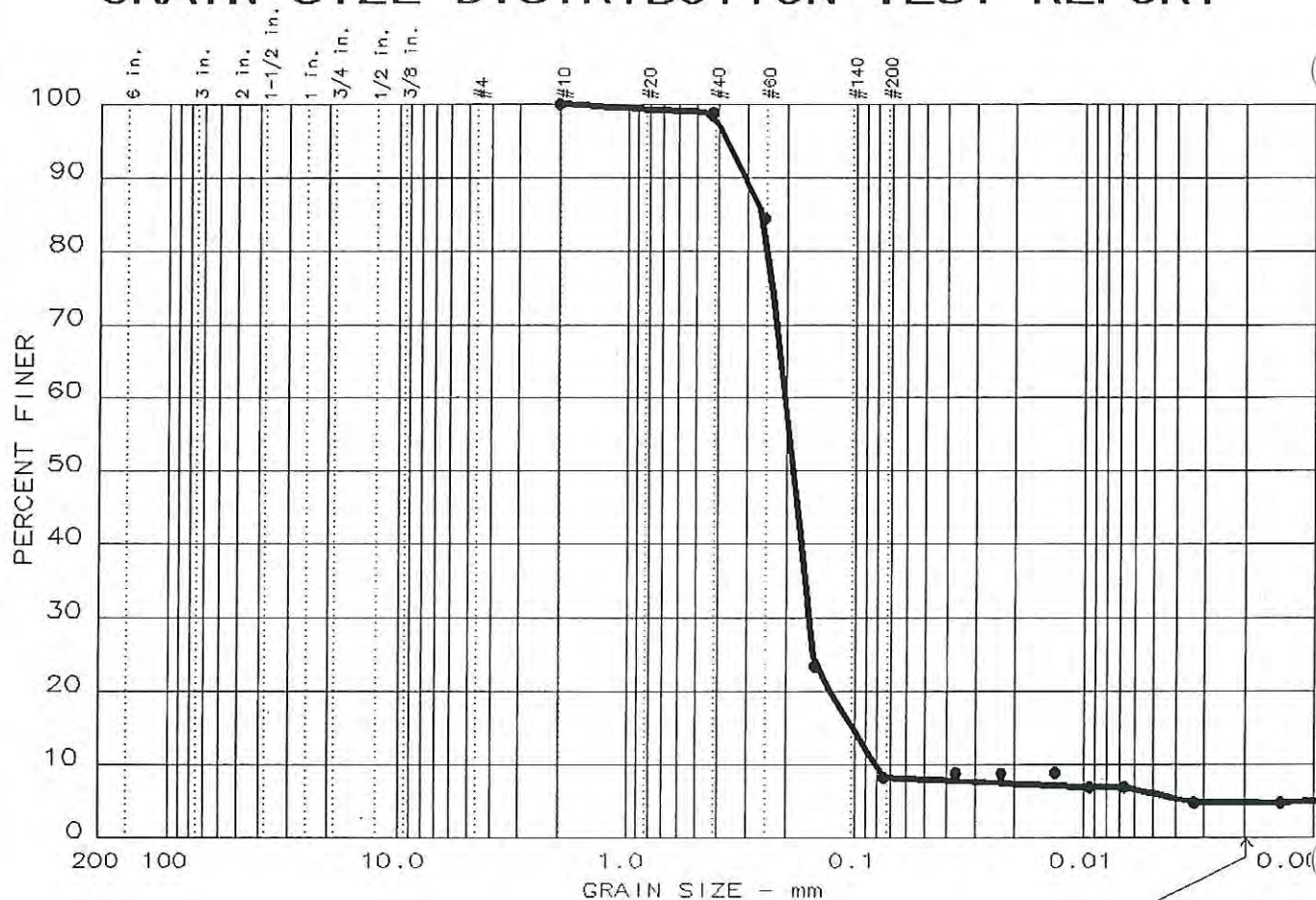
Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY
• 17	0.0	0.0	85.8	4.5	9.7

LL	PI	D ₈₅	D ₆₀	D ₅₀	D ₃₀	D ₁₅	D ₁₀	C _c	C _u
• NP	NP	0.23	0.18	0.16	0.112	0.0765	0.0036	19.08	50.1

MATERIAL DESCRIPTION	USCS	AASHTO
•	SM	A-2-4

Project No.: 019504 Project: HUNTER 5 • Location: STA. MW 63, 8' - 10' Date: 03-17-97	Remarks: TESTED BY:AW/DM CHECKED BY:D.MOORE NMC = 25.6% Figure No. _____
GRAIN SIZE DISTRIBUTION TEST REPORT PROFESSIONAL SERVICE INDUSTRIES, INC.	

GRAIN SIZE DISTRIBUTION TEST REPORT



Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY
● 20	0.0	0.0	91.7	3.4	4.9

LL	PI	D ₈₅	D ₆₀	D ₅₀	D ₃₀	D ₁₅	D ₁₀	C _c	C _u
● NP	NP	0.26	0.20	0.19	0.158	0.1010	0.0811	1.52	2.5

MATERIAL DESCRIPTION	USCS	AASHTO
●	SP-SM	A-3

Project No.: 019504
 Project: HUNTER 5
 ● Location: STA. MW 64, 8' - 10'

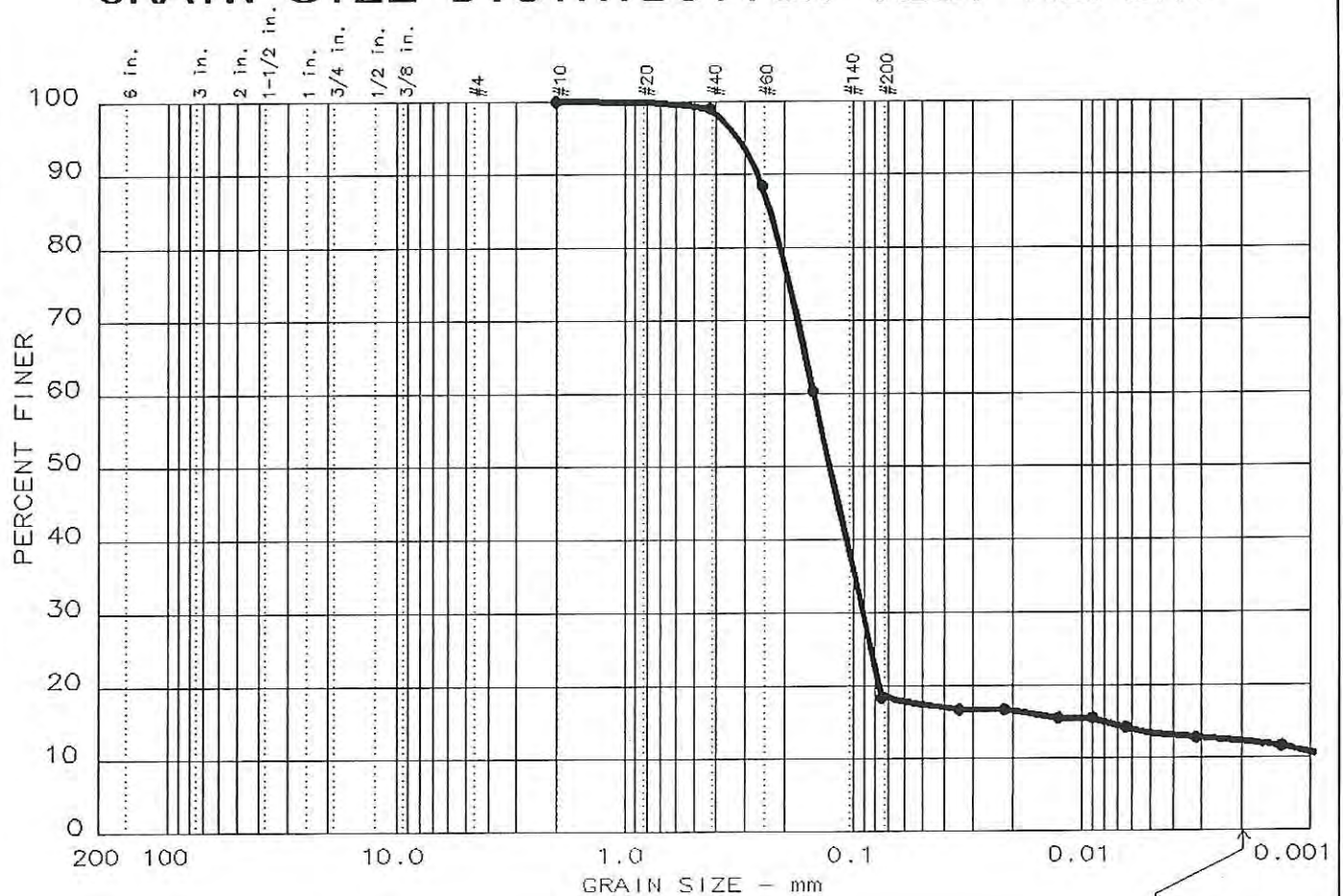
Date: 03-17-97

GRAIN SIZE DISTRIBUTION TEST REPORT
 PROFESSIONAL SERVICE INDUSTRIES, INC.

Remarks:
 TESTED BY:AW/DM
 CHECKED BY:D.MOORE
 NMC = 26.8%

Figure No. _____

GRAIN SIZE DISTRIBUTION TEST REPORT



Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY
19	0.0	0.0	81.6	6.0	12.4

LL	PI	D ₈₅	D ₆₀	D ₅₀	D ₃₀	D ₁₅	D ₁₀	C _c	C _u
NP	NP	0.23	0.15	0.13	0.091	0.0077			

MATERIAL DESCRIPTION	USCS	AASHTO
	SM	A-2-4

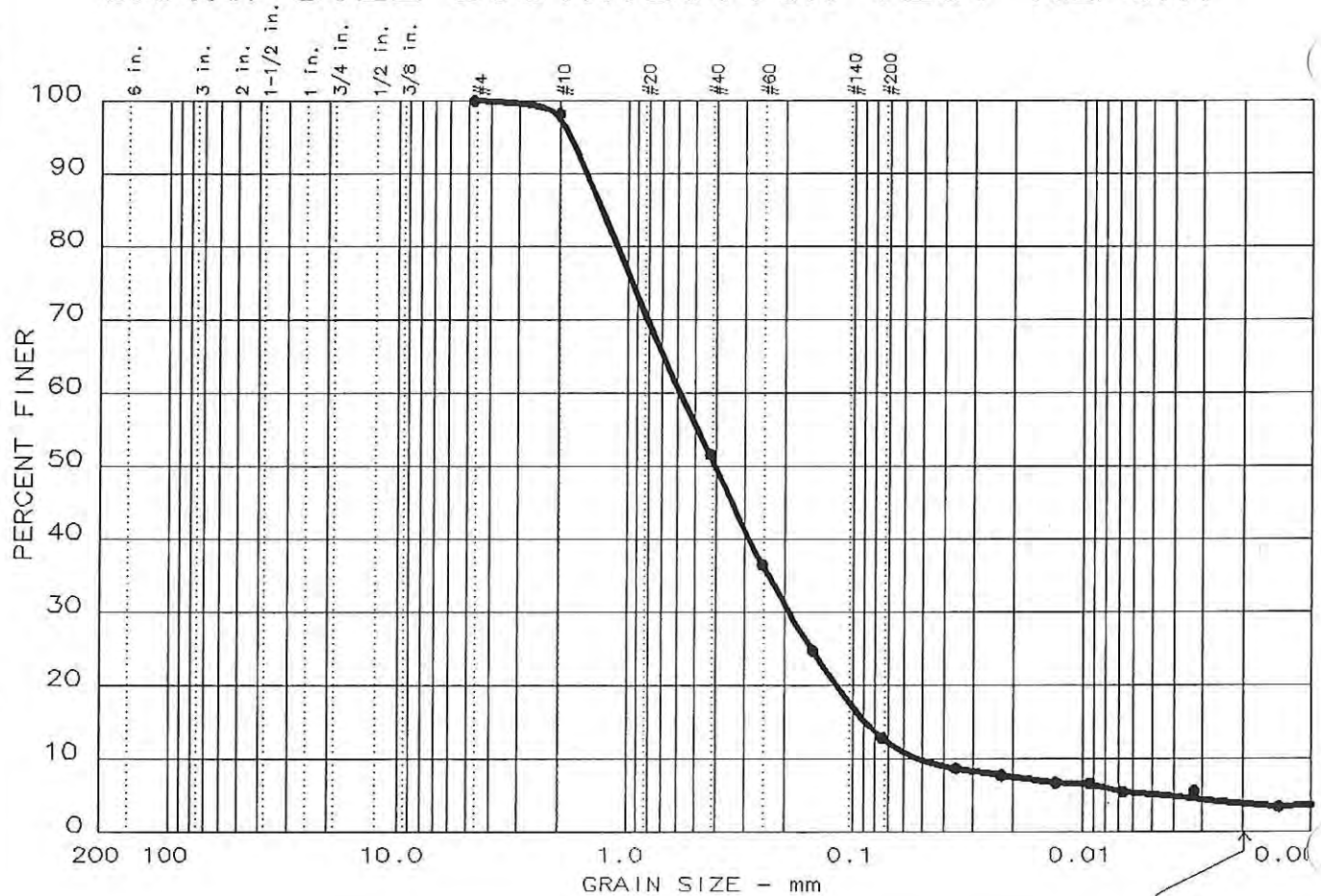
Project No.: 019504
 Project: HUNTER 5
 • Location: STA. MW 65, 8' - 10'
 Date: 03-17-97

GRAIN SIZE DISTRIBUTION TEST REPORT
 PROFESSIONAL SERVICE INDUSTRIES, INC.

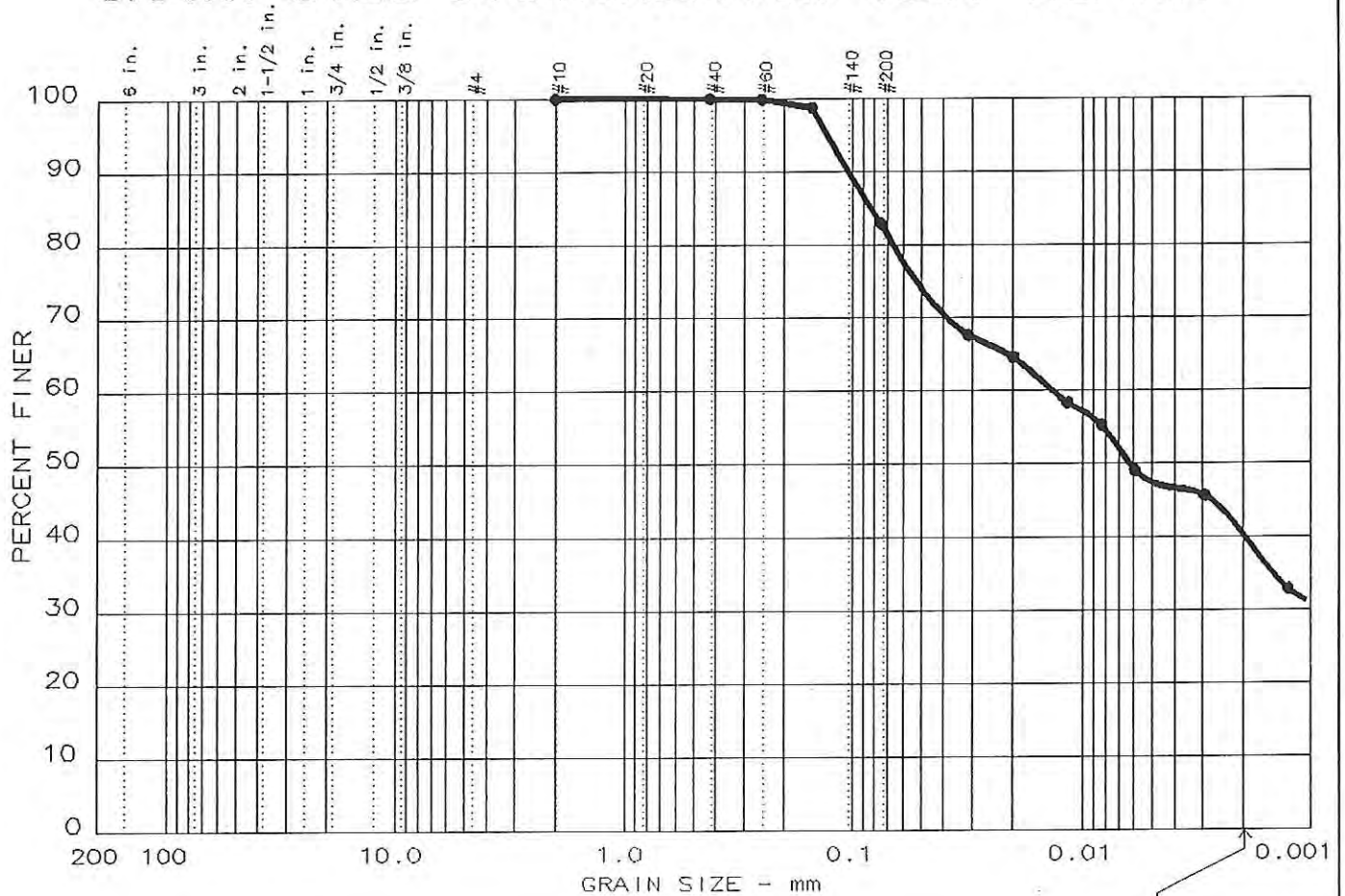
Remarks:
 TESTED BY:AW/DM
 CHECKED BY:D.MOORE
 NMC = 27.4%

Figure No. _____

GRAIN SIZE DISTRIBUTION TEST REPORT



GRAIN SIZE DISTRIBUTION TEST REPORT



Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY
1	0.0	0.0	17.1	42.6	40.3

LL	PI	D ₈₅	D ₆₀	D ₅₀	D ₃₀	D ₁₅	D ₁₀	C _c	C _u
78	49	0.08		0.01					

MATERIAL DESCRIPTION	USCS	AASHTO
	CH	A-7-6

Project No.: 019504

Project: HUNTER 5

Location: STA. MW 67, 38' - 40'

Date: 03-17-97

GRAIN SIZE DISTRIBUTION TEST REPORT
PROFESSIONAL SERVICE INDUSTRIES, INC.

Remarks:

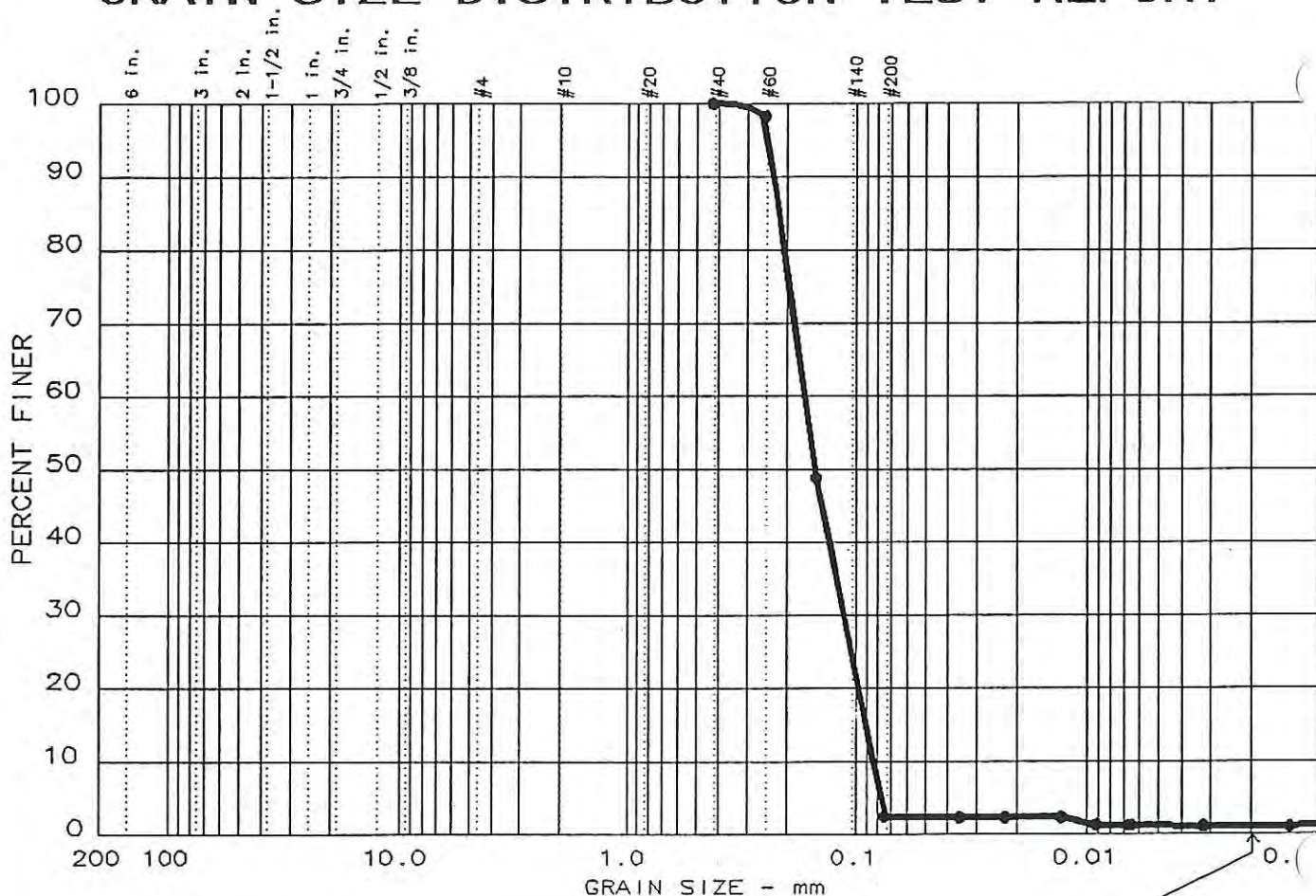
TESTED BY:AW/DM

CHECKED BY:D.MOORE

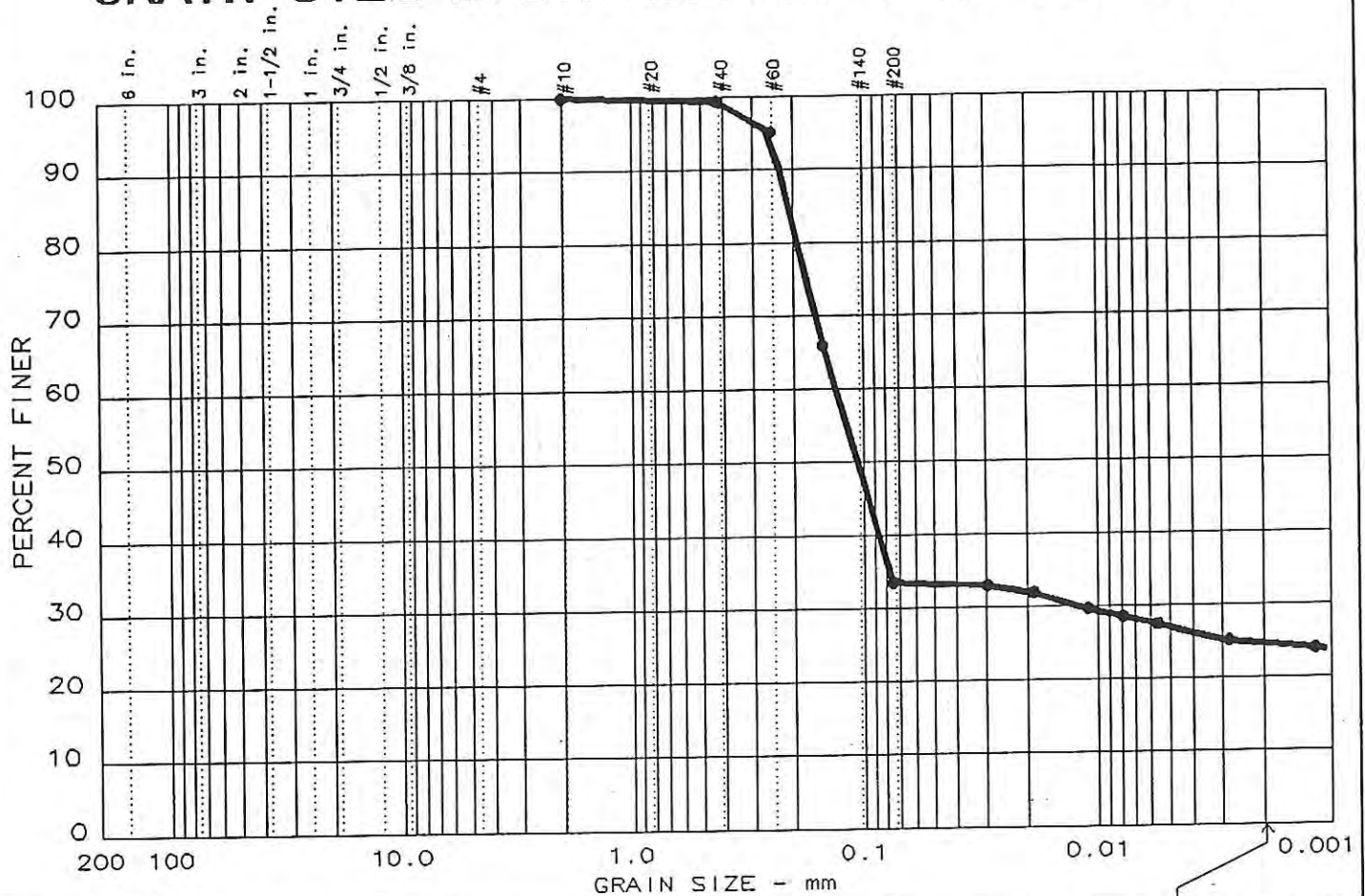
NMC = 75.7%

Figure No. _____

GRAIN SIZE DISTRIBUTION TEST REPORT



GRAIN SIZE DISTRIBUTION TEST REPORT



()

[illegible]

Project No.: 778-62025 Project: HUNTER 5, TASK ORDER #19 ● Location: STA. MW-67, 6' - 8' Effective Porosity = 15% by vol. Date: 04-21-97	Remarks: TESTED BY:DM/AW CHECKED BY:D.MOORE K=1.7x10 ⁻³ cm/sec NMC=25.8% Figure No. _____
GRAIN SIZE DISTRIBUTION TEST REPORT PROFESSIONAL SERVICE INDUSTRIES, INC.	

MW 55

r = casing radius 1 in = 2.54 cm
 R = Gravel pack radius 5.5 in = 13.97 cm
 L = saturated screen length 8.9 ft = 271.27 cm
 T_0 = from graph = 3.25 sec

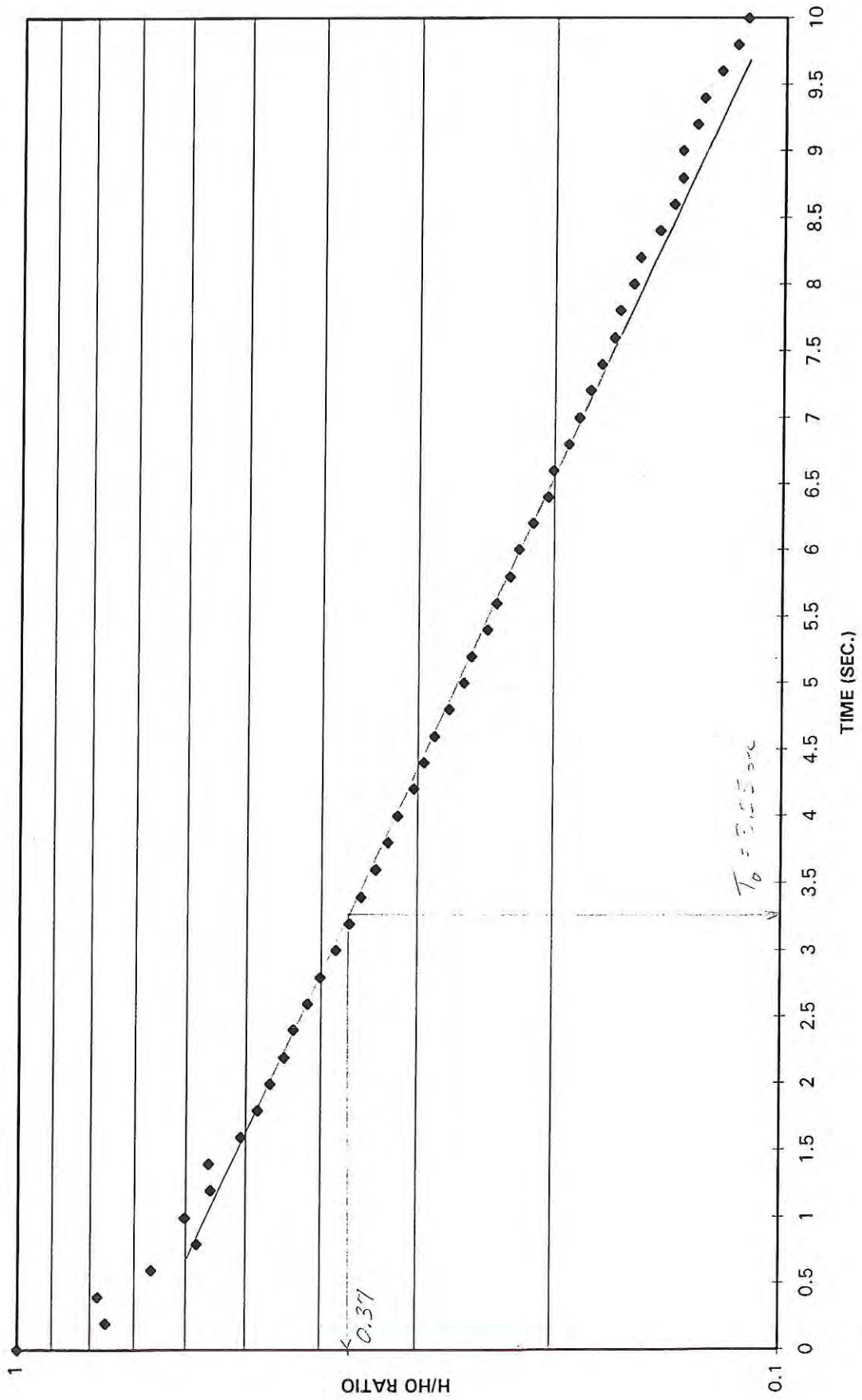
$$K = \frac{r^2 \ln\left(\frac{L}{R}\right)}{2 L T_0}$$

$$= \frac{(2.54)^2 \ln\left(\frac{271.27}{13.97}\right)}{2 (271.27) (3.25)}$$

$$= \frac{(6.45) (2.97)}{1763.26}$$

$$\approx 1.1 \times 10^{-2} \text{ cm/sec} \quad \text{or} \quad 3.6 \times 10^{-4} \text{ ft/sec}$$

MW-55 SLUGOUT (HVORSLEV)



MW 56

r = casing radius $r_{in} = 2.54 \text{ cm}$
 R = Gravel pack radius $5.5 \text{ in} = 13.97 \text{ cm}$
 L = saturated screen length $6.8 \text{ ft} = 207.26 \text{ cm}$
 T_0 = from graph $= 1.89 \text{ sec}$

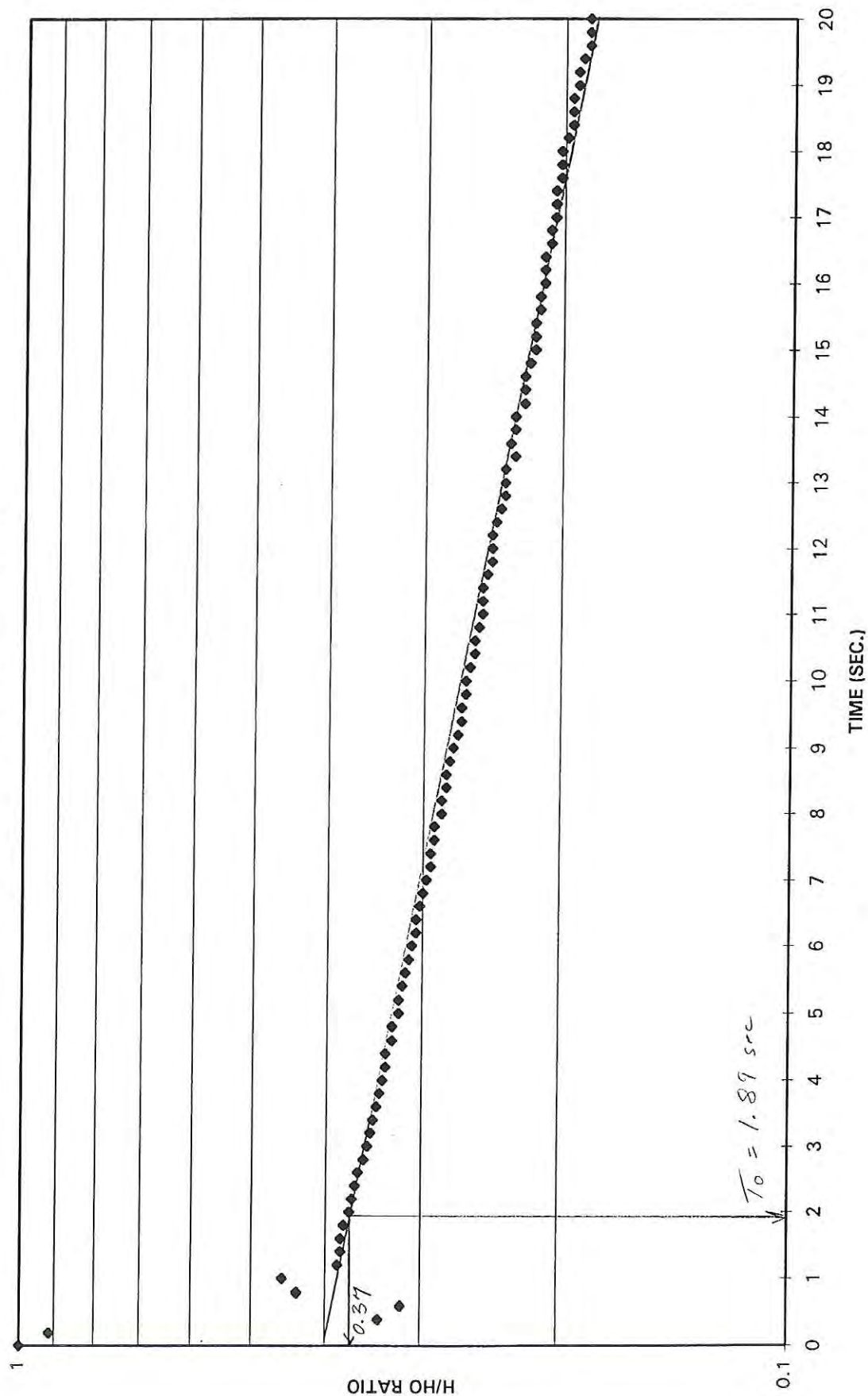
$$K = \frac{r^2 \ln\left(\frac{L}{R}\right)}{2 L T_0}$$

$$= \frac{(2.54)^2 \ln\left(\frac{207.26}{13.97}\right)}{2 (207.26) 1.89}$$

$$= \frac{6.45 (2.70)}{783.44}$$

$$= 2.2 \times 10^{-2} \text{ cm/sec} \quad \text{or} \quad 7.2 \times 10^{-4} \text{ ft/sec}$$

MW-56 SLUGOUT (HVORSLEV)



MW-57

$r = 2.54 \text{ cm (1 in)}$ casing radius
 $R = 13.97 \text{ cm (5.5 in)}$ Gravel pack radius
 $L = 206.65 \text{ cm (6.78 ft)}$ Saturated screen length
 $T_0 = 3.83 \text{ sec}$ from graph

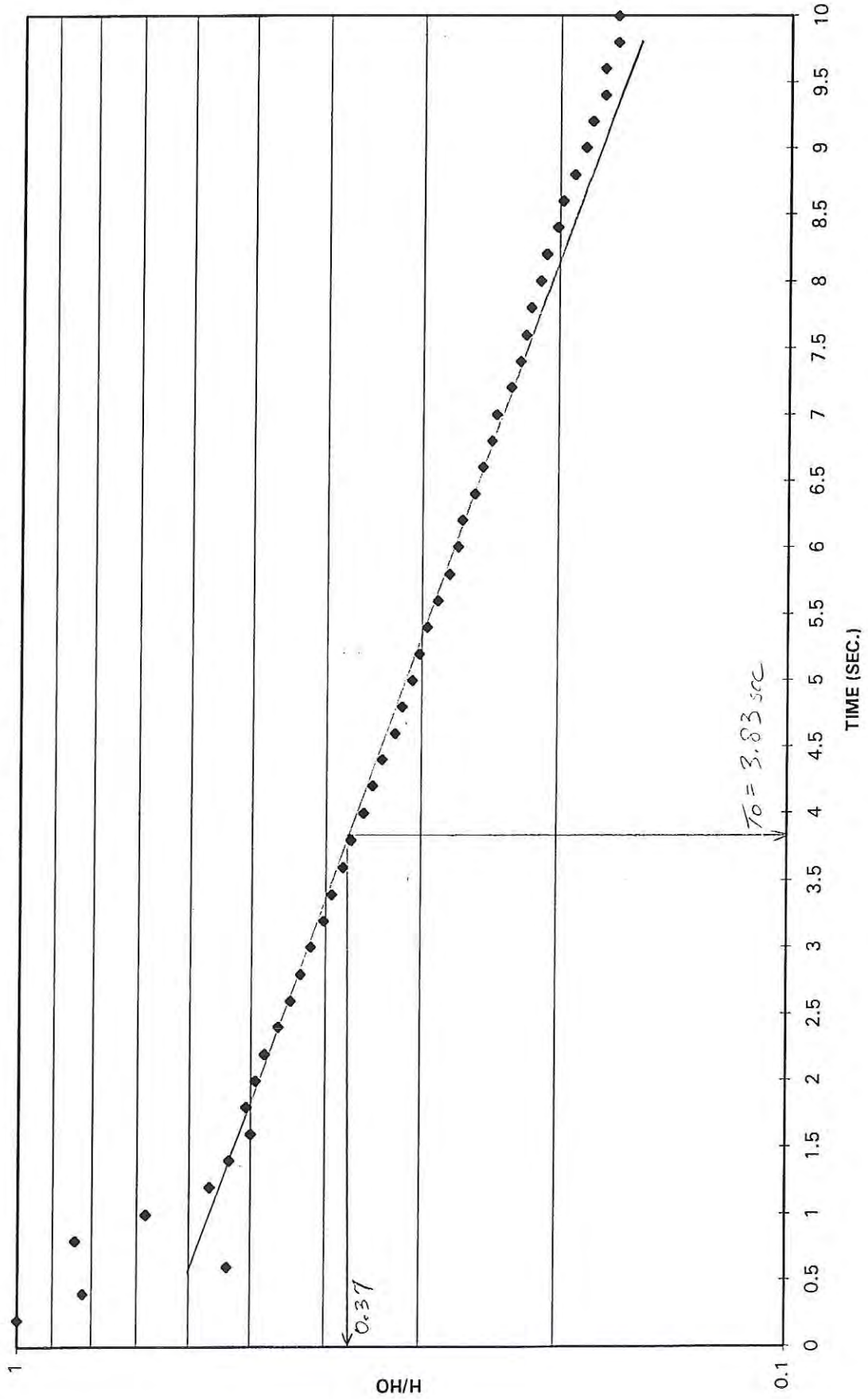
$$K = \frac{r^2 \ln\left(\frac{L}{R}\right)}{2 L T_0}$$

$$= \frac{(2.54) \left(\ln \frac{206.65}{13.97} \right)}{2 (206.65) (3.83)}$$

$$= \frac{17.38}{1582.97}$$

$$\approx 1.1 \times 10^{-2} \text{ cm/sec} \quad \text{or} \quad 3.6 \times 10^{-4} \text{ ft/sec}$$

MW-57 SLUGOUT (HVORSLEV)



MW-63

$r = \text{casing radius (in)} = 2.54 \text{ cm}$
 $R = \text{Gravel pack radius (5.5 in)} = 13.97 \text{ cm}$
 $L = \text{saturated screen length (6.79 ft)} = 206.96 \text{ cm}$
 $T_0 = \text{from Graph} = 2.07 \text{ sec}$

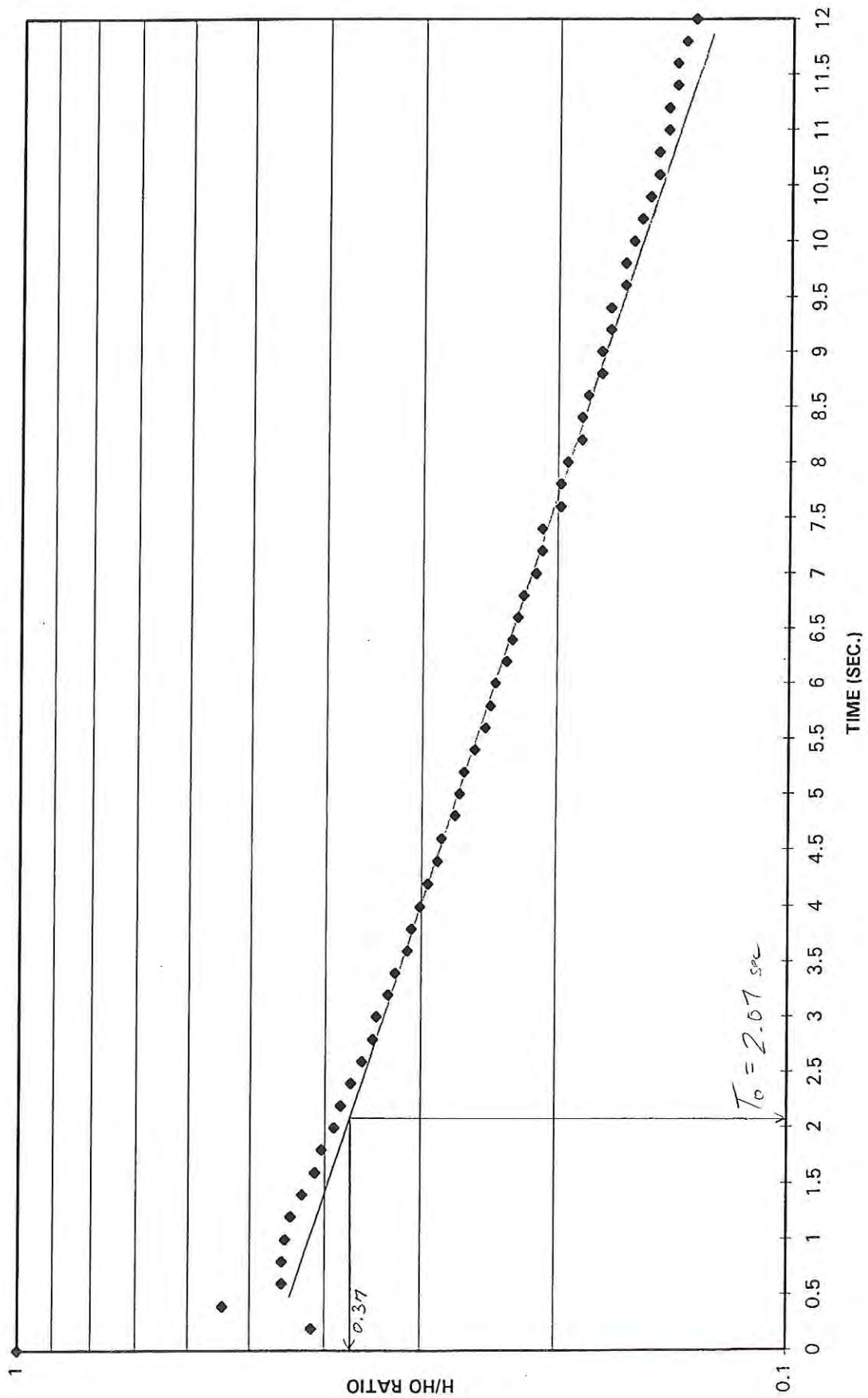
$$K = \frac{r^2 \ln\left(\frac{L}{R}\right)}{2 L T_0}$$

$$= \frac{(2.54)^2 \ln\left(\frac{206.96}{13.97}\right)}{2 (206.96) 2.07}$$

$$= \frac{17.39}{856.81}$$

$$\approx 2.0 \times 10^{-2} \text{ cm/sec} \quad \text{or} \quad 6.6 \times 10^{-4} \text{ ft/sec}$$

MW-63 SLUGOUT (HVORSLEV)



MW-64

$$\begin{aligned} r &= \text{casing radius (in)} &= 2.54 \text{ cm} \\ R &= \text{Gravel pack radius (5.5 in)} &= 13.97 \text{ cm} \\ L &= \text{saturated screen length (7.29 ft)} &= 222.20 \text{ cm} \\ T_0 &= \text{from Graph} &= 1.81 \text{ sec} \end{aligned}$$

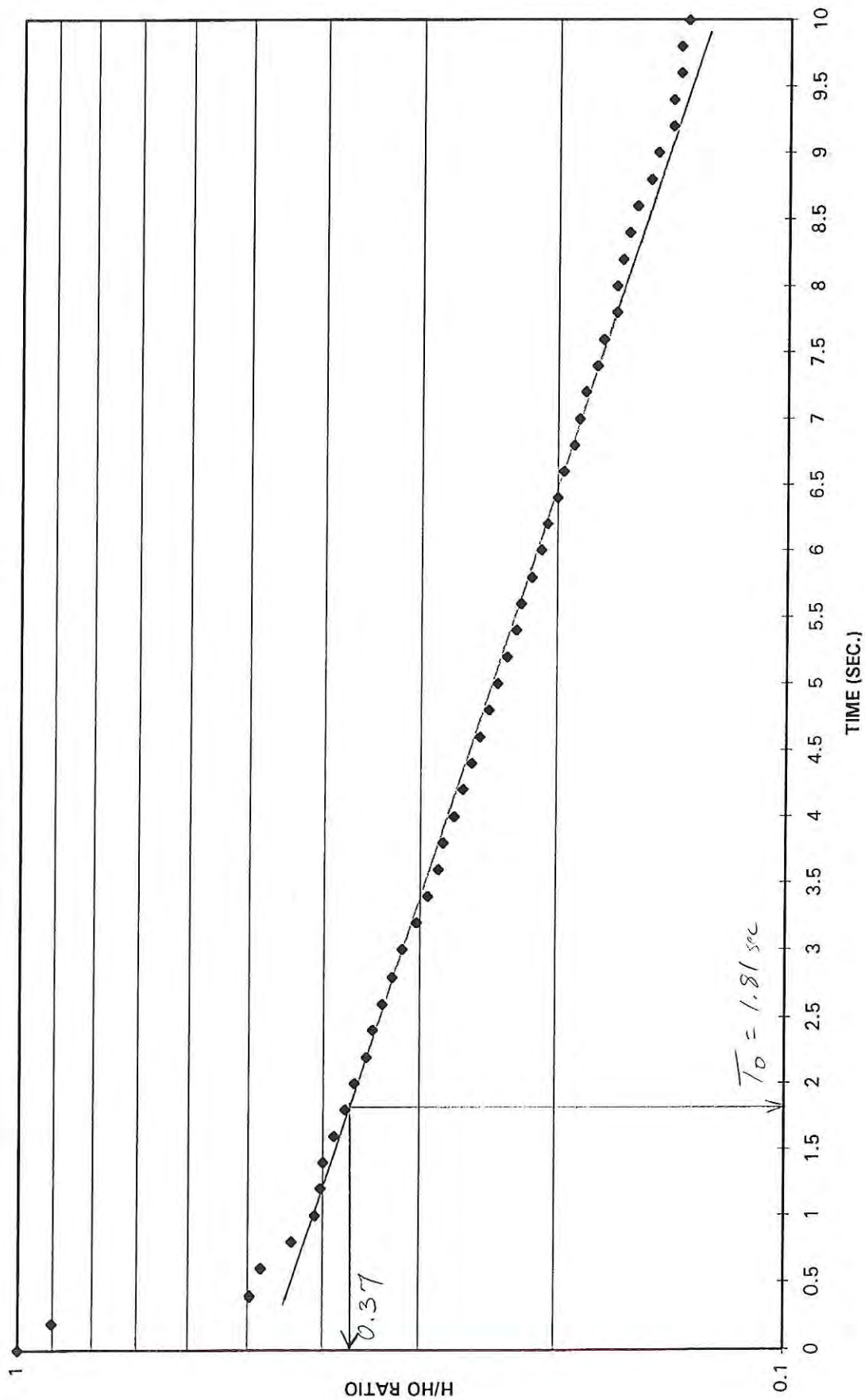
$$K = \frac{r^2 \ln\left(\frac{L}{T_0}\right)}{2 L T_0}$$

$$= \frac{(2.54)^2 \ln\left(\frac{222.20}{13.97}\right)}{2 (222.20) 1.81}$$

$$= \frac{17.84}{804.36}$$

$$\approx 2.2 \times 10^{-2} \text{ cm/sec} \quad \text{or} \quad 7.2 \times 10^{-4} \text{ ft/sec}$$

MW-64 SLUGOUT (HVORSLEV)



MW-65

$$\begin{aligned} r &= \text{casing radius (1 in)} &= 2.54 \text{ cm} \\ R &= \text{Gravel pack radius (5.5 in)} &= 13.97 \text{ cm} \\ L &= \text{saturated screen length (5.92 ft)} &= 180.44 \text{ cm} \\ T_0 &= \text{from Graph} &= 3.21 \text{ sec} \end{aligned}$$

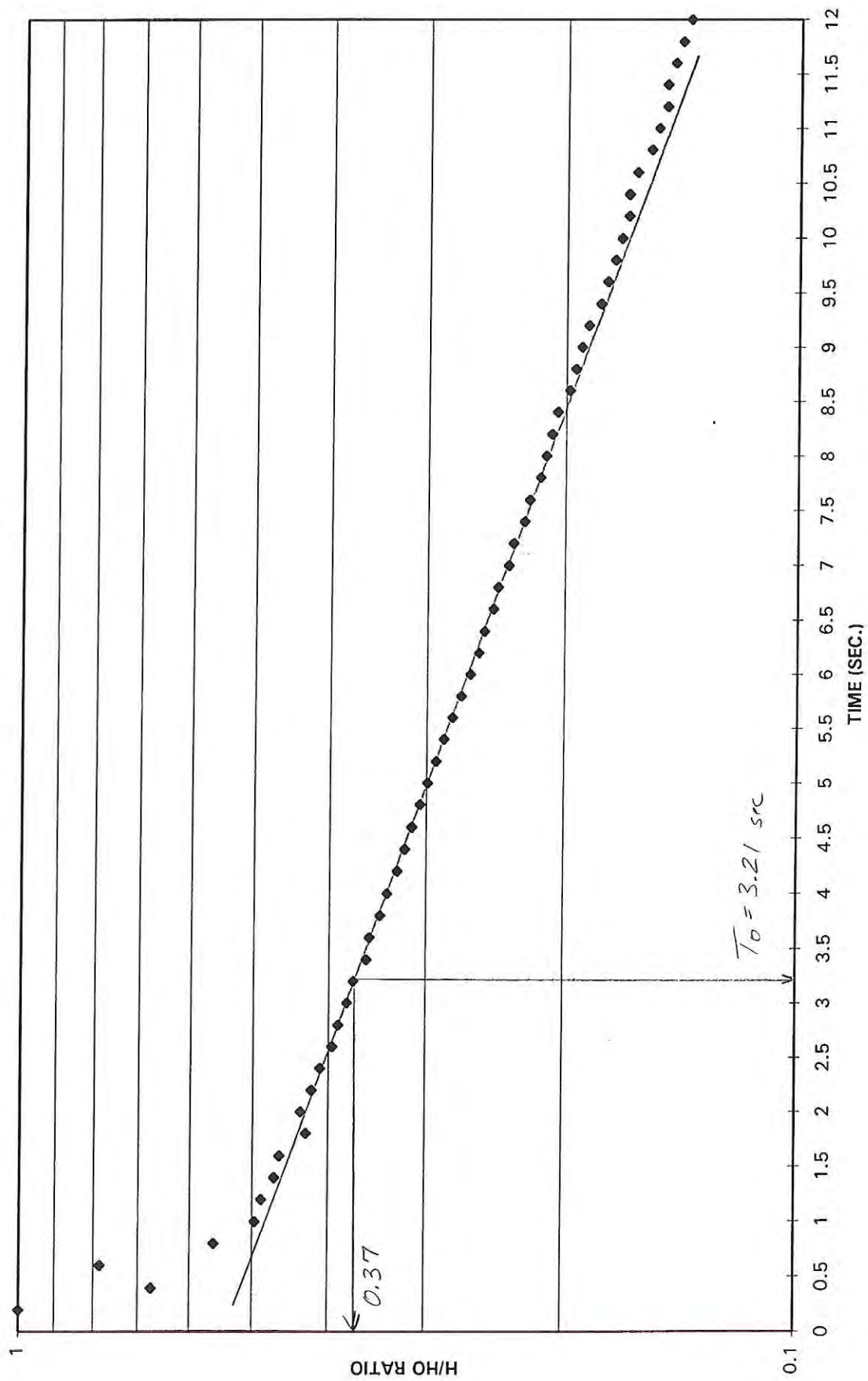
$$K = \frac{r^2 \ln \left(\frac{L}{R} \right)}{2 L T_0}$$

$$= \frac{(2.54)^2 \ln \left(\frac{180.44}{13.97} \right)}{2 (180.44) 3.21}$$

$$= \frac{16.50}{1158.42}$$

$$\approx 1.4 \times 10^{-2} \text{ cm/sec} \quad \text{or} \quad 4.6 \times 10^{-4} \text{ ft/sec}$$

MW-65 SLUGOUT (HVORSLEV)



MW66

$r =$ casing radius (1 in) $= 2.54$ cm
 $R =$ gravel pack radius (5.5 in) $= 13.97$ cm
 $L =$ saturated screen length (5 ft) $= 152.4$ cm
 $T_o =$ from graph $= 24.4$ sec

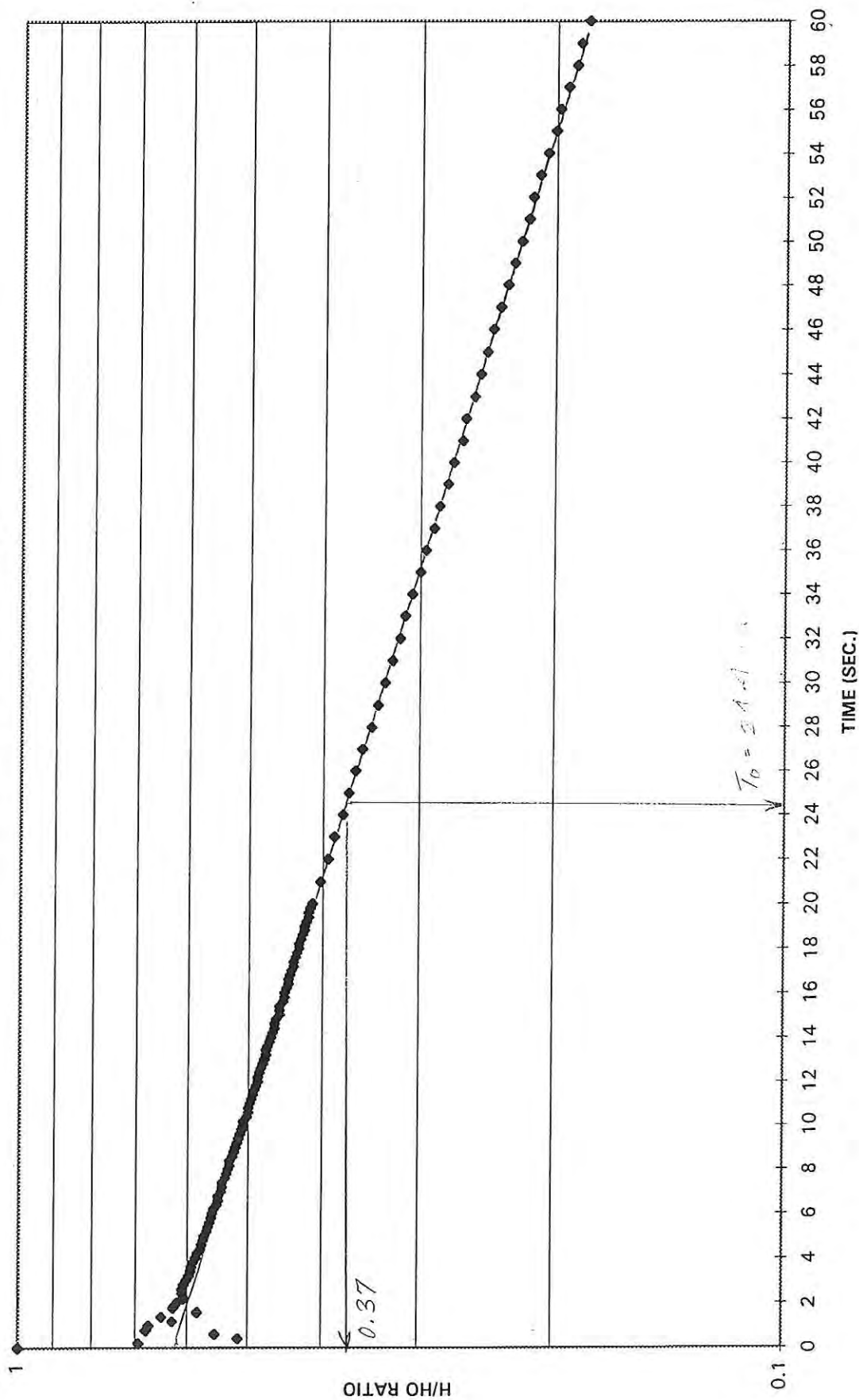
$$K = \frac{r^2 \ln\left(\frac{L}{R}\right)}{2 L T_o}$$

$$= \frac{(2.54)^2 \ln\left(\frac{152.4}{13.97}\right)}{2 (152.4) 24.4}$$

$$= \frac{15.41}{7437.12}$$

$$\approx 2.1 \times 10^{-3} \text{ cm/sec} \quad \text{or} \quad 6.9 \times 10^{-5} \text{ ft/sec}$$

MW-66 SLUGOUT (HVORSLEV)



MW-67

$r = \text{casing radius (1in)} = 2.54 \text{ cm}$
 $R = \text{Gravel pack radius (5.5in)} = 13.97 \text{ cm}$
 $L = \text{saturated screen length (5ft)} = 152.4 \text{ cm}$
 $T_0 = \text{From Graph} = 20.0 \text{ sec}$

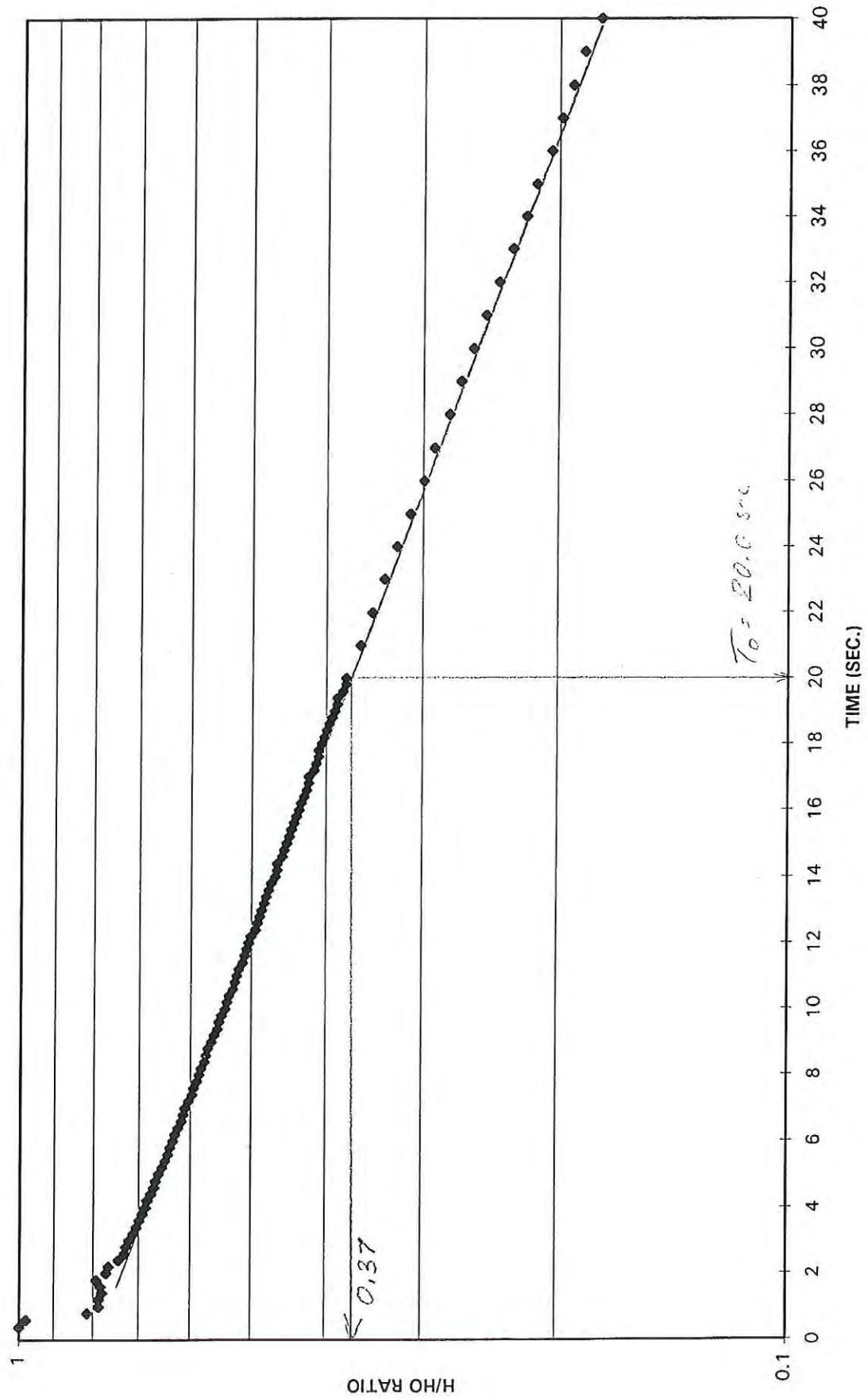
$$K = \frac{r^2 \ln\left(\frac{L}{R}\right)}{2 L T_0}$$

$$= \frac{(2.54)^2 \ln\left(\frac{152.4}{13.97}\right)}{2 (152.4) 20.0}$$

$$= \frac{15.41}{6096.0}$$

$$= 2.5 \times 10^{-3} \text{ cm/sec} \quad \text{or } 8.2 \times 10^{-5} \text{ ft/sec}$$

MW-67 SLUGOUT (HVORSLEV)



SEEPAGE VELOCITY

The seepage velocity was calculated using the following equation:

$$V_x = -\frac{Ki}{n_e}$$

(Fetter, 1994)

Where:

For Shallow Wells

V_x = seepage velocity (cm/sec)

K = hydraulic conductivity = 7.9×10^{-3} cm/sec (average shallow slug test K's and Shelby tube K's in saturated zone.)

i = hydraulic gradient = $0.006 \left(\frac{\Delta Head}{\Delta Distance} = \frac{MW1 - MW65}{MW1 - MW65} = \frac{15.85' - 11.37'}{715'} \right)$

n_e = effective porosity = 0.18 (from Shelby tube analysis, average of 2 in saturated zone.)

$$\begin{aligned} V_x &= \frac{-(7.9 \times 10^{-3} \text{ cm/sec})(-0.006)}{0.18} \\ &= 2.6 \times 10^{-4} \text{ cm/sec or } 8.5 \times 10^{-6} \text{ feet/sec} \end{aligned}$$

For Deep Wells

$K = 2.3 \times 10^{-3}$ cm/sec - average of slug tests (assume other parameters as above.)

$$\begin{aligned} V_x &= \frac{-(2.3 \times 10^{-3} \text{ cm/sec})(-0.006)}{0.18} \\ &= 7.7 \times 10^{-5} \text{ cm/sec or } 2.5 \times 10^{-6} \text{ feet/sec} \end{aligned}$$

APPENDIX E

FREE PRODUCT DISPOSAL MANIFEST

INDUSTRIAL WATER SERVICES, INC.

PH. (904) 354-0372 • FAX (904) 354-7612

P.O. BOX 43369

JACKSONVILLE, FL 32203

INVOICE

Invoice number: 14856

Invoice Date: 10/16/96

Due Date: 11/15/96

VENDOR # 031921
P.O. NUMBER
VOUCHER NO. 706128

METCALF & EDDY - ATLANTA
1201 PEACHTREE STREET N.E.
400 COLONY SQUARE
ATLANTA, GA 30361

Customer ID: 13470
Salesperson: GRARIC
Richard Grant, Jr.
Page No. 1

SERVICES RENDERED TO PROCESS WASTE WATER.

250.00 Gallons at \$ 0.250 per Gallon 62.50
Manifest # 70001
IWS Job # OLD0284

DEMURRAGE CHARGES.

2.50 Hours at \$ 65.000 per Hour 162.50
Manifest # 70001
IWS Job # OLD0284

TRANSPORTATION PER LOAD.

1.00 Each at \$ 370.000 370.00
Manifest # 70001
IWS Job # OLD0284

RECEIVED

NOV 7 1996

METCALF & EDDY, INC.

APPROVED FOR PAYMENT
By [Signature]
Date 11/15/96
Job # 016602-4107 3100
Job # 706128 CUM
Inv No. 706128 User ID B2

INVOICE TOTAL: 595.00

This certifies that 250 gallons of waste water described on waste manifest numbers listed above was disposed of in compliance with all applicable state, federal and local regulations under Industrial User Permit Number ISN 019 and Facility EPA Number FLD981928484.

APPENDIX F

PUBLIC NOTICE

Public Notice

Notification of Corrective Action Plan, Underground Storage Tank Releases, Hunter Army Airfield, Savannah, Georgia.

The United States Army Corps of Engineers and Fort Stewart Directorate of Public Works have prepared a Corrective Action Plan (CAP) - Part B report to assess the environmental impact of diesel, gasoline and/or aviation fuel releases from underground storage tanks (USTs) Number 1 through 16 located at former Building 728, Hunter Army Airfield. This report was submitted to the Environmental Protection Division on or about December 19, 1997. The EPD facility number for this location is 9-025049.

The Georgia rules for UST Management require notification of the public most directly affected by the plans. If you would like a copy of any of the plans, please contact:

Commander, Directorate of Public Works, 1557 Frank Cochran Dr., Ft. Stewart, GA, 31314-4928 Attn.: AFZP-DEV (M. Little).

A copy of each requested plan will be mailed at a nominal copying and shipping fee.

If you desire to make comments of any of the plans, or to examine the Georgia Environmental Protection Division's files, you should contact the Corrective Action Unit, at 404-362-2687. The Underground Storage Tank Management Program will accept public comments on the CAP-Part B report up to 30 days in after submittal to the Georgia Environmental Protection Division. Their mailing address is: Corrective Action Unit, Underground Storage Tank Management Program, 4244 International Parkway, Suite 100, Atlanta, GA 30354

STATE OF GEORGIA
CHATHAM COUNTY

Affidavit of Publication
Savannah Morning News
Savannah Evening Press

Personally appeared before me, Joan T. Jenkins, to me known, who being sworn, deposes and says:

That he is the Classified Adv. Supv of Southeastern Newspapers Corporation, a Georgia corporation, doing business in Chatham County, Georgia, under the trade name of Savannah Morning News/Savannah Evening Press, a daily newspaper published in said county;

That he is authorized to make affidavits of publication on behalf of said published corporation;

That said newspaper is of general circulation in said county and in the area adjacent thereto;

That he has reviewed the regular editions of the Savannah Morning News/Savannah Evening Press, published on 11-16, 1997,
 , 1997, , 1997, , 1997, and finds

that the following Advertisement, to-wit:

[illegible]

appeared in each of said editions.

Sworn to and subscribed
before me this 18 day
of Nov. 1947.

Joan T. Leck'n
(Deponent)

Lilli R. Lang
Notary Public, Chatham County, Georgia

LILLIE D. LANG
Notary Public, Chatham County, Ga.
My Comm. Expires June 30, 2001