DRAFT
REMEDIAL INVESTIGATION REPORT
GAF CHEMICALS CORPORATION
LINDEN, NEW JERSEY
VOLUME V
APPENDICES

Prepared for:

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May 1991

6230

372980

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APPENDIX B

NJDEP WATER SUPPLY DATA

SUBJECT TO REVISION

WATER WITHDRAWAL POINTS AND NJGS CASE INDEX SITES WITHIN 5.0 MILES OF:

LATITUDE 403642
LONGITUDE 741255

DRAFT

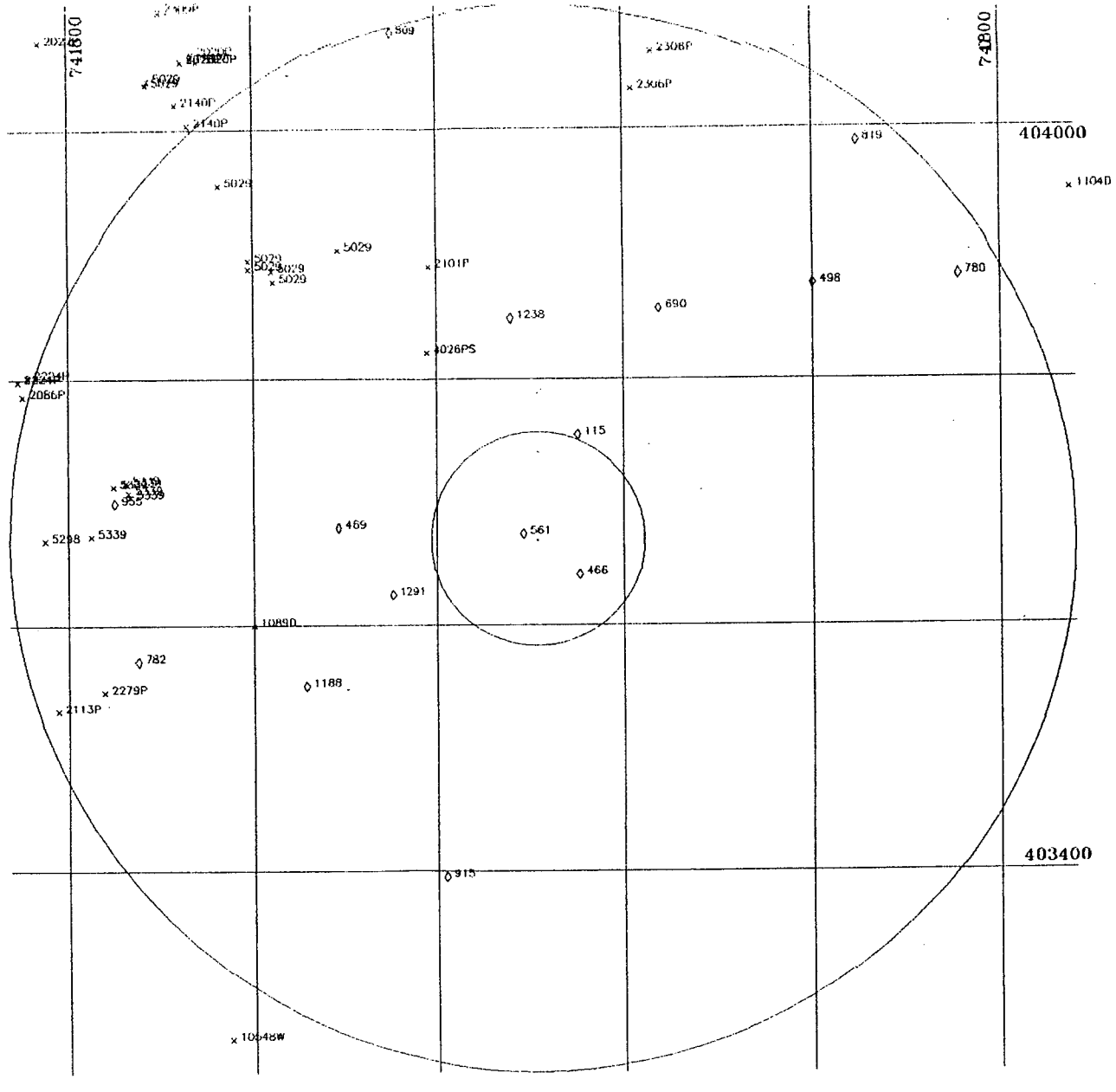
SCALE: 1:63,360
(1 Inch = 1 Mile)

× WATER WITHDRAWAL POINTS
0 NJGS CASE INDEX SITES
1 MILE AND 5 MILE RADII INDICATED

NJGS CASE INDEX DATA RETRIEVED FROM:
NEW JERSEY GEOLOGICAL SURVEY
ON 12/22/87

PLOT PRODUCED BY:
NJDEP
DIVISION OF WATER RESOURCES
BUREAU OF WATER ALLOCATION
CN-029
TRENTON, NJ 08625

DATE: 04/11/91



SUBJECT TO REVISION

NUMBER	NAME	SOURCEID	LOCID	LAT	LON	LLATC	DISTANCE	COUNTY	MUN	DEPTH	SEO1	SEO2	CAPACITY
1054BW	AMERICAN CYANAMID COMPANY	2601889	2	403037	741615	U	5.5	23	25	62	GRM		120
1089D	UNION COUNTY UTL. AUTHORITY			403600	741600	U	2.8	39	13	20	GRS		300
1104D	NEW JERSEY DEPT. OF TRANS.			403930	740715		5.9	12	01	11			1000
2020P	SCHERING PLOUGH LABS	4600076	1	404035	741640	U	5.5	39	08	467	GTRB		460
	SCHERING PLOUGH LABS	2600073	2	404038	741639		5.6	39	08	398	GTRB		400
	SCHERING PLOUGH LABS	2600438	3	404035	741640	U	5.5	39	08	405	GTRB		400
	SCHERING PLOUGH LABS	2605874	4A	404033	741636		5.5	39	08	550	GTRB		450
	SCHERING PLOUGH LABS	2605849	5	404033	741646		5.6	39	08	500	GTRB		450
2022P	FLEXI-VAN LEASING, INC.	4600112	2---PRDUCTN	404045	741818	F	6.6	39	08	577	GTRB		250
	FLEXI-VAN LEASING, INC.	4600214	1---STANDBY	404045	741818	F	6.6	39	08	396	GTRB		200
2086P	UNITED STATES GYPSUM COMPANY	2600204	2	403752	741829	U	5.1	39	02	303	GTRB		250
2101P	DECORATOR PLASTICS, INC.	2604727		403835	741405		2.7	39	04	570	GTRB		200
2113P	COLONIA COUNTRY CLUB	2601806	1	403518	741807		4.8	23	25	314	GTRB		400
2140P	ROTARY PEN CORPORATION	2602601	1	404012	741650		5.3	39	08	405	GTRB		60
	ROTARY PEN CORPORATION	2602831	2	404032	741642		5.1	39	08	402	GTRB		105
2224P	HYATT CLARK INDUSTRIES INC.	4600107	1	403759	741832		5.1	39	02	501	GTRB		500
	HYATT CLARK INDUSTRIES INC.	4600108	2	403759	741832		5.1	39	02	505	GTRB		500
	HYATT CLARK INDUSTRIES INC.	2600580	3	403801	741826		5.1	39	02	504	GTRB		500
2279P	VOLCO BRASS - WELL SEALED 2/88	2600049	1	403827	741737		4.4	39	08	435	GTRB		350
2306P	HAYWARD MANUFACTURING PRODUCTS	2604712	1	404019	741154		4.2	39	19	274	GTRB		100
	HAYWARD MANUFACTURING PRODUCTS	2606867	2	404039	741141		4.7	39	19	275	GTRB		100
2309P	CARPENTER TECHNOLOGY CORP.	2618029	RW-2	404100	741700	U	6.1	39	19	41	GOSD		5
	CARPENTER TECHNOLOGY CORP.	2618030	RW-3	404100	741700	U	6.1	39	19	34	GOSD		5
	CARPENTER TECHNOLOGY CORP.	2618031	RW-4	404100	741700	U	6.1	39	19	32	GOSD		5
	CARPENTER TECHNOLOGY CORP.	2618032	RW-5	404100	741700	U	6.1	39	19	33	GOSD		5
	CARPENTER TECHNOLOGY CORP.	2618033	RW-6	404100	741700	U	6.1	39	19	30	GOSD		5
	CARPENTER TECHNOLOGY CORP.	2618034	RW-7	404100	741700	U	6.1	39	19	31	GOSD		5
	CARPENTER TECHNOLOGY CORP.	2618035	RW-8	404100	741700	U	6.1	39	19	32	GOSD		5
	CARPENTER TECHNOLOGY CORP.	2618036	RW-11	404100	741700	U	6.1	39	19	32	GOSD		5
4026PS	EXXON COMPANY USA	MORSES CREEK		403813	741406	T	2.0	39	09		SY		
5029	ELIZABETHTOWN WATER COMPANY	2602393	CHANDLER	403903	741506	F	3.3	39	14	350	GTRB		300
	ELIZABETHTOWN WATER COMPANY	2601696	FIRST AVE	403933	741622	F	4.5	39	14	509	GTRB		450
	ELIZABETHTOWN WATER COMPANY	2602302	WALBURGA1	403854	741603	F	3.7	39	14	350	GTRB		350
	ELIZABETHTOWN WATER COMPANY	2602360	WALBURGA2	403848	741547	F	3.5	39	14	348	GTRB		200
	ELIZABETHTOWN WATER COMPANY	2602412	WALBURGA3	403858	741603	F	3.8	39	14	321	GTRB		360
	ELIZABETHTOWN WATER COMPANY	2602463	WALBURGA4	403853	741548	F	3.6	39	14	325	GTRB		450
	ELIZABETHTOWN WATER COMPANY	4600015	RICHFIELD	404022	741709	F	5.6	39	08	402	GTRB		250
	ELIZABETHTOWN WATER COMPANY	4600014	QUINTON	404024	741708	F	5.6	39	08	502	GTRB		250
5298	MIDDLESEX WATER COMPANY	MIDDLESEX	RESERVOIR	403642	741815		4.7	39	02		SYRAH		9.0
5339	RAHWAY, CITY OF	2600381	1	403710	741723		3.9	39	13	50.5	GOSD		300
	RAHWAY, CITY OF	2600380	2	403709	741722		3.9	39	13	51.5	GOSD		300
	RAHWAY, CITY OF	2600724	3	403708	741731		4.1	39	13	76	GTRB		350
	RAHWAY, CITY OF	2601671	4	403705	741721		3.9	39	13	127	GTRB		400
	RAHWAY, CITY OF	2601672	5	403703	741720		3.9	39	13	135	GTRB		400
	RAHWAY, CITY OF	2603795	6	403644	741745		4.2	39	13	269	GTRB		400

Number of Observations: 45

Page 1 of ALLPRIMWAY SURVEY OF WATER WITHDRAWAL POINTS WITHIN 5.0 MILES OF 403642 LAT. 741255 LON. (IN ORDER BY DECREASING LONGITUDE) - 04/11/91

NUMBER	NAME	SOURCEID	LOCID	LAT	LON	LLACC	DISTANCE	COUNTY	MUN	DEPTH	GEO1	GEO2	CAPACITY
2224P	HYATT CLARK INDUSTRIES INC.	4600107	1	403759	741832		5.1	39	02	501	GTRB		500
2224P	HYATT CLARK INDUSTRIES INC.	4600108	2	403759	741832		5.1	39	02	505	GTRB		500
2086P	UNITED STATES GYPSUM COMPANY	2600204	2	403752	741829	U	5.1	39	02	303	GTRB		250
2224P	HYATT CLARK INDUSTRIES INC.	2600580	3	403801	741826		5.1	39	02	504	GTRB		500
2027P	FLEXI-VAN LEASING, INC.	4600112	2--PRODUCTN	404045	741818	F	6.6	39	08	577	GTRB		250
2027P	FLEXI-VAN LEASING, INC.	4600214	1--STANDBY	404045	741818	F	6.6	39	08	396	GTRB		200
5298	MIDDLESEX WATER COMPANY	MIDDLESEX	RESERVOIR	403642	741815		4.7	39	02		SYRAH		9.0
2113P	COLONIA COUNTRY CLUB	2601806	1	403518	741807		4.8	23	25	314	GTRB		400
5339	RAHWAY, CITY OF	2603745	6	403644	741745		4.2	39	13	269	GTRB		400
2279P	VOLCO BRASS - WELL SEALED 2/88	2600049	1	403527	741737		4.4	39	08	435	GTRB		350
5339	RAHWAY, CITY OF	2600724	3	403708	741731		4.1	39	13	76	GTRB		350
5339	RAHWAY, CITY OF	2600381	1	403710	741723		3.9	39	13	50.5	GOSD		300
5339	RAHWAY, CITY OF	2600380	2	403709	741722		3.9	39	13	51.5	GOSD		300
5339	RAHWAY, CITY OF	2601671	4	403705	741721		3.9	39	13	127	GTRB		400
5339	RAHWAY, CITY OF	2601672	5	403703	741720		3.9	39	13	135	GTRB		400
5029	ELIZABETHTOWN WATER COMPANY	4600015	RICHFIELD	404022	741709	F	5.6	39	08	402	GTRB		250
5029	ELIZABETHTOWN WATER COMPANY	4600014	QUINTON	404024	741708	F	5.6	39	08	502	GTRB		250
2309P	CARPENTER TECHNOLOGY CORP.	2618029	RW-2	404100	741700	U	6.1	39	19	41	GOSD		5
2309P	CARPENTER TECHNOLOGY CORP.	2618030	RW-3	404100	741700	U	6.1	39	19	34	GOSD		5
2309P	CARPENTER TECHNOLOGY CORP.	2618031	RW-4	404100	741700	U	6.1	39	19	32	GOSD		5
2309P	CARPENTER TECHNOLOGY CORP.	2618032	RW-5	404100	741700	U	6.1	39	19	33	GOSD		5
2309P	CARPENTER TECHNOLOGY CORP.	2618033	RW-6	404100	741700	U	6.1	39	19	30	GOSD		5
2309P	CARPENTER TECHNOLOGY CORP.	2618034	RW-7	404100	741700	U	6.1	39	19	31	GOSD		5
2309P	CARPENTER TECHNOLOGY CORP.	2618035	RW-8	404100	741700	U	6.1	39	19	32	GOSD		5
2309P	CARPENTER TECHNOLOGY CORP.	2618036	RW-11	404100	741700	U	6.1	39	19	32	GOSD		5
2140P	ROTARY PEN CORPORATION	2602601	1	404012	741650		5.3	39	08	405	GTRB		60
2020P	SCHERING PLOUGH LABS	2605849	5	404033	741646		5.6	39	08	500	GTRB		450
2140P	ROTARY PEN CORPORATION	2603831	2	404002	741642		5.1	39	08	402	GTRB		105
2020P	SCHERING PLOUGH LABS	4600076	1	404035	741640	U	5.5	39	08	467	GTRB		460
2020P	SCHERING PLOUGH LABS	2600438	3	404035	741640	U	5.5	39	08	405	GTRB		400
2020P	SCHERING PLOUGH LABS	2600073	2	404038	741639		5.6	39	08	398	GTRB		400
2020P	SCHERING PLOUGH LABS	2605532	4A	404033	741636		5.5	39	08	550	GTRB		450
5029	ELIZABETHTOWN WATER COMPANY	2601696	FIRST AVE	403933	741622	F	4.5	39	14	509	GTRB		450
1054BW	AMERICAN CYANAMID COMPANY	2601889	2	403757	741615	U	5.5	23	25	62	BKM		120
5029	ELIZABETHTOWN WATER COMPANY	2602302	WALABURGA1	403854	741603	F	3.7	39	14	350	GTRB		350
5029	ELIZABETHTOWN WATER COMPANY	2602412	WALABURGA3	403858	741603	F	3.8	39	14	321	GTRB		360
1089D	UNION COUNTY UTL. AUTHORITY			403600	741600	U	2.8	39	13	20	GRS		300
5029	ELIZABETHTOWN WATER COMPANY	2602463	WALABURGA4	403853	741548	F	3.6	39	14	325	GTRB		450
5029	ELIZABETHTOWN WATER COMPANY	2602360	WALABURGA2	403848	741547	F	3.5	39	14	348	GTRB		200
5029	ELIZABETHTOWN WATER COMPANY	2602393	CHANDLER	403903	741505	F	3.3	39	14	350	GTRB		300
4026PS	EXXON COMPANY USA	MORSES CREEK		403813	741406	T	2.0	39	09		SY		
2101P	DECORATOR PLASTICS, INC.	2604727		403855	741405		2.7	39	04	570	GTRB		200
2306P	HAYWARD MANUFACTURING PRODUCTS	2604712	1	404019	741154		4.2	39	19	274	GTRB		100
2306P	HAYWARD MANUFACTURING PRODUCTS	2606867	2	404039	741141		4.7	39	19	275	GTRB		100
1104D	NEW JERSEY DEPT. OF TRANS.			403930	740715		5.9	12	01	11			1000

Number of Observations: 45

APPENDIX C

DRILLING LOGS

APPENDIX C-1

RI LOGS

ECKENFELDER INC. — TEST BORING LOG — NO. GAF-1S

PROJECT: Remedial Investigation	SHEET NO. 1 of 1
CLIENT: GAF Chemicals Corporation - Linden, NJ	PROJECT NO. 6662

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Andre Boutoille
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split Spoon	NA	NA
DIAMETER	2 inch	NA	NA
OTHER	NA	NA	NA

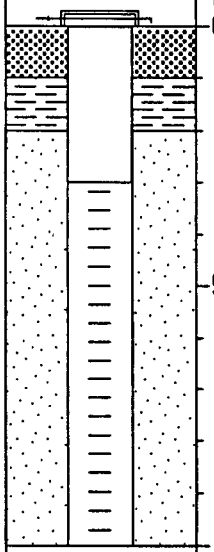
WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	PVC	PVC (0.010")
DIAMETER	2"	2"
COUPLING	Flush Joint	Flush Joint

WELL DEVELOPMENT	
METHOD:	Pump
DURATION:	1 hr.
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV	9.0	NA	11.95

DATE STARTED: 4/4/90
DATE COMPLETED: 4/4/90
INSPECTOR: Steven Kawchak

BOREHOLE CONSTRUCTION



DEPTH (feet)	SAMPLE NO.	TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
0	S-1	SS	5-5-10-50	FILL Reddish brown to black SAND, some f well-rounded Gravel, little Silt		220
	S-2	SS	45-65-100/4"	@ 3' black and gray GRAVEL and asphalt		380
5	S-3	SS	4-2-1-3	@ 5' black well-rounded GRAVEL, some m Sand, trace Silt		200
	S-4	SS	2-4-6-7	TIDAL MARSH DEPOSIT (Silt and Clay)		230
	S-5	SS	3-4-6-9	Red Silty CLAY, trace mf well-rounded Gravel		4.8
10				End of Boring at 10 feet.		
15						
20						
25						

ECKENFELDER INC.

TEST BORING LOG

NO. GAF-1D

PROJECT: Remedial Investigation | SHEET NO. 1 of 2

CLIENT: GAF Chemicals Corporation - Linden, NJ | PROJECT NO. 6662

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Craig Conner/Andre Boutoille
EQUIPMENT:	Midway 1300/CME 55
METHOD:	Mud Rotary/NX Core

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split Spoon	NA	NX
DIAMETER	2 inch	NA	2 inch
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	PVC	PVC (0.010")
DIAMETER	2"	2"
COUPLING	Flush Joint	Flush Joint

WELL DEVELOPMENT	
METHOD:	Pump
DURATION:	1 hr.
YIELD:	NA
OTHER:	NA

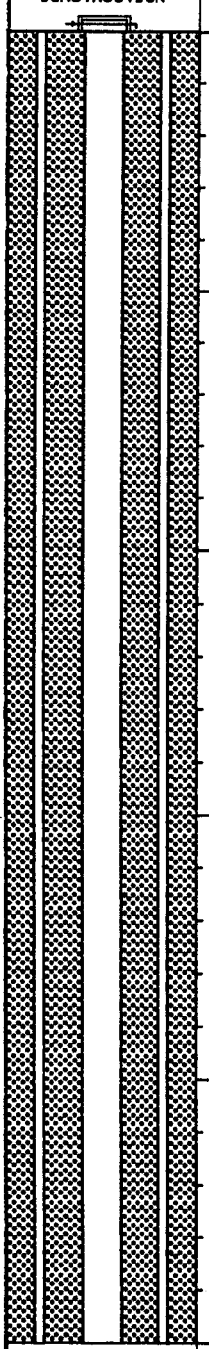
	GROUND	WELL	PROT CSG
ELEV	9.1	NA	11.25

DATE STARTED: 4/4/90

DATE COMPLETED: 4/17/90

INSPECTOR: L. Scheuing/S. Kawchak

WELL CONSTRUCTION

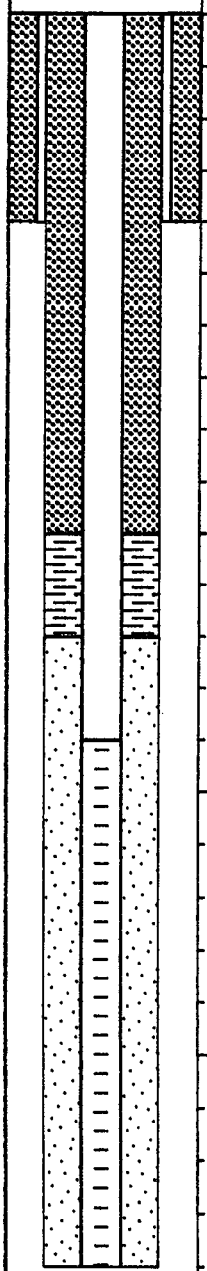


DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	Rec. Feet
0			5-5-10-50	Sample description taken from GAF-1S. FILL Reddish-brown to black SAND, some f Gravel, trace Silt, well rounded		
			45-65-100/4"	@ 3' black to gray GRAVEL and asphalt		
5			4-2-1-3	@ 5' black SILT and Gravel, some m Sand, well rounded		
			2-4-6-7	TIDAL MARSH DEPOSIT (Silt and Clay)		
			3-4-6-9	Red Silty CLAY, trace well-rounded mf Gravel Sampling on GAF-1D began at 10'. GLACIAL TILL		
10	S-1	SS	10-13-14-18	Red-brown CLAY & SILT to Silty CLAY, and to little black and red mf Gravel, some grading to trace mf Sand		.15'
	S-2	SS	13-17-25-32			1.9'
15	S-3	SS	10-12-17-27			0.7'
	S-4	SS	18-30-43-36			0.6'
	S-5	SS	28-31-32-33	@ 18.4' red-brown mf SAND, little CLAY & SILT,		1.2'
20	S-6	SS	27-37-43-34	@ 20' grading to red-brown CLAY & SILT, trace mf Sand, with a 0.5' zone of red-brown mf SAND, trace Clay & Silt @ 20.4'		1.6'
	S-7	SS	12-22-100/2"			NR
				PASSAIC FORMATION Red-brown SILTSTONE, trace very fine to fine Sand		
25						

ECKENFELDER INC.	TEST BORING LOG	NO. GAF-1D

PROJECT: Remedial Investigation — SHEET NO. 2 of 2

CLIENT: GAF Chemicals Corporation - Linden, NJ — PROJECT NO. 6662

WELL CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	SAMPLE BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	Rec. Feet
	25						
	30						
	35						
	40						
	45						
					End of Boring at 49 feet.		
	50						
	55						

ECKENFELDER INC. — TEST BORING LOG — NO. GAF-2S

PROJECT: Remedial Investigation
SHEET NO. 1 of 1
CLIENT: GAF Chemicals Corporation - Linden, NJ
PROJECT NO. 6662

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Andre Boutoille
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split Spoon	NA	NA
DIAMETER	2 inch	NA	NA
OTHER	NA	NA	NA

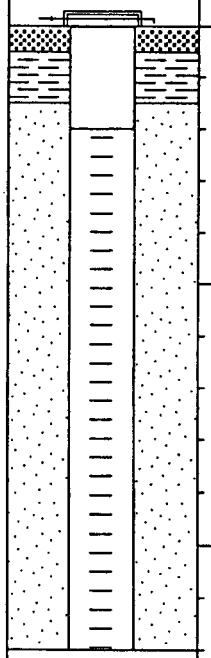
WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	PVC	PVC (0.010")
DIAMETER	2"	2"
COUPLING	Flush Joint	Flush Joint

WELL DEVELOPMENT	
METHOD:	Pump
DURATION:	1 hr.
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV	7.3	NA	9.76

DATE STARTED: 5/7/90
DATE COMPLETED: 5/7/90
INSPECTOR: L. Scheuing/S. Kawchak

BOREHOLE CONSTRUCTION



DEPTH (feet)	SAMPLE NO.	TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	DVA ppm
0	S-1	SS	5-20-24-21	FILL Brown cmf SAND, little Clayey Silt		NA
	S-2	SS	30-47-29-22	@ 2' brown cmf SAND, some f Gravel, trace Silt grading to black oily cmf SAND, little f Gravel, trace Silt, cinders @4' black f Gravel, little Sand, cinders		NA
5	S-3	SS	6-8-4-7			NA
	S-4	SS	7-1-1-1	TIDAL MARSH DEPOSIT (Peat) Brown PEAT grading to gray Clayey Silt, some f Sand	strong H2S odor	NA
	S-5	SS	2-1-1-1			NA
10	S-6	SS	1-1-1-2	(Organic Silt and Clay) Gray Clayey Silt, some f Sand		NA
				End of Boring at 12 feet.		
15						
20						
25						

ECKENFELDER INC.

TEST BORING LOG

NO. GAF-3S

PROJECT: Remedial Investigation
SHEET NO. 1 of 1
CLIENT: GAF Chemicals Corporation - Linden, NJ
PROJECT NO. 6662

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Andre Boutoille
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split Spoon	NA	NA
DIAMETER	2 inch	NA	NA
OTHER	NA	NA	NA

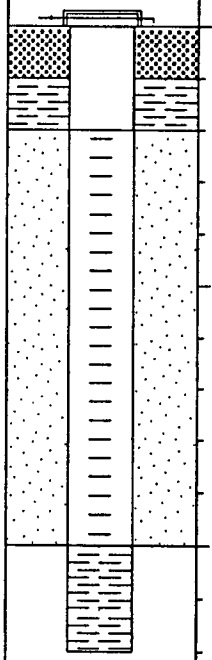
WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	PVC	PVC (0.010")
DIAMETER	2"	2"
COUPLING	Flush Joint	Flush Joint

WELL DEVELOPMENT	
METHOD:	Pump
DURATION:	1 hr.
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV	9.0	NA	12.19

DATE STARTED: 4/4/90
DATE COMPLETED: 4/4/90
INSPECTOR: Steven Kawchak

BOREHOLE CONSTRUCTION



DEPTH (feet)	SAMPLE NO.	TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	DVA ppm
0	S-1	SS	2-6-12-12	FILL Med to dark brown Silty CLAY, trace tan Silty Clay		0
	S-2	SS	7-7-8-8	becoming more silty @ 3' tan and red Silty CLAY, some tan Sand		94
5	S-3	SS	4-6-2-2	@ 6' tan and reddish-brown SAND and SILT		200
	S-4	SS	2-2-2-1			145
	S-5	SS	2-1-1-1	TIDAL MARSH DEPOSIT (Peat)		300
10	S-6	SS	1-1-1-1	Black Silty PEAT (Silt and Clay) @ 10' black to dark gray CLAY & SILT		70
				End of Boring at 12 feet.		
15						
20						
25						

ECKENFELDER INC.

TEST BORING LOG

NO. GAF-6D

PROJECT: Remedial Investigation	SHEET NO. 1 of 2
CLIENT: GAF Chemicals Corporation - Linden, NJ	PROJECT NO. 6662

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Craig Conner/Andre Boutoille
EQUIPMENT:	Midway 1300/CME 55
METHOD:	Mud Rotary/NX Core

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split Spoon	NA	NX
DIAMETER	2 inch	NA	2 inch
OTHER	NA	NA	NA

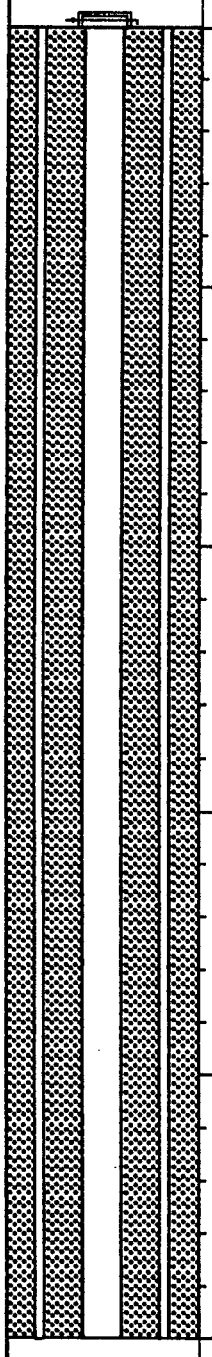
WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	PVC	PVC (0.010")
DIAMETER	2"	2"
COUPLING	Flush Joint	Flush Joint

WELL DEVELOPMENT	
METHOD:	Pump
DURATION:	1 hr.
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV	6.7	8.88	9.05

DATE STARTED: 04/10/90
DATE COMPLETED: 4/17/90
INSPECTOR: L. Scheuing/S. Kawchak

WELL CONSTRUCTION



DEPTH (feet)	SAMPLE NO.	TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	Rec. Feet
0	S-1	SS	2-5-8-17	FILL Brown to black cmf SAND, some to little mf Gravel, trace Clayey Silt to Silt & Clay, covered with black oily substance		1.3'
	S-2	SS	18-21-19-40	@ 3.3' grading to red-brown CLAY & SILT, little mf Sand, also stained with black oily substance		1.6'
5	S-3	SS	5-6-12-12	@ 4' brown cmf SAND, some mf Gravel, trace Clayey Silt, with wood and black oily substance		1.5'
	S-4	SS	3-2-5-5			2.0'
	S-5	SS	3-2-2-2	@ 7.8' grading to red-brown Silty CLAY, trace mf Sand TIDAL MARSH DEPOSITS Gray Silty CLAY, trace (-) f Sand, with black staining	@ 8' slight odor	1.8'
10	S-6	SS	2-2-1-2	@ 9.1' grading to brown PEAT, trace Silty CLAY, trace (-) mf Sand		0.9'
	S-7	SS	2-1-2-1	@ 12.8' grading to gray Silty CLAY, little to trace mf Sand, trace Peat		1.8'
15	S-8	SS	2-2-6-12			1.6'
	S-9	SS	11-11-17-21	@ 16.1' red-brown and gray mf SAND, little Silty Clay GLACIAL TILL		1.9'
	S-10	SS	2-3-6-11	Red-brown CLAY & SILT, some cmf Sand, trace Gravel @ 18' grading to red-brown well-sorted mf SAND, little Silt, trace (-) f Gravel		1.1'
20	S-11	SS	12-15-12-12			1.9'
	S-12	SS	4-8-9-13	@ 22' red-brown Silty CLAY to CLAY & SILT, some (-) to little (+) cmf Sand, trace f Gravel, little Shale		0.5'
25	S-13	SS				1.1'

ECKENFELDER INC.

TEST BORING LOG

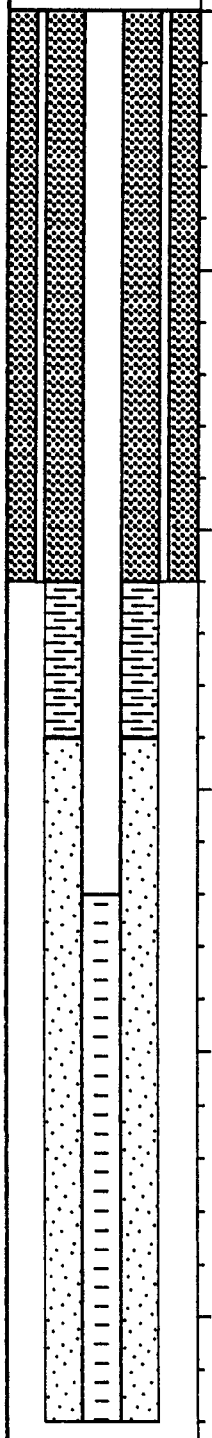
NO. GAF-6D

PROJECT: Remedial Investigation

SHEET NO. 2 of 2

CLIENT: GAF Chemicals Corporation - Linden, NJ

PROJECT NO. 6662



WELL CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	SAMPLE BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	Rec. Feet
	25	S-13	SS	11-15-15-15			1.1'
		S-14	SS	12-12-14-27	RESIDUAL SOIL Red-brown CLAY & SILT, little Sand, little Shale		1.6'
		S-15	SS	19-21-100/4"			1.5'
	30				PASSAIC FORMATION Red-brown SILTSTONE, trace very fine to fine Sand		
	35						
	40						
	45						
	50				End of Boring at 52 feet.		
	55						

ECKENFELDER INC. — TEST BORING LOG

NO. GAF-8S

PROJECT: Remedial Investigation	SHEET NO. 1 of 1
CLIENT: GAF Chemicals Corporation - Linden, NJ	PROJECT NO. 6662

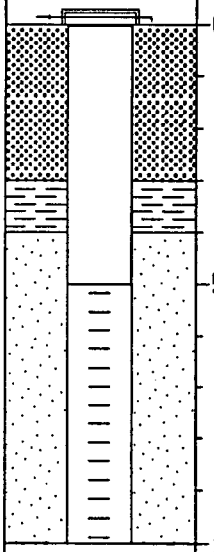
DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Andre Boutoille
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split Spoon	NA	NA
DIAMETER	2 inch	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	PVC	PVC (0.010")
DIAMETER	2"	2"
COUPLING	Flush Joint	Flush Joint

WELL DEVELOPMENT		GROUND	WELL	PROT CSG
METHOD: Pump	ELEV	6.1	NA	8.21
DURATION: 1 hr.	DATE STARTED: 3/29/90			
YIELD: NA	DATE COMPLETED: 3/29/90			
OTHER: NA	INSPECTOR: Steven Kawchak			

BOREHOLE CONSTRUCTION



DEPTH (feet)	SAMPLE NO.	TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
0	S-1	SS	5-6-7-9	FILL Red and grayish-white Silty CLAY, some m Sand, trace cm Gravel, well rounded		9
	S-2	SS	5-8-8-7	@ 3' black - white bottom ash, some m Sand		300
5	S-3	SS	3-4-6-8	@ 5' red Silty CLAY, trace f Gravel, well rounded		800
	S-4	SS	4-5-5-5			100
	S-5	SS	3-2-0-1	TIDAL MARSH DEPOSIT (Silt and Clay) Dark gray Silty CLAY, some mottling of light gray Clay.		760
10				End of Boring at 10 feet.		
15						
20						
25						

ECKENFELDER INC. — TEST BORING LOG — NO. GAF-8D

PROJECT: Remedial Investigation	SHEET NO. 1 of 2
CLIENT: GAF Chemicals Corpotation - Linden, NJ	PROJECT NO. 6662

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Craig Conner/Andre Boutoille
EQUIPMENT:	Midway 1300/CME 55
METHOD:	Mud Rotary/NX Core

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split Spoon	NA	NX
DIAMETER	2 inch	NA	2 inch
OTHER	NA	NA	NA

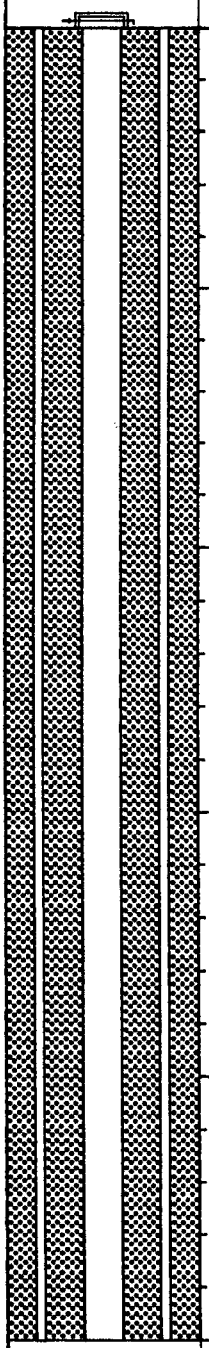
WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	PVC	PVC (0.010")
DIAMETER	2"	2"
COUPLING	Flush Joint	Flush Joint

WELL DEVELOPMENT	
METHOD:	Pump
DURATION:	1 hr.
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV	6.2	NA	8.46

DATE STARTED: 4/6/90
DATE COMPLETED: 4/18/90
INSPECTOR: L. Scheuing/S. Kawchak

WELL CONSTRUCTION



DEPTH (feet)	SAMPLE NO.	TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	Rec. Feet
0			5-6-7-9	Sample description taken from GAF-8S FILL		
				Red to grayish-white Silty CLAY, some m Sand, trace cm Gravel, well rounded		
			5-8-8-7	@ 3' black - white bottom ash, some m Sand		
5			3-4-6-8	@ 5' red Silty CLAY, trace f Gravel, well rounded		
			4-5-5-5			
			3-2-0-1	TIDAL MARSH DEPOSIT		
10				(Silt and Clay)	@ 10' odor through organic layer	
	S-1	SS	4/24"	Dark gray Silty CLAY, some mottling of light gray Clay Sampling at GAF-8D began at 10'.		1.5'
	S-2	SS	4/24"	@ 10' PEAT, little (-) black to gray-brown CLAY & SILT to Silty CLAY, trace f Sand		1.4'
15	S-3	SS	5/24"			1.2'
	S-4	SS	2-2-2-2			1.3'
	S-5	SS	2-2-2-2	@ 18.4' grading to black to slate gray mf SAND, little Silt & Clay		0.9'
20	S-6	SS	8-7-10-10	@ 20' grading to brown Silty CLAY, little f Sand, trace Peat Grading to black to gray mf SAND, some Silty Clay, little to trace (-) mf Gravel		1.4'
	S-7	SS	5-7-9-9			NR
	S-8	SS	7-10-14-19			1.8'
25						

ECKENFELDER INC.

TEST BORING LOG

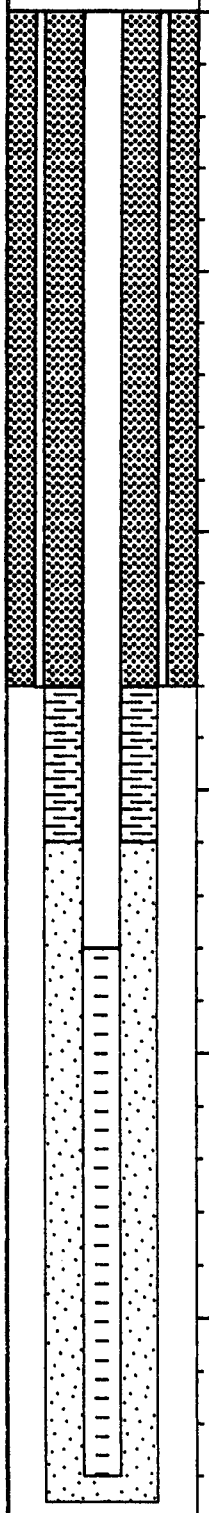
NO. GAF-8D

PROJECT: Remedial Investigation

SHEET NO. 2 of 2

CLIENT: GAF Chemicals Corporation - Linden, NJ

PROJECT NO. 6662



DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	Rec. Feet
25	S-8	SS		GLACIAL TILL		1.8'
	S-9	SS	4-7-8-14	Red-brown Silty CLAY, some to trace cmf Sand, some to trace f Gravel		NR
	S-10	SS	8-7-10-13			0.8'
30	S-11	SS	6-7-9-10			NR
	S-12	SS	20-17-28-27	RESIDUAL SOIL Red-brown Silty CLAY, some cm Gravel, trace (+) cmf Sand, little to trace (-) red Shale		1.2'
35	S-13	SS	35-100/5"	PASSAIC FORMATION Red-brown SILTSTONE, trace very fine to fine Sand		0.4'
40						
45						
50						
				End of Boring at 53.5 feet.		
55						

WELL CONSTRUCTION

ECKENFELDER INC. — TEST BORING LOG

NO. GAF-11S

PROJECT: Remedial Investigation	SHEET NO. 1 of 1
CLIENT: GAF Chemicals Corporation - Linden, NJ	PROJECT NO. 6662

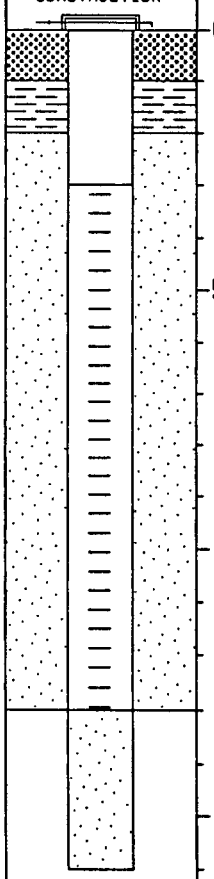
DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Andre Boutoille
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split Spoon	NA	NA
DIAMETER	2 inch	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	PVC	PVC (0.010")
DIAMETER	2"	2"
COUPLING	Flush Joint	Flush Joint

WELL DEVELOPMENT		GROUND	WELL	PROT CSG
METHOD: Pump	ELEV	NA	NA	5.50
DURATION: 1 hr.	DATE STARTED: 4/6/90			
YIELD: NA	DATE COMPLETED: 4/6/90			
OTHER: NA	INSPECTOR: Steven Kawchak			

BOREHOLE CONSTRUCTION



DEPTH (feet)	SAMPLE NO.	TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
0	S-1	SS	2-2-3-4	FILL Light gray to light brown SAND, some Silt, some f Gravel		2
	S-2	SS	3-2-4-2			3
5	S-3	SS	1-1-1-1	@ 4.3' black PEAT, some f Gravel, ash		50
	S-4	SS	1-5-1-1			200
	S-5	SS	1-0-1-0	TIDAL MARSH DEPOSITS		80
10	S-6	SS	1-0-1-0	(Peat) Dark brown to dark gray Silty CLAY and Peat, trace f Sand		100
	S-7	SS	1-0-1-0	(Silt and Clay) @ 13.2' medium gray Silty CLAY, trace f Sand		0.4
15	S-8	SS	1-0-1-0			5
				End of Boring at 16 feet.		
20						
25						

ECKENFELDER INC. — TEST BORING LOG

NO. GAF-11D

PROJECT: Remedial Investigation — SHEET NO. 1 of 2

CLIENT: GAF Chemicals Corporation - Linden, NJ — PROJECT NO. 6662

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Craig Conner/Andre Boutoille
EQUIPMENT:	Midway 1300/CME 55
METHOD:	Mud Rotary/NX Core

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split Spoon	NA	NX
DIAMETER	2 inch	NA	2"
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	PVC	PVC (0.010")
DIAMETER	2"	2"
COUPLING	Flush Joint	Flush Joint

WELL DEVELOPMENT	
METHOD:	Pump
DURATION:	1 hr.
YIELD:	NA
OTHER:	NA

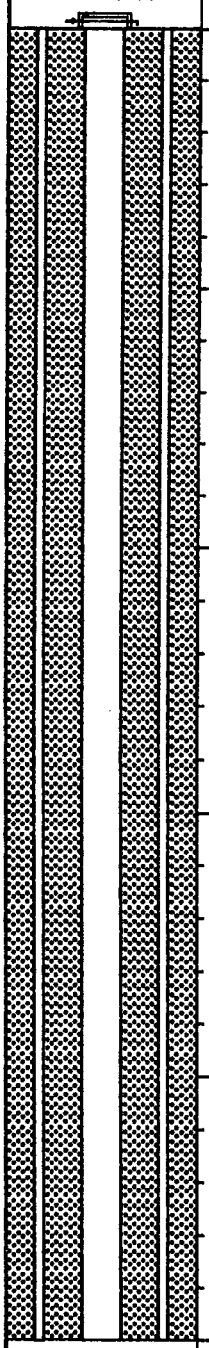
	GROUND	WELL	PROT CSG
ELEV	NA	NA	5.30

DATE STARTED: 4/12/90

DATE COMPLETED: 4/18/90

INSPECTOR: L. Scheuing/S. Kawchak

WELL CONSTRUCTION



DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	Rec. Feet
0			2-2-3-4	Sample description taken from GAF-11S FILL		
				Light gray to light brown SAND, some f Gravel, some Silt		
			3-2-4-2			
				@ 4.3' black PEAT, some f Gravel, ash		
5			1-1-1-1			
			1-5-1-1			
			1-0-1-0			
				TIDAL MARSH DEPOSITS		
10				(Peat)		
			1-0-1-0	Dark brown to dark gray Silty CLAY and Peat, trace f Sand		
			1-0-1-0	(Silt and Clay)		
				@ 13.2' medium gray Silty CLAY, trace f Sand		
15			1-0-1-0			
				Sampling at GAF-11D began at 16'		
				@ 16' slate gray Silty CLAY, trace f Sand, little to trace Peat	Slight odor @ 16'	
	S-1	SS	NOH/18"-1			2.0'
	S-2	SS	NOH/6"-1-1-1			2.0'
20	S-3	SS	NOH/12"-4-7	@ 20.9' grading to slate gray cmf SAND, some (-) to little (+) Clayey Silt, trace (+) well-rounded f Gravel consisting of white quartz grains		1.6'
	S-4	SS	3-3-3-4	@ 23.5' grading to brown-gray to red-brown Silty CLAY, little f Gravel, little cmf Sand		2.0'
	S-5	SS	3-3-4-6	GLACIAL TILL		0.7'
25				Red-brown Silty CLAY, some cmf Sand, little		

ECKENFELDER INC.

TEST BORING LOG

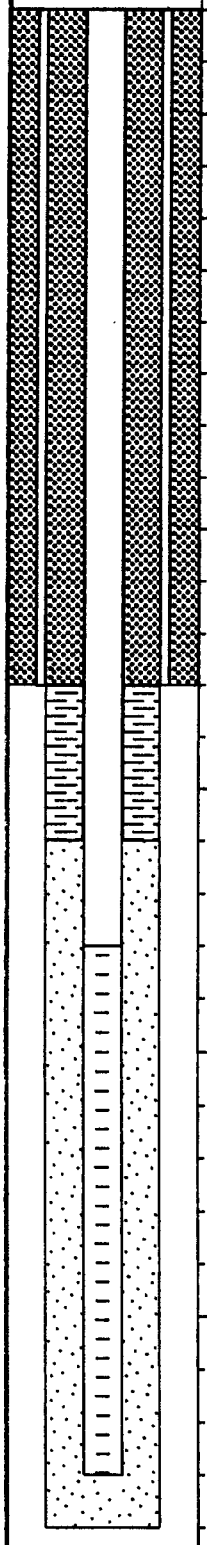
NO. GAF-11D

PROJECT: Remedial Investigation

SHEET NO. 2 of 2

CLIENT: GAF Chemicals Corporation - Linden, NJ

PROJECT NO. 6662



WELL CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	Rec. Feet
	25	S-5	SS				0.7'
		S-6	SS	5-8-10-20			1.8'
		S-7	SS	8-7-7-10			0.3'
	30	S-8	SS	10-17-18-18	RESIDUAL SOIL Weathered red-brown SHALE, little Silty Clay to Clay & Silt		0.5'
		S-9	SS	25-35-100/5"	PASSAIC FORMATION Red-brown SILTSTONE, trace very fine to fine Sand		0.3'
	35						
	40						
	45						
	50						
	55				End of Boring at 54 feet.		

ECKENFELDER INC. — TEST BORING LOG

NO. GAF-12S

PROJECT: Remedial Investigation	SHEET NO. 1 of 1
CLIENT: GAF Chemicals Corporation - Linden, NJ	PROJECT NO. 6662

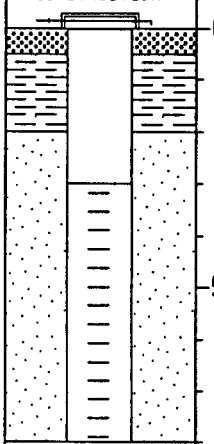
DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Andre Boutoille
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split Spoon	NA	NA
DIAMETER	2 inch	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	PVC	PVC (0.010")
DIAMETER	2"	2"
COUPLING	Flush Joint	Flush Joint

WELL DEVELOPMENT		GROUND	WELL	PROT CSG
METHOD: Pump	ELEV	7.3	9.47	9.85
DURATION: 1 hr.	DATE STARTED: 4/6/90			
YIELD: NA	DATE COMPLETED: 4/6/90			
OTHER: NA	INSPECTOR: Steven Kawchak			

BOREHOLE CONSTRUCTION



DEPTH (feet)	SAMPLE NO.	TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
0	S-1	SS	4-6-10-10	FILL Black - white bottom ash and cinders and SILT some light gray Gravel		110
	S-2	SS	10-15-12-12			60
5	S-3	SS	2-2-1-1		OVA reading 700 - 1000 + above augers, very sour odor. 5 feet from augers OVA reading 20 ppm.	74
	S-4	SS	1-2-2-1	@ 6' black - gray SAND and GRAVEL		900
				End of Boring at 8 feet.		
10						
15						
20						
25						

ECKENFELDER INC.

TEST BORING LOG

NO. GAF-16S

PROJECT: Remedial Investigation
SHEET NO. 1 of 1
CLIENT: GAF Chemicals Corporation
PROJECT NO. 6662

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Andre Boutoille
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split Spoon	NA	NA
DIAMETER	2 inch	NA	NA
OTHER	NA	NA	NA

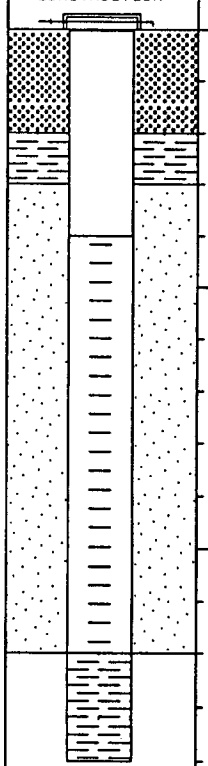
WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	PVC	PVC (0.010")
DIAMETER	2"	2"
COUPLING	Flush Joint	Flush Joint

WELL DEVELOPMENT	
METHOD:	Pump
DURATION:	1 hr.
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV	7.4	9.53	9.75

DATE STARTED: 3/29/90
DATE COMPLETED: 3/29/90
INSPECTOR: Steven Kawchak

BOREHOLE CONSTRUCTION



DEPTH (feet)	SAMPLE NO.	TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
0	S-1	SS	14-12-12-18	FILL Black-brown Soil and some gray Gravel		2
	S-2	SS	8-12-12-10	@ 3' black PEAT, some Silt, some ash and cinders, little mf Gravel		46
5	S-3	SS	4-6-3-1			360
	S-4	SS	1-0-1-0	TIDAL MARSH DEPOSIT (Peat)		36
	S-5	SS	1-0-1-0	Black Silty PEAT	Strong H2S Odor.	41
10	S-6	SS	1-0-0-3	(Silt and Clay) Light gray Silty CLAY, some gray f Sand stringers		90
	S-7	SS	5-7-9-10			210
15				End of Boring at 14 feet.		
20						
25						

ECKENFELDER INC.

TEST BORING LOG

NO. GAF-16D

PROJECT: Remedial Investigation — SHEET NO. 1 of 2

CLIENT: GAF Chemicals Corporation - Linden, NJ — PROJECT NO. 6662

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Craig Conner/Andre Boutoille
EQUIPMENT:	Midway 1300/CME 55
METHOD:	Mud Rotary/NX Core

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split Spoon	NA	NX
DIAMETER	2 inch	NA	2 inch
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	PVC	PVC (0.010")
DIAMETER	2"	2"
COUPLING	Flush Joint	Flush Joint

WELL DEVELOPMENT	
METHOD:	Pump
DURATION:	1 hr.
YIELD:	NA
OTHER:	NA

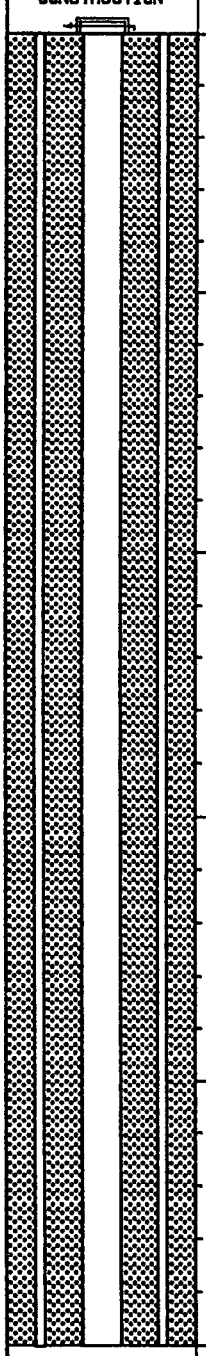
	GROUND	WELL	PROT CSG
ELEV	7.5	9.45	9.43

DATE STARTED: 04/02/90

DATE COMPLETED: 4/9/90

INSPECTOR: Laurie Scheuing

WELL CONSTRUCTION



DEPTH (feet)	SAMPLE NO.	TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	Rec. Feet
0			14-12-12-18	Sample description taken from GAF-16S FILL Black - brown Soil, and some gray Gravel		
			8-12-12-10	@ 3' black PEAT, some Silt, some ash and cinders, little mf Gravel.		
5			4-6-3-1			
			1-0-1-0	TIDAL MARSH DEPOSIT (Peat) Black Silty PEAT		
			1-0-1-0			
10			1-0-0-3	(Organic Silt and Clay) Light gray Silty CLAY, some gray f Sand stringers.		
	S-1	SS	13-17-18-18	Sampling at GAF-16D began at 12' GLACIAL TILL		0.4'
15	S-2	SS	11-19-12-16	@ 12' brown-red mf SAND, little Clayey Silt @ 14' grading to red-brown CLAY & SILT to Silty CLAY, little to trace (-) mf Sand, trace red Shale	Strong odor present through 26'	1.4'
	S-3	SS	4-6-13-8			0.8'
	S-4	SS	12-17-26-22			1.6'
20	S-5	SS	8-10-39-32			0.8'
	S-6	SS	30-33-34-34			1.4'
				RESIDUAL SOIL Dense, red-brown CLAY, little to trace red & green Shale		
25						

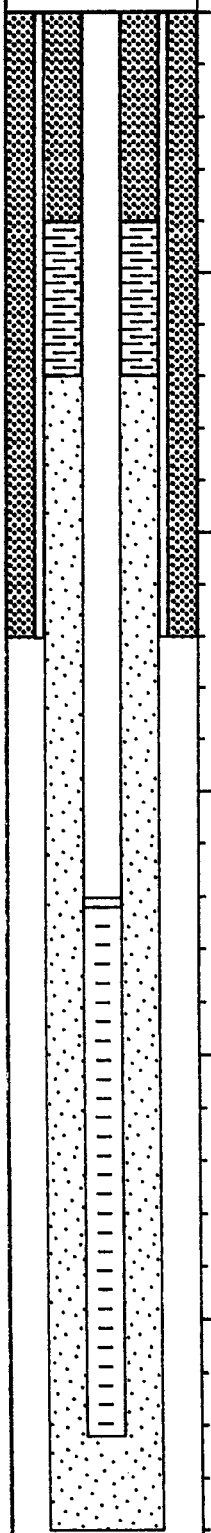
ECKENFELDER INC.

TEST BORING LOG

NO. GAF-16D

PROJECT: Remedial Investigation — SHEET NO. 2 of 2

CLIENT: GAF Chemicals Corporation - Linden, NJ — PROJECT NO. 6662



DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	Rec. Feet
25						
	S-7	SS	18-21-22-23	@ 26' grading to red Silty CLAY, some red Shale		0.9'
	S-8	SS	7-13-19-42			0.8'
30				@ 30' red & green CLAY and SHALE		
	S-9	SS	16-26-50-100			2.0'
				PASSAIC FORMATION Red-brown SILTSTONE, trace very fine to fine Sand		
35						
40						
45						
50						
				End of Boring at 54 feet.		
55						

ECKENFELDER INC.

TEST BORING LOG

NO. GAF-17S

PROJECT: Remedial Investigation
SHEET NO. 1 of 1
CLIENT: GAF Chemicals Corporation - Linden, NJ
PROJECT NO. 6662

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Andre Boutoille
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split Spoon	NA	NA
DIAMETER	2 inch	NA	NA
OTHER	NA	NA	NA

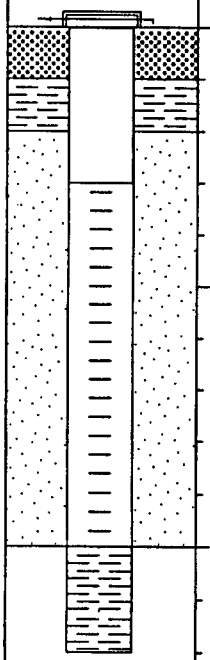
WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	PVC	PVC (0.010")
DIAMETER	2"	2"
COUPLING	Flush Joint	Flush Joint

WELL DEVELOPMENT	
METHOD:	Pump
DURATION:	1 hr.
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV	6.8	NA	9.47

DATE STARTED: 4/6/90
DATE COMPLETED: 4/6/90
INSPECTOR: Steven Kawchak

BOREHOLE CONSTRUCTION



DEPTH (feet)	SAMPLE NO.	TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
0	S-1	SS	4-4-6-10	FILL Reddish-brown CLAY, some light to medium gray Gravel with black ash and cinders		2
	S-2	SS	8-25-25-20			100
5	S-3	SS	1-2-2-1			0.5
	S-4	SS	2-1-2-1	TIDAL MARSH DEPOSITS (Peat)	Strong organic odor.	100
	S-5	SS	1-1-1-1	Black PEAT (Silt & Clay)		0.2
10	S-6	SS	1-0-1-0	@ 8' medium gray Silty CLAY, trace f Sand, slight greenish tint.		50
				End of Boring at 12 feet.		
15						
20						
25						

ECKENFELDER INC. — TEST BORING LOG

NO. GAF-17D

PROJECT: Remedial Investigation — SHEET NO. 1 of 2

CLIENT: GAF Chemicals Corporation - Linden, NJ — PROJECT NO. 6662

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Craig Conner/Andre Boutoille
EQUIPMENT:	Midway 1300/CME 55
METHOD:	Mud Rotary/NX Core

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split Spoon	NA	NX
DIAMETER	2 inch	NA	2 inch
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	PVC	PVC (0.010")
DIAMETER	2"	2"
COUPLING	Flush Joint	Flush Joint

WELL DEVELOPMENT	
METHOD:	Pump
DURATION:	1 hr.
YIELD:	NA
OTHER:	NA

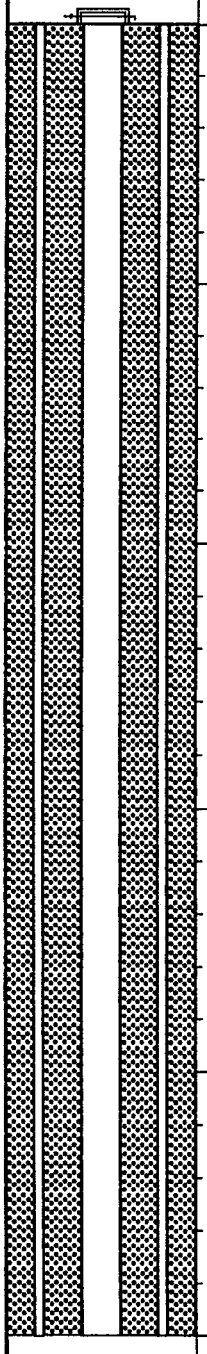
	GROUND	WELL	PROT CSG
ELEV	6.8	NA	8.96

DATE STARTED: 4/11/90

DATE COMPLETED: 4/11/90

INSPECTOR: L. Scheuing/S. Kawchak

WELL CONSTRUCTION



DEPTH (feet)	SAMPLE NO.	TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	Rec. Feet
0			4-4-6-10	Sample description taken from GAF-17S FILL Reddish-brown CLAY, some light to medium gray Gravel with black ash and cinders		
			8-25-25-20			
5			1-2-2-1			
			2-1-2-1	TIDAL MARSH DEPOSITS		
			1-1-1-1	(Peat) Black PEAT (Silt & Clay)	Strong organic odor.	
10			1-0-1-0	@ 8' medium gray Silty CLAY, trace f Sand, slight greenish tint. Sampling at GAF-17D began at 12'		
	S-1	SS	6-7-19-12	GLACIAL TILL @ 12' gray to grey-brown CLAY & SILT, little (+) f Sand @ 12.5' grading to brown-gray to orange-brown mf SAND, some to little Clayey Silt		1.2'
15	S-2	SS	3-6-9-7			1.4'
	S-3	SS	12-4-4-5			NR
	S-4	SS	8-9-11-14	@ 18' red-brown Silty CLAY, some to trace cmf Sand, little to trace (-) sub-rounded f Gravel		2.0'
20	S-5	SS	4-8-11-20			1.0'
	S-6	SS	16-17-17-17			2.0'
	S-7	SS	5-7-6-7	RESIDUAL SOIL Red-brown Silty CLAY, some to trace cmf Sand, trace to trace (-) f Gravel		1.2'
25						

ECKENFELDER INC.

TEST BORING LOG

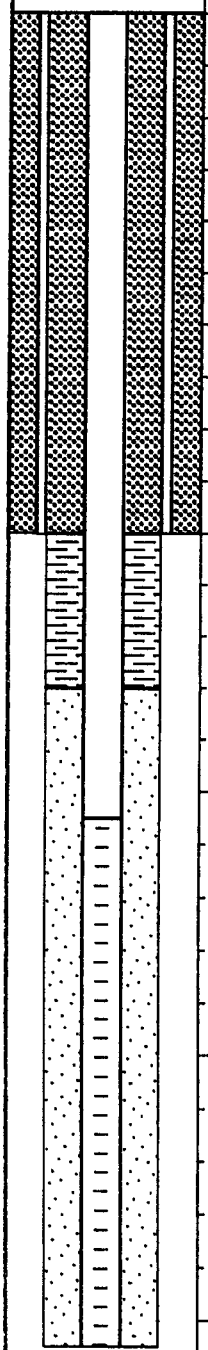
NO. GAF-17D

PROJECT: Remedial Investigation

SHEET NO. 2 of 2

CLIENT: GAF Chemicals Corporation - Linden, NJ

PROJECT NO. 6662



WELL CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	Rec. Feet
	25	S-7	SS				1.2'
		S-8	SS	10-21-13-28	@ 26.8' weathered red-brown SHALE, with patches of green		1.1'
		S-9	SS	13-100/4"			0.9'
	30				PASSAIC FORMATION Red-brown SILTSTONE, trace very fine to fine Sand		
	35						
	40						
	45						
	50				End of Boring at 50.5 feet.		
	55						

ECKENFELDER INC. — TEST BORING LOG

NO. GAF-18S

PROJECT: Remedial Investigation — SHEET NO. 1 of 1

CLIENT: GAF Chemicals Corporation - Linden, NJ — PROJECT NO. 6662

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Andre Boutoille
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split Spoon	NA	NA
DIAMETER	2 inch	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	PVC	PVC (0.010")
DIAMETER	2"	2"
COUPLING	Flush Joint	Flush Joint

WELL DEVELOPMENT	
METHOD:	Pump
DURATION:	1 hr.
YIELD:	NA
OTHER:	NA

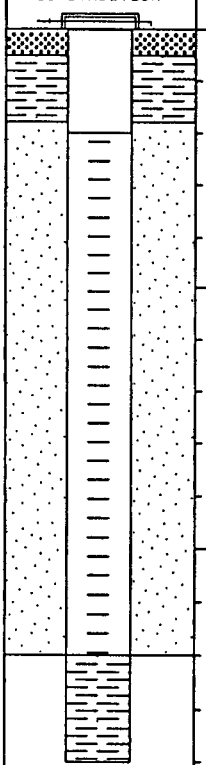
	GROUND	WELL	PROT CSG
ELEV	10.4	NA	13.08

DATE STARTED: 4/9/90

DATE COMPLETED: 4/9/90

INSPECTOR: Steven Kawchak

BOREHOLE CONSTRUCTION



DEPTH (feet)	SAMPLE NO.	TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
0	S-1	SS	1-25-3-2	FILL Dark brown to medium gray Silty CLAY, some m Sand		1
	S-2	SS	2-1-1-1	@ 2' brown SILT & CLAY, some Sand		1
5	S-3	SS	2-1-2-1	@ 4' black oily fiber/tar board, some Clay & Silt		1000
	S-4	SS	4-5-70-5	@ 6' black oily Clay & Silt	OVA reading 45 ppm in augers, 6ppm at top of augers.	1000
	S-5	SS	3-2-1-1	TIDAL MARSH DEPOSIT (Peat)		1000
10	S-6	SS	2-2-2-4	Black PEAT, some Silt @ 10' black oily Peat and mf Gravel, some Silt	Saturated with oil.	1000
	S-7	SS	4-4-5-7	(Silt and Clay) @ 12' reddish-brown Silty CLAY, trace mf Gravel		800
15				End of Boring at 14 feet.		
20						
25						

ECKENFELDER INC.

TEST BORING LOG

NO. GAF-19S

PROJECT: Remedial Investigation
SHEET NO. 1 of 1
CLIENT: GAF Chemicals Corporation - Linden, NJ
PROJECT NO. 6662

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Andre Boutoille
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split Spoon	NA	NA
DIAMETER	2 inch	NA	NA
OTHER	NA	NA	NA

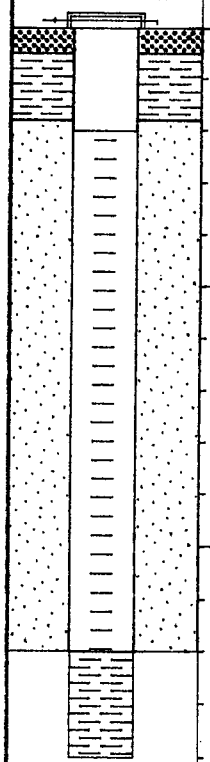
WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	PVC	PVC (0.010")
DIAMETER	2"	2"
COUPLING	Flush Joint	Flush Joint

WELL DEVELOPMENT	
METHOD:	Pump
DURATION:	1 hr.
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV	9.8	NA	12.57

DATE STARTED: 4/10/90
DATE COMPLETED: 4/10/90
INSPECTOR: Steven Kawchak

BOREHOLE CONSTRUCTION



DEPTH (feet)	SAMPLE NO.	TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
0	S-1	SS	2-3-2-3	FILL Black to tan SAND, little Silt and ash.		4
	S-2	SS	2-2-4-4			4
5	S-3	SS	2-5-10-4	Reddish Gray to black SAND, little Silt, with wood pieces.		620
	S-4	SS	5-3-2-2	Black oily Silty CLAY with wood pieces.		160
	S-5	SS	1-1-1-1	TIDAL MARSH DEPOSIT (Peat)		na
10	S-6	SS	2-1-2-1	Black Silty PEAT.		na
	S-7	SS	2-4-6-8	(Organic Silt and Clay) Medium gray Silty CLAY, some Sand.		100
15				End of Boring at 14 feet.		
20						
25						

ECKENFELDER INC.

TEST BORING LOG

NO. GAF-20S

PROJECT: Remedial Investigation
SHEET NO. 1 of 1
CLIENT: GAF Chemicals Corporation - Linden, NJ
PROJECT NO. 6662

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Andre Boutoille
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split Spoon	NA	NA
DIAMETER	2 inch	NA	NA
OTHER	NA	NA	NA

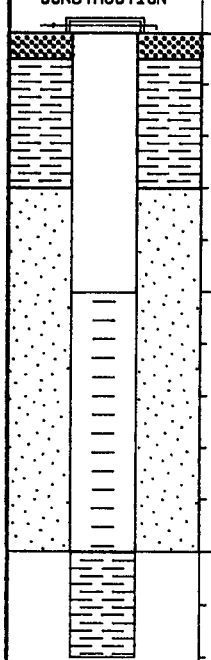
WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	PVC	PVC (0.010")
DIAMETER	2"	2"
COUPLING	Flush Joint	Flush Joint

WELL DEVELOPMENT	
METHOD:	Pump
DURATION:	1 hr.
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV	10.3	NA	13.22

DATE STARTED: 4/9/90
DATE COMPLETED: 4/9/90
INSPECTOR: Steven Kawchak

BOREHOLE CONSTRUCTION



DEPTH (feet)	SAMPLE NO.	TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
0	S-1	SS	1-1-1-1	FILL Orange brown to reddish black SILT & CLAY, little Sand		0.8
	S-2	SS	1-1-1-1			18
5	S-3	SS	1-3-4-5	Dark gray to reddish black Clayey SILT, some Sand, some styrofoam		200
	S-4	SS	6-14-7-14	Reddish black Silty CLAY.	free oil	80
	S-5	SS	1-1-0-1	TIDAL MARSH DEPOSITS (Peat)	free oil	100
10	S-6	SS	3-3-3-7	Reddish black PEAT grading to Silty CLAY. (Organic Silt and Clay)		0.4
				Med Gray Silty CLAY, some mf Sand. End of Boring at 12 feet.		5
15						
20						
25						

ECKENFELDER INC.

TEST BORING LOG

NO. GAF-21S

PROJECT: Remedial Investigation
SHEET NO. 1 of 1
CLIENT: GAF Chemicals Corporation - Linden, NJ
PROJECT NO. 6787

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Paul Keeney
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split spoon	NA	NA
DIAMETER	3"	NA	NA
OTHER	NA	NA	NA

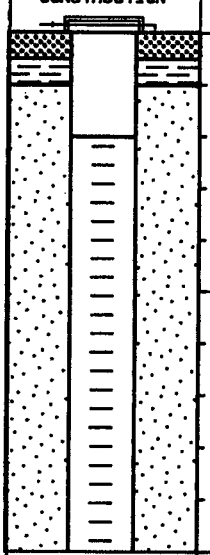
WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	PVC	PVC
DIAMETER	2"	2"
COUPLING	Flush Joint	Flush Joint

WELL DEVELOPMENT	
METHOD:	Pump
DURATION:	NA
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV	7.9	10.38	NA

DATE STARTED: 7/90
DATE COMPLETED: 7/90
INSPECTOR: Steven Kawchak

BOREHOLE CONSTRUCTION



DEPTH (feet)	SAMPLE NO.	TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
0	S-1	SS	1-1-8-9	FILL Brown to maroon Silty CLAY, no to little cf Sand, mixed with roots near surface		2.4
	S-2	SS	7-6-16-19	@ 2.2' green-brown cf SAND, some mf Gravel, little red-brown to black Silty Clay		180
5	S-3	SS	13-15-9-9	@ 4.6' black cinders and Silty CLAY, little mf Sand, no to some mf Gravel		1000+
	S-4	SS	3-3-2-4	@ 7' gray to white Silty CLAY with a rubbery texture		210
10				End of Boring at 8 feet. Boring description is from JB-65 located adjacent to this location.		
15						
20						
25						

ECKENFELDER INC. — TEST BORING LOG

NO. GAF-22S

PROJECT: Remedial Investigation — SHEET NO. 1 of 1

CLIENT: GAF Chemicals Corporation - Linden, NJ — PROJECT NO. 6662

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Andre Boutoille
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split Spoon	NA	NA
DIAMETER	2 inch	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	PVC	PVC (0.010")
DIAMETER	2"	2"
COUPLING	Flush Joint	Flush Joint

WELL DEVELOPMENT	
METHOD:	Pump
DURATION:	1 hr.
YIELD:	NA
OTHER:	NA

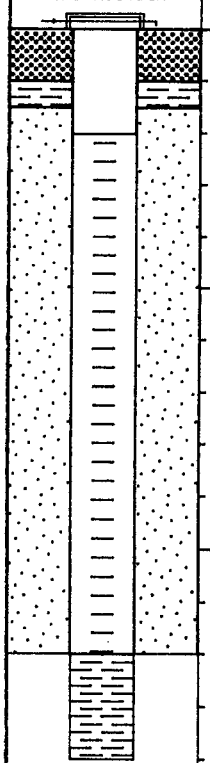
	GROUND	WELL	PROT CSG
ELEV	7.3	NA	10.28

DATE STARTED: 4/4/90

DATE COMPLETED: 4/4/90

INSPECTOR: Steven Kawchak

BOREHOLE CONSTRUCTION



DEPTH (feet)	SAMPLE NO.	TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
0	S-1	SS	3-5-6-5	FILL Reddish brown Silty CLAY, some medium to dark gray cmf Gravel, angular.		6
	S-2	SS	2-1-1-2	Medium gray Silty CLAY		1
5	S-3	SS	2-1-0-1			100
	S-4	SS	3-7-7-6	Reddish brown broken SHALE.	Free Black oil spots at 6.1'	58
	S-5	SS	1-1-1-1	TIDAL MARSH DEPOSIT (Peat)	OVA indicates 50 ppm in augers.	600
10	S-6	SS	1-0-1-1	Black Silty PEAT (Organic Silt and Clay)	trace oil. OVA indicates 30 ppm in augers.	760
	S-7	SS	2-1-2-2	Dark Gray Silty CLAY		720
15				End of Boring at 14 feet.		
20						
25						

ECKENFELDER INC.

TEST BORING LOG

NO. GAF-23S

PROJECT: Remedial Investigation
SHEET NO. 1 of 1
CLIENT: GAF Chemicals Corporation - Linden, NJ
PROJECT NO. 6787

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Paul Keeney
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

SAMPLING METHODS			
	SAMPLER	TUBE	CORE
TYPE	Split Spoon	NA	NA
DIAMETER	3 inch	NA	NA
OTHER	NA	NA	NA

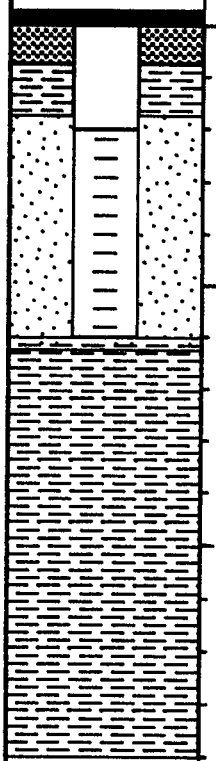
WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	PVC	PVC
DIAMETER	2"	2"
COUPLING	Flush Joint	Flush Joint

WELL DEVELOPMENT	
METHOD:	Pump
DURATION:	1 Hr
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV	8.7	8.51	8.79

DATE STARTED: 6/11/90
DATE COMPLETED: 6/11/90
INSPECTOR: S. Kawchak/S. Matthews

BOREHOLE CONSTRUCTION



DEPTH (feet)	SAMPLE NO.	TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
0	S-1	SS	Not Available	FILL Orange-brown SAND and SILT, grading to black f SAND and GRAVEL, with plastic sheets, cinders, and ash present	@ 2' odor	3.2
	S-2	SS				690
5	S-3	SS		@ 4.8' red-rusty brown Clayey SILT and SAND @ 6' Black SAND and GRAVEL		1000+
	S-4	SS				110
	S-5	SS				245
10	S-6	SS				225
	S-7	SS		@ 12' grading to gray Silty CLAY to dark brown SILT and to little brown SAND, some Gravel		60
15				End of Boring at 16 feet. Boring description is from JB-24 located adjacent to this location. No soil samples were collected during the installation of this well.		
20						
25						

ECKENFELDER INC. — TEST BORING LOG

NO. GAF-24S

PROJECT: Remedial Investigation | SHEET NO. 1 of 1

CLIENT: GAF Chemicals Corporation - Linden, NJ | PROJECT NO. 6787

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Paul Keeney
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split Spoon	NA	NA
DIAMETER	3 inch	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	PVC	PVC
DIAMETER	2"	2"
COUPLING	Flush Joint	Flush Joint

WELL DEVELOPMENT	
METHOD:	Pump
DURATION:	1 Hr
YIELD:	2 GPM
OTHER:	NA

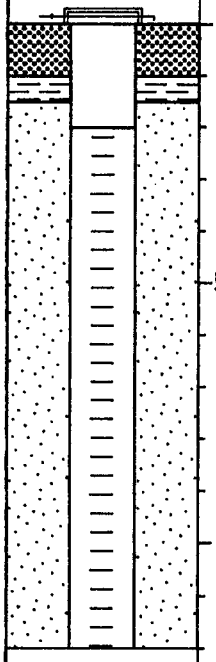
	GROUND	WELL	PROT CSG
ELEV	10.5	12.26	12.56

DATE STARTED: 10/2/90

DATE COMPLETED: 10/2/90

INSPECTOR: Dan St. Germain

BOREHOLE CONSTRUCTION



DEPTH (feet)	SAMPLE NO.	TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
0	S-1	SS	2-8-10-10	FILL Black and tan Silty CLAY and to trace GRAVEL, some f Sand		16
	S-2	SS	26-12-9-9	@ 2.3' red and black cinders with glass fragments		720
5	S-3	SS	3-19-25-10	@ 4' brown CLAY and GRAVEL, with wood		NR
	S-4	SS	3-2-3-5			NR
	S-5	SS	NA	@ 8.7' black Silty PEAT grading to gray Clayey SILT		1000+
10	S-6	SS	NA	@ 10.8' grading to gray-black Silty CLAY @ 11.5' Red residual soil		1000+
15				End of Boring at 12 feet. Boring description is from JB-41 located adjacent to this location. No soil samples were collected during the installation of this well.		
20						
25						

ECKENFELDER INC.	TEST BORING LOG	NO. GAF-25S

PROJECT: Remedial Investigation — SHEET NO. 1 of 1

CLIENT: GAF Chemicals Corporation - Linden, NJ — PROJECT NO. 6070

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Paul Keeney
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split spoon	NA	NA
DIAMETER	3"	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	PVC	PVC
DIAMETER	2"	2"
COUPLING	Flush Joint	Flush Joint

WELL DEVELOPMENT	
METHOD:	Pump
DURATION:	1 Hr
YIELD:	3 GPM
OTHER:	NA

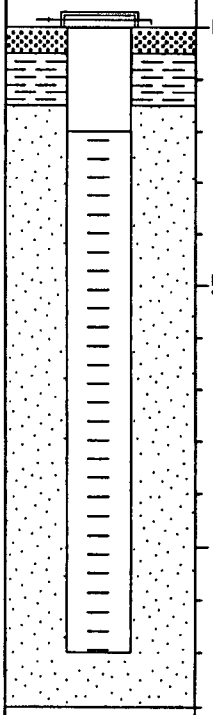
	GROUND	WELL	PROT CSG
ELEV	7.624	9.549	9.629

DATE STARTED: 10/2/90

DATE COMPLETED: 10/2/90

INSPECTOR: Daniel St. Germain

BOREHOLE CONSTRUCTION



DEPTH (feet)	SAMPLE NO.	TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
0	S-1	SS	4-7-8-8	FILL Brown to black-brown cmf SAND, little to some (-) f Gravel, trace to no Clayey Silt		180
	S-2	SS	5-3-4-5	@ 0.8' red-brown Clayey SILT, little cmf Sand, mixing with black cinders @ 2' black cinders, little to some red-brown Clayey Silt, small amount of wood chips		580
5	S-3	SS	3-2-1-1	@ 6' brown-black Clayey SILT, little mf Sand	@ 4' strong odor throughout remaining section	1000+
	S-4	SS	1-1-1-1	TIDAL MARSH DEPOSITS PEAT and gray Silty CLAY		1000+
10				End of Boring at 8 feet. Boring description is from JB-6 located adjacent to this location. No soil samples were collected during the installation of this well.		
15						
20						
25						

ECKENFELDER INC.

TEST BORING LOG

NO. GAF-26S

PROJECT: Remedial Investigation
SHEET NO. 1 of 1
CLIENT: GAF Chemicals Corporation - Linden, NJ
PROJECT NO. 6070

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Paul Keeney
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split spoon	NA	NA
DIAMETER	3"	NA	NA
OTHER	NA	NA	NA

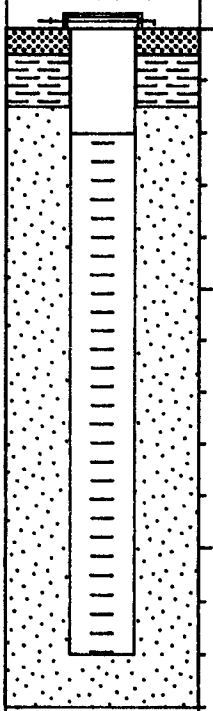
WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	PVC	PVC
DIAMETER	2"	2"
COUPLING	Flush Joint	Flush Joint

WELL DEVELOPMENT	
METHOD:	Pump
DURATION:	1Hr
YIELD:	3 GPM
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV	7.164	8.794	9.264

DATE STARTED: 10/2/90
DATE COMPLETED: 10/2/90
INSPECTOR: Daniel St. Germain

BOREHOLE CONSTRUCTION



DEPTH (feet)	SAMPLE NO.	TYPE	BLONS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1958)	REMARKS	OVA ppm
0	S-1	SS	1-1-2-1	FILL Brown cmf SAND, some Clayey Silt @ 0.5' black CLAY & SILT, little (+) f Gravel, trace cmf Sand, covered with black and purple substance @ 2' saturated black cinders, some Silty Clay, little f Gravel	@ 2' strong odor throughout remaining section	28
	S-2	SS	4-5-5-4			72
5	S-3	SS	2-3-2-2			160
	S-4	SS	4-2-3-3			880
				TIDAL MARSH DEPOSITS Dark brown PEAT, stained black near top of interval		
10				End of Boring at 8 feet. Boring description is from JB-26 located adjacent to this location. No soil samples were collected during the installation of this well.		
15						
20						
25						

ECKENFELDER INC.	TEST BORING LOG	NO. GAF-27S

PROJECT: Remedial Investigation - Linden New Jersey — SHEET NO. 1 of 1

CLIENT: GAF Chemicals Corporation - Linden, NJ — PROJECT NO. 6070

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Paul Keeney
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split Spoon	NA	NA
DIAMETER	3 inch	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	PVC	PVC
DIAMETER	2"	2"
COUPLING	Flush Joint	Flush Joint

WELL DEVELOPMENT	
METHOD:	Pump
DURATION:	1Hr
YIELD:	2 GPM
OTHER:	NA

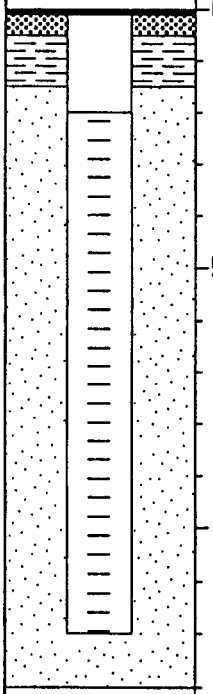
	GROUND	WELL	PROT CSG
ELEV	10.879	10.409	10.949

DATE STARTED: 10/5/90

DATE COMPLETED: 10/5/90

INSPECTOR: Daniel St. Germain

BOREHOLE CONSTRUCTION



DEPTH (feet)	SAMPLE NO.	TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
0	S-1	SS	MOH/24"	FILL Black and green SILT and SAND @ 2' PEAT and black-green SILT and SAND		NA
	S-2	SS	MOH/24"			NA
5	S-3	SS	MOH/24"			NA
	S-4	SS	MOH/24"	@ 6' grading to army green Silty CLAY, with plant fibers		NA
				End of Boring at 8 feet. Boring description is from JB-32 located adjacent to this location. No soil samples were collected during the installation of this well.		
10						
15						
20						
25						

ECKENFELDER INC.	TEST BORING LOG	NO. GAF-28S

PROJECT: Remedial Investigation - Linden New Jersey	SHEET NO. 1 of 1
CLIENT: GAF Chemicals Corporation - Linden, NJ	PROJECT NO. 6070

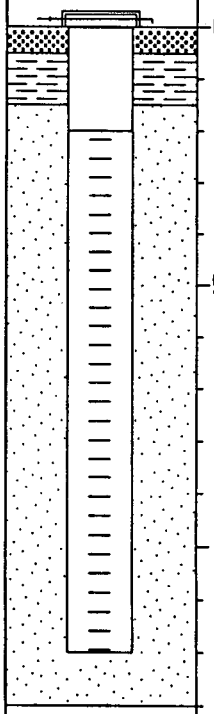
DRILLING DATA	
CONTRACTOR: Empire Soils Investigation - Edison, NJ	
DRILLER: Paul Keeney	
EQUIPMENT: CME 55	
METHOD: Hollow Stem Auger	

SAMPLING METHODS			
	SAMPLER	TUBE	CORE
TYPE	Split Spoon	NA	NA
DIAMETER	3 inch	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION		
	RISER	INTAKE
MATERIAL	PVC	PVC
DIAMETER	2"	2"
COUPLING	Flush Joint	Flush Joint

WELL DEVELOPMENT				
METHOD: Pump		GROUND	WELL	PROT CSG
DURATION: 1 Hr	ELEV	7.829	9.409	9.699
YIELD: 3 GPM	DATE STARTED: 10/1/90			
OTHER: NA	DATE COMPLETED: 10/1/90			
	INSPECTOR: Daniel St. Germain			

BOREHOLE CONSTRUCTION



DEPTH (feet)	SAMPLE NO.	TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
0	S-1	SS	NA	FILL Dark brown SAND and SILT, some to little f Gravel		NA
	S-2	SS	NA	@ 4' gray-brown Silty CLAY		NA
5	S-3	SS	NA			NA
	S-4	SS	NA			NA
10				End of Boring at 8 feet. Boring description is from JB-58 located adjacent to this location. No soil samples were collected during the installation of this well.		
15						
20						
25						

ECKENFELDER INC.

TEST BORING LOG

NO. GAF-29S

PROJECT: Remedial Investigation
SHEET NO. 1 of 1
CLIENT: GAF Chemicals Corporation - Linden, NJ
PROJECT NO. 6070

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Paul Keeney
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

SAMPLING METHODS			
	SAMPLER	TUBE	CORE
TYPE	Split spoon	NA	NA
DIAMETER	3"	NA	NA
OTHER	NA	NA	NA

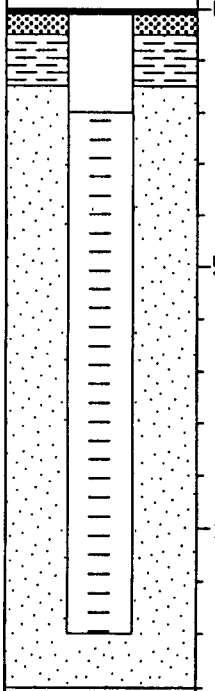
WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	PVC	PVC
DIAMETER	2"	2"
COUPLING	Flush Joint	Flush Joint

WELL DEVELOPMENT	
METHOD:	Pump
DURATION:	1Hr
YIELD:	8 GPM
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV	7.264	6.794	7.314

DATE STARTED: 10/1/90
DATE COMPLETED: 10/1/90
INSPECTOR: Daniel St. Germain

BOREHOLE CONSTRUCTION



DEPTH (feet)	SAMPLE NO.	TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
0	S-1	SS	54-48-46-29	FILL Black asphalt, some cf Sand, little f Gravel		8.4
	S-2	SS	27-19-20-19	@ 0.6' gray cf GRAVEL, little cf Sand, trace Clayey Silt @ 2' black to brown cf SAND, some mf Gravel, little to some Clayey Silt		94
5	S-3	SS	12-9-8-7			NA
	S-4	SS	4-5-5-6	@ 6' black cinders and ash, little Clayey Silt	Strong odor	1000+
10				End of Boring at 8 feet. Boring description is from JB-14 located adjacent to this location. No soil samples were collected during the installation of this well.		
15						
20						
25						

ECKENFELDER INC.

TEST BORING LOG

NO. GAF-30S

PROJECT: Remedial Investigation — SHEET NO. 1 of 1

CLIENT: GAF Chemicals Corporation - Linden, NJ — PROJECT NO. 6070

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Paul Keeney
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split Spoon	NA	NA
DIAMETER	3 inch	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	PVC	PVC
DIAMETER	2"	2"
COUPLING	Flush Joint	Flush Joint

WELL DEVELOPMENT	
METHOD:	Pump
DURATION:	1 Hr
YIELD:	3 GPM
OTHER:	NA

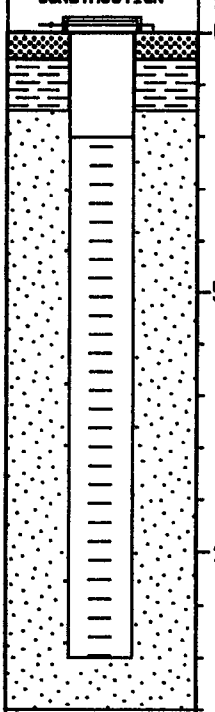
	GROUND	WELL	PROT CSG
ELEV	7.834	7.329	7.839

DATE STARTED: 10/1/90

DATE COMPLETED: 10/1/90

INSPECTOR: Daniel St. Germain

BOREHOLE CONSTRUCTION



DEPTH (feet)	SAMPLE NO.	TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
0	S-1	SS	7-17-11-2	FILL Black f GRAVEL and SILT @ 4.5 Black SILT and f SAND		0
	S-2	SS	1-1-1-1			0
5	S-3	SS	1-1-1-1			0
	S-4	SS	3-4-7-9			0
	S-5	SS	1-1-1-1			0
10	S-6	SS	3-2-2-2			0
				End of Boring at 13 feet.		
15						
20						
25						

ECKENFELDER INC.	TEST BORING LOG	NO. WP-29

PROJECT: Remedial Investigation — SHEET NO. 1 of 1

CLIENT: GAF Chemicals Corporation - Linden, NJ — PROJECT NO. 6662

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Andre Boutoille
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split Spoon	NA	NA
DIAMETER	2 inch	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	PVC	PVC (0.010")
DIAMETER	1.25"	1.25"
COUPLING	Flush Joint	Flush Joint

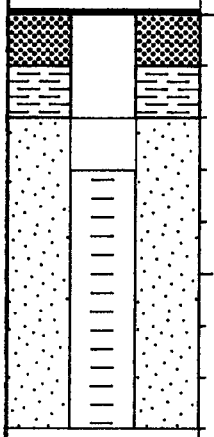
WELL DEVELOPMENT	
METHOD:	Pump
DURATION:	0.5 hr.
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV	6.3	6.37	NA

DATE STARTED: 3/29/90

DATE COMPLETED: 3/29/90

INSPECTOR: Steven Kawchak

BOREHOLE CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
	0				FILL		
	5	S-1	SS	1-0-1-0	Black, mf GRAVEL, ash, cinders and wood, angular	OVA indicates 40 ppm in augers at 5'.	
					End of Boring at 8 feet.		
	10						
	15						
	20						
	25						

ECKENFELDER INC.

TEST BORING LOG

NO. WP-30

PROJECT: Remedial Investigation — SHEET NO. 1 of 1

CLIENT: GAF Chemicals Corporation - Linden, NJ — PROJECT NO. 6662

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Andre Boutoille
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split Spoon	NA	NA
DIAMETER	2 inch	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	PVC	PVC (0.010")
DIAMETER	1.25"	1.25"
COUPLING	Flush Joint	Flush Joint

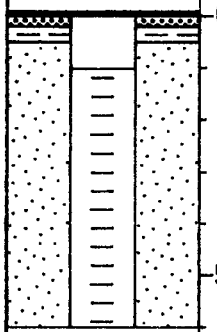
WELL DEVELOPMENT	
METHOD:	Pump
DURATION:	0.5 hr.
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV	6.2	6.22	NA

DATE STARTED: 3/28/90

DATE COMPLETED: 3/28/90

INSPECTOR: Steven Kawchak

BOREHOLE CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
	0				FILL		
	5	S-1	SS	2-15-15-10	Black, tan, white f GRAVEL, some mf Sand and bottom ash, angular		
					End of Boring at 7 feet.		
	10						
	15						
	20						
	25						

ECKENFELDER INC.

TEST BORING LOG

NO. WP-31

PROJECT: Remedial Investigation — SHEET NO. 1 of 1

CLIENT: GAF Chemicals Corporation - Linden, NJ — PROJECT NO. 6662

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Andre Boutoille
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split Spoon	NA	NA
DIAMETER	2 inch	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	PVC	PVC (0.010")
DIAMETER	1.25"	1.25"
COUPLING	Flush Joint	Flush Joint

WELL DEVELOPMENT	
METHOD:	Pump
DURATION:	0.5 hr.
YIELD:	NA
OTHER:	NA

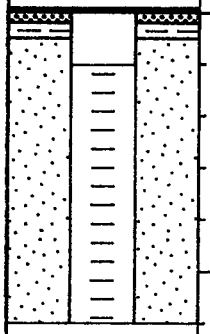
	GROUND	WELL	PROT CSG
ELEV	6.6	6.59	NA

DATE STARTED: 3/28/90

DATE COMPLETED: 3/28/90

INSPECTOR: Steven Kawchak

BOREHOLE CONSTRUCTION



DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
0				FILL		
5	S-1	SS	4-3-3-7	Black and white mf GRAVEL, trace m Sand, bottom ash, angular	OVA reading in augers is 1 ppm.	
				End of Boring at 7 feet.		
10						
15						
20						
25						

ECKENFELDER INC. — TEST BORING LOG — NO. WP-32

PROJECT: Remedial Investigation	SHEET NO. 1 of 1
CLIENT: GAF Chemicals Corporation - Linden, NJ	PROJECT NO. 6662

DRILLING DATA	
CONTRACTOR: Empire Soils Investigation - Edison, NJ	
DRILLER: Andre Boutoille	
EQUIPMENT: CME 55	
METHOD: Hollow Stem Auger	

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split Spoon	NA	NA
DIAMETER	2 inch	NA	NA
OTHER	NA	NA	NA

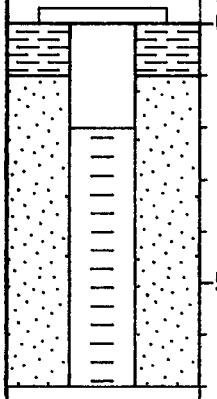
WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	PVC	PVC (0.010")
DIAMETER	1.25"	1.25"
COUPLING	Flush Joint	Flush Joint

WELL DEVELOPMENT	
METHOD: Pump	
DURATION: 0.5 hr.	
YIELD: NA	
OTHER: NA	

	GROUND	WELL	PROT CSG
ELEV	7.2	10.05	NA

DATE STARTED: 3/28/90
DATE COMPLETED: 3/28/90
INSPECTOR: Steven Kawchak

BOREHOLE CONSTRUCTION



DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
0				FILL		
5	S-1	SS	5-5-6-7	Black mf GRAVEL, and mf Sand, bottom ash		
				End of Boring at 7 feet.		
10						
15						
20						
25						

ECKENFELDER INC.

TEST BORING LOG

NO. WP-33

PROJECT: Remedial Investigation — SHEET NO. 1 of 1

CLIENT: GAF Chemicals Corporation - Linden, NJ — PROJECT NO. 6662

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Andre Boutoille
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split Spoon	NA	NA
DIAMETER	2 inch	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	PVC	PVC (0.010")
DIAMETER	1.25"	1.25"
COUPLING	Flush Joint	Flush Joint

WELL DEVELOPMENT	
METHOD:	Pump
DURATION:	0.5 hr.
YIELD:	NA
OTHER:	NA

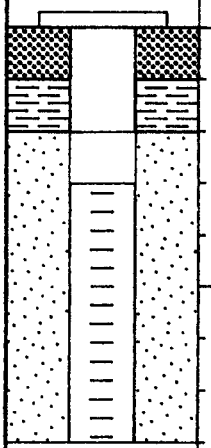
	GROUND	WELL	PROT CSG
ELEV	6.4	6.02	6.46

DATE STARTED: 3/28/90

DATE COMPLETED: 3/28/90

INSPECTOR: Steven Kawchak

BOREHOLE CONSTRUCTION



DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
0				FILL		
5	S-1	SS	6-4-3-3	Black mf GRAVEL	OVA indicated 1,000 ppm in augers at 5'.	
					OVA indicated 350 ppm in augers at 7'.	
				End of Boring at 8 feet.		
10						
15						
20						
25						

ECKENFELDER INC.

TEST BORING LOG

NO. WP-34

PROJECT: Remedial Investigation
SHEET NO. 1 of 1
CLIENT: GAF Chemicals Corporation - Linden, NJ
PROJECT NO. 6662

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Andre Boutoille
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split Spoon	NA	NA
DIAMETER	2 inch	NA	NA
OTHER	NA	NA	NA

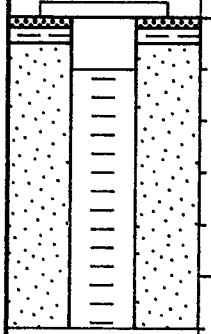
WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	PVC	PVC (0.010")
DIAMETER	1.25"	1.25"
COUPLING	Flush Joint	Flush Joint

WELL DEVELOPMENT	
METHOD:	Pump
DURATION:	0.5 hr.
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV	7.0	10.88	NA

DATE STARTED: 3/28/90
DATE COMPLETED: 3/28/90
INSPECTOR: Steven Kawchak

BOREHOLE CONSTRUCTION



DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
0				FILL		
5	S-1	SS	3-3-3-4	Black mf GRAVEL, trace Silt, angular	OVA reading in augers is 1 ppm.	
				End of Boring at 7 feet.		
10						
15						
20						
25						

ECKENFELDER INC.

TEST BORING LOG

NO. WP-35

PROJECT: Remedial Investigation — SHEET NO. 1 of 1

CLIENT: GAF Chemicals Corporation - Linden, NJ — PROJECT NO. 6662

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Andre Boutoille
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split Spoon	NA	NA
DIAMETER	2 inch	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	PVC	PVC (0.010")
DIAMETER	1.25"	1.25"
COUPLING	Flush Joint	Flush Joint

WELL DEVELOPMENT	
METHOD:	Pump
DURATION:	0.5 hr.
YIELD:	NA
OTHER:	NA

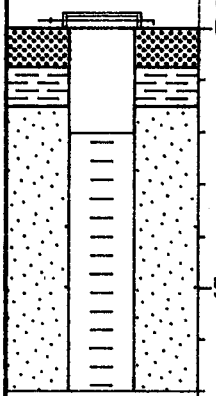
	GROUND	WELL	PROT CSG
ELEV	6.3	9.30	NA

DATE STARTED: 4/2/90

DATE COMPLETED: 4/2/90

INSPECTOR: Steven Kawchak

BOREHOLE CONSTRUCTION



DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
0				FILL		
5	S-1	SS	1-0-0-1	Dark Gray Silty CLAY and wood chips.	OVA indicates 12 ppm in augers at 5'.	
				End of Boring at 7 feet.		
10						
15						
20						
25						

ECKENFELDER INC.

TEST BORING LOG

NO. WP-36

PROJECT: Remedial Investigation
SHEET NO. 1 of 1
CLIENT: GAF Chemicals Corporation - Linden, NJ
PROJECT NO. 6662

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Andre Boutoille
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split Spoon	NA	NA
DIAMETER	2 inch	NA	NA
OTHER	NA	NA	NA

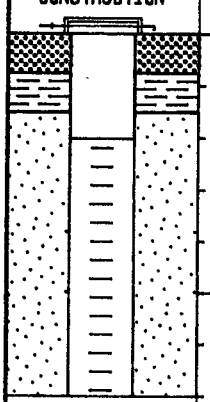
WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	PVC	PVC (0.010")
DIAMETER	1.25"	1.25"
COUPLING	Flush Joint	Flush Joint

WELL DEVELOPMENT	
METHOD:	Pump
DURATION:	0.5 hr.
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV	8.2	10.95	NA

DATE STARTED: 4/2/90
DATE COMPLETED: 4/2/90
INSPECTOR: Steven Kawchak

BOREHOLE CONSTRUCTION



DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
0				FILL		
5	S-1	SS	25-62-4-2	Dark purple SILT and wood chips, black sludge.	OVA indicates 50 ppm in augers at 5'.	
				End of Boring at 7 feet.		
10						
15						
20						
25						

ECKENFELDER INC.

TEST BORING LOG

NO. WP-37

PROJECT: **Remedial Investigation**
SHEET NO. 1 of 1
CLIENT: **GAF Chemicals Corporation - Linden, NJ**
PROJECT NO. **6662**

DRILLING DATA	
CONTRACTOR:	**Empire Soils Investigation - Edison, NJ**
DRILLER:	**Andre Boutoille**
EQUIPMENT:	**CME 55**
METHOD:	**Hollow Stem Auger**

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	**Split Spoon**	**NA**	**NA**
DIAMETER	**2 inch**	**NA**	**NA**
OTHER	**NA**	**NA**	**NA**

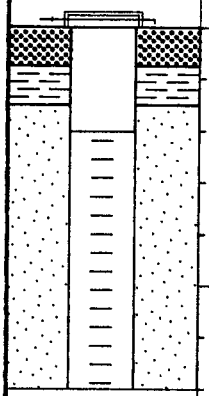
WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	**PVC**	**PVC (0.010")**
DIAMETER	**1.25"**	**1.25"**
COUPLING	**Flush Joint**	**Flush Joint**

WELL DEVELOPMENT	
METHOD:	**Pump**
DURATION:	**0.5 hr.**
YIELD:	**NA**
OTHER:	**NA**

	GROUND	WELL	PROT CSG
ELEV	**7.5**	**10.28**	**NA**

DATE STARTED: **4/2/90**
DATE COMPLETED: **4/2/90**
INSPECTOR: **Steven Kawchak**

BOREHOLE CONSTRUCTION



DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
0				FILL		
5	S-1	SS	3-3-4-5	Reddish brown Silty CLAY with 1/8" Sand Stringers.	OVA indicates 70 ppm in augers at 5'.	
				End of Boring at 7 feet.		
10						
15						
20						
25						

ECKENFELDER INC.

TEST BORING LOG

NO. WP-38

PROJECT: Remedial Investigation — SHEET NO. 1 of 1

CLIENT: GAF Chemicals Corporation - Linden, NJ — PROJECT NO. 6662

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Andre Boutoille
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split Spoon	NA	NA
DIAMETER	2 inch	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	PVC	PVC (0.010")
DIAMETER	1.25"	1.25"
COUPLING	Flush Joint	Flush Joint

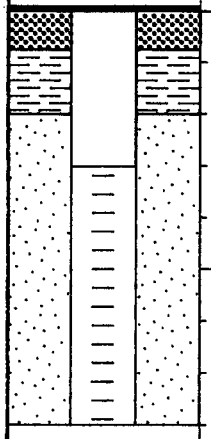
WELL DEVELOPMENT	
METHOD:	Pump
DURATION:	0.5 hr.
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV	7.5	7.07	7.46

DATE STARTED: 4/10/90

DATE COMPLETED: 4/10/90

INSPECTOR: Steven Kawchak

BOREHOLE CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
	0						
	5	S-1	SS	1-0-0-1	FILL Medium brown to tan c SAND, some Gravel, trace Silt		
					End of Boring at 8 feet.		
	10						
	15						
	20						
	25						

ECKENFELDER INC.

TEST BORING LOG

NO. WP-39

PROJECT: Remedial Investigation | SHEET NO. 1 of 1

CLIENT: GAF Chemicals Corporation - Linden, NJ | PROJECT NO. 6662

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Andre Boutoille
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split Spoon	NA	NA
DIAMETER	2 inch	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	PVC	PVC (0.010")
DIAMETER	1.25"	1.25"
COUPLING	Flush Joint	Flush Joint

WELL DEVELOPMENT	
METHOD:	Pump
DURATION:	0.5 hr.
YIELD:	NA
OTHER:	NA

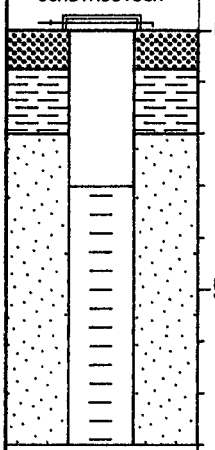
	GROUND	WELL	PROT CSG
ELEV	7.4	8.98	9.62

DATE STARTED: 4/10/90

DATE COMPLETED: 4/10/90

INSPECTOR: Steven Kawchak

BOREHOLE CONSTRUCTION



DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
0						
5	S-1	SS	1-1-2-1	FILL White CLAY, some m Sand grading to red-brown Silty CLAY	OVA indicates 70 ppm in augers at 5'.	
				End of Boring at 8 feet.		
10						
15						
20						
25						

ECKENFELDER INC.

TEST BORING LOG

NO. WP-40

PROJECT: Remedial Investigation | SHEET NO. 1 of 1

CLIENT: GAF Chemicals Corporation - Linden, NJ | PROJECT NO. 6662

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Andre Boutoille
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split Spoon	NA	NA
DIAMETER	2 inch	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	PVC	PVC (0.010")
DIAMETER	1.25"	1.25"
COUPLING	Flush Joint	Flush Joint

WELL DEVELOPMENT	
METHOD:	Pump
DURATION:	0.5 hr.
YIELD:	NA
OTHER:	NA

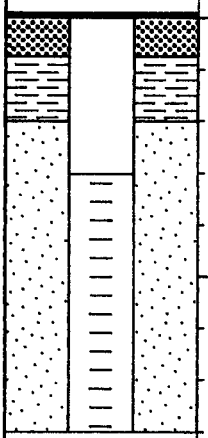
	GROUND	WELL	PROT CSG
ELEV	8.5	8.20	8.49

DATE STARTED: 4/10/90

DATE COMPLETED: 4/10/90

INSPECTOR: Steven Kawchak

BOREHOLE CONSTRUCTION



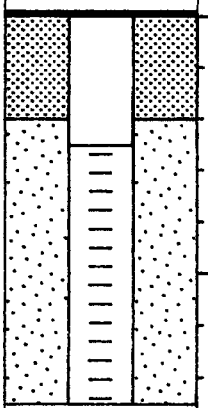
DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
0						
5	S-1	SS	10-11-4-3	FILL Dark brown and black Silty CLAY, and Gravel.		
				End of Boring at 8 feet.		
10						
15						
20						
25						

ECKENFELDER INC.	TEST BORING LOG	NO. WP-41

PROJECT: Remedial Investigation	SHEET NO. 1 of 1
CLIENT: GAF Chemicals Corporation - Linden, NJ	PROJECT NO. 6662

DRILLING DATA		SAMPLING METHODS			
CONTRACTOR: Empire Soils Investigation - Edison, NJ			SAMPLER	TUBE	CORE
DRILLER: Andre Boutoille		TYPE	Split Spoon	NA	NA
EQUIPMENT: CME 55		DIAMETER	2 inch	NA	NA
METHOD: Hollow Stem Auger		OTHER	NA	NA	NA

WELL CONSTRUCTION			WELL DEVELOPMENT				
	RISER	INTAKE	METHOD: Pump		GROUND	WELL	PROT CSG
MATERIAL	PVC	PVC (0.010")	DURATION: 0.5 hr.	ELEV	8.1	7.74	8.07
DIAMETER	1.25"	1.25"	YIELD: NA	DATE STARTED: 4/10/90			
COUPLING	Flush Joint	Flush Joint	OTHER: NA	DATE COMPLETED: 4/10/90			
				INSPECTOR: Steven Kawchak			

BOREHOLE CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	SAMPLE BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
	0				FILL Light gray Gravel		
	5						
					End of boring at 7.5 feet.		
	10						
	15						
	20						
	25						

ECKENFELDER INC.	TEST BORING LOG	NO. JB-1

PROJECT: Remedial Investigation — SHEET NO. 1 of 1

CLIENT: GAF Chemicals Corporation - Linden, NJ — PROJECT NO. 6787

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Paul Keeney
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split spoon	NA	NA
DIAMETER	3"	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

WELL DEVELOPMENT	
METHOD:	NA
DURATION:	NA
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV	7.8	NA	NA

DATE STARTED: 5/21/90

DATE COMPLETED: 5/21/90

INSPECTOR: L. Scheuing/S. Kawchak

BOREHOLE CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
	0	S-1	SS	5-6-7-11	FILL Brown to light brown cmf SAND, little (+) Gravel, trace Clayey Silt	Borehole backfilled with cement grout.	1000+
		S-2	SS	4-5-7-6	@ 0.5' red to brown Silty CLAY, little to trace Sand, trace to little Gravel, with black staining and glass particles		1000+
	5	S-3	SS	2-5-4-2	@ 2' red-brown and brown to yellow and gray cmf SAND, little (+) Gravel, little Clayey Silt		1000+
		S-4	SS	1-2-1-1	TIDAL MARSH DEPOSITS Blue-gray Silty CLAY, trace (-) f Sand		NM
		S-5	SS	1--1--	@ 7' dark brown PEAT, no to trace gray Silty Clay		NM
	10				End of Boring at 10 feet.		
	15						
	20						
	25						

ECKENFELDER INC. TEST BORING LOG

NO. JB-2

PROJECT: Remedial Investigation — SHEET NO. 1 of 1

CLIENT: GAF Chemicals Corporation - Linden, NJ — PROJECT NO. 6787

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Paul Keeney
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split spoon	NA	NA
DIAMETER	3"	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

WELL DEVELOPMENT	
METHOD:	NA
DURATION:	NA
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV	10.5	NA	NA

DATE STARTED: 5/21/90

DATE COMPLETED: 5/21/90

INSPECTOR: L. Scheuing/S. Kawchak

BOREHOLE CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
	0	S-1	SS	26-14-14-15	FILL Medium-brown to yellow cmf SAND and to some f GRAVEL, little Clayey Silt	Borehole backfilled with cement grout.	90
		S-2	SS	6-15-12-11	@ 1.2' red Silty CLAY with black staining, little (-) f Gravel, trace mf Sand @ 2.4' gray Silty CLAY, trace f Sand		NR
	5	S-3	SS	4-9-10-11	@ 4' gray-brown to yellow cmf SAND with black staining, some Clayey Silt, no to little f Gravel		190
		S-4	SS	1-1-2-8		@ 6.8' slight chemical odor	NR
					End of Boring at 8 feet.		
	10						
	15						
	20						
	25						

ECKENFELDER INC. — TEST BORING LOG — NO. JB-3

PROJECT: Remedial Investigation	SHEET NO. 1 of 1
CLIENT: GAF Chemicals Corporation - Linden, NJ	PROJECT NO. 6787

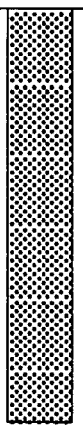
DRILLING DATA	
CONTRACTOR: Empire Soils Investigation - Edison, NJ	
DRILLER: Paul Keeney	
EQUIPMENT: CME 55	
METHOD: Hollow Stem Auger	

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split spoon	NA	NA
DIAMETER	3"	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

WELL DEVELOPMENT		GROUND	WELL	PROT CSG
METHOD: NA	ELEV	9.3	NA	NA
DURATION: NA	DATE STARTED: 5/22/90			
YIELD: NA	DATE COMPLETED: 5/22/90			
OTHER: NA	INSPECTOR: L. Scheuing/S. Kawchak			

BOREHOLE CONSTRUCTION



DEPTH (feet)	SAMPLE NO.	TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
0	S-1	SS	4-8-6-7	FILL Black and brown cmf SAND, some to and SILT, no to trace f Gravel, with 0.1' of asphalt @ 0.4'	Borehole backfilled with cement grout.	160
	S-2	SS	3-4-7-4	@ 0.5' brown, gray, and reddish-brown Silty CLAY, some Sand, little (+) f Gravel @ 2' gray f GRAVEL and cm SAND		NM
5	S-3	SS	5-7-8-8	@ 4' brown and yellow cmf SAND and yellow, brown, red, gray, and white Clayey SILT to Silty CLAY, little to no f Gravel		45
	S-4	SS	5-8-9-8			110
				End of Boring at 8 feet.		
10						
15						
20						
25						

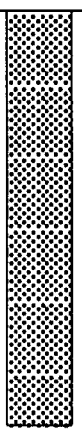
ECKENFELDER INC.	TEST BORING LOG	NO. JB-4

PROJECT: Remedial Investigation — SHEET NO. 1 of 1

CLIENT: GAF Chemicals Corporation - Linden, NJ — PROJECT NO. 6787

DRILLING DATA		SAMPLING METHODS			
CONTRACTOR: Empire Soils Investigation - Edison, NJ			SAMPLER	TUBE	CORE
DRILLER: Paul Keeney		TYPE	Split spoon	NA	NA
EQUIPMENT: CME 55		DIAMETER	3"	NA	NA
METHOD: Hollow Stem Auger		OTHER	NA	NA	NA

WELL CONSTRUCTION			WELL DEVELOPMENT				
	RISER	INTAKE	METHOD: NA		GROUND	WELL	PROT CSG
MATERIAL	NA	NA	DURATION: NA	ELEV	10.3	NA	NA
DIAMETER	NA	NA	YIELD: NA	DATE STARTED: 5/16/90			
COUPLING	NA	NA	OTHER: NA	DATE COMPLETED: 5/16/90			
				INSPECTOR: L. Scheuing/S. Kawchak			

BOREHOLE CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	SAMPLE BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
	0	S-1	SS	13-16-21-27	FILL Brown cmf SAND and Clayey SILT, some f rounded Gravel, no to trace Silt @ 0.9' red Silty CLAY, trace Sand, trace f Gravel	Borehole backfilled with cement grout.	510
		S-2	SS	13-56-4-1	@ 2.3' gray Silty CLAY with piece of metal from a drum		NR
	5	S-3	SS	1-1-10-10	@ 4' black, oily, viscous substance, mixing black cinders @ 7.2'	@ 4' appear to have broken through a drum. Very strong odor, with emission of visible vapors from substance	NR
		S-4	SS	5-7-8-8			110
					End of Boring at 8 feet.		
	10						
	15						
	20						
	25						

ECKENFELDER INC.	TEST BORING LOG	NO. JB-5

PROJECT: Remedial Investigation — SHEET NO. 1 of 1

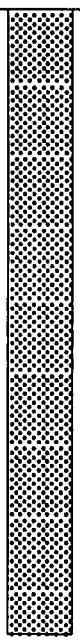
CLIENT: GAF Chemicals Corporation - Linden, NJ — PROJECT NO. 6787

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Paul Keeney
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split Spoon	NA	NA
DIAMETER	3 inch	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

WELL DEVELOPMENT				
METHOD: NA		GROUND	WELL	PROT CSG
DURATION: NA	ELEV	12.4	NA	NA
YIELD: NA	DATE STARTED: 6/11/90			
OTHER: NA	DATE COMPLETED: 6/11/90			
	INSPECTOR: S. Kawchak/S. Matthews			

BOREHOLE CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	DVA ppm
	0	S-1	SS	2-4-4-5	FILL Brown to yellow-brown SAND and SILT to Clayey SILT, trace to no Gravel	Borehole backfilled with cement grout.	19
		S-2	SS	3-4-3-4			8.8
	5	S-3	SS	2-3-2-2			NA
		S-4	SS	2-0-4-3			NA
		S-5	SS	NA			125
	10	S-6	SS	2-2-5-5			NM
					End of Boring at 12 feet.		
	15						
	20						
	25						

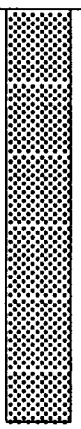
ECKENFELDER INC.	TEST BORING LOG	NO. JB-6

PROJECT: Remedial Investigation — SHEET NO. 1 of 1

CLIENT: GAF Chemicals Corporation - Linden, NJ — PROJECT NO. 6787

DRILLING DATA		SAMPLING METHODS			
CONTRACTOR: Empire Soils Investigation - Edison, NJ			SAMPLER	TUBE	CORE
DRILLER: Paul Keeney		TYPE	Split spoon	NA	NA
EQUIPMENT: CME 55		DIAMETER	3"	NA	NA
METHOD: Hollow Stem Auger		OTHER	NA	NA	NA

WELL CONSTRUCTION			WELL DEVELOPMENT				
	RISER	INTAKE	METHOD: NA		GROUND	WELL	PROT CSG
MATERIAL	NA	NA	DURATION: NA	ELEV	7.3	NA	NA
DIAMETER	NA	NA	YIELD: NA	DATE STARTED: 5/18/90			
COUPLING	NA	NA	OTHER: NA	DATE COMPLETED: 5/18/90			
				INSPECTOR: L. Scheuing/S. Kawchak			

BOREHOLE CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
	0	S-1	SS	4-7-8-8	FILL Brown to black-brown cmf SAND, little to some (-) f Gravel, trace to no Clayey Silt	Borehole backfilled with cement grout.	180
		S-2	SS	5-3-4-5	@ 0.8' red-brown Clayey SILT, little cmf Sand, mixing with black cinders @ 2' black cinders, little to some red-brown Clayey Silt, small amount of wood chips		580
	5	S-3	SS	3-2-1-1		@ 4' strong odor throughout remaining section	1000+
		S-4	SS	1-1-1-1	@ 6' brown-black Clayey SILT, little mf Sand TIDAL MARSH DEPOSITS PEAT and gray Silty CLAY		1000+
					End of Boring at 8 feet.		
	10						
	15						
	20						
	25						

ECKENFELDER INC.	TEST BORING LOG	NO. JB-7

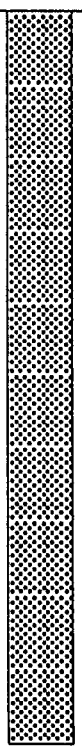
PROJECT: Remedial Investigation	SHEET NO. 1 of 1
CLIENT: GAF Chemicals Corporation - Linden, NJ	PROJECT NO. 6787

DRILLING DATA	
CONTRACTOR: Empire Soils Investigation - Edison, NJ	
DRILLER: Paul Keeney	
EQUIPMENT: CME 55	
METHOD: Hollow Stem Auger	

SAMPLING METHODS			
	SAMPLER	TUBE	CORE
TYPE	Split Spoon	NA	NA
DIAMETER	3 inch	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION		
	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

WELL DEVELOPMENT				
METHOD: NA		GROUND	WELL	PROT CSG
DURATION: NA	ELEV	8.3	NA	NA
YIELD: NA	DATE STARTED: 5/18/90			
OTHER: NA	DATE COMPLETED: 5/18/90			
	INSPECTOR: Steven Kamchak			

BOREHOLE CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
	0	S-1	SS	Not	FILL Dark brown Silty CLAY, some Gravel, with brick, grading to tan mf SAND	Borehole backfilled with cement grout.	4
		S-2	SS	Available	@ 2.3' black and gray to brown Silty CLAY, trace to and mf GRAVEL with 0.2' of cinders at 3.8'		250
	5	S-3	SS		@ 4.7 black Silty PEAT, trace to some mf Gravel, covered with an oily sheen		240
		S-4	SS				1000+
		S-5	SS				1000+
	10	S-6	SS		@ 10' dry, white Silty CLAY		92
		S-7	SS				NM
	15				End of Boring at 14 feet.		
	20						
	25						

ECKENFELDER INC. — TEST BORING LOG

NO. JB-8

PROJECT: Remedial Investigation — SHEET NO. 1 of 1

CLIENT: GAF Chemicals Corporation - Linden, NJ — PROJECT NO. 6787

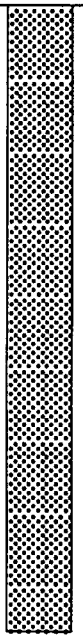
DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Paul Keeney
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split Spoon	NA	NA
DIAMETER	3 inch	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

WELL DEVELOPMENT		GROUND	WELL	PROT CSG
METHOD: NA	ELEV	8.6	NA	NA
DURATION: NA	DATE STARTED: 5/17/90			
YIELD: NA	DATE COMPLETED: 5/17/90			
OTHER: NA	INSPECTOR: Steven Kawchak			

BOREHOLE CONSTRUCTION



DEPTH (feet)	SAMPLE NO.	TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
0	S-1	SS	4-5-18-39	FILL Black and brown Cinders, with wood and cement	Borehole backfilled with cement grout.	NR
	S-2	SS	8-13-21-44	@ 2' CLAY and GRAVEL with ash @ 2.4' SAND with wood pieces	Strong odor @ 2'	1000+
5	S-3	SS	20-15-17-4			NR
	S-4	SS	1-1-1-1			NR
	S-5	SS	4-5-5-10			1000+
10	S-6	SS	NA	@ 10.4' gray to tan SILT and mf SAND		540
				End of Boring at 12 feet.		
15						
20						
25						

ECKENFELDER INC.	TEST BORING LOG	NO. JB-9

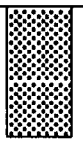
PROJECT: Remedial Investigation	SHEET NO. 1 of 1
CLIENT: GAF Chemicals Corporation - Linden, NJ	PROJECT NO. 6787

DRILLING DATA	
CONTRACTOR: Empire Soils Investigation - Edison, NJ	
DRILLER: Paul Keeney	
EQUIPMENT: CME 55	
METHOD: Hollow Stem Auger	

SAMPLING METHODS			
	SAMPLER	TUBE	CORE
TYPE	Split spoon	NA	NA
DIAMETER	3"	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION		
	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

WELL DEVELOPMENT				
METHOD: NA		GROUND	WELL	PROT CSG
DURATION: NA	ELEV	8.2	NA	NA
YIELD: NA	DATE STARTED: 6/15/90			
OTHER: NA	DATE COMPLETED: 6/15/90			
	INSPECTOR: S. Kawchak/S. Matthews			

BOREHOLE CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
	0	S-1	SS	Not Available	FILL Gray to red GRAVEL, some to and gray-brown SAND @ 2' Black SILT and SAND, little (+) Gravel End of Boring at 2.5 feet.	Borehole backfilled with cement grout. @ 1' odor present	NM
	5						
	10						
	15						
	20						
	25						

ECKENFELDER INC.	TEST BORING LOG	NO. JB-10

PROJECT: Remedial Investigation — SHEET NO. 1 of 1

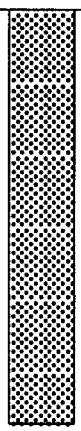
CLIENT: GAF Chemicals Corporation - Linden, NJ — PROJECT NO. 6787

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Paul Keeney
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split Spoon	NA	NA
DIAMETER	3 inch	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

WELL DEVELOPMENT		GROUND	WELL	PROT CSG
METHOD: NA	ELEV	6.8	NA	NA
DURATION: NA	DATE STARTED: 6/7/90			
YIELD: NA	DATE COMPLETED: 6/7/90			
OTHER: NA	INSPECTOR: S. Kawchak/S. Matthews			

BOREHOLE CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
	0	S-1	SS	31-39-50-50	FILL Gray GRAVEL and SAND, with blacktop near surface	Borehole backfilled with cement grout.	1000
		S-2	SS	19-9-9-7	@ 2' red Clayey SILT and SAND, little to and GRAVEL		540
	5	S-3	SS	5-6-6-7			60
		S-4	SS	6-8-11-17	@ 6' red SILT, trace Gravel		32
					End of Boring at 8 feet.		
	10						
	15						
	20						
	25						

ECKENFELDER INC. — TEST BORING LOG

NO. JB-11

PROJECT: Remedial Investigation
SHEET NO. 1 of 1
CLIENT: GAF Chemicals Corporation - Linden, NJ
PROJECT NO. 6787

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Paul Keeney
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split spoon	NA	NA
DIAMETER	3"	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

WELL DEVELOPMENT	
METHOD:	NA
DURATION:	NA
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV	5.9	NA	NA

DATE STARTED: 6/14/90
DATE COMPLETED: 6/14/90
INSPECTOR: S. Kawchak/S. Matthews

BOREHOLE CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
	0	S-1	SS	Not	FILL Black SAND and GRAVEL, some Silt, saturated and stained	Borehole backfilled with cement grout.	120
		S-2	SS	Available			940
	5	S-3	SS				760
		S-4	SS				760
		S-5	SS				NM
	10	S-6	SS				840
		S-7	SS				NM
	15	S-8	SS				NM
		S-9	SS		@ 16' becomes black SAND and GRAVEL and gray SILT		NM
		S-10	SS		@ 18' grading to gray-brown to red-brown SILT to Silty CLAY and SAND, little to no Gravel		NM
	20	S-11	SS				330
					End of Boring at 22 feet.		
	25						

ECKENFELDER INC. — TEST BORING LOG — NO. JB-12

PROJECT: Remedial Investigation | SHEET NO. 1 of 1
CLIENT: GAF Chemicals Corporation - Linden, NJ | PROJECT NO. 6787

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Paul Keeney
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

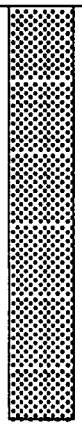
SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split spoon	NA	NA
DIAMETER	3"	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

WELL DEVELOPMENT	
METHOD:	NA
DURATION:	NA
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV	5.7	NA	NA

DATE STARTED: 6/4/90
DATE COMPLETED: 6/4/90
INSPECTOR: L. Scheuing/S. Kawchak

BOREHOLE CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
	0	S-1	SS	21-16-17-20	FILL Red-brown cf SAND amd f GRAVEL, some Clayey Silt @ 0.7' black cinders and ash, some Silt	Borehole backfilled with cement grout.	0.2
		S-2	SS	12-9-8-7	@ 2.6' red-brown to yellow-brown Silty CLAY, little cf Sand, some to trace f Gravel		11
	5	S-3	SS	7-6-5-5	@ 6' black cinders, ash, and mf GRAVEL		360
		S-4	SS	2-3-3-3			580
					End of Boring at 8 feet.		
	10						
	15						
	20						
	25						

ECKENFELDER INC. — TEST BORING LOG — NO. JB-13

PROJECT: Remedial Investigation | SHEET NO. 1 of 1
CLIENT: GAF Chemicals Corporation - Linden, NJ | PROJECT NO. 6787

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Paul Keeney
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split spoon	NA	NA
DIAMETER	3"	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

WELL DEVELOPMENT	
METHOD:	NA
DURATION:	NA
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV	6.5	NA	NA

DATE STARTED: 5/24/90
DATE COMPLETED: 5/24/90
INSPECTOR: L. Scheuing/S. Kawchak

BOREHOLE CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
	0	S-1	SS	4-6-5-6	FILL Gray-green cmf angular GRAVEL and to little brown cmf SAND, little to some Silt to Clay & Silt, mixed with wood and brick pieces, stained with black oily substance at bottom interval	Borehole backfilled with cement grout.	NM
		S-2	SS	5-6-5-4	@ 4' brown and gray CLAY & SILT, little (+) Sand, with wood pieces, covered with same black oily substance as above		1000+
	5	S-3	SS	2-1-1-1	@ 6' black sand-sized cinders, ash, and wood, some cmf Sand	Slight odor	820
		S-4	SS	1-1-1-1			1000+
		S-5	SS	1-1-1-1			NM
	10	S-6	SS	MOH/24"	TIDAL MARSH DEPOSITS PEAT		NM
		S-7	SS	MOH/24"			NM
	15	S-8	SS	MOH/24"			1000+
		S-9	SS	MOH/24"			NM
		S-10	SS	7-1-4-5	@ 18' PEAT and mf GRAVEL @ 18.4' gray Silty CLAY, some mf Sand		NM
	20	S-11	SS	4-5-6-9	@ 20.5' gray well-sorted cmf SAND, little Silty Clay		NM
					End of Boring at 22 feet.		
	25						

ECKENFELDER INC.

TEST BORING LOG

NO. JB-14

PROJECT: Remedial Investigation
SHEET NO. 1 of 1
CLIENT: GAF Chemicals Corporation - Linden, NJ
PROJECT NO. 6787

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Paul Keeney
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

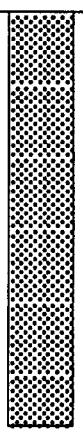
SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split spoon	NA	NA
DIAMETER	3"	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

WELL DEVELOPMENT	
METHOD:	NA
DURATION:	NA
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV	7.6	NA	NA

DATE STARTED: 6/4/90
DATE COMPLETED: 6/4/90
INSPECTOR: L. Scheuing/S. Kawchak

BOREHOLE CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
	0	S-1	SS	54-48-46-29	FILL Black asphalt, some cf Sand, little f Gravel	Borehole backfilled with cement grout.	8.4
		S-2	SS	27-19-20-19	@ 0.6' gray cf GRAVEL, little cf Sand, trace Clayey Silt @ 2' black to brown cf SAND, some mf Gravel, little to some Clayey Silt		94
	5	S-3	SS	12-9-8-7			NN
		S-4	SS	4-5-5-6	@ 6' black cinders and ash, little Clayey Silt	Strong chemical odor	1000+
					End of Boring at 8 feet.		
	10						
	15						
	20						
	25						

ECKENFELDER INC.	TEST BORING LOG	NO. JB-15

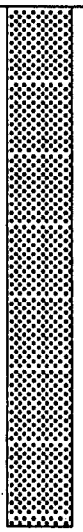
PROJECT: Remedial Investigation	SHEET NO. 1 of 1
CLIENT: GAF Chemicals Corporation - Linden, NJ	PROJECT NO. 6787

DRILLING DATA	
CONTRACTOR: Empire Soils Investigation - Edison, NJ	
DRILLER: Paul Keeney	
EQUIPMENT: CME 55	
METHOD: Hollow Stem Auger	

SAMPLING METHODS			
	SAMPLER	TUBE	CORE
TYPE	Split spoon	NA	NA
DIAMETER	3"	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION		
	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

WELL DEVELOPMENT				
METHOD: NA		GROUND	WELL	PROT CSG
DURATION: NA	ELEV	8.9	NA	NA
YIELD: NA	DATE STARTED: 5/22/90			
OTHER: NA	DATE COMPLETED: 5/22/90			
	INSPECTOR: L. Scheuing/S. Kawchak			

BOREHOLE CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
	0	S-1	SS	12-24-28-38	FILL Medium brown cmf SAND and SILT, little f Gravel, with wood pieces and pieces of brick	Borehole backfilled with cement grout. @ 0.4' strong odor	NM
		S-2	SS	23-11-5-5	@ 0.4' black SILT to gray, yellow, and red-orange Silty CLAY, and cinders, some to little f Gravel, no to little f Sand, covered with a brown oily substance		260
	5	S-3	SS	5-2-1-3	@ 4' gray mixing with dark gray, red-brown and yellow Silty CLAY, some to no dark brown PEAT, with pieces of red brick		220
		S-4	SS	3-2-2-4			880
		S-5	SS	4-5-4-3	@ 9' dark to medium brown PEAT		440
	10				End of Boring at 10 feet.		
	15						
	20						
	25						

ECKENFELDER INC.	TEST BORING LOG	NO. JB-16

PROJECT: Remedial Investigation — SHEET NO. 1 of 1

CLIENT: GAF Chemicals Corporation - Linden, NJ — PROJECT NO. 6787

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ+
DRILLER:	Paul Keeney
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split spoon	NA	NA
DIAMETER	3"	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

WELL DEVELOPMENT	
METHOD:	NA
DURATION:	NA
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV	8.7	NA	NA

DATE STARTED: 5/22/90

DATE COMPLETED: 5/22/90

INSPECTOR: L. Scheuing/S. Kawchak

BOREHOLE CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
	0	S-1	SS	9-19-26-25	FILL Brown cmf SAND and f GRAVEL, some Silt @ 0.4' black mf GRAVEL and cmf SAND, with 0.3' of asphalt @ 0.7'	Borehole backfilled with cement grout.	NM
		S-2	SS	11-6-4-3			NM
	5	S-3	SS	4-5-4-5	@ 4' gray-brown to red and white Silty CLAY, some f Sand, little f Gravel, covered with an oily substance	@ 4' strong odor	NM
		S-4	SS	5-5-4-6			NM
					@ 7.7' PEAT End of Boring at 8 feet.		
	10						
	15						
	20						
	25						

ECKENFELDER INC.	TEST BORING LOG	NO. JB-17

PROJECT: Remedial Investigation — SHEET NO. 1 of 1

CLIENT: GAF Chemicals Corporation - Linden, NJ — PROJECT NO. 6787

DRILLING DATA		SAMPLING METHODS			
CONTRACTOR: Empire Soils Investigation - Edison, NJ			SAMPLER	TUBE	CORE
DRILLER: Paul Keeney		TYPE	Split spoon	NA	NA
EQUIPMENT: CME 55		DIAMETER	3"	NA	NA
METHOD: Hollow Stem Auger		OTHER	NA	NA	NA

WELL CONSTRUCTION			WELL DEVELOPMENT				
	RISER	INTAKE	METHOD: NA		GROUND	WELL	PROT CSG
MATERIAL	NA	NA	DURATION: NA	ELEV	11.2	NA	NA
DIAMETER	NA	NA	YIELD: NA	DATE STARTED: 5/16/90			
COUPLING	NA	NA	OTHER: NA	DATE COMPLETED: 5/16/90			
				INSPECTOR: L. Scheuing/S. Kawchak			

BOREHOLE CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
	0	S-1	SS	4-4-8-11	FILL Red-brown Silty CLAY, some f Sand, trace f Gravel, small amount of black staining	Borehole backfilled with cement grout.	1000+
		S-2	SS	9-4-5-4	@ 1' 0.2' of black and yellow fibrous substance, decaying cardbord @ 2' glass, cinders, brick, and wood		280
	5	S-3	SS	4-3-2-2			560
		S-4	SS	2-2-2-2	@ 6' gray and yellow Silty CLAY, mixed with a sludge-like substance		NR
					End of Boring at 8 feet.		
	10						
	15						
	20						
	25						

ECKENFELDER INC.	TEST BORING LOG	NO. JB-18

PROJECT: Remedial Investigation	SHEET NO. 1 of 1
CLIENT: GAF Chemicals Corporation - Linden, NJ	PROJECT NO. 6787

DRILLING DATA	
CONTRACTOR: Empire Soils Investigation - Edison, NJ	
DRILLER: Paul Keeney	
EQUIPMENT: CME 55	
METHOD: Hollow Stem Auger	

SAMPLING METHODS			
	SAMPLER	TUBE	CORE
TYPE	Split spoon	NA	NA
DIAMETER	3"	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION		
	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

WELL DEVELOPMENT				
METHOD: NA		GROUND	WELL	PROT CSG
DURATION: NA	ELEV	9.2	NA	NA
YIELD: NA	DATE STARTED: 5/17/90			
OTHER: NA	DATE COMPLETED: 5/17/90			
	INSPECTOR: L. Scheuing/S. Kawchak			

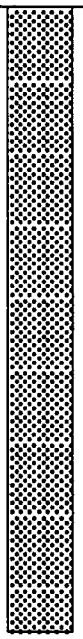
BOREHOLE CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
	0	S-1	SS	3-5-6-8	FILL Red-brown CLAY & SILT, little cmf Sand @ 0.4' grading to fine-grained black cinders, with cardboard or paper	Borehole backfilled with cement grout.	660
		S-2	SS	3-2-2-1			NA
	5	S-3	SS	3-4-1-1	@ 4' red-brown with yellow CLAY & SILT, little cmf Sand @ 4.1' black cinders, @ 8' coated with a brown oily substance		400
		S-4	SS	1-1-6-8			NA
		S-5	SS	4-6-4-5			1000+
	10	S-6	SS	1-1-3-3	TIDAL MARSH DEPOSITS Gray Silty CLAY, trace f Sand, with small amount of black staining		580
		S-7	SS	3-4-5-5	@ 12.5' red-brown CLAY & SILT, little cmf Sand		1000+
	15	S-8	SS	5-6-6-8	@ 14' red brown cmf SAND, some Clayey Silt, little f Gravel @ 14.7' grading to red-brown CLAY & SILT, little mf Sand		4
					End of Boring at 16 feet.		
	20						
	25						

ECKENFELDER INC.	TEST BORING LOG	NO. JB-19

PROJECT: Remedial Investigation	SHEET NO. 1 of 1
CLIENT: GAF Chemicals Corporation - Linden, NJ	PROJECT NO. 6787

DRILLING DATA	SAMPLING METHODS			
CONTRACTOR: Empire Soils Investigation - Edison, NJ		SAMPLER	TUBE	CORE
DRILLER: Paul Keeney	TYPE	Split spoon	NA	NA
EQUIPMENT: CME 55	DIAMETER	3"	NA	NA
METHOD: Hollow Stem Auger	OTHER	NA	NA	NA

WELL CONSTRUCTION			WELL DEVELOPMENT				
	RISER	INTAKE	METHOD: NA		GROUND	WELL	PROT CSG
MATERIAL	NA	NA	DURATION: NA	ELEV	11.5	NA	NA
DIAMETER	NA	NA	YIELD: NA	DATE STARTED: 5/9/90			
COUPLING	NA	NA	OTHER: NA	DATE COMPLETED: 5/9/90			
				INSPECTOR: L. Scheuing/S. Kawchak			

BOREHOLE CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
	0	S-1	SS	5-5-2-2	FILL Brown to yellow cmf SAND, some f Gravel, trace Silt	Borehole backfilled with cement grout.	0.2
		S-2	SS	1-1-7-2	@ 0.8' yellow and black to brown-red Clayey SILT, little to some cmf Sand, @ 4.4' rusted metal encountered with yellow crystals		NR
	5	S-3	SS	4-12-9-8		@ 4' strong odor	8
		S-4	SS	4-5-5-7			240
		S-5	SS	10-40-30-25			NR
	10	S-6	SS	6-8-6-8	@ 10.5' gray SILT and PEAT, mixed with black and brown chemical		1000+
					End of Boring at 12 feet.		
	15						
	20						
	25						

ECKENFELDER INC.	TEST BORING LOG	NO. JB-20

PROJECT: Remedial Investigation — SHEET NO. 1 of 1

CLIENT: GAF Chemicals Corporation - Linden, NJ — PROJECT NO. 6787

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Paul Keeney
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split Spoon	NA	NA
DIAMETER	3 inch	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

WELL DEVELOPMENT	
METHOD:	NA
DURATION:	NA
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV	10.0	NA	NA

DATE STARTED: 5/17/90

DATE COMPLETED: 5/17/90

INSPECTOR: Steven Kawchak

BOREHOLE CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
	0	S-1	SS	6-7-9-10	FILL Red-brown to tan Silty CLAY and to some mf GRAVEL	Borehole backfilled with cement grout.	33
		S-2	SS	6-5-3-3			160
	5	S-3	SS	5-1-3-5			NR
		S-4	SS	4-6-41-52	@ 6' mixing with wood fragments		NR
		S-5	SS	13-13-7-8			NR
	10	S-6	SS	4-8-9-9	@ 11' CLAY, mixed with wood, brick fragments, and ash, covered with a slight oily sheen		NR
		S-7	SS	4-6-12-13	TIDAL MARSH DEPOSITS		1000+
	15	S-8	SS	9-10-11-15	PEAT and SILT @ 13.7' grading to gray to red-brown Silty CLAY, no to some black Peat, with a slight oily sheen		1000+
					End of Boring at 16 feet.		
	20						
	25						

ECKENFELDER INC. — TEST BORING LOG

NO. JB-21

PROJECT: Remedial Investigation	SHEET NO. 1 of 1
CLIENT: GAF Chemicals Corporation - Linden, NJ	PROJECT NO. 6787

DRILLING DATA	
CONTRACTOR: Empire Soils Investigation - Edison, NJ	
DRILLER: Paul Keeney	
EQUIPMENT: CME 55	
METHOD: Hollow Stem Auger	

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split spoon	NA	NA
DIAMETER	3"	NA	NA
OTHER	NA	NA	NA

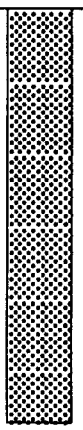
WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

WELL DEVELOPMENT	
METHOD: NA	
DURATION: NA	
YIELD: NA	
OTHER: NA	

	GROUND	WELL	PROT CSG
ELEV	8.9	NA	NA

DATE STARTED: 5/16/90
DATE COMPLETED: 5/16/90
INSPECTOR: L. Scheuing/S. Kawchak

BOREHOLE CONSTRUCTION



DEPTH (feet)	SAMPLE NO.	TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
0	S-1	SS	4-20-19-19	FILL Brown to yellow mf SAND, some to trace Clayey Silt to Silt, little (+) to no f Gravel, with 0.5' of red brick @ 0.5'	Borehole backfilled with cement grout.	28
	S-2	SS	13-17-17-21	@ 1.5' gray to red-brown Silty CLAY, little to some (-) cmf Sand, little to trace f Gravel		560
5	S-3	SS	13-14-17-19	@ 4.3' red-brown mf SAND, little Silty CLAY @ 4.7' red and yellow Silty CLAY, little to some mf Sand, no to trace f Gravel		NR
	S-4	SS	3-4-7-8			1000+
				End of Boring at 8 feet.		
10						
15						
20						
25						

ECKENFELDER INC.	TEST BORING LOG	NO. JB-22

PROJECT: Remedial Investigation — SHEET NO. 1 of 1

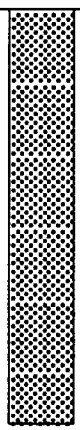
CLIENT: GAF Chemicals Corporation - Linden, NJ — PROJECT NO. 6787

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Paul Keeney
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split Spoon	NA	NA
DIAMETER	3 inch	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

WELL DEVELOPMENT		GROUND	WELL	PROT CSG
METHOD: NA	ELEV	12.4	NA	NA
DURATION: NA	DATE STARTED: 6/11/90			
YIELD: NA	DATE COMPLETED: 6/11/90			
OTHER: NA	INSPECTOR: S. Kawchak/S. Matthews			

BOREHOLE CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	DVA ppm
	0	S-1	SS	1-1-1-1	FILL Brown SAND and Clayey SILT, no to trace (+) Gravel	Borehole backfilled with cement grout.	0.0
		S-2	SS	1-2-2-2			0.0
	5	S-3	SS	2-2-2-2			9.2
		S-4	SS	2-3-4-4	@ 6' grading to gray CLAY and f SAND		36
					End of Boring at 8 feet.		
	10						
	15						
	20						
	25						

ECKENFELDER INC. — TEST BORING LOG

NO. JB-23

PROJECT: Remedial Investigation — SHEET NO. 1 of 1

CLIENT: GAF Chemicals Corporation - Linden, NJ — PROJECT NO. 6787

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Paul Keeney
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split spoon	NA	NA
DIAMETER	3"	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

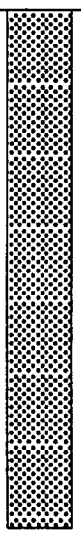
WELL DEVELOPMENT	
METHOD:	NA
DURATION:	NA
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV	6.0	NA	NA

DATE STARTED: 5/11/90

DATE COMPLETED: 5/11/90

INSPECTOR: L. Scheuing/S. Kawchak

BOREHOLE CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
	0	S-1	SS	3-4-6-11	FILL Brown and yellow to gray-black cmf SAND, some to trace Clayey Silt, trace to and f GRAVEL, with wood particles @ 2'	Borehole backfilled with cement grout.	110
		S-2	SS	13-16-4-5			NR
	5	S-3	SS	2-2-2-2			NR
		S-4	SS	2-1-2-2	Tidal Marsh Deposits Gray-black PEAT, some Silty Clay @ 8' brown cmf SAND, trace Clayey Silt @ 8.2' brown PEAT, trace Clayey Silt @ 9' grading to gray and yellow cmf SAND and CLAY & SILT		1000+
		S-5	SS	2-3-5-8			100
	10				End of Boring at 10 feet.		
	15						
	20						
	25						

ECKENFELDER INC.

TEST BORING LOG

NO. JB-24

PROJECT: Remedial Investigation	SHEET NO. 1 of 1
CLIENT: GAF Chemicals Corporation - Linden, NJ	PROJECT NO. 6787

DRILLING DATA	
CONTRACTOR: Empire Soils Investigation - Edison, NJ	
DRILLER: Paul Keeney	
EQUIPMENT: CME 55	
METHOD: Hollow Stem Auger	

SAMPLING METHODS			
	SAMPLER	TUBE	CORE
TYPE	Split Spoon	NA	NA
DIAMETER	3 inch	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION		
	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

WELL DEVELOPMENT				
METHOD: NA		GROUND	WELL	PROT CSG
DURATION: NA	ELEV	8.7	NA	NA
YIELD: NA	DATE STARTED: 6/11/90			
OTHER: NA	DATE COMPLETED: 6/11/90			
	INSPECTOR: S. Kawchak/S. Matthews			

BOREHOLE CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
	0	S-1	SS	Not Available	FILL Orange-brown SAND and SILT, grading to black f SAND and GRAVEL, with plastic sheets, cinders, and ash present	Borehole backfilled with cement grout. @ 2' odor	3.2
		S-2	SS				690
	5	S-3	SS		@ 4.8' red-rusty brown Clayey SILT and SAND @ 6' Black SAND and GRAVEL		1000+
		S-4	SS				110
		S-5	SS				245
	10	S-6	SS				225
		S-7	SS		@ 12' grading to gray Silty CLAY to dark brown SILT and to little brown SAND, some Gravel		60
	15				End of Boring at 16 feet.		
	20						
	25						

ECKENFELDER INC. — TEST BORING LOG

NO. JB-25

PROJECT: Remedial Investigation
SHEET NO. 1 of 1
CLIENT: GAF Chemicals Corporation - Linden, NJ
PROJECT NO. 6787

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Paul Keeney
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split spoon	NA	NA
DIAMETER	3"	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

WELL DEVELOPMENT		GROUND	WELL	PROT CSG
METHOD: NA	ELEV	7.0	NA	NA
DURATION: NA	DATE STARTED: 5/11/90			
YIELD: NA	DATE COMPLETED: 5/11/90			
OTHER: NA	INSPECTOR: L. Scheuing/S. Kawchak			

BOREHOLE CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
	0	S-1	SS	10-14-21-17	FILL Brown-black cmf SAND, some to little Silt to Clayey Silt, trace to and f GRAVEL, with 0.7' of gray mf GRAVEL @ 0.5' (from parking lot), and with wood	Borehole backfilled with cement grout.	58
		S-2	SS	18-29-33-9			1000+
	5	S-3	SS	2-10-2-2			NA
		S-4	SS	2-2-1-2	TIDAL MARSH DEPOSITS	@ 7' slight odor	NA
		S-5	SS	2-2-2-3	Gray-black Silty CLAY, little Peat, trace f Sand @ 8' PEAT, little Silty Clay @ 8.8' grading to gray-black Silty CLAY, trace f Sand		1000+
	10				End of Boring at 10 feet.		
	15						
	20						
	25						

ECKENFELDER INC.

TEST BORING LOG

NO. JB-26

PROJECT: Remedial Investigation
SHEET NO. 1 of 1
CLIENT: GAF Chemicals Corporation - Linden, NJ
PROJECT NO. 6787

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Paul Keeney
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split spoon	NA	NA
DIAMETER	3"	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

WELL DEVELOPMENT	
METHOD:	NA
DURATION:	NA
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV	6.8	NA	NA

DATE STARTED: 5/21/90
DATE COMPLETED: 5/21/90
INSPECTOR: L. Scheuing/S. Kawchak

BOREHOLE CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	DVA ppm
	0	S-1	SS	1-1-2-1	FILL Brown cmf SAND, some Clayey Silt @ 0.5' black CLAY & SILT, little (+) f Gravel, trace cmf Sand, covered with black and purple substance @ 2' saturated black cinders, some Silty Clay, little f Gravel	Borehole backfilled with cement grout. @ 2' strong odor throughout remaining section	28
		S-2	SS	4-5-5-4			72
	5	S-3	SS	2-3-2-2			160
		S-4	SS	4-2-3-3			880
					TIDAL MARSH DEPOSITS Dark brown PEAT, stained black near top of interval		
	10				End of Boring at 8 feet.		
	15						
	20						
	25						

ECKENFELDER INC. — TEST BORING LOG

NO. JB-27

PROJECT: Remedial Investigation
CLIENT: GAF Chemicals Corporation - Linden, NJ

SHEET NO. 1 of 1
PROJECT NO. 6787

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Paul Keeney
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

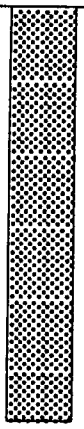
SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split spoon	NA	NA
DIAMETER	3"	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

WELL DEVELOPMENT	
METHOD:	NA
DURATION:	NA
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV	7.0	NA	NA

DATE STARTED: 5/21/90
DATE COMPLETED: 5/21/90
INSPECTOR: L. Scheuing/S. Kawchak

BOREHOLE CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	DVA ppm
	0	S-1	SS	6-7-7-9	FILL Gray cmf SAND and SILT and mf GRAVEL @ 0.5' clean, well-sorted tan m SAND @ 1.5' black fine-grained cinders	Borehole backfilled with cement grout.	4
		S-2	SS	21-19-18-20			120
	5	S-3	SS	2-10-11-8			1000+
		S-4	SS	4-2-1-1	TIDAL MARSH DEPOSITS Medium brown PEAT		1000+
					End of Boring at 8 feet.		
	10						
	15						
	20						
	25						

ECKENFELDER INC.

TEST BORING LOG

NO. JB-28

PROJECT: Remedial Investigation
SHEET NO. 1 of 1
CLIENT: GAF Chemicals Corporation - Linden, NJ
PROJECT NO. 6787

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Paul Keeney
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

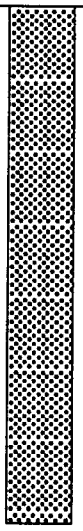
SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split Spoon	NA	NA
DIAMETER	3 inch	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

WELL DEVELOPMENT	
METHOD:	NA
DURATION:	NA
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV	10.9	NA	NA

DATE STARTED: 6/12/90
DATE COMPLETED: 6/12/90
INSPECTOR: S. Kawchak/ S. Matthews

BOREHOLE CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
	0	S-1	SS	MOH/24"	FILL Black to dark purple SILT, some to and SAND	Borehole backfilled with cement grout.	NM
		S-2	SS	MOH/24"			NM
	5	S-3	SS	MOH/24"	@ 3.9' PEAT and gray-green Silty CLAY		NM
		S-4	SS	MOH/24"			NM
		S-5	SS	MOH/24"	@ 8' grading to gray-brown SILT to Silty CLAY and to some SAND		NM
	10				End of Boring at 10 feet.		
	15						
	20						
	25						

ECKENFELDER INC.

TEST BORING LOG

NO. JB-29

PROJECT: Remedial Investigation

SHEET NO. 1 of 1

CLIENT: GAF Chemicals Corporation - Linden, NJ

PROJECT NO. 6787

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Paul Keeney
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

SAMPLING METHODS			
	SAMPLER	TUBE	CORE
TYPE	Split spoon	NA	NA
DIAMETER	3"	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

WELL DEVELOPMENT	
METHOD:	NA
DURATION:	NA
YIELD:	NA
OTHER:	NA

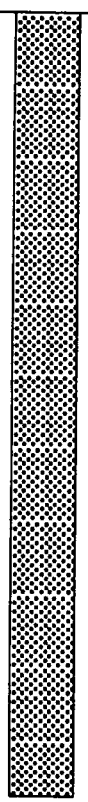
	GROUND	WELL	PROT CSG
ELEV	8.5	NA	NA

DATE STARTED: 5/18/90

DATE COMPLETED: 5/18/90

INSPECTOR: L. Scheuing/S. Kawchak

BOREHOLE CONSTRUCTION



DEPTH (feet)	SAMPLE NO.	TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
0	S-1	SS	4-10-51/12"	FILL Brown cmf SAND, and f GRAVEL, with bricks, concrete	Borehole backfilled with cement grout.	780
				@ 3' black cinders and f GRAVEL, covered with green oily substance, with wood	@ 3' strong odor throughout remaining section	
	S-2	SS	50/6"—			1000+
5	S-3	SS	WOH/12"-8-9			700
	S-4	SS	4-3-1-1	@ 8.3' PEAT, stained with same substance @ 9' black cinders and f GRAVEL, with green oily substance		1000+
10	S-5	SS	1-1-1-1	@ 9.8' PEAT and gray Silty CLAY		1000+
	S-6	SS	3-2-1-1	@ 11' black cinders and f GRAVEL, little Peat, with green oily substance		500
	S-7	SS	1-3-5-9	TIDAL MARSH DEPOSITS PEAT and gray Silty CLAY @ 14' gray and yellow-orange mf SAND and Silty CLAY @ 14.4' grading to gray Silty CLAY, some (-) f Sand @ 14.7' brown mf SAND, some Silty Clay		NM
15				End of Boring at 15 feet.		
20						
25						

ECKENFELDER INC. — TEST BORING LOG

NO. JB-30

PROJECT: Remedial Investigation
CLIENT: GAF Chemicals Corporation - Linden, NJ

SHEET NO. 1 of 1
PROJECT NO. 6787

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Paul Keeney
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split spoon	NA	NA
DIAMETER	3"	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

WELL DEVELOPMENT	
METHOD:	NA
DURATION:	NA
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV	8.0	NA	NA

DATE STARTED: 5/23/90
DATE COMPLETED: 5/23/90
INSPECTOR: L. Scheuing/S. Kawchak

BOREHOLE CONSTRUCTION

DEPTH (feet)	SAMPLE NO.	TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1958)	REMARKS	OVA ppm
0	S-1	SS	9-10-21-7	FILL Medium brown cmf SAND, some mf Gravel, little (+) Silt	Borehole backfilled with cement grout. Strong odor throughout remaining section.	8.2
	S-2	SS	10-100/4"	@ 0.3' red-brown to brick red SILT & CLAY, little mf Gravel, little Sand, with metal at end of sample, sample covered with blue substance		54
5	S-3	SS	15-20-6-3	@ 2' coarse, angular brick and concrete pieces, cinders, some cmf Sand, with wood @ 4.3' black and multicolored cmf SAND and cinders and ash, some Gravel, little Silt, sample covered with purple substance		NM
	S-4	SS	1-2-1-1	@ 6' grading to black cinders, ash and SILT, some f Sand, little f Gravel, covered with purple and black oily substance		1000+
	S-5	SS	WOH/6"-WOH/6"-1-1	@ 8.1' gray-brown to multi-colored Silty CLAY, some to and mf to f SAND		NM
10	S-6	SS	WOH/6"-WOH/6"-1-1			NM
	S-7	SS	2-7-11-13			46
15				@ 13.8' grading to brown mf SAND End of Boring at 14 feet.		
20						
25						

ECKENFELDER INC.

TEST BORING LOG

NO. JB-31

PROJECT: Remedial Investigation
CLIENT: GAF Chemicals Corporation - Linden, NJ

SHEET NO. 1 of 1
PROJECT NO. 6787

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Paul Keeney
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

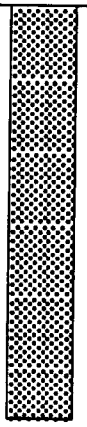
SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split Spoon	NA	NA
DIAMETER	3 inch	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

WELL DEVELOPMENT	
METHOD:	NA
DURATION:	NA
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV	NA	NA	NA

DATE STARTED: 5/18/90
DATE COMPLETED: 5/18/90
INSPECTOR: Steven Kawchak

BOREHOLE CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
	0	S-1	SS	5-8-9-9	FILL Brown to gray SAND and cmf GRAVEL, some Silt @ 1.7' cinders @ 2' red CLAY, trace mf Gravel	Borehole backfilled with cement grout.	210
		S-2	SS	8-9-4-4	@ 3.6' black cinders, grading to m SAND and SILT, with wood	Saturated	210
	5	S-3	SS	6-7-10-11			1000+
		S-4	SS	7-11-5-4			400
	10				End of Boring at 8 feet.		
	15						
	20						
	25						

ECKENFELDER INC.

TEST BORING LOG

NO. JB-32

PROJECT: Remedial Investigation

SHEET NO. 1 of 1

CLIENT: GAF Chemcials Corporation - Linden, NJ

PROJECT NO. 6787

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Paul Keeney
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

SAMPLING METHODS			
	SAMPLER	TUBE	CORE
TYPE	Split Spoon	NA	NA
DIAMETER	3 inch	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

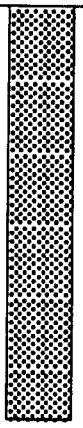
WELL DEVELOPMENT	
METHOD:	NA
DURATION:	NA
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV	10.9	NA	NA

DATE STARTED: 6/12/90

DATE COMPLETED: 6/12/90

INSPECTOR: S. Kawchak/S. thews

BOREHOLE CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
	0	S-1	SS	MOH/24"	FILL Black and green SILT and SAND @ 2' PEAT and black-green SILT and SAND	Borehole backfilled with cement grout.	NA
		S-2	SS	MOH/24"			NA
	5	S-3	SS	MOH/24"			NA
		S-4	SS	MOH/24"	@ 6' grading to army green Silty CLAY, with plant fibers		NA
					End of Boring at 8 feet.		
	10						
	15						
	20						
	25						

ECKENFELDER INC. — TEST BORING LOG

NO. JB-33

PROJECT: Remedial Investigation
CLIENT: GAF Chemicals Corporation - Linden, NJ

SHEET NO. 1 of 1
PROJECT NO. 6787

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Paul Keeney
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

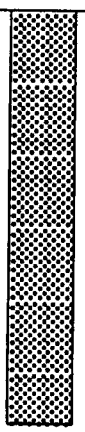
SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split Spoon	NA	NA
DIAMETER	3 inch	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

WELL DEVELOPMENT	
METHOD:	NA
DURATION:	NA
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV	7.0	NA	NA

DATE STARTED: 5/21/90
DATE COMPLETED: 5/21/90
INSPECTOR: S. Kawchak/L. Scheuing

BOREHOLE CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	DVA ppm
	0	S-1	SS	1-2-2-2	FILL Brown, yellow and white cmf SAND, some Clayey Silt, little f well rounded Gravel, grass, wood and roots	Borehole backfilled with cement grout.	0.8
		S-2	SS	2-3-5-4	@ 2' black CLAY & SILT, some cmf Sand, little Gravel, stained rusty dark red-brown	@ 2' chemical odor	28
	5	S-3	SS	1-1-3-4	@4' black cinder material, some Clayey Silt	@ 4' chemical odor	500
		S-4	SS	NA	Tidal Marsh Deposits (Peat) Medium brown Peat, black cinders	@ 6' strong H2S odor	NR
	10				End of Boring at 8 feet.		
	15						
	20						
	25						

ECKENFELDER INC.

TEST BORING LOG

NO. JB-34

PROJECT: Remedial Investigation

SHEET NO. 1 of 1

CLIENT: GAF Chemicals Corporation - Linden, NJ

PROJECT NO. 6787

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Paul Keeney
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split Spoon	NA	NA
DIAMETER	3 inch	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

WELL DEVELOPMENT	
METHOD:	NA
DURATION:	NA
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV	7.6	NA	NA

DATE STARTED: 6/18/90

DATE COMPLETED: 6/18/90

INSPECTOR: Steven Kawchak

BOREHOLE CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	DVA ppm
	0	S-1	SS	8-12-13-17	FILL Tan m SAND @ 0.6' reddish-black cinders, moist oily appearance	Borehole backfilled with cement grout.	2.9
		S-2	SS	9-11-18-18	@ 2' tan CLAY and SILT.		7.3
	5	S-3	SS	5-7-8-12	@ 4.5' black cinders.		1.4
		S-4	SS	2-3-4-4			60
		S-5	SS	2-3-3-3			78
	10	S-6	SS	2-1-1-1	TIDAL MARSH DEPOSITS (Peat) Black PEAT, little Clay and Silt. Strong H2S Odor.		16
		S-7	SS	1-1-12-16	(Silt and Clay) @ 12' medium gray CLAY & SILT trace f Sand.		22
	15				End of Boring at 14 feet.		
	20						
	25						

ECKENFELDER INC.

TEST BORING LOG

NO. JB-35

PROJECT: Remedial Investigation
CLIENT: GAF Chemicals Corporation - Linden, NJ

SHEET NO. 1 of 1
PROJECT NO. 6787

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Paul Keeney
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split Spoon	NA	NA
DIAMETER	3 inch	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

WELL DEVELOPMENT	
METHOD:	NA
DURATION:	NA
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV	9.3	NA	NA

DATE STARTED: 6/8/90
DATE COMPLETED: 6/8/90
INSPECTOR: Steven Kawchak

BOREHOLE CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
	0	S-1	SS	1-1-1-1	FILL Black SAND and SILT, stained with oily substance	Borehole backfilled with cement grout.	49
		S-2	SS	NA	@ 2' grading to black SAND and f GRAVEL, with cinders		NA
	5	S-3	SS	1-2-1-2	@ 4' black-brown SILT and SAND, some f Gravel, with wood and glass fragments		95
		S-4	SS	2-5-3-2	@ 6' tan-gray Clayey SILT, some f Sand		35
	10				End of Boring at 8 feet.		
	15						
	20						
	25						

ECKENFELDER INC.

TEST BORING LOG

NO. JB-36

PROJECT: Remedial Investigation
SHEET NO. 1 of 1
CLIENT: GAF Chemicals Corporation - Linden, NJ
PROJECT NO. 6787

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Paul Keeney
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

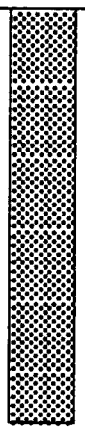
SAMPLING METHODS			
	SAMPLER	TUBE	CORE
TYPE	Split Spoon	NA	NA
DIAMETER	3 inch	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

WELL DEVELOPMENT	
METHOD:	NA
DURATION:	NA
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV	8.6	NA	NA

DATE STARTED: 6/8/90
DATE COMPLETED: 6/8/90
INSPECTOR: Steven Kawchak

BOREHOLE CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	DVA ppm
	0	S-1	SS	NA	FILL Black SILT and cinders @ 2' grading to gray Clayey SILT	Borehole backfilled with cement grout. Strong odor present.	530
		S-2	SS	NA	@ 4' PEAT and brown SILT to gray Clayey SILT, some to and f SAND		NA
	5	S-3	SS	NA			NA
		S-4	SS	1-1-1-1			NA
					End of Boring at 8 feet.		
	10						
	15						
	20						
	25						

ECKENFELDER INC.

TEST BORING LOG

NO. JB-37

PROJECT: Remedial Investigation

SHEET NO. 1 of 1

CLIENT: GAF Chemicals Corporation - Linden, NJ

PROJECT NO. 6787

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Paul Keeney
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

SAMPLING METHODS			
	SAMPLER	TUBE	CORE
TYPE	Split Spoon	NA	NA
DIAMETER	3 inch	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

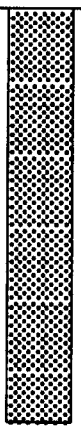
WELL DEVELOPMENT	
METHOD:	NA
DURATION:	NA
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV	7.3	NA	NA

DATE STARTED: 6/5/90

DATE COMPLETED: 6/5/90

INSPECTOR: Steven Kawchak

BOREHOLE CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	DVA ppm
	0	S-1	SS	9-12-18-20	FILL Brown Silty CLAY to SILT and SAND, no to little Gravel	Borehole backfilled with cement grout. Odor evident throughout remaining section.	3.8
		S-2	SS	8-11-11-12	@ 4' black stained wood, brown-gray SAND and GRAVEL, with cinders and ash		25
	5	S-3	SS	5-6-4-2			27
		S-4	SS	4-4-6-7			99
					End of Boring at 8 feet.		
	10						
	15						
	20						
	25						

ECKENFELDER INC.

TEST BORING LOG

NO. JB-38

PROJECT: Remedial Investigation

SHEET NO. 1 of 1

CLIENT: GAF Chemicals Corporation - LInden, NJ

PROJECT NO. 6787

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Paul Keeney
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

SAMPLING METHODS			
	SAMPLER	TUBE	CORE
TYPE	Split Spoon	NA	NA
DIAMETER	3 inch	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

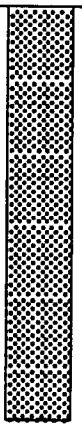
WELL DEVELOPMENT	
METHOD:	NA
DURATION:	NA
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV	6.3	NA	NA

DATE STARTED: 6/7/90

DATE COMPLETED: 6/7/90

INSPECTOR: Steven Kawchak

BOREHOLE CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
	0	S-1	SS	21-19-23-25	FILL Black to brick red and gray-tan SAND and to no SILT, some to and GRAVEL, with wood and cement, covered with a black oily substance	Borehole backfilled with cement grout.	1000
		S-2	SS	28-30-26-27			1000
	5	S-3	SS	19-20-31-30			1000
		S-4	SS	21-9-8-8		Odor present	1000
	10				End of Boring at 8 feet.		
	15						
	20						
	25						

ECKENFELDER INC. TEST BORING LOG

NO. JB-39

PROJECT: Remedial Investigation
CLIENT: GAF Chemicals Corporation - Linden, NJ

SHEET NO. 1 of 1
PROJECT NO. 6787

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Paul Keeney
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

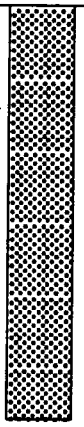
SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split spoon	NA	NA
DIAMETER	3"	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

WELL DEVELOPMENT	
METHOD:	NA
DURATION:	NA
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV	7.7	NA	NA

DATE STARTED: 6/4/90
DATE COMPLETED: 6/4/90
INSPECTOR: L. Scheuing/S. Kawchak

BOREHOLE CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
	0	S-1	SS	32-28-30-26	FILL Black asphalt @ 0.2' gray cf GRAVEL, little Clayey Silt, trace mf Sand	Borehole backfilled with cement grout.	0.8
		S-2	SS	26-19-18-17	@ 0.6' wood stained with black oily substance		NA
	5	S-3	SS	12-13-15-17	@ 4' wood, some (-) to and mf Gravel, little to some cf Sand, no to trace Clayey Silt	Strong odor evident throughout remaining section.	NA
		S-4	SS	13-18-22-27			850
	10				End of Boring at 8 feet.		
	15						
	20						
	25						

ECKENFELDER INC.

TEST BORING LOG

NO. JB-40

PROJECT: Remedial Investigation
SHEET NO. 1 of 1
CLIENT: GAF Chemicals Corporation - Linden, NJ
PROJECT NO. 6787

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Paul Keeney
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

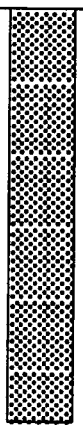
SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split spoon	NA	NA
DIAMETER	3"	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

WELL DEVELOPMENT	
METHOD:	NA
DURATION:	NA
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV	6.1	NA	NA

DATE STARTED: 6/14/90
DATE COMPLETED: 6/14/90
INSPECTOR: S. Kawchak/S. Matthews

BOREHOLE CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
	0	S-1	SS	Not Available	FILL	Borehole backfilled with cement grout.	200
		S-2	SS		@ 2' black SAND and GRAVEL, some Silt, with wood, covered with oily substance		34
	5	S-3	SS		@ 4.8' grading to gray-green Clayey SILT to Silty CLAY, with plant fibers		40
		S-4	SS			Odor present	1000+
					End of Boring at 8 feet.		
	10						
	15						
	20						
	25						

ECKENFELDER INC.

TEST BORING LOG

NO. JB-41

PROJECT: Remedial Investigation
CLIENT: GAF Chemicals Corporation - Linden, NJ

SHEET NO. 1 of 1
PROJECT NO. 6787

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Paul Keeney
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split Spoon	NA	NA
DIAMETER	3 inch	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

WELL DEVELOPMENT	
METHOD:	NA
DURATION:	NA
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV	10.7	NA	NA

DATE STARTED: 5/14/90
DATE COMPLETED: 5/14/90
INSPECTOR: Steven Kawchak

BOREHOLE CONSTRUCTION

DEPTH (feet)	SAMPLE NO.	TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
0	S-1	SS	2-8-10-10	FILL Black and tan Silty CLAY and to trace GRAVEL, some f Sand	Borehole backfilled with cement grout.	16
	S-2	SS	26-12-9-9	@ 2.3' red and black cinders with glass fragments		720
				@ 4' brown CLAY and GRAVEL, with wood		
5	S-3	SS	3-19-25-10			NR
	S-4	SS	3-2-3-5			NR
	S-5	SS	NA	@ 8.7' black Silty PEAT grading to gray Clayey SILT		1000+
10	S-6	SS	NA	@ 10.8' grading to gray-black Silty CLAY @ 11.5' Red residual soil		1000+
				End of Boring at 12 feet.		
15						
20						
25						

ECKENFELDER INC.

TEST BORING LOG

NO. JB-42

PROJECT: Remedial Investigation
SHEET NO. 1 of 1
CLIENT: GAF Chemicals Corporation - Linden, NJ
PROJECT NO. 6787

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Paul Keeney
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split Spoon	NA	NA
DIAMETER	3 inch	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

WELL DEVELOPMENT	
METHOD:	NA
DURATION:	NA
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV	12.5	NA	NA

DATE STARTED: 5/14/90
DATE COMPLETED: 5/14/90
INSPECTOR: Steven Kawchak

BOREHOLE CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
	0	S-1	SS	2-4-5-14	FILL Reddish-brown to tan and white Silty CLAY, some to no well-rounded m Gravel, with ash	Borehole backfilled with cement grout.	18
		S-2	SS	4-4-6-11			260
	5	S-3	SS	4-4-3-3			1000+
		S-4	SS	2-3-3-3	@ 6' grading to brown and yellow-gray SILT & CLAY, some f Sand, trace mf Gravel		1000+
					End of Boring at 8 feet.		
	10						
	15						
	20						
	25						

ECKENFELDER INC.

TEST BORING LOG

NO. JB-43

PROJECT: Remedial Investigation

SHEET NO. 1 of 1

CLIENT: GAF Chemicals Corporation - Linden, NJ

PROJECT NO. 6787

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Paul Keeney
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

SAMPLING METHODS			
	SAMPLER	TUBE	CORE
TYPE	Split Spoon	NA	NA
DIAMETER	3 inch	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

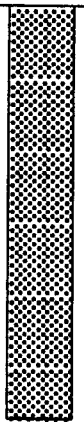
WELL DEVELOPMENT	
METHOD:	NA
DURATION:	NA
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV	10.2	NA	NA

DATE STARTED: 5/10/90

DATE COMPLETED: 5/10/90

INSPECTOR: Steven Kawchak

BOREHOLE CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
	0	S-1	SS	3-3-2-3	FILL	Borehole backfilled with cement grout.	0
		S-2	SS	3-3-4-5			0
	5	S-3	SS	1-1-2-2			130
		S-4	SS	4-6-10-9			820
					End of Boring at 8 feet.		
	10						
	15						
	20						
	25						

ECKENFELDER INC.

TEST BORING LOG

NO. JB-44

PROJECT: Remedial Investigation
CLIENT: GAF Chemicals Corporation - Linden, NJ

SHEET NO. 1 of 1
PROJECT NO. 6787

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Paul Keeney
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

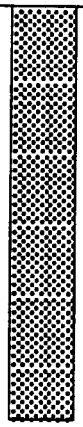
SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split spoon	NA	NA
DIAMETER	3"	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

WELL DEVELOPMENT	
METHOD:	NA
DURATION:	NA
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV	10.7	NA	NA

DATE STARTED: 5/10/90
DATE COMPLETED: 5/10/90
INSPECTOR: L. Scheuing/S. Kawchak

BOREHOLE CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
	0	S-1	SS	4-4-2-2	FILL Red-brown to brown cmf SAND, some to little f Gravel, trace Silt	Borehole backfilled with cement grout.	0
		S-2	SS	2-1-2-4	@ 0.5' grading to gray Clayey Silt, little mf Sand, stained with black substance @ 2.2' red-brown CLAY & SILT, little mf Sand, stained with black substance		180
	5	S-3	SS	4-8-13-18	@ 3.3' yellow cmf SAND, no to little f Gravel, trace Silt, partially covered with a black substance	Odor evident throughout remaining section.	300
		S-4	SS	42-36-20-15			NR
					End of Boring at 8 feet.		
	10						
	15						
	20						
	25						

ECKENFELDER INC.

TEST BORING LOG

NO. JB-45

PROJECT: Remedial Investigation
CLIENT: GAF Chemicals Corporation - Linden, NJ

SHEET NO. 1 of 1
PROJECT NO. 6787

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Paul Keeney
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

SAMPLING METHODS			
	SAMPLER	TUBE	CORE
TYPE	Split spoon	NA	NA
DIAMETER	3"	NA	NA
OTHER	NA	NA	NA

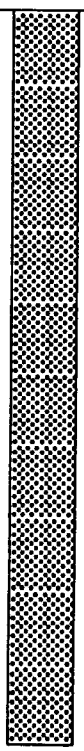
WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

WELL DEVELOPMENT	
METHOD:	NA
DURATION:	NA
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV	9.8	NA	NA

DATE STARTED: 5/10/90
DATE COMPLETED: 5/10/90
INSPECTOR: L. Scheuing/S. Kawchak

BOREHOLE CONSTRUCTION



DEPTH (feet)	SAMPLE NO.	TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	DVA ppm
0	S-1	SS	5-4-3-4	FILL Gray-brown cmf SAND, some Clayey Silt, little f Gravel @ 0.4' gray Clayey SILT, little Sand	Borehole backfilled with cement grout.	0
	S-2	SS	2-2-3-2	@ 0.7' brown to yellow cmf SAND, some to trace Clayey Silt to Silt, little to no f Gravel @ 2.4' yellow Silty CLAY alternating with 0.2' of yellow cmf SAND, trace Silt		0
5	S-3	SS	4-7-12-15	@ 3.2 black to yellow cmf SAND, little to no f Gravel, trace to and Clayey Silt, with wood fragments		1000+
	S-4	SS	7-10-12-56	@ 6.4' black oily substance mixed with above @ 8' gray-brown cmf SAND, some Clayey Silt, trace well-rounded f Gravel		NR
	S-5	SS	NA			NR
10	S-6	SS	NA	TIDAL MARSH DEPOSITS Brown PEAT, little Silty Clay @ 11' gray-brown Silty CLAY, trace f Sand		1000+
	S-7	SS	NA	@ 12' PEAT, little gray-black Silty Clay @ 12.4' grading to gray-brown Silty CLAY and to trace cmf SAND		1000+
15				End of Boring at 14 feet.		
20						
25						

ECKENFELDER INC.

TEST BORING LOG

NO. JB-46

PROJECT: Remedial Investigation
SHEET NO. 1 of 1
CLIENT: GAF Chemicals Corporation - Linden, NJ
PROJECT NO. 6787

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Paul Keeney
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split spoon	NA	NA
DIAMETER	3"	NA	NA
OTHER	NA	NA	NA

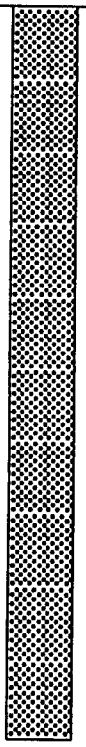
WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

WELL DEVELOPMENT	
METHOD:	NA
DURATION:	NA
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV	8.7	NA	NA

DATE STARTED: 5/24/90
DATE COMPLETED: 5/24/90
INSPECTOR: L. Scheuing/S. Kawchak

BOREHOLE CONSTRUCTION



DEPTH (feet)	SAMPLE NO.	TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	DVA ppm
0	S-1	SS	5-7-7-9	FILL Yellow and brown cmf SAND, some to little Clay & Silt, little (+) to no f Gravel @ 0.9' mixing with red-brown Silty CLAY, some cmf Sand	Borehole backfilled with cement grout.	140
	S-2	SS	6-7-10-11	@ 2' yellow and red cmf SAND, some Clayey Silt @ 2.4' black reworked PEAT, trace Clay & Silt		1000+
5	S-3	SS	5-6-6-18	@ 4' gray, yellow, and red Clayey SILT to Silty CLAY and to little mf Sand, covered with a black oily substance	Odor evident.	1000+
	S-4	SS	18-50/18"			1000+
	S-5	SS	2-3-3-2			NM
10	S-6	SS	2-1-3-4	@ 10' gray Silty CLAY, stained with black substance @ 10.2' grading to brown PEAT, trace Silty Clay		NM
	S-7	SS	NA	@ 12.8' gray to red-brown Silty CLAY, no to little (+) f Gravel, no to little cmf Sand		NM
15				End of Boring at 14 feet.		
20						
25						

ECKENFELDER INC.

TEST BORING LOG

NO. JB-47

PROJECT: Remedial Investigation
SHEET NO. 1 of 1
CLIENT: GAF Chemicals Corporation - Linden, NJ
PROJECT NO. 6787

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Paul Keeney
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split spoon	NA	NA
DIAMETER	3"	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

WELL DEVELOPMENT	
METHOD:	NA
DURATION:	NA
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV	9.2	NA	NA

DATE STARTED: 5/15/90
DATE COMPLETED: 5/15/90
INSPECTOR: L. Scheuing/S. Kawchak

BOREHOLE CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
	0	S-1	SS	7-8-8-9	FILL Red-brown to black-brown Silty CLAY, little (+) f Gravel, trace f Sand, with wood	Borehole backfilled with cement grout. Slight odor evident throughout entire section.	1000+
		S-2	SS	19-23-100/3"	@ 2' red-brown to black-brown SAND and Clayey SILT, trace f Gravel, with yellow-green crystalline material @ 2.8' black cinders and ash, with wood		1000+
	5	S-3	SS	13-50-37-21	@ 4' red-brown CLAY & SILT, trace to little f Sand, no to trace f Gravel, with yellow-green crystalline material		NR
		S-4	SS	37-75/6"			NR
					End of Boring at 8 feet.		
	10						
	15						
	20						
	25						

ECKENFELDER INC.

TEST BORING LOG

NO. JB-48

PROJECT: Remedial Investigation

SHEET NO. 1 of 1

CLIENT: GAF Chemicals Corporation - Linden, NJ

PROJECT NO. 6787

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Paul Keeney
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split Spoon	NA	NA
DIAMETER	3 inch	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

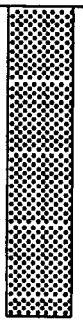
WELL DEVELOPMENT	
METHOD:	NA
DURATION:	NA
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV	11.6	NA	NA

DATE STARTED: 5/9/90

DATE COMPLETED: 5/9/90

INSPECTOR: Steven Kawchak

BOREHOLE CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
	0	S-1	SS	5-13-18-20	FILL Tan to reddish-brown cmf SAND, some f Gravel, little Clayey Silt	Borehole backfilled with cement grout.	580
		S-2	SS	4-6-8-10	@ 2' Black Silty CLAY and cinders		880
	5	S-3	SS	10-8-9-30	@ 4' grading to red-brown Silty CLAY, trace well-rounded mf Gravel		160
					End of Boring at 6 feet.		
	10						
	15						
	20						
	25						

ECKENFELDER INC.

TEST BORING LOG

NO. JB-49

PROJECT: Remedial Investigation

SHEET NO. 1 of 1

CLIENT: GAF Chemicals Corporation - Linden, NJ

PROJECT NO. 6787

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Paul Keeney
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

SAMPLING METHODS			
	SAMPLER	TUBE	CORE
TYPE	Split Spoon	NA	NA
DIAMETER	3 inch	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

WELL DEVELOPMENT	
METHOD:	NA
DURATION:	NA
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV	NA	NA	NA

DATE STARTED: 6/6/90

DATE COMPLETED: 6/6/90

INSPECTOR: S. Kawchak/ S. Matthews

BOREHOLE CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	DVA ppm
	0	S-1	SS	Not	FILL Black-brown to orange-brown SILT to Silty CLAY and SAND, little Gravel	Borehole backfilled with cement grout.	5
		S-2	SS	Available			17
	5	S-3	SS				90
		S-4	SS				NA
		S-5	SS		@ 8' gray & black Clayey SILT, some Sand, with oily substance		230
	10				End of Boring at 10 feet.		
	15						
	20						
	25						

ECKENFELDER INC. — TEST BORING LOG

NO. JB-50

PROJECT: Remedial Investigation
SHEET NO. 1 of 1
CLIENT: GAF Chemicals Corporation - Linden, NJ
PROJECT NO. 6787

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Paul Keeney
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split Spoon	NA	NA
DIAMETER	3 inch	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

WELL DEVELOPMENT	
METHOD:	NA
DURATION:	NA
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV	NA	NA	NA

DATE STARTED: 6/6/90
DATE COMPLETED: 6/6/90
INSPECTOR: S. Kawchak/ S. Matthews

BOREHOLE CONSTRUCTION

DEPTH (feet)	SAMPLE NO.	TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
0	S-1	SS	Not Available	FILL Black to orange-brown SAND and SILT, with oil-stained wood @ 4'	Borehole backfilled with cement grout.	9
	S-2	SS				13
5	S-3	SS				250
	S-4	SS		@ 8' grading to gray SILT and f SAND and GRAVEL, with wood, covered with an oily substance		NA
	S-5	SS				97
10	S-6	SS		@ 10' interlayered gray and black SILT and f SAND		160
				End of Boring at 12 feet.		
15						
20						
25						

ECKENFELDER INC.

TEST BORING LOG

NO. JB-51

PROJECT: Remedial Investigation

SHEET NO. 1 of 1

CLIENT: GAF Chemicals Corporation - Linden, NJ

PROJECT NO. 6787

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Paul Keeney
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

SAMPLING METHODS			
	SAMPLER	TUBE	CORE
TYPE	Split spoon	NA	NA
DIAMETER	3"	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

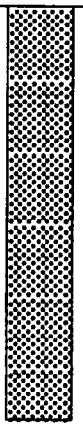
WELL DEVELOPMENT	
METHOD:	NA
DURATION:	NA
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV	NA	NA	NA

DATE STARTED: 6/1/90

DATE COMPLETED: 6/1/90

INSPECTOR: L. Scheuing/S. Kawchak

BOREHOLE CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	DVA ppm
	0	S-1	SS	2-2-7-9	FILL Black SILT & CLAY, some f Sand, occasionaly roots @ 0.9' multicolored Silty CLAY	Borehole backfilled with cement grout.	0.3
		S-2	SS	7-11-12-19	@ 2' yellow and red-brown cf SAND, little f Gravel, trace Clayey Silt @ 3.3' black coal tar, with ash and cinders, purple substance mixed throughout interval		1000+
	5	S-3	SS	7-8-7-6			1000+
		S-4	SS	4-3-2-1	@ 6.8' black ash and cinders covered with red-maroon liquid		1000+
					End of Boring at 8 feet.		
	10						
	15						
	20						
	25						

ECKENFELDER INC.

TEST BORING LOG

NO. JB-52

PROJECT: Remedial Investigation

SHEET NO. 1 of 1

CLIENT: GAF Chemicals Corporation - Linden, NJ

PROJECT NO. 6787

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Paul Keeny
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

SAMPLING METHODS			
	SAMPLER	TUBE	CORE
TYPE	Split Spoon	NA	NA
DIAMETER	3 inch	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

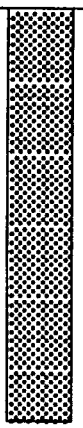
WELL DEVELOPMENT	
METHOD:	NA
DURATION:	NA
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV	6.2	NA	NA

DATE STARTED: 6/5/90

DATE COMPLETED: 6/5/90

INSPECTOR: Steven Kawchak

BOREHOLE CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
	0	S-1	SS	4-3-5-6	FILL Black and brown SILT to CLAY & SILT and SAND, little Gravel, stained with green, oily substance, with ash and cinders	Borehole backfilled with cement grout.	110
		S-2	SS	4-12-6-3			NA
	5	S-3	SS	6-6-7-6	grading to gray CLAY & SILT		54
		S-4	SS	2-2-3-2	@ 6' black SAND and SILT, some Gravel, with oil-stained wood		NA
					End of Boring at 8 feet.		
	10						
	15						
	20						
	25						

ECKENFELDER INC.

TEST BORING LOG

NO. JB-53

PROJECT: Remedial Investigation
SHEET NO. 1 of 1
CLIENT: GAF Chemicals Corporation - Linden, NJ
PROJECT NO. 6787

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Paul Keeney
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split Spoon	NA	NA
DIAMETER	3 inch	NA	NA
OTHER	NA	NA	NA

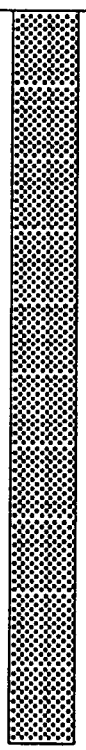
WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

WELL DEVELOPMENT	
METHOD:	NA
DURATION:	NA
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV	7.2	NA	NA

DATE STARTED: 6/8/90
DATE COMPLETED: 6/8/90
INSPECTOR: Steven Kawchak

BOREHOLE CONSTRUCTION



DEPTH (feet)	SAMPLE NO.	TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	DVA ppm
0	S-1	SS	48-82-62-60	FILL Asphalt grading to black SAND	Borehole backfilled with cement grout.	NA
	S-2	SS	12-14-14-17	@ 2' gray and beige with black layers Clayey SILT		19
5	S-3	SS	12-9-8-8	@ 4' grading to red-brown to gray Clayey SILT and to no SAND, trace to no f Gravel		NA
	S-4	SS	3-2-2-2			40
	S-5	SS	2-2-1-2	@ 8' PEAT grading to black mf GRAVEL and SAND, some Silt		NA
10	S-6	SS	2-3-3-3	@ 10' grading to gray-brown SILT and f SAND with Peat		21
	S-7	SS	2-4-6-5			15
15				End of Boring at 14 feet.		
20						
25						

ECKENFELDER INC.

TEST BORING LOG

NO. JB-54

PROJECT: Remedial Investigation

SHEET NO. 1 of 1

CLIENT: GAF Chemicals Corporation - Linden, NJ

PROJECT NO. 6787

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Paul Keeny
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split Spoon	NA	NA
DIAMETER	3 inch	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

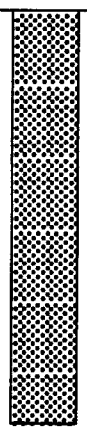
WELL DEVELOPMENT	
METHOD:	NA
DURATION:	NA
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV	NA	NA	NA

DATE STARTED: 6/18/90

DATE COMPLETED: 6/18/90

INSPECTOR: Steven Kawchak

BOREHOLE CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
	0	S-1	SS	18-19-20-18	FILL Black Cinders. Grading to Coarse Gravel, some Silt & Clay.	Borehole backfilled with cement grout.	400
		S-2	SS	21-8-5-5	Black Cinders with white Bottom Ash.		920
	5	S-3	SS	8-9-9-9			950
		S-4	SS	6-6-3-3	TIDAL MARSH DEPOSITS (Peat) Black PEAT, little organic Clay and Silt. Strong. H2S Odor.		600
	10				End of Boring at 8 feet.		
	15						
	20						
	25						

ECKENFELDER INC.

TEST BORING LOG

NO. JB-55

PROJECT: Remedial Investigation

SHEET NO. 1 of 1

CLIENT: GAF Chemicals Corporation - Linden, NJ

PROJECT NO. 6787

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Paul Keeney
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split spoon	NA	NA
DIAMETER	3"	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

WELL DEVELOPMENT	
METHOD:	NA
DURATION:	NA
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV	7.9	NA	NA

DATE STARTED: 5/30/90

DATE COMPLETED: 5/30/90

INSPECTOR: L. Scheuing/S. Kawchak

BOREHOLE CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
	0	S-1	SS	13-28-28-32	FILL Brown cf SAND and cf GRAVEL, some Clayey Silt @ 0.4' red brick fragments	Borehole backfilled with cement grout.	NM
		S-2	SS	50/6"	@ 0.7' white Clayey SILT and mf GRAVEL, some cf Sand @ 2' brown-gray mf angular GRAVEL, some cf Sand, trace Silt to Clayey Silt		NM
	5	S-3	SS	4-4-2-1	@ 4' brown cf SAND, some f Gravel @ 4.6' red-brown Silty CLAY, trace f Sand		NM
		S-4	SS	1-2-3-3		Odor evident	900
		S-5	SS	3-5-6-5	TIDAL MARSH DEPOSITS @ 8.3' brown PEAT, no to little Silty Clay		1000+
	10	S-6	SS	3-2-1-1			1000+
		S-7	SS	2-2-2-3	@ 13' gray CLAY & SILT, trace (+) f Sand		1000+
	15				End of Boring at 14 feet.		
	20						
	25						

ECKENFELDER INC.

TEST BORING LOG

NO. JB-56

PROJECT: Remedial Investigation

SHEET NO. 1 of 1

CLIENT: GAF Chemicals Corporation - Linden, NJ

PROJECT NO. 6787

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Paul Keeney
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

SAMPLING METHODS			
	SAMPLER	TUBE	CORE
TYPE	Split Spoon	NA	NA
DIAMETER	3 inch	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION		
	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

WELL DEVELOPMENT	
METHOD:	NA
DURATION:	NA
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV	10.8	NA	NA

DATE STARTED: 6/12/90

DATE COMPLETED: 6/12/90

INSPECTOR: S. Kawchak/ S. Matthews

BOREHOLE CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
	0	S-1	SS	MOH/24"	FILL Black to brown SAND and SILT, some to no Gravel, with wet cinders, stained with oily substance	Borehole backfilled with cement grout.	NA
		S-2	SS	MOH/12"-1-1			NA
	5	S-3	SS	1-2-2-2			NA
		S-4	SS	1-2-1-1			NA
					End of Boring at 8 feet.		
	10						
	15						
	20						
	25						

ECKENFELDER INC.

TEST BORING LOG

NO. JB-57

PROJECT: Remedial Investigation

SHEET NO. 1 of 1

CLIENT: GAF Chemicals Corporation - Linden, NJ

PROJECT NO. 6787

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Paul Keeney
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split Spoon	NA	NA
DIAMETER	3 inch	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

WELL DEVELOPMENT	
METHOD:	NA
DURATION:	NA
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV	10.7	NA	NA

DATE STARTED: 6/12/90

DATE COMPLETED: 6/12/90

INSPECTOR: S. Kawchak/ S. Matthews

BOREHOLE CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
	0	S-1	SS	1-1-1-1	FILL Black SILT and SAND, no to some Gravel	Borehole backfilled with cement grout. Odor evident.	NA
		S-2	SS	1--1--			NA
	5	S-3	SS	1-1-1-1			NA
		S-4	SS	1-1-1-1			NA
		S-5	SS	MOH/24"	@ 8' PEAT, stained with oily substance, grading to gray Silty CLAY		NA
	10				End of Boring at 10 feet.		
	15						
	20						
	25						

ECKENFELDER INC.

TEST BORING LOG

NO. JB-58

PROJECT: Remedial Investigation
SHEET NO. 1 of 1
CLIENT: GAF Chemicals Corporation - Linden, NJ
PROJECT NO. 6787

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation -Edison, NJ
DRILLER:	Paul Keeney
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split Spoon	NA	NA
DIAMETER	3 inch	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

WELL DEVELOPMENT	
METHOD:	NA
DURATION:	NA
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV	6.9	NA	NA

DATE STARTED: 6/15/90
DATE COMPLETED: 6/15/90
INSPECTOR: S. Kawchak/S. Matthews

BOREHOLE CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
	0	S-1	SS	Not Available	FILL Dark brown SAND and SILT, some to little f Gravel	Borehole backfilled with cement grout. Saturated	NA
		S-2	SS				NA
	5	S-3	SS		@ 4' gray-brown Silty CLAY		NA
		S-4	SS				NA
					End of Boring at 8 feet.		
	10						
	15						
	20						
	25						

ECKENFELDER INC.

TEST BORING LOG

NO. JB-59

PROJECT: Remedial Investigation

SHEET NO. 1 of 1

CLIENT: GAF Chemicals Corporation - Linden, NJ

PROJECT NO. 6787

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Paul Keeney
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split spoon	NA	NA
DIAMETER	3"	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

WELL DEVELOPMENT	
METHOD:	NA
DURATION:	NA
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV	6.5	NA	NA

DATE STARTED: 5/31/90

DATE COMPLETED: 5/31/90

INSPECTOR: L. Scheuing/S. Kawchak

BOREHOLE CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
	0	S-1	SS	18-37-48-38	FILL Gray-brown to yellow SILT & CLAY to Silty CLAY and to no mf GRAVEL, little to some (-) cf Sand	Borehole backfilled with cement grout.	160
		S-2	SS	21-23-30-36	@ 0.8' red-brown, yellow, and gray cf SAND, some to trace Clayey Silt to Silt & Clay, little (+) to and angular mf GRAVEL		NA
	5	S-3	SS	19-42-36-42	@ 4.7' slate gray to black SILT & CLAY, some cf Sand, trace f Gravel with cinders		NA
		S-4	SS	19-23-41-31	@ 6' gray to red cf GRAVEL, some cf Sand, little Clayey Silt, with wood		NA
		S-5	SS	39-61/6"			NA
	10				End of Boring at 9 feet.		
	15						
	20						
	25						

ECKENFELDER INC.	TEST BORING LOG	NO. JB-60

PROJECT: Remedial Investigation — SHEET NO. 1 of 1

CLIENT: GAF Chemicals Corporation — PROJECT NO. 6787

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation
DRILLER:	Paul Keeney
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split spoon	NA	NA
DIAMETER	3"	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

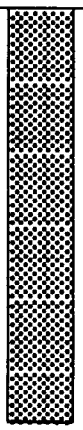
WELL DEVELOPMENT	
METHOD:	NA
DURATION:	NA
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV	7.0	NA	NA

DATE STARTED: 05/31/90

DATE COMPLETED: 05/31/90

INSPECTOR: Scheuing/Kawchak

BOREHOLE CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	DVA ppm
	0	S-1	SS	50/6"	Fill Black to red-brown Silty CLAY, some (+) cf Gravel, trace cf Sand	Borehole backfilled with cement grout.	4
		S-2	SS	7-7-7-5	@ 2' gray to brown cf SAND, some cf Gravel, little Clayey Silt with construction debris - concrete, bricks		NA
	5	S-3	SS	8-12-31-30	@ 4.7' wood		NA
		S-4	SS	23-19-18-18	@ 6' yellow to brown-red cf SAND, little to and mf Gravel, trace Clayey Silt with construction debris @ 6.9'slate gray Silty CLAY, trace f Sand		85
					End of Boring at 8 feet.		
	10						
	15						
	20						
	25						

ECKENFELDER INC.	TEST BORING LOG	NO. JB-61

PROJECT: Remedial Investigation — SHEET NO. 1 of 1

CLIENT: GAF Chemicals Corporation - Linden, NJ — PROJECT NO. 6787

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Paul Keeney
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

SAMPLING METHODS			
	SAMPLER	TUBE	CORE
TYPE	Split spoon	NA	NA
DIAMETER	3"	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION		
	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

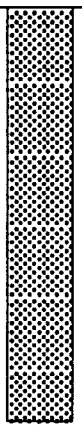
WELL DEVELOPMENT	
METHOD:	NA
DURATION:	NA
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV	9.7	NA	NA

DATE STARTED: 6/14/90

DATE COMPLETED: 6/14/90

INSPECTOR: S. Kawchak/S. Matthews

BOREHOLE CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
	0	S-1	SS	Not Available	FILL Orange-brown SAND and to no SILT, trace to and f GRAVEL	Borehole backfilled with cement grout.	0
		S-2	SS		@ 4' yellow and gray SAND and SILT		0
	5	S-3	SS		@ 5.4' grading to black and orange-brown SAND and to no f GRAVEL and SILT		460
		S-4	SS				340
					End of Boring at 8 feet.		
	10						
	15						
	20						
	25						

ECKENFELDER INC.	TEST BORING LOG	NO. JB-62

PROJECT: Remedial Investigation — SHEET NO. 1 of 1

CLIENT: GAF Chemicals Corporation - Linden, NJ — PROJECT NO. 6787

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Paul Keeney
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split spoon	NA	NA
DIAMETER	3"	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

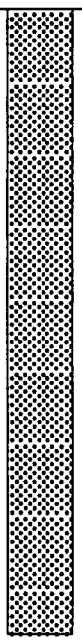
WELL DEVELOPMENT	
METHOD:	NA
DURATION:	NA
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV	6.6	NA	NA

DATE STARTED: 5/30/90

DATE COMPLETED: 5/30/90

INSPECTOR: L. Scheuing/S. Kawchak

BOREHOLE CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
	0	S-1	SS	2-11-17-19	FILL Brown cf SAND, some Clayey Silt @ 0.9' black fine-grained cinders, little Silty Clay	Borehole backfilled with cement grout.	420
		S-2	SS	5-7-8-6	@ 2' gray-white f SAND and Clayey SILT @ 2.6' black cinders and cf SAND @ 2.9' red-brown to gray Silty CLAY, some to little cf Sand, no to some mf Gravel		840
	5	S-3	SS	3-3-6-8	@ 4.3' red-brown Silty CLAY to Clayey SILT, some to no mf Gravel, little cf Sand		320
		S-4	SS	5-6-4-4	@ 6.6' black cinders, some Clayey Silt @ 6.9' red-brown Clayey SILT, little mf Sand		780
		S-5	SS	2-1-1-1	@ 8' bright yellow to white Silty CLAY, trace f Sand TIDAL MARSH DEPOSITS		NA
	10	S-6	SS	1-1-1-1	@ 9' brown PEAT		1000+
					End of Boring at 12 feet.		
	15						
	20						
	25						

ECKENFELDER INC.

TEST BORING LOG

NO. JB-63

PROJECT: Remedial Investigation
SHEET NO. 1 of 1
CLIENT: GAF Chemicals Corporation - Linden, NJ
PROJECT NO. 6787

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Paul Keeney
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

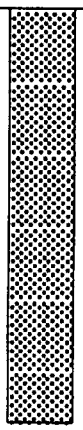
SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split spoon	NA	NA
DIAMETER	3"	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

WELL DEVELOPMENT	
METHOD:	NA
DURATION:	NA
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV	6.2	NA	NA

DATE STARTED: 5/31/90
DATE COMPLETED: 5/31/90
INSPECTOR: L. Scheuing/S. Kawchak

BOREHOLE CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
	0	S-1	SS	2-4-4-6	FILL Gray to red cf GRAVEL, some cf Sand, little Clayey Silt	Borehole backfilled with cement grout.	NA
		S-2	SS	7-5-4-4	@ 2' black cf SAND, some mf Gravel, trace Clayey Silt, with cinders		NA
	5	S-3	SS	3-4-6-5	@ 4.1' gray to black Silty CLAY, some mf Sand		320
		S-4	SS	4-4-4-4	@ 7' greenish-yellow Silty CLAY @ 7.1' grading to gray Silty CLAY, little Peat, with wood		70
					End of Boring at 8 feet.		
	10						
	15						
	20						
	25						

ECKENFELDER INC.

TEST BORING LOG

NO. JB-64

PROJECT: Remedial Investigation

SHEET NO. 1 of 1

CLIENT: GAF Chemicals Corporation - Linden, NJ

PROJECT NO. 6787

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Paul Keeney
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split spoon	NA	NA
DIAMETER	3"	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

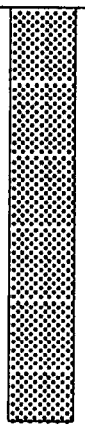
WELL DEVELOPMENT	
METHOD:	NA
DURATION:	NA
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV	10.7	NA	NA

DATE STARTED: 6/14/90

DATE COMPLETED: 6/14/90

INSPECTOR: S. Kawchak/S. Matthews

BOREHOLE CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	DVA ppm
	0	S-1	SS	Not Available	Fill Black SAND and SILT, stained with oily substance	Borehole backfilled with cement grout.	NA
		S-2	SS		@ 2' grading to gray-green to blue-gray Silty CLAY and PEAT, stained with oily substance		140
	5	S-3	SS				620
		S-4	SS				320
					End of Boring at 8 feet.		
	10						
	15						
	20						
	25						

ECKENFELDER INC.	TEST BORING LOG	NO. JB-65

PROJECT: Remedial Investigation — SHEET NO. 1 of 1

CLIENT: GAF Chemicals Corporation - Linden, NJ — PROJECT NO. 6787

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Paul Keeney
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

SAMPLING METHODS			
	SAMPLER	TUBE	CORE
TYPE	Split spoon	NA	NA
DIAMETER	3"	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION		
	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

WELL DEVELOPMENT	
METHOD:	NA
DURATION:	NA
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV	NA	NA	NA

DATE STARTED: 6/1/90

DATE COMPLETED: 6/1/90

INSPECTOR: L. Scheuing/S. Kawchak

BOREHOLE CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	SAMPLE BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
	0	S-1	SS	1-1-8-9	FILL Brown to maroon Silty CLAY, no to little cf Sand, mixed with roots near surface	Borehole backfilled with cement grout.	2.4
		S-2	SS	7-6-16-19	@ 2.2' green-brown cf SAND, some mf Gravel, little red-brown to black Silty Clay		180
	5	S-3	SS	13-15-9-9	@ 4.6' black cinders and Silty CLAY, little mf Sand, no to some mf Gravel		1000+
		S-4	SS	3-3-2-4	@ 7' gray to white Silty CLAY with a rubbery texture		210
					End of Boring at 8 feet.		
	10						
	15						
	20						
	25						

ECKENFELDER INC.

TEST BORING LOG

NO. JB-66

PROJECT: Remedial Investigation
SHEET NO. 1 of 1
CLIENT: GAF Chemicals Corporation - Linden, NJ
PROJECT NO. 6787

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Paul Keeney
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split spoon	NA	NA
DIAMETER	3"	NA	NA
OTHER	NA	NA	NA

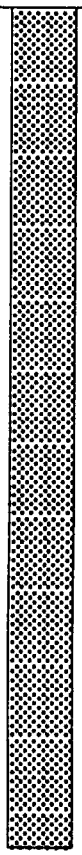
WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

WELL DEVELOPMENT	
METHOD:	NA
DURATION:	NA
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV	7.3	NA	NA

DATE STARTED: 5/16/90
DATE COMPLETED: 5/16/90
INSPECTOR: L. Scheuing/S. Kawchak

BOREHOLE CONSTRUCTION



DEPTH (feet)	SAMPLE NO.	TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
0	S-1	SS	6-8-8-15	FILL Red-brown CLAY & SILT to Silty CLAY and to little mf SAND, no to some f Gravel, mixed with grass and roots near surface	Borehole backfilled with cement grout.	300
	S-2	SS	13-6-8-9	@ 2' black cinders and to little CLAY & SILT to Silty Clay, trace f Gravel, trace cmf Sand	Odor evident.	1000+
5	S-3	SS	5-4-4-6	@ 4' red-brown to gray Silty CLAY, little cmf SAND, trace to some f Gravel, mixed with a thick black oily substance		1000+
	S-4	SS	81-9-7-23	@ 7.1' steel, as from a drum, with thick black oily substance with a plastic to brittle texture		560
	S-5	SS	41-42-46-19			12
10	S-6	SS	10-10-7-4	@ 10' gray Silty CLAY, little f Gravel, trace cmf Sand		NA
	S-7	SS	7-6-7-13	@ 12.8' gray PEAT, trace to no Silty Clay, no to trace (-) f Gravel, stained with black oily substance	Odor evident.	1000+
15	S-8	SS	7-10-11-9			1000+
20				End of Boring at 16 feet.		
25						

ECKENFELDER INC. — TEST BORING LOG

NO. JB-67

PROJECT: Remedial Investigation — SHEET NO. 1 of 1

CLIENT: GAF Chemicals Corporation - Linden, NJ — PROJECT NO. 6787

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Paul Keeney
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split Spoon	NA	NA
DIAMETER	3 inch	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

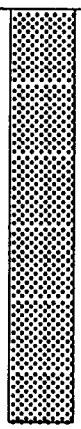
WELL DEVELOPMENT	
METHOD:	NA
DURATION:	NA
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV	7.3	NA	NA

DATE STARTED: 5/14/90

DATE COMPLETED: 5/14/90

INSPECTOR: Steven Kawchak

BOREHOLE CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
	0	S-1	SS	3-5-4-4	FILL Tan m SAND, grading to brown-red SAND and Silty CLAY	Borehole backfilled with cement grout.	30
		S-2	SS	4-6-4-9	@ 2' yellow to brown SAND and SILT & CLAY to Silty CLAY		41
	5	S-3	SS	2-3-5-4			20
		S-4	SS	3-1-1-6			90
					End of Boring at 8 feet.		
	10						
	15						
	20						
	25						

ECKENFELDER INC.	TEST BORING LOG	NO. JB-68

PROJECT: Remedial Investigation — SHEET NO. 1 of 1

CLIENT: GAF Chemicals Corporation - Linden, NJ — PROJECT NO. 6787

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Paul Keeney
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split spoon	NA	NA
DIAMETER	3"	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

WELL DEVELOPMENT	
METHOD:	NA
DURATION:	NA
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV	8.5	NA	NA

DATE STARTED: 6/1/90

DATE COMPLETED: 6/1/90

INSPECTOR: L. Scheuing/S. Kawchak

BOREHOLE CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
	0	S-1	SS	13-12-8-3	FILL Tan to medium brown m SAND, some Silt	Borehole backfilled with cement grout.	300
		S-2	SS	4-3-2-2			400
	5	S-3	SS	2-2-2-2	@ 4.1 Gray Silty CLAY, some Sand		1000+
		S-4	SS	3-4-3-3			700
	10				End of Boring at 8 feet.		
	15						
	20						
	25						

ECKENFELDER INC. — TEST BORING LOG

NO. JB-69

PROJECT: Remedial Investigation
CLIENT: GAF Chemicals Corporation - Linden, NJ

SHEET NO. 1 of 1
PROJECT NO. 6787

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Paul Keeney
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

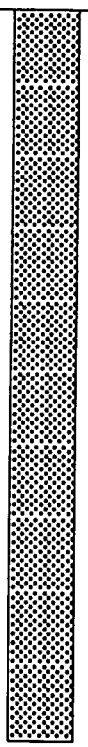
SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split spoon	NA	NA
DIAMETER	3"	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

WELL DEVELOPMENT	
METHOD:	NA
DURATION:	NA
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV	6.9	NA	NA

DATE STARTED: 5/30/90
DATE COMPLETED: 5/30/90
INSPECTOR: L. Scheuing/S. Kawchak

BOREHOLE CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	DVA ppm
	0	S-1	SS	5-6-12-27	FILL Red-brown to light brown cf SAND, some to no mf Gravel, little to some Clayey Silt, with cinders	Borehole backfilled with cement grout.	10
		S-2	SS	47-48-50/6"	@ 2.7' grading to black SILT & CLAY, some to little cf Gravel, little mf Sand, with cinders		76
	5	S-3	SS	20-19-14-30	@ 6' black cinders, trace Clayey Silt		1000+
		S-4	SS	20-37-32-19			1000+
		S-5	SS	9-7-4-6	@ 8.9' red-brown Silty CLAY, trace f Sand		1000+
	10	S-6	SS	5-6-2-1	TIDAL MARSH DEPOSITS @ 10.2' brown PEAT, no to little gray-black Silty Clay		28
		S-7	SS	1-1-1-1			NA
	15				End of Boring at 14 feet.		
	20						
	25						

ECKENFELDER INC.

TEST BORING LOG

NO. JB-70

PROJECT: Remedial Investigation

SHEET NO. 1 of 1

CLIENT: GAF Chemicals Corporation - Linden, NJ

PROJECT NO. 6787

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Paul Keeney
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

SAMPLING METHODS			
	SAMPLER	TUBE	CORE
TYPE	Split spoon	NA	NA
DIAMETER	3"	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

WELL DEVELOPMENT	
METHOD:	NA
DURATION:	NA
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV	6.9	NA	NA

DATE STARTED: 5/31/90

DATE COMPLETED: 5/31/90

INSPECTOR: L. Scheuing/S. Kawchak

BOREHOLE CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
	0	S-1	SS	7-11-14-19	FILL Brown cf SAND and gray cf GRAVEL, little Clayey Silt @ 0.2' Red to brown Clayey SILT to Silty CLAY, some to little cf Sand	Borehole backfilled with cement grout.	NA
		S-2	SS	17-16-18-21	@ 3' grading to black Silty CLAY with oily product with a plastic texture		NA
	5	S-3	SS	18-18-19-17	@ 4.5' red-brown to black CLAY & SILT, some cf Sand, trace f Gravel		NA
		S-4	SS	10-11-10-4			NA
					End of Boring at 8 feet.		
	10						
	15						
	20						
	25						

ECKENFELDER INC.

TEST BORING LOG

NO. JB-71

PROJECT: Remedial Investigation

SHEET NO. 1 of 1

CLIENT: GAF Chemicals Corporation - Linden, NJ

PROJECT NO. 6787

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Paul Keeney
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split spoon	NA	NA
DIAMETER	3"	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

WELL DEVELOPMENT	
METHOD:	NA
DURATION:	NA
YIELD:	NA
OTHER:	NA

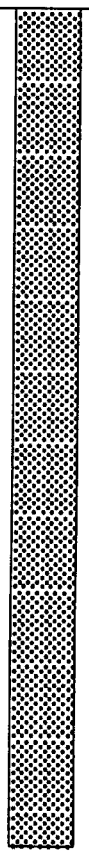
	GROUND	WELL	PROT CSG
ELEV	6.1	NA	NA

DATE STARTED: 6/4/90

DATE COMPLETED: 6/4/90

INSPECTOR: L. Scheuing/S. Kawchak

BOREHOLE CONSTRUCTION



DEPTH (feet)	SAMPLE NO.	TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
0	S-1	SS	4-7-6-5	FILL Gray to brown cf SAND, some mf Gravel, little Clayey Silt	Borehole backfilled with cement grout.	250
	S-2	SS	4-4-5-5	@ 0.4' black cinders and ash, some to little cf Sand, trace Clayey Silt		190
5	S-3	SS	4-3-3-3	@ 4' brown cf SAND, little f Gravel, trace Clayey Silt @ 4.3' black cinders and ash, little (+) gray Clayey Silt		890
	S-4	SS	3-3-4-2			290
	S-5	SS	2-2-1-1			NA
10	S-6	SS	1-1-1-1	TIDAL MARSH DEPOSITS @ 10' brown PEAT, trace gray Silty Clay		1000+
	S-7	SS	2-2-3-4			NA
15	S-8	SS	3-4-5-5	@ 14' gray Silty CLAY, little f Sand		180
20				End of Boring at 16 feet.		
25						

ECKENFELDER INC.

TEST BORING LOG

NO. JB-72

PROJECT: Remedial Investigation

SHEET NO. 1 of 1

CLIENT: GAF Chemicals Corporation - Linden, NJ

PROJECT NO. 6787

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Paul Keeney
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

SAMPLING METHODS			
	SAMPLER	TUBE	CORE
TYPE	Split Spoon	NA	NA
DIAMETER	3 inch	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

WELL DEVELOPMENT	
METHOD:	NA
DURATION:	NA
YIELD:	NA
OTHER:	NA

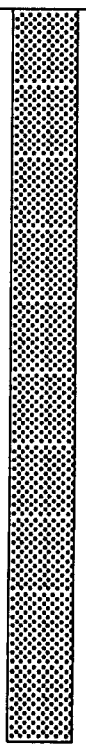
	GROUND	WELL	PROT CSG
ELEV	5.5	NA	NA

DATE STARTED: 6/7/90

DATE COMPLETED: 6/7/90

INSPECTOR: S. Kawchak/ S. Matthews

BOREHOLE CONSTRUCTION



DEPTH (feet)	SAMPLE NO.	TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
0	S-1	SS	2-2-3-4	FILL Orange-brown f GRAVEL and SILT	Borehole backfilled with cement grout.	180
	S-2	SS	4-4-4-5	@ 2' black SAND and f GRAVEL, some Silt, with oil-stained wood		260
5	S-3	SS	2-2-2-1			1000+
	S-4	SS	1-1-1-1	@ 6' black cinders and ash		NA
	S-5	SS	1-1-1-1			NA
10	S-6	SS	1-1-1-1	TIDAL MARSH DEPOSITS PEAT @ 10' gray Silty CLAY and SAND, grading to black SAND and GRAVEL, no to little Peat, with cinders		440
	S-7	SS	1-2-6-11			400
15				End of Boring at 14 feet.		
20						
25						

ECKENFELDER INC.

TEST BORING LOG

NO. JB-73

PROJECT: Remedial Investigation

SHEET NO. 1 of 1

CLIENT: GAF Chemicals Corporation - Linden, NJ

PROJECT NO. 6787

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Paul Keeney
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split spoon	NA	NA
DIAMETER	3"	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

WELL DEVELOPMENT	
METHOD:	NA
DURATION:	NA
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV	7.8	NA	NA

DATE STARTED: 5/25/90

DATE COMPLETED: 5/25/90

INSPECTOR: L. Scheuing/S. Kawchak

BOREHOLE CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
	0	S-1	SS	10-12-12-8	FILL Brown to yellow cmf SAND, some to trace cmf Gravel, little to no Clayey Silt	Borehole backfilled with cement grout.	1.4
		S-2	SS	3-1-1-2	@ 3.3' black cinders and ash		5.6
	5	S-3	SS	2-3-1-1			50
		S-4	SS	1-1-1-1	@ 6' brown PEAT, little to some gray Clayey Silt		780
					End of Boring at 8 feet.		
	10						
	15						
	20						
	25						

ECKENFELDER INC.	TEST BORING LOG	NO. JB-74

PROJECT: Remedial Investigation — SHEET NO. 1 of 1

CLIENT: GAF Chemicals Corporation - Linden, NJ — PROJECT NO. 6787

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Paul Keeney
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split spoon	NA	NA
DIAMETER	3"	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

WELL DEVELOPMENT	
METHOD:	NA
DURATION:	NA
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV	7.2	NA	NA

DATE STARTED: 5/25/90

DATE COMPLETED: 5/25/90

INSPECTOR: L. Scheuing/S. Kawchak

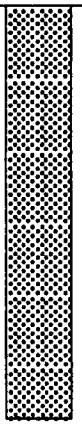
BOREHOLE CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
	0	S-1	SS	7-3-4-2	FILL Light brown and tan cmf SAND, little to some Silty Clay to Silt and Clay, little to no cmf Gravel, with ash and cinders	Borehole backfilled with cement grout.	0
		S-2	SS	2-2-3-3			110
	5	S-3	SS	2-1-1-2	@ 6' tan Silty CLAY, some cmf SAND		140
		S-4	SS	1-2-1-1			10
		S-5	SS	1-1-1-2	@ 8' grading to black and gray Silty CLAY with black ash and cinders		1000+
	10	S-6	SS	1-2-2-2	TIDAL MARSH DEPOSITS @ 10' brown PEAT, little gray Silty Clay		1000+
		S-7	SS	2-2-3-2	@ 12' grading to gray Silty CLAY, little Peat		1000+
	15	S-8	SS	1-1-1-1			NA
					End of Boring at 16 feet.		
	20						
	25						

ECKENFELDER INC.	TEST BORING LOG	NO. JB-75

PROJECT: Remedial Investigation	SHEET NO. 1 of 1
CLIENT: GAF Chemicals Corporation - Linden, NJ	PROJECT NO. 6787

DRILLING DATA	SAMPLING METHODS			
CONTRACTOR: Empire Soils Investigation - Edison, NJ		SAMPLER	TUBE	CORE
DRILLER: Paul Keeney	TYPE	Split spoon	NA	NA
EQUIPMENT: CME 55	DIAMETER	3"	NA	NA
METHOD: Hollow Stem Auger	OTHER	NA	NA	NA

WELL CONSTRUCTION			WELL DEVELOPMENT		GROUND	WELL	PROT CSG
	RISER	INTAKE	METHOD: NA	ELEV	9.0	NA	NA
MATERIAL	NA	NA	DURATION: NA	DATE STARTED: 5/25/90			
DIAMETER	NA	NA	YIELD: NA	DATE COMPLETED: 5/25/90			
COUPLING	NA	NA	OTHER: NA	INSPECTOR: L. Scheuing/S. Kawchak			

BOREHOLE CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
	0	S-1	SS	Not Available	FILL Brown to black cmf SAND, some Clayey Silt, trace to little f Gravel, with cinders, ash, and wood	Borehole backfilled with cement grout.	1.6
		S-2	SS				20
					@ 4' yellow to tan cmf SAND, some Clayey Silt		
	5	S-3	SS				2
		S-4	SS				NM
					End of Boring at 8 feet.		
	10						
	15						
	20						
	25						

ECKENFELDER INC.	TEST BORING LOG	NO. JB-76

PROJECT: Remedial Investigation — SHEET NO. 1 of 1

CLIENT: GAF Chemicals Corporation - Linden, NJ — PROJECT NO. 6787

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Paul Keeney
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

SAMPLING METHODS			
	SAMPLER	TUBE	CORE
TYPE	Split spoon	NA	NA
DIAMETER	3"	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

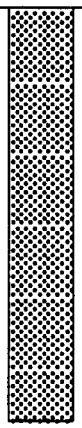
WELL DEVELOPMENT	
METHOD:	NA
DURATION:	NA
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV	10.1	NA	NA

DATE STARTED: 5/25/90

DATE COMPLETED: 5/25/90

INSPECTOR: L. Scheuing/S. Kawchak

BOREHOLE CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
	0	S-1	SS	2-4-6-11	FILL Medium to yellow brown cmf SAND, some Clayey SILT, little mf Gravel	Borehole backfilled with cement grout.	0
		S-2	SS	11-7-6-8	@ 1.6' gray-brown and black SILT & CLAY, little cmf Sand, trace f Gravel @ 2' brown, gray, and black cmf SAND and ash, some Silt, trace red f Gravel, with wood		120
	5	S-3	SS	6-4-2-4	@ 1.7' black PEAT @ 4' brown and black cmf SAND and cinders, some some Clayey Silt, trace (-) f Gravel, with black Peat		140
		S-4	SS	6-4-3-4	@ 6.5' black and multicolored cinders, little f Sand, trace Silt		320
					End of Boring at 8 feet.		
	10						
	15						
	20						
	25						

ECKENFELDER INC.	TEST BORING LOG	NO. JB-77

PROJECT: Remedial Investigation — SHEET NO. 1 of 1

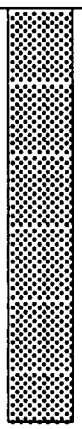
CLIENT: GAF Chemicals Corporation - Linden, NJ — PROJECT NO. 6787

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Paul Keeney
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split spoon	NA	NA
DIAMETER	3"	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

WELL DEVELOPMENT		GROUND	WELL	PROT CSG
METHOD: NA	ELEV	9.4	NA	NA
DURATION: NA	DATE STARTED: 5/29/90			
YIELD: NA	DATE COMPLETED: 5/29/90			
OTHER: NA	INSPECTOR: L. Scheuing/S. Kawchak			

BOREHOLE CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
	0	S-1	SS	3-2-1-1	FILL Gray cf SAND and mf GRAVEL, little Clayey Silt	Borehole backfilled with cement grout.	NA
		S-2	SS	1-1-1-2	Gray to multi-colored Silty CLAY, little to trace cf Sand		NA
	5	S-3	SS	2-2-2-2			NA
		S-4	SS	2-5-5-7			44
					End of Boring at 8 feet.		
	10						
	15						
	20						
	25						

ECKENFELDER INC.	TEST BORING LOG	NO. JB-78

PROJECT: Remedial Investigation — SHEET NO. 1 of 1

CLIENT: GAF Chemicals Corporation - Linden, NJ — PROJECT NO. 6787

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Paul Keeney
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split Spoon	NA	NA
DIAMETER	3 inch	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

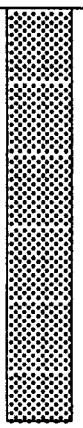
WELL DEVELOPMENT	
METHOD:	NA
DURATION:	NA
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV	6.6	NA	NA

DATE STARTED: 5/15/90

DATE COMPLETED: 5/15/90

INSPECTOR: Steven Kawchak

BOREHOLE CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
	0	S-1	SS	13-10-13-10	FILL GRAVEL, with asphalt and cinders @ 0.8 red-brown CLAY, with cinders @ 2' grading to black SAND and GRAVEL	Borehole backfilled with cement grout.	1000+
		S-2	SS	6-4-4-3			1000+
	5	S-3	SS	2-3-3-4			1000+
		S-4	SS	3-3-2-3			1000+
					End of Boring at 8 feet.		
	10						
	15						
	20						
	25						

ECKENFELDER INC.	TEST BORING LOG	NO. JB-79

PROJECT: Remedial Investigation — SHEET NO. 1 of 1

CLIENT: GAF Chemicals Corporation - Linden, NJ — PROJECT NO. 6787

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Scott Hollabaugh
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split spoon	NA	NA
DIAMETER	3"	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

WELL DEVELOPMENT	
METHOD:	NA
DURATION:	NA
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV	6.5	NA	NA

DATE STARTED: 5/8/90

DATE COMPLETED: 5/8/90

INSPECTOR: L. Scheuing/S. Kawchak

BOREHOLE CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
	0	S-1	SS	4-3-4-4	FILL Brown cmf SAND, little (-) to trace f Gravel, trace (-) Silt	Borehole backfilled with cement grout.	NR
		S-2	SS	3-3-3-3			0.5
	5	S-3	SS	4-3-3-3			1000+
		S-4	SS	3-3-3-3			1000+
		S-5	SS	4-3-3-2	@ 8.6' black cinders, little f Sand		1000+
	10	S-6	SS	2-1-1-1	TIDAL MARSH DEPOSITS PEAT		NR
		S-7	SS	1-1-1-2			NR
	15	S-8	SS	1-1-1-1			NR
					End of Boring at 16 feet.		
	20						
	25						

ECKENFELDER INC.	TEST BORING LOG	NO. JB-80

PROJECT: Remedial Investigation — SHEET NO. 1 of 1

CLIENT: GAF Chemicals Corporation - Linden, NJ — PROJECT NO. 6787

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Paul Keeney
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split Spoon	NA	NA
DIAMETER	3 inch	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

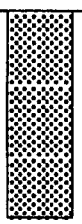
WELL DEVELOPMENT	
METHOD:	NA
DURATION:	NA
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV	NA	NA	NA

DATE STARTED: 6/5/90

DATE COMPLETED: 6/5/90

INSPECTOR: S. Kawchak/ S. Matthews

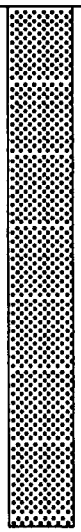
BOREHOLE CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
	0	S-1	SS	18-32-24-20	FILL Black and greenish-gray SAND and GRAVEL, some Silt	Borehole backfilled with cement grout. Strong odor throughout entire section.	NA
		S-2	SS	20-19-18-14			NA
	5				End of Boring at 4 feet.		
	10						
	15						
	20						
	25						

ECKENFELDER INC.	TEST BORING LOG	NO. JB-81

PROJECT: Remedial Investigation	SHEET NO. 1 of 1
CLIENT: GAF Chemicals Corporation - Linden, NJ	PROJECT NO. 6787

DRILLING DATA	SAMPLING METHODS			
CONTRACTOR: Empire Soils Investigation - Edison, NJ		SAMPLER	TUBE	CORE
DRILLER: Paul Keeney	TYPE	Split Spoon	NA	NA
EQUIPMENT: CME 55	DIAMETER	3 inch	NA	NA
METHOD: Hollow Stem Auger	OTHER	NA	NA	NA

WELL CONSTRUCTION			WELL DEVELOPMENT		GROUND	WELL	PROT CSG
	RISER	INTAKE	METHOD: NA	ELEV	6.8	NA	NA
MATERIAL	NA	NA	DURATION: NA	DATE STARTED: 5/15/90			
DIAMETER	NA	NA	YIELD: NA	DATE COMPLETED: 5/15/90			
COUPLING	NA	NA	OTHER: NA	INSPECTOR: Steven Kawchak			

BOREHOLE CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
	0	S-1	SS	8-10-12-8	FILL Black GRAVEL and SILT, with cinders @ 1.2' red CLAY to Silty CLAY, no to some cmf Gravel	Borehole backfilled with cement grout.	1000+
		S-2	SS	5-4-3-2	@ 4' black GRAVEL, with cinders		1000+
	5	S-3	SS	6-5-4-4	@ 6.2' red CLAY, with cinders		NR
		S-4	SS	2-2-3-2			1000+
		S-5	SS	5-4-3-4	@ 9.3' gray CLAY		1000+
	10				End of Boring at 10 feet.		
	15						
	20						
	25						

ECKENFELDER INC.	TEST BORING LOG	NO. JB-82

PROJECT: Remedial Investigation — SHEET NO. 1 of 1

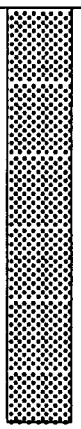
CLIENT: GAF Chemicals Corporation - Linden, NJ — PROJECT NO. 6787

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Paul Keeney
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split Spoon	NA	NA
DIAMETER	3 inch	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

WELL DEVELOPMENT		GROUND	WELL	PROT CSG
METHOD: NA	ELEV	6.5	NA	NA
DURATION: NA	DATE STARTED: 5/15/90			
YIELD: NA	DATE COMPLETED: 5/15/90			
OTHER: NA	INSPECTOR: Steven Kawchak			

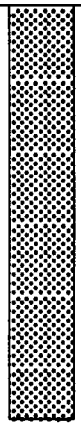
BOREHOLE CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
	0	S-1	SS	13-10-13-10	FILL SILT grading to GRAVEL and SILT	Borehole backfilled with cement grout.	1000+
		S-2	SS	6-4-4-3			1000+
	5	S-3	SS	2-3-3-4			1000+
		S-4	SS	3-3-2-3	@ 6' black cinders		1000+
					End of Boring at 8 feet.		
	10						
	15						
	20						
	25						

ECKENFELDER INC.	TEST BORING LOG	NO. JB-83

PROJECT: Remedial Investigation	SHEET NO. 1 of 1
CLIENT: GAF Chemicals Corporation - Linden, NJ	PROJECT NO. 6787

DRILLING DATA		SAMPLING METHODS			
CONTRACTOR: Empire Soils Investigation - Edison, NJ			SAMPLER	TUBE	CORE
DRILLER: Paul Keeney		TYPE	Split Spoon	NA	NA
EQUIPMENT: CME 55		DIAMETER	3 inch	NA	NA
METHOD: Hollow Stem Auger		OTHER	NA	NA	NA

WELL CONSTRUCTION			WELL DEVELOPMENT				
	RISER	INTAKE	METHOD: NA		GROUND	WELL	PROT CSG
MATERIAL	NA	NA	DURATION: NA	ELEV	6.9	NA	NA
DIAMETER	NA	NA	YIELD: NA	DATE STARTED: 5/15/90			
COUPLING	NA	NA	OTHER: NA	DATE COMPLETED: 5/15/90			
				INSPECTOR: Steven Kawchak			

BOREHOLE CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
	0	S-1	SS	Not	FILL Asphalt	Borehole backfilled with cement grout.	NR
		S-2	SS	Available			NR
	5	S-3	SS				NR
		S-4	SS				1000+
					End of Boring at 8 feet.		
	10						
	15						
	20						
	25						

ECKENFELDER INC.	TEST BORING LOG	NO. JB-84

PROJECT: Remedial Investigation — SHEET NO. 1 of 1

CLIENT: GAF Chemicals Corporation - Linden, NJ — PROJECT NO. 6787

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Paul Keeney
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split Spoon	NA	NA
DIAMETER	3 inch	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

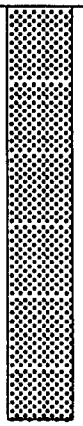
WELL DEVELOPMENT	
METHOD:	NA
DURATION:	NA
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV	6.7	NA	NA

DATE STARTED: 5/15/90

DATE COMPLETED: 5/15/90

INSPECTOR: Steven Kawchak

BOREHOLE CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
	0	S-1	SS	Not	FILL Asphalt no to and GRAVEL @ 0.8' grading to tan mf SAND @ 2' yellow-tan to black SAND and SILT	Borehole backfilled with cement grout.	300
		S-2	SS	Available			1000+
	5	S-3	SS				1000+
		S-4	SS				1000+
					End of Boring at 8 feet.		
	10						
	15						
	20						
	25						

ECKENFELDER INC.	TEST BORING LOG	NO. RB-1

PROJECT: Remedial Investigation — SHEET NO. 1 of 1

CLIENT: GAF Chemicals Corporation - Linden, NJ — PROJECT NO. 6787

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Paul Keeney
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split spoon	NA	NA
DIAMETER	3"	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

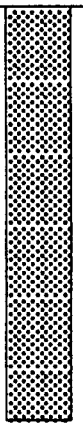
WELL DEVELOPMENT	
METHOD:	NA
DURATION:	NA
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV	6.3	NA	NA

DATE STARTED: 5/11/90

DATE COMPLETED: 5/11/90

INSPECTOR: L. Scheuing/S. Kawchak

BOREHOLE CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
	0	S-1	SS	2-2-3-2	FILL Gray f GRAVEL, some cmf Sand, trace Clayey Silt @ 0.2' red-brown cmf SAND, trace f Gravel, little Silt & Clay @ 0.7' red-brown SILT & CLAY, little cmf Sand, trace f Gravel @ 4' red-brown cmf SAND, some Silt & Clay, trace f Gravel	Borehole backfilled with cement grout.	0
		S-2	SS	4-4-4-4			NR
	5	S-3	SS	2-3-2-5			NR
		S-4	SS	3-3-3-2	TIDAL MARSH DEPOSITS PEAT, some Silty Clay, little gray-black cmf Sand @ 7.4' gray Silty CLAY, some mf Sand End of Boring at 8 feet.		1000+
	10						
	15						
	20						
	25						

ECKENFELDER INC.	TEST BORING LOG	NO. RB-2

PROJECT: Remedial Investigation — SHEET NO. 1 of 1

CLIENT: GAF Chemicals Corporation - Linden, NJ — PROJECT NO. 6787

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Paul Keeney
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split Spoon	NA	NA
DIAMETER	3 inch	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

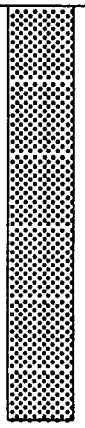
WELL DEVELOPMENT	
METHOD:	NA
DURATION:	NA
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV	6.3	NA	NA

DATE STARTED: 5/9/90

DATE COMPLETED: 5/9/90

INSPECTOR: Steven Kawchak

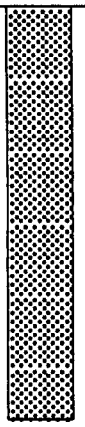
BOREHOLE CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
	0	S-1	SS	3-5-13-19	FILL Multicolored ash and cinders	Borehole backfilled with cement grout.	160
		S-2	SS	15-14-32-22			1000+
	5	S-3	SS	20-13-4-4			1000+
		S-4	SS	3-4-5-9	@ 6.4' medium gray Silty CLAY		NR
					End of Boring at 8 feet.		
	10						
	15						
	20						
	25						

ECKENFELDER INC.	TEST BORING LOG	NO. RB-3

PROJECT: Remedial Investigation	SHEET NO. 1 of 1
CLIENT: GAF Chemicals Corporation - Linden, NJ	PROJECT NO. 6787

DRILLING DATA	SAMPLING METHODS			
CONTRACTOR: Empire Soils Investigation - Edison, NJ		SAMPLER	TUBE	CORE
DRILLER: Paul Keeney	TYPE	Split Spoon	NA	NA
EQUIPMENT: CME 55	DIAMETER	3 inch	NA	NA
METHOD: Hollow Stem Auger	OTHER	NA	NA	NA

WELL CONSTRUCTION			WELL DEVELOPMENT				
	RISER	INTAKE	METHOD: NA		GROUND	WELL	PROT CSG
MATERIAL	NA	NA	DURATION: NA	ELEV	7.9	NA	NA
DIAMETER	NA	NA	YIELD: NA	DATE STARTED: 6/13/90			
COUPLING	NA	NA	OTHER: NA	DATE COMPLETED: 6/13/90			
				INSPECTOR: S. Kawchak/S. Matthews			

BOREHOLE CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
	0	S-1	SS	2-6-6-5	FILL Red Clayey SILT and SAND, some to little Gravel	Borehole backfilled with cement grout.	0.1
		S-2	SS	5-5-6-4			0.1
	5	S-3	SS	3-2-3-4			0.5
		S-4	SS	4-3-4-5			0.3
					End of Boring at 8 feet.		
	10						
	15						
	20						
	25						

ECKENFELDER INC. — TEST BORING LOG

NO. RB-4

PROJECT: Remedial Investigation — SHEET NO. 1 of 1

CLIENT: GAF Chemicals Corporation - Linden, NJ — PROJECT NO. 6787

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Paul Keeney
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split Spoon	NA	NA
DIAMETER	3 inch	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

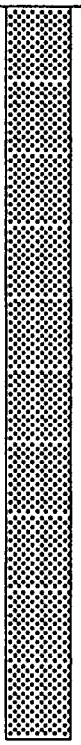
WELL DEVELOPMENT	
METHOD:	NA
DURATION:	NA
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV	6.4	NA	NA

DATE STARTED: 5/10/90

DATE COMPLETED: 5/10/90

INSPECTOR: L. Scheuing/S. Kawchak

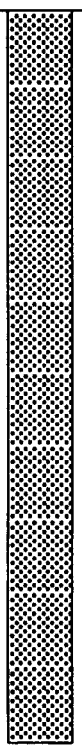
BOREHOLE CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
	0	S-1	SS	5-6-11-11	FILL Medium gray GRAVEL @ 0.4' ash and cinders	Borehole backfilled with cement grout.	0
		S-2	SS	62-85-20-20	@ 1.4' red Clayey SILT, some mf SAND, no to trace mf Gravel @ 2.2' black cinders		1.6
	5	S-3	SS	10-10-8-9			90
		S-4	SS	13-4-5-4			180
		S-5	SS	4-3-4-6			NM
	10	S-6	SS	1-2-1-2			NM
		S-7	SS	2-2-2-2			NM
	15				End of Boring at 14 feet.		
	20						
	25						

ECKENFELDER INC.	TEST BORING LOG	NO. RB-5

PROJECT: Remedial Investigation	SHEET NO. 1 of 1
CLIENT: GAF Chemicals Corporation - Linden, NJ	PROJECT NO. 6787

DRILLING DATA	SAMPLING METHODS			
CONTRACTOR: Empire Soils Investigation - Edison, NJ		SAMPLER	TUBE	CORE
DRILLER: Paul Keeney	TYPE	Split spoon	NA	NA
EQUIPMENT: CME 55	DIAMETER	3"	NA	NA
METHOD: Hollow Stem Auger	OTHER	NA	NA	NA

WELL CONSTRUCTION			WELL DEVELOPMENT				
	RISER	INTAKE	METHOD: NA		GROUND	WELL	PROT CSG
MATERIAL	NA	NA	DURATION: NA	ELEV	5.8	NA	NA
DIAMETER	NA	NA	YIELD: NA	DATE STARTED: 5/8/90			
COUPLING	NA	NA	OTHER: NA	DATE COMPLETED: 5/8/90			
				INSPECTOR: L. Scheuing/S. Kawchak			

BOREHOLE CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
	0	S-1	SS	14-14-32-32	FILL Black-gray f GRAVEL, some Sand, with cinders	Borehole backfilled with cement grout.	110
		S-2	SS	23-54-50-60	@ 2' black-gray cmf SAND, little f Gravel		85
	5	S-3	SS	8-8-8-7	@ 4' red-brown SILT & CLAY, little mf Sand @ 5.2' black GRAVEL and cinders		1000+
		S-4	SS	5-4-3-4			NR
		S-5	SS	5-2-1-1			1000+
	10	S-6	SS	5-2-2-1	TIDAL MARSH DEPOSITS PEAT	Strong odor present	130
		S-7	SS	1-1-1-2			1000+
	15				End of Boring at 14 feet.		
	20						
	25						

ECKENFELDER INC.	TEST BORING LOG	NO. RB-6

PROJECT: Remedial Investigation — SHEET NO. 1 of 1

CLIENT: GAF Chemicals Corporation - Linden, NJ — PROJECT NO. 6787

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Paul Keeney
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split spoon	NA	NA
DIAMETER	3"	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

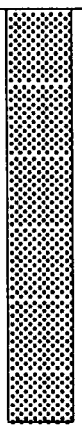
WELL DEVELOPMENT	
METHOD:	NA
DURATION:	NA
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV	8.4	NA	NA

DATE STARTED: 5/22/90

DATE COMPLETED: 5/22/90

INSPECTOR: L. Scheuing/S. Kawchak

BOREHOLE CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	DVA ppm
	0	S-1	SS	2-5-8-6	FILL Medium brown to multi-colored cmf SAND, some to trace f Gravel, little to and Silt to Clayey SILT, with cinders	Borehole backfilled with cement grout.	22
		S-2	SS	6-5-4-4			170
	5	S-3	SS	2-2-1-2			780
		S-4	SS	3-2-2-2			0.5
					@ 7.6' black-brown PEAT		
					End of Boring at 8 feet.		
	10						
	15						
	20						
	25						

ECKENFELDER INC. — TEST BORING LOG — NO. RB-7

PROJECT: Remedial Investigation | SHEET NO. 1 of 1
CLIENT: GAF Chemicals Corporation - Linden, NJ | PROJECT NO. 6787

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Paul Keeney
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

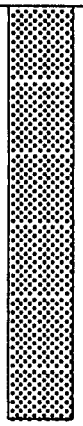
SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split Spoon	NA	NA
DIAMETER	3 inch	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

WELL DEVELOPMENT	
METHOD:	NA
DURATION:	NA
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV	9.0	NA	NA

DATE STARTED: 6/13/90
DATE COMPLETED: 6/13/90
INSPECTOR: S. Kawchak/S. Matthews

BOREHOLE CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
	0	S-1	SS	4-7-9-12	FILL Black and dark brown SAND and SILT, some Gravel	Borehole backfilled with cement grout.	0.25
		S-2	SS	13-16-12-12	@ 0.8' red and gray Silty CLAY @ 2' red Clayey SILT and SAND, some Gravel @ 3.2' grading to gray-brown to red SAND and SILT, little to some Gravel.		0.5
	5	S-3	SS	9-14-10-11			13
		S-4	SS	6-7-7-7			150
					End of Boring at 8 feet.		
	10						
	15						
	20						
	25						

ECKENFELDER INC.	TEST BORING LOG	NO. RB-8

PROJECT: Remedial Investigation — SHEET NO. 1 of 1

CLIENT: GAF Chemicals Corporation - Linden, NJ — PROJECT NO. 6787

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Paul Keeney
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split spoon	NA	NA
DIAMETER	3"	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

WELL DEVELOPMENT	
METHOD:	NA
DURATION:	NA
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV	8.0	NA	NA

DATE STARTED: 6/1/90

DATE COMPLETED: 6/1/90

INSPECTOR: L. Scheuing/S. Kawchak

BOREHOLE CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
	0	S-1	SS	4-3-2-2	FILL Dark brown Clayey SILT, little (+) cf Sand, trace f Gravel	Borehole backfilled with cement grout. Strong odor	0.2
		S-2	SS	3-2-1-1	@ 0.8' yellow-brown cf SAND, trace Clayey Silt		0
	5	S-3	SS	WOH/6"-1-WOH/6"-1	@ 4' slate gray to yellow-gray Silty CLAY, little f Sand, mixing with Peat		4
		S-4	SS	1-1-1-1			5.2
	10				End of Boring at 8 feet.		
	15						
	20						
	25						

ECKENFELDER INC.	TEST BORING LOG	NO. RB-9

PROJECT: Remedial Investigation — SHEET NO. 1 of 1

CLIENT: GAF Chemicals Corporation - Linden, NJ — PROJECT NO. 6787

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation, Edison, NJ
DRILLER:	Paul Keeney
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split spoon	NA	NA
DIAMETER	3"	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

WELL DEVELOPMENT	
METHOD:	NA
DURATION:	NA
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV	7.9	NA	NA

DATE STARTED: 5/24/90

DATE COMPLETED: 5/24/90

INSPECTOR: L. Scheuing/S. Kawchak

BOREHOLE CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
	0	S-1	SS	5-8-10-10	FILL Concrete with wood @ 0.2' black, brown, and red cmf SAND, some Silt and Clay, some mf Gravel	Borehole backfilled with cement grout.	18
		S-2	SS	5-4-3-3	@ 0.6' red and yellow CLAY & SILT, some cmf Sand, little f Gravel @ 2.2' black cinders and ash and brown-red cmf SAND		20
	5	S-3	SS	2-3-2-1	@ 4' brown cmf SAND and cmf GRAVEL, some Silt		22
		S-4	SS	1-2-1-1			NR
		S-5	SS	1-2-2-2			NR
	10	S-6	SS	2-4-7-9	@ 10' gray and yellow Clayey SILT and SAND		220
		S-7	SS	4-5-7-7	@ 12' red-brown well-sorted cmf SAND, little Silt & Clay		120
	15				End of Boring at 14 feet.		
	20						
	25						

ECKENFELDER INC.	TEST BORING LOG	NO. RB-10

PROJECT: Remedial Investigation	SHEET NO. 1 of 1
CLIENT: GAF Chemicals Corporation - Linden, NJ	PROJECT NO. 6787

DRILLING DATA	SAMPLING METHODS			
CONTRACTOR: Empire Soils Investigation - Edison, NJ		SAMPLER	TUBE	CORE
DRILLER: Paul Keeney	TYPE	Split spoon	NA	NA
EQUIPMENT: CME 55	DIAMETER	3"	NA	NA
METHOD: Hollow Stem Auger	OTHER	NA	NA	NA

WELL CONSTRUCTION			WELL DEVELOPMENT				
	RISER	INTAKE	METHOD: NA		GROUND	WELL	PROT CSG
MATERIAL	NA	NA	DURATION: NA	ELEV	7.4	NA	NA
DIAMETER	NA	NA	YIELD: NA	DATE STARTED: 6/1/90			
COUPLING	NA	NA	OTHER: NA	DATE COMPLETED: 6/1/90			
				INSPECTOR: L. Scheuing/S. Kawchak			

BOREHOLE CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
	0	S-1	SS	6-9-11-4	FILL Medium brown to black cf SAND and mf GRAVEL, some (-) to little (+) red-brown Clayey Silt	Borehole backfilled with cement grout.	0.4
		S-2	SS	7-4-3-3	@ 2' grading to black cinders and cmf SAND, no to little brown to yellow Silt & Clay		1000+
	5	S-3	SS	4-6-3-5	@ 4' medium brown Clayey SILT and mf GRAVEL @ 4.4' yellow cf SAND, some Clayey Silt, some (-) to little mf Gravel		1000+
		S-4	SS	5-4-7-3	@ 6' yellow-brown Clayey SILT and cmf SAND @ 6.5' grading to brown to black cmf SAND, some Clayey Silt, little (-) mf Gravel		1.4
		S-5	SS	4-7-9-11	@ 8' gray-brown to yellow cf SAND, some to and Clayey SILT, little (-) to trace well-rounded f Gravel		12
	10	S-6	SS	3-4-6-6			42
		S-7	SS	4-3-4-1			1000
	15				TIDAL MARSH DEPOSITS @ 13.7' gray Silty CLAY, little Peat End of Boring at 14 feet.		
	20						
	25						

ECKENFELDER INC.	TEST BORING LOG	NO. RB-11

PROJECT: Remedial Investigation — SHEET NO. 1 of 1

CLIENT: GAF Chemicals Corporation - Linden, NJ — PROJECT NO. 6787

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Paul Keeney
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split Spoon	NA	NA
DIAMETER	3 inch	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

WELL DEVELOPMENT	
METHOD:	NA
DURATION:	NA
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV	11.2	NA	NA

DATE STARTED: 6/13/90

DATE COMPLETED: 6/13/90

INSPECTOR: S. Kawchak/S. Matthews

BOREHOLE CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
	0	S-1	SS	10-12-13-19	FILL Gray-Brown SAND and to some GRAVEL, some to and SILT	Borehole backfilled with cement grout.	0.5
		S-2	SS	14-12-8-8			0.8
	5	S-3	SS	5-4-4-4	Red Brown Clay SILT and SAND, little Gravel.		3.8
		S-4	SS	4-3-2-2			0.2
					End of Boring at 8 feet.		
	10						
	15						
	20						
	25						

ECKENFELDER INC.	TEST BORING LOG	NO. RB-12

PROJECT: Remedial Investigation — SHEET NO. 1 of 1

CLIENT: GAF Chemicals Corporation - Linden, NJ — PROJECT NO. 6787

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Paul Keeney
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split Spoon	NA	NA
DIAMETER	3 inch	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

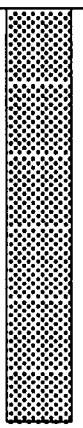
WELL DEVELOPMENT	
METHOD:	NA
DURATION:	NA
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV	9.5	NA	NA

DATE STARTED: 6/13/90

DATE COMPLETED: 6/13/90

INSPECTOR: Steven Kawchak

BOREHOLE CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
	0	S-1	SS	2-3-4-4	FILL	Borehole backfilled with cement grout.	7.7
		S-2	SS	3-5-6-7			NA
	5	S-3	SS	4-5-5-8	Brown-gray to red-brown Clayey SILT to SILT, some Sand		670
		S-4	SS	4-4-4-4			3.8
					End of Boring at 8 feet.		
	10						
	15						
	20						
	25						

ECKENFELDER INC. — TEST BORING LOG — NO. RB-13

PROJECT: Remedial Investigation
SHEET NO. 1 of 1
CLIENT: GAF Chemicals Corporation - Linden, NJ
PROJECT NO. 6787

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Paul Keeney
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

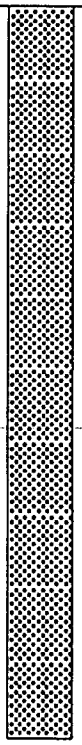
SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split Spoon	NA	NA
DIAMETER	3 inch	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

WELL DEVELOPMENT	
METHOD:	NA
DURATION:	NA
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV	10.6	NA	NA

DATE STARTED: 6/6/90
DATE COMPLETED: 6/6/90
INSPECTOR: S. Kawchak/ S. Matthews

BOREHOLE CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
	0	S-1	SS	10-9-11-12	FILL Brown and gray SAND and SILT, some Gravel, with wood	Borehole backfilled with cement grout.	8
		S-2	SS	4-10-13-9			NA
	5	S-3	SS	3-7-4-5	@ 4' black SAND and GRAVEL, some Silt, with cinders and ash		NA
		S-4	SS	2-3-4-4			NA
		S-5	SS	4-7-9-16	@ 8' brick-red Silty CLAY, some Sand, grading to black SAND and GRAVEL		9
	10	S-6	SS	2-2-4-5	@ 10' brick-red Silty CLAY, some Sand		5
					End of Boring at 12 feet.		
	15						
	20						
	25						

ECKENFELDER INC.	TEST BORING LOG	NO. RB-14

PROJECT: Remedial Investigation	SHEET NO. 1 of 1
CLIENT: GAF Chemicals Corporation - Linden, NJ	PROJECT NO. 6787

DRILLING DATA	
CONTRACTOR: Empire Soils Investigation - Edison, NJ	
DRILLER: Paul Keeney	
EQUIPMENT: CME 55	
METHOD: Hollow Stem Auger	

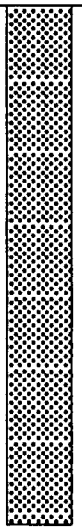
SAMPLING METHODS			
	SAMPLER	TUBE	CORE
TYPE	Split Spoon	NA	NA
DIAMETER	3 inch	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION		
	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

WELL DEVELOPMENT
METHOD: NA
DURATION: NA
YIELD: NA
OTHER: NA

	GROUND	WELL	PROT CSG
ELEV	9.2	NA	NA

DATE STARTED: 6/7/90	
DATE COMPLETED: 6/7/90	
INSPECTOR: S. Kawchak/ S. Matthews	

BOREHOLE CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
	0	S-1	SS	4-5-5-6	FILL Brown-black SAND and GRAVEL, some Silt grading to blue-gray Silty CLAY	Borehole backfilled with cement grout.	0.4
		S-2	SS	6-2-3-2	@ 2' black-brown SAND and GRAVEL, some Silt, with cinders and ash		1000+
	5	S-3	SS	2-2-1-2			NM
		S-4	SS	1-1-2-1			NM
		S-5	SS	1-3-5-27			NM
	10				End of Boring at 10 feet.		
	15						
	20						
	25						

ECKENFELDER INC.

TEST BORING LOG

NO. RB-15

PROJECT: Remedial Investigation | SHEET NO. 1 of 1

CLIENT: GAF Chemicals Corporation - Linden, NJ | PROJECT NO. 6787

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Paul Keeney
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

SAMPLING METHODS			
	SAMPLER	TUBE	CORE
TYPE	Split Spoon	NA	NA
DIAMETER	3 inch	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

WELL DEVELOPMENT	
METHOD:	NA
DURATION:	NA
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV	10.7	NA	NA

DATE STARTED: 6/13/90

DATE COMPLETED: 6/13/90

INSPECTOR: S. Kawchak/S. Matthews

BOREHOLE CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
	0	S-1	SS	10-13-17-18	FILL Brown SILT to brown-red Clayey SILT and to some (-) SAND, some to little (-) Gravel, oily appearance	Borehole backfilled with cement grout.	1
		S-2	SS	7-5-5-6			80
	5	S-3	SS	7-7-12-5	@ 4.8 black cinders @ 5.3' red-brown Silty CLAY to SILT, no to some(-) Sand, no to little Gravel		350
		S-4	SS	11-12-13-10	@ 7.3' grading to black SAND and SILT, some Gravel, with cinders		17
					End of Boring at 8 feet.		
	10						
	15						
	20						
	25						

ECKENFELDER INC.

TEST BORING LOG

NO. RB-16

PROJECT: Remedial Investigation

SHEET NO. 1 of 1

CLIENT: GAF Chemicals Corporation - Linden, NJ

PROJECT NO. 6787

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edision, NJ
DRILLER:	Paul Keeney
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split spoon	NA	NA
DIAMETER	3"	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

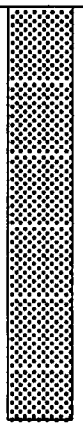
WELL DEVELOPMENT	
METHOD:	NA
DURATION:	NA
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV	5.7	NA	NA

DATE STARTED: 6/1/90

DATE COMPLETED: 6/1/90

INSPECTOR: L. Scheuing/S. Kawchak

BOREHOLE CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
	0	S-1	SS	4-7-7-9	FILL Brown to black Clayey SILT, some cf Sand, trace f Gravel	Borehole backfilled with cement grout.	20
		S-2	SS	7-7-9-10	@ 0.5' Black cinders and cf SAND, some to little f Gravel, trace to little Clayey Silt @ 1.1' yellow-gray Clayey Silt, little mf Sand		46
	5	S-3	SS	7-4-2-2	@ 4.8' Black cinders and cf SAND		18
		S-4	SS	2-1-2-1			2
					End of Boring at 8 feet.		
	10						
	15						
	20						
	25						

ECKENFELDER INC.	TEST BORING LOG	NO. RB-17

PROJECT: Remedial Investigation — SHEET NO. 1 of 1

CLIENT: GAF Chemicals Corporation - Linden, NJ — PROJECT NO. 6787

DRILLING DATA	
CONTRACTOR:	Empire Soils Investigation - Edison, NJ
DRILLER:	Paul Keeney
EQUIPMENT:	CME 55
METHOD:	Hollow Stem Auger

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split spoon	NA	NA
DIAMETER	3"	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

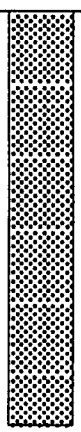
WELL DEVELOPMENT	
METHOD:	NA
DURATION:	NA
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV	6.4	NA	NA

DATE STARTED: 5/31/90

DATE COMPLETED: 5/31/90

INSPECTOR: L. Scheuing/S. Kawchak

BOREHOLE CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	OVA ppm
	0	S-1	SS	4-2-6-1	FILL Brown to black cf SAND, trace to little Clayey Silt, no to some mf Gravel, with occasional zones of cinders and ash	Borehole backfilled with cement grout.	0.2
		S-2	SS	3-1-1-2			NA
	5	S-3	SS	2-3-2-1			36
		S-4	SS	2-4-3-5			NA
					End of Boring at 8 feet.		
	10						
	15						
	20						
	25						

APPENDIX C-2

MSSS LOGS

ECKENFELDER INC. — TEST BORING LOG — NO. SB-1

PROJECT: MSSS Oversight	SHEET NO. 1 of 1
CLIENT: GAF Chemicals Corporation	PROJECT NO. 6289.01

DRILLING DATA	
CONTRACTOR:	Converse Construction, Inc.
DRILLER:	Victor Rotunda
EQUIPMENT:	CME 75
METHOD:	Mud Rotary

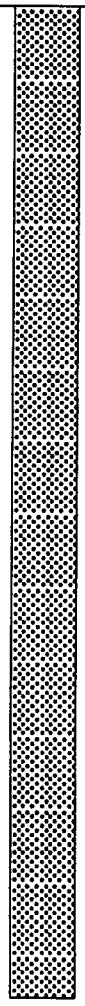
SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split Spoon Sampler	NA	NA
DIAMETER	1 inch	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

WELL DEVELOPMENT	
METHOD:	NA
DURATION:	NA
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV			

DATE STARTED: 06/20/90
DATE COMPLETED: 06/20/90
INSPECTOR: L. E. Scheuing

WELL CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	REC. feet
	0					Borehole backfilled with bentonite slurry.	
	5						
	10				Tidal Marsh Deposits		
		S-1	SS	1-2-1-1	Medium brown well-sorted cf SAND, some Silt		0.5'
		S-2	SS	4-8-5-5	@ 12' grey to red-brown CLAY & SILT, little f Sand		0.7'
					Glacial Till		
	15	S-3	SS	3-7-2-1	@ 12.5' red-brown cf SAND, some Clayey Silt @ 14' grading to red-brown Clayey SILT to Silty CLAY, and to no mf GRAVEL, little to trace mf Sand		0.4'
		S-4	SS	1-2-1-3			1.0'
		S-5	SS	3-3-4-6	@ 18' red-brown cf SAND and mf GRAVEL @ 18.3' grading to red-brown CLAY & SILT, some (+) to little (+) mf Sand		0.7'
	20	S-6	SS	7-7-20-37			1.0'
		S-7	SS	28-100/5"	Residual Soil	Slight solvent odor	0.8'
					@ 22' red-brown CLAY & SILT grading to red-brown weathered SHALE		
	25				Passaic Formation		
					@ 22.5' red-brown SHALE		
					End of Boring @ 22.7'		
	30						

ECKENFELDER INC. — TEST BORING LOG — NO. SB-2

PROJECT: MSSS Oversight	SHEET NO. 1 of 1
CLIENT: GAF Chemicals Corporation	PROJECT NO. 6289.01

DRILLING DATA	
CONTRACTOR:	Converse Construction, Inc.
DRILLER:	Victor Rotunda
EQUIPMENT:	CME 75
METHOD:	Mud Rotary

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split Spoon Sampler	NA	NA
DIAMETER	1 inch	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

WELL DEVELOPMENT	
METHOD:	NA
DURATION:	NA
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV			

DATE STARTED:	06/20/90
DATE COMPLETED:	06/20/90
INSPECTOR:	L. E. Scheuing

WELL CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	REC. feet
	0					Borehole backfilled with bentonite slurry.	
	5						
					Tidal Marsh Deposits		
		S-1	SS	1-1-1/12"	Black PEAT, some grey Silty Clay		1.8'
					@ 7' grey to grey-green to light brown mf SAND, some to little (+) Clayey Silt		
		S-2	SS	3-1-1/12"			1.7'
	10						
		S-3	SS	WOH/6"-1-1/12"	@ 11' grading to grey-green Clayey SILT to SILT & CLAY, some f Sand		0.5'
		S-4	SS	1-4-6-9	Glacial Till		1.6'
					@ 12.5' red-brown to green-grey Clayey Silt to CLAY & SILT, trace to some mf Sand		
	15	S-5	SS	1-3-3-3			1.5'
		S-6	SS	2-3-3-3			1.6'
		S-7	SS	2-3-5-8			1.8'
	20						
		S-8	SS	4-4-7-7	Residual Soil @ 20' red-brown SHALE and Clayey SILT, little f Sand		0.4'
		S-9	SS	16-37-100/6"			1.0'
					Passaic Formation		
					@ 22.8' red-brown SHALE		
	25				End of Boring @ 23'		
	30						

ECKENFELDER INC. — TEST BORING LOG — NO. SB-3

PROJECT: MSSS Oversight	SHEET NO. 1 of 1
CLIENT: GAF Chemicals Corporation	PROJECT NO. 6289.01

DRILLING DATA	
CONTRACTOR:	Converse Construction, Inc.
DRILLER:	Victor Rotunda
EQUIPMENT:	CME 75
METHOD:	Mud Rotary

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split Spoon Sampler	NA	NA
DIAMETER	1 inch	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

WELL DEVELOPMENT	
METHOD:	NA
DURATION:	NA
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV			

DATE STARTED:	06/20/90
DATE COMPLETED:	06/20/90
INSPECTOR:	L. E. Scheuing

WELL CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	REC. feet
	0					Borehole backfilled with bentonite slurry.	
	5	S-1	SS	6-3-1-3	Fill Black oil-stained ash, cinders, some mf Gravel	Strong oily odor	0.4'
		S-2	SS	2-1/12"-1	Tidal Marsh Deposits @ 6' brown to black PEAT	Strong H2S odor	2.0'
		S-3	SS	WOH/24"	@ 9' brown to black PEAT, some Clay & Silt @ 9.3' grading to grey-green mf SAND, some Clayey Silt		2.0'
	10	S-4	SS	WOH/6"-1-1/12"	@ 10' brown-black PEAT, some Clay & Silt @ 11.1' grading to grey-green mf SAND, some Clay & Silt to Silt & Clay		2.0'
		S-5	SS	4-8-7-8	@ 13.2' grading to grey-green Silty CLAY, trace mf Sand		1.7'
	15	S-6	SS	3-5-6-7	Glacial Till @ 14.1' red-brown CLAY & SILT, some well-rounded f Gravel, little to trace cf Sand,		2.0'
		S-7	SS	25-15-18-21	@ 16.2' medium brown to black cf SAND, some mf Gravel composed of quartz and shale, trace Silt		1.6'
		S-8	SS	8-12-12-8	@ 18' yellow and white cf GRAVEL composed mainly of quartz, some Silt & Clay, trace f Sand		1.0'
	20	S-9	SS	7-7-8-13	@ 20.2' red-brown SILT & CLAY and weathered SHALE		1.6'
		S-10	SS	17-27-28-37	Residual Soil @ 22.5' red-brown weathered SHALE with green alteration		0.8'
	25	S-11	SS	18-21-58-100/5"	Passaic Formation @ 25' red-brown SHALE End of Boring @ 25.2'		1.2'
	30						

ECKENFELDER INC. — TEST BORING LOG — NO. SB-4

PROJECT: MSSS Oversight
CLIENT: GAF Chemicals Corporation
SHEET NO. 1 of 1
PROJECT NO. 6289.01

DRILLING DATA	
CONTRACTOR:	Converse Construction, Inc.
DRILLER:	Victor Rotunda
EQUIPMENT:	CME 75
METHOD:	Mud Rotary

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split Spoon Sampler	NA	NA
DIAMETER	1 inch	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

WELL DEVELOPMENT	
METHOD:	NA
DURATION:	NA
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV			

DATE STARTED: 06/20/90
DATE COMPLETED: 06/21/90
INSPECTOR: L. E. Scheuing

WELL CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	REC. feet
	0					Borehole backfilled with bentonite slurry.	
	5						
					Tidal Marsh Deposits		
		S-1	SS	WOH/24"	Brown to black PEAT		2.0'
	10	S-2	SS	WOH/6"-1-1-2	@ 8.5' grey to brown-red CLAY & SILT to SILT & CLAY, little to no mf Sand, no to some mf Gravel		1.0'
		S-3	SS	3-3-3-4			0.5'
	15	S-4	SS	3-6-16-20	@ 15' red-brown cf SAND, some cf Gravel, little to trace Silt to Clayey Silt		1.6'
		S-5	SS	11-14-11-11			1.8'
		S-6	SS	8-11-12-9	@ 18' rounded to sub-angular cf GRAVEL composed mainly of quartz particles, little mf Sand, trace Clayey Silt		0.6'
	20	S-7	SS	7-9-16-20	@ 20' red-brown SILT & CLAY and SHALE fragments grading to weathered SHALE, little Silt & Clay		1.0'
		S-8	SS	25-58-100/5"			1.0'
					Passaic Formation		
	25				@ 22.6' red-brown SHALE with green alterations		
					End of Boring @ 23'		
	30						

ECKENFELDER INC.	TEST BORING LOG	NO. SB-5

PROJECT: MSSS Oversight — SHEET NO. 1 of 2

CLIENT: GAF Chemicals Corporation — PROJECT NO. 6289.01

DRILLING DATA	
CONTRACTOR:	Converse Construction, Inc.
DRILLER:	Victor Rotunda
EQUIPMENT:	CME 75
METHOD:	Mud Rotary

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split Spoon Sampler	NA	NA
DIAMETER	1 inch	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

WELL DEVELOPMENT	
METHOD:	NA
DURATION:	NA
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV			

DATE STARTED: 06/21/90

DATE COMPLETED: 06/21/90

INSPECTOR: L. E. Scheuing

WELL CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	REC. feet
	0					Borehole backfilled with bentonite slurry.	
	5	S-1	SS	1-1-1-1	Fill Grey to green-yellow CLAY & SILT, layered with trace to little mf Sand		2.0'
		S-2	SS	1-1-1-2			2.0'
		S-3	SS	1-2-2-2			2.0'
	10	S-4	SS	WOH/24"	Tidal Marsh Deposits @ 9.8' brown PEAT		1.2'
		S-5	SS	WOH/12"-1-1			1.3'
	15	S-6	SS	WOH/24"	@ 15' slate-grey Clayey SILT to Silty CLAY, trace to and cf SAND		1.1'
		S-7	SS	WOH/12"-1-8			1.0'
		S-8	SS	6-7-9-10	@ 18.5' grading to slate grey mf SAND, some to and Clayey Silt to SILT & CLAY		2.0'
	20	S-9	SS	3-4-5-5			2.0'
		S-10	SS	3-5-5-6	@ 22' grey to red-grey Clayey SILT, some f Sand		1.6'
	25	S-11	SS	2-3-3-3	Glacial Till @ 24' red-brown Silty CLAY to SILT & CLAY, little to some cm Sand, little to some (+) rounded to sub-angular f Gravel, no to little Shale fragments		1.0'
		S-12	SS	2-3-4-4			1.3'
		S-13	SS	3-8-14-15			1.3'
	30						

ECKENFELDER INC.

TEST BORING LOG

NO. SB-5

PROJECT: MSSS Oversight

CLIENT: GAF Chemicals Corporation

SHEET NO. 2 of 2

PROJECT NO. 6289.01

WELL CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	REC. feet
	30	S-14	SS	6-12-11-12	@ 30' grading to red-brown weathered SHALE, little to and Silty CLAY		1.0'
		S-15	SS	9-9-15-34			0.5'
	35	S-16	SS	29-30-22-31			0.5'
		S-17	SS	21-21-48-41	@ 36' red-brown cf SAND, some rounded f Gravel, trace Clayey Silt		2.0'
		S-18	SS	22-21-47-90	Residual Soil @ 37.8' grading to red-brown weathered SHALE		2.0'
	40				Passaic Formation ? @ 39.5' red-brown weathered SHALE (Killiam called bedrock @ 39.5' and ceased drilling because of high blow counts. However, at adjacent boring bedrock was not encountered until 48.6')		
					End of Boring @ 40'		
	45						
	50						
	55						
	60						
	65						

ECKENFELDER INC. — TEST BORING LOG — NO. SB-6

PROJECT: MSSS Oversight
CLIENT: GAF Chemicals Corporation
SHEET NO. 1 of 2
PROJECT NO. 6289.01

DRILLING DATA	
CONTRACTOR:	Converse Construction, Inc.
DRILLER:	Victor Rotunda
EQUIPMENT:	CME 75
METHOD:	Mud Rotary

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split Spoon Sampler	NA	NA
DIAMETER	1 inch	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

WELL DEVELOPMENT	
METHOD:	NA
DURATION:	NA
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV			

DATE STARTED: 06/21/90
DATE COMPLETED: 06/21/90
INSPECTOR: L. E. Scheuing

WELL CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	REC. feet
	0					Borehole backfilled with bentonite slurry.	
	5						
	10						
	15				Tidal Marsh Deposits	Strong H2S odor	
		S-1	SS	NOH/24"	Black to brown PEAT		1.2'
					@ 15.8' slate grey f SAND, some Clay & Silt		
	20				@ 20' slate grey SILT & CLAY, some f Sand		
		S-2	SS	4-5-4-5	@ 21.2' slate grey f SAND, little Clayey Silt		1.7'
	25				Glacial Till		
		S-3	SS	1-2-5-5	@ 25' red-brown CLAY & SILT, no to and rounded cf GRAVEL, no to little (+) c Sand		1.3'
		S-4	SS	4-5-6-15			1.3'
	30						

ECKENFELDER INC. TEST BORING LOG

NO. SB-6

PROJECT: MSSS Oversight

SHEET NO. 2 of 2

CLIENT: GAF Chemicals Corporation

PROJECT NO. 6289.01

WELL CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	REC. feet
	30	S-5	SS	4-5-7-10			1.2'
		S-6	SS	8-10-17-22			1.3'
	35	S-7	SS	11-13-14-19	@ 34' red-brown weathered SHALE with slight green alteration, some Clayey Silt @ 36' red-brown Clayey SILT, some cf Sand		1.3'
		S-8	SS	16-28-32-33	Residual Soil		0.9'
		S-9	SS	12-12-20-27	@ 36.5' red-brown weathered SHALE with slight green alteration, and Clayey SILT		1.2'
	40	S-10	SS	10-19-23-31	@ 40' red-brown f GRAVEL and c SAND, little Clayey Silt @ 40.5' grading to red-brown weathered SHALE, trace Clayey Silt		0.8'
		S-11	SS	31-24-29-29	@ 42' red-brown f GRAVEL and c SAND, little Clayey Silt @ 42.6' grading to red-brown weathered SHALE with slight green alteration		0.9'
	45	S-12	SS	29-45-79-34			1.2'
		S-13	SS	16-19-13-33			0.5'
		S-14	SS	26-38-72-50/1"			0.7'
	50				Passaic Formation @ 48.7' red-brown SHALE End of boring @ 48.8'		
	55						
	60						
	65						

ECKENFELDER INC.

TEST BORING LOG

NO. SB-7

PROJECT: MSSS Oversight	SHEET NO. 1 of 1
CLIENT: GAF Chemicals Corporation	PROJECT NO. 6289.01

DRILLING DATA	
CONTRACTOR: Converse Construction, Inc.	
DRILLER: Victor Rotunda	
EQUIPMENT: CME 75	
METHOD: Mud Rotary	

SAMPLING METHODS			
	SAMPLER	TUBE	CORE
TYPE	Split Spoon Sampler	NA	NA
DIAMETER	1 inch	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION		
	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

WELL DEVELOPMENT	
METHOD: NA	
DURATION: NA	
YIELD: NA	
OTHER: NA	

	GROUND	WELL	PROT CSG
ELEV			

DATE STARTED: 06/22/90

DATE COMPLETED: 06/22/90

INSPECTOR: L. E. Scheuing

WELL CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	SAMPLE BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	REC. feet
	0					Borehole backfilled with bentonite slurry.	
					Fill		
	5	S-1	SS	4-4-6-6	Grey SILT & CLAY, trace f Sand		1.5'
					@ 4.8' interfingers with light brown f SAND, little Clayey Silt		
		S-2	SS	5-6-6-6	@ 6' medium brown f SAND and Clayey SILT		1.3'
					@ 8' light brown to grey Clayey SILT, some f Sand grading to black cinders with ash		
		S-3	SS	1-1-1/12"	Tidal Marsh Deposits		1.5'
	10						
		S-4	SS	WOH/24"	@ 8.7' dark brown PEAT, no to and f SAND, no to some Clayey Silt		0.9'
		S-5	SS	WOH/6"-1-1-2			2.0'
	15	S-6	SS	1-1-1/12"	@ 14.5' slate grey f SAND and Clayey SILT		2.0'
					@ 15' grading to slate grey CLAY & SILT, some f Sand		
		S-7	SS	WOH/12'-1-5			2.0'
					@ 17' red-brown Clayey SILT to Silty CLAY, trace to some f Sand, no to trace f Gravel	Faint solvent odor	
		S-8	SS	1-3-5-5			1.5'
	20				@ 20' medium brown mf SAND, some Clayey Silt, trace f Gravel	Strong solvent odor through remaining section	
		S-9	SS	3-6-6-6	@ 21' red-brown Clayey SILT to Silty CLAY, no to some mf Gravel, no to little c Sand, trace to no angular Shale fragments, with yellow crystalline substance @ 22'	5 ppm in borehole while drilling	1.5'
		S-10	SS	5-5-7-7			0.9'
	25	S-11	SS	2-3-5-9			0.8'
		S-12	SS	7-8-8-8	@ 26' medium brown mf SAND, some Clayey Silt		0.9'
					End of Boring @ 26.9'		
	30						

ECKENFELDER INC.	TEST BORING LOG	NO. SB-8

PROJECT: MSSS Oversight	SHEET NO. 1 of 1
CLIENT: GAF Chemicals Corporation	PROJECT NO. 6289.01

DRILLING DATA	
CONTRACTOR: Converse Construction, Inc.	
DRILLER: Victor Rotunda	
EQUIPMENT: CME 75	
METHOD: Mud Rotary	

SAMPLING METHODS			
	SAMPLER	TUBE	CORE
TYPE	Split Spoon Sampler	NA	NA
DIAMETER	1 inch	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION		
	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

WELL DEVELOPMENT	
METHOD: NA	
DURATION: NA	
YIELD: NA	
OTHER: NA	

	GROUND	WELL	PROT CSG
ELEV			

DATE STARTED: 06/28/90	
DATE COMPLETED: 06/28/90	
INSPECTOR: L. E. Scheuing	

WELL CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	REC. feet
	0					Borehole backfilled with bentonite slurry.	
	5						
					Tidal Marsh Deposits		
	10	S-1	SS	WOH/24"	Dark brown PEAT, no to little Silt & Clay		1.7'
		S-2	SS	WOH/24"			1.3'
		S-3	SS	WOH/24"			1.7'
	15	S-4	SS	WOH/6"-1-2-2	@ 14.5' grading to grey f SAND and Clayey SILT		2.0'
		S-5	SS	3-4-6-7	@ 16' blue-grey Clayey SILT, some to trace f Sand		1.8'
		S-6	SS	4-8-9-11	@ 18.5' grading to grey f SAND, some Clayey Silt	Odor of chlorobenzene	1.7'
	20				Glacial Till		
		S-7	SS	3-3-6-13	@ 19.5' red-brown cf SAND, some Clayey Silt, trace to somef Gravel		1.7'
		S-8	SS	7-7-7-8	@ 22' red-brown Clayey SILT, little f Sand,	25 ppm in borehole while drilling	1.7'
					End of Boring @ 23.7'		
	25						
	30						

ECKENFELDER INC.	TEST BORING LOG	NO. SB-9

PROJECT: MSSS Oversight — SHEET NO. 1 of 2

CLIENT: GAF Chemicals Corporation — PROJECT NO. 6289.01

DRILLING DATA	
CONTRACTOR:	Converse Construction, Inc.
DRILLER:	Victor Rotunda
EQUIPMENT:	CME 75
METHOD:	Mud Rotary

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split Spoon Sampler	NA	NA
DIAMETER	1 inch	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

WELL DEVELOPMENT	
METHOD:	NA
DURATION:	NA
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV			

DATE STARTED: 07/06/90

DATE COMPLETED: 06/09/90

INSPECTOR: L. E. Scheuing

WELL CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	REC. feet
	0					Borehole backfilled with bentonite slurry.	
	5	S-1	SS	6-6-8-4	Fill Black ash with cinders, no to and cm GRAVEL		1.6'
		S-2	SS	13-9-9-9	@ 6.1' medium brown cf SAND, some (-) Clayey Silt		1.5'
		S-3	SS	2-1-1-1	Tidal Marsh Deposits		1.5'
	10	S-4	SS	WOH/6"-1-1-1	@ 8.5' black to brown PEAT	Strong H2S odor	1.5'
		S-5	SS	WOH/6"-2-3-3			1.5'
	15	S-6	SS	3-4-3-3	@ 15' grading to grey Silty CLAY to CLAY & SILT, some (-) to little Peat		2.0'
		S-7	SS	4-4-4-8	@ 17' grading to grey to blue-grey f SAND, and to no Clayey SILT, no to some (-) Peat, no to little f Gravel		2.0'
		S-8	SS	14-16-19-19			2.0'
	20	S-9	SS	5-6-6-6	@ 21.1' grading to light grey Clayey SILT, little f Sand		1.6'
		S-10	SS	6-6-21-23	Glacial Till @ 22' c GRAVEL composed of white quartz, and red-brown weathered SHALE		0.4'
	25	S-11	SS	7-11-12-12	@ 24' red-brown Clayey SILT to CLAY & SILT, some (+) to trace rounded to sub-rounded mf Gravel, little to no weathered Shale, no to some cm Sand		0.9'
		S-12	SS	7-5-8-9			1.5'
		S-13	SS	5-6-8-10			1.4'
	30						

ECKENFELDER INC. TEST BORING LOG NO. SB-9

PROJECT: MSSS Oversight
SHEET NO. 2 of 2
CLIENT: GAF Chemicals Corporation
PROJECT NO. 6289.01

WELL CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	REC. feet
	30	S-14	SS	6-9-11-12			1.5'
		S-15	SS	6-6-7-7			2.0'
	35	S-16	SS	8-13-15-14			1.3'
		S-17	SS	14-18-16-18			1.0'
		S-18	SS	7-7-9-22			0.9'
	40	S-19	SS	11-12-18-30	@ 40.5' red-brown weathered SHALE, no to some Clayey Silt, no to little f Gravel		0.6'
		S-20	SS	22-23-18-27			1.0'
	45	S-21	SS	7-8-9-39			1.3'
		S-22	SS	52-54-100/4"	Residual Soil		0.6'
					@ 46.3' red-brown weathered SHALE, trace Clayey Silt		
					Passaic Formation		
	50				@ 46.4' red-brown SHALE		
					End of Boring @ 46.5'		
	55						
	60						
	65						

ECKENFELDER INC. — TEST BORING LOG — NO. SB-10

PROJECT: MSSS Oversight	SHEET NO. 1 of 2
CLIENT: GAF Chemicals Corporation	PROJECT NO. 6289.01

DRILLING DATA	
CONTRACTOR:	Converse Construction, Inc.
DRILLER:	Victor Rotunda
EQUIPMENT:	CME 75
METHOD:	Mud Rotary

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split Spoon Sampler	NA	NA
DIAMETER	1 inch	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

WELL DEVELOPMENT	
METHOD:	NA
DURATION:	NA
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV			

DATE STARTED:	07/06/90
DATE COMPLETED:	06/09/90
INSPECTOR:	L. E. Scheuing

WELL CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	REC. feet
	0					Borehole backfilled with bentonite slurry.	
	5	S-1	SS	4-3-3-5	Fill Black ash with cinders @ 5' brown cf SAND, little to trace Clayey Silt, no to little f Gravel, occasional black cinders		2.0'
		S-2	SS	5-5-8-8			0.8'
		S-3	SS	5-5-6-1			1.5'
	10	S-4	SS	1-2-3-3			2.0'
		S-5	SS	1-1-2-3	Tidal Marsh Deposits @ 11.5' black to brown PEAT		1.3'
	15	S-6	SS	WOH/6"-2-2-2			1.3'
		S-7	SS	2-2-2-2			1.0'
		S-8	SS	2-3-3-5	@ 18.3 grading to blue-grey f SAND, some (+) Silt & Clay to Clayey Silt		1.7'
	20	S-9	SS	2-5-9-9			2.0'
		S-10	SS	5-7-7-6	Glacial Till @ 22' red-brown SILT & CLAY to CLAY & SILT, some to no mf Gravel, little to no c Sand, no to little weathered Shale		1.0'
	25	S-11	SS	9-4-6-6			1.0'
		S-12	SS	5-7-6-8			1.0'
		S-13	SS	13-13-11-14			1.8'
	30						

ECKENFELDER INC.

TEST BORING LOG

NO. SB-10

PROJECT: MSSS Oversight

SHEET NO. 2 of 2

CLIENT: GAF Chemicals Corporation

PROJECT NO. 6289.01

WELL CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	REC. feet
	30	S-14	SS	6-6-8-6			1.7'
		S-15	SS	6-8-8-7			1.5'
	35	S-16	SS	8-9-21-25			1.3'
		S-17	SS	20-22-24-27			NR
		S-18	SS	8-9-9-10			0.8'
	40	S-19	SS	8-7-10-10			1.7'
		S-20	SS	18-36-27-37	@ 42' medium brown cf SAND, little to no Clayey Silt, trace to little mf Gravel @ 43.2' red-brown weathered SHALE, little Clayey Silt End of Boring @ 44'		2.0'
	45						
	50						
	55						
	60						
	65						

ECKENFELDER INC.

TEST BORING LOG

NO. CB-1

PROJECT: MSSS Oversight	SHEET NO. 1 of 1
CLIENT: GAF Chemicals Corporation	PROJECT NO. 6289.01

DRILLING DATA	
CONTRACTOR:	Converse Construction, Inc.
DRILLER:	Victor Rotunda
EQUIPMENT:	CME 75
METHOD:	Mud Rotary

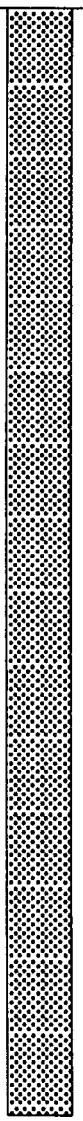
SAMPLING METHODS			
	SAMPLER	TUBE	CORE
TYPE	Split Spoon Sampler	NA	NA
DIAMETER	1 inch	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION		
	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

WELL DEVELOPMENT	
METHOD:	NA
DURATION:	NA
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV			

DATE STARTED:	06/22/90
DATE COMPLETED:	06/25/90
INSPECTOR:	L. E. Scheuing

WELL CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	REC. feet
	0	S-1	SS	3-4-7-5	Fill Medium brown cf SAND, some f Gravel, little Clayey Silt @ 0.6' black cinders, ash, some cf Gravel, with wood	Borehole backfilled with bentonite slurry.	0.7'
		S-2	SS	10-7-6-5			0.5'
	5	S-3	SS	3-3-2-1			1.0'
		S-4	SS	WOH/12"-1-2	Tidal Marsh Deposits		0.2'
		S-5	SS	WOR/6"-WOH/18"	@ 7' brown PEAT @ 8' grading to grey-black SILT & CLAY and PEAT		0.6'
	10	S-6	SS	WOR/6"-WOH/12"-2	@ 8.6' dark brown to black PEAT		1.6'
		S-7	SS	WOH/12"-1/12"			1.8'
	15	S-8	SS	WOR/24"			1.7'
		S-9	SS	WOR/18"-WOH/6"	@ 17' slate grey Clayey SILT to SILT & CLAY, some to trace f Sand		1.4'
		S-10	SS	WOR/6"-WOH/6"-3-7			1.8'
	20	S-11	SS	2-2-6-7	@ 20.6' grading to brown-grey well-rounded and well-sorted f to c SAND, little to no Clayey Silt		1.5'
		S-12	SS	3-5-4-4			0.3'
	25	S-13	SS	2-2-4-6	Glacial Till @ 24' red-brown CLAY & SILT, little f Gravel, little friable Shale fragments		1.3'
					End of Boring @ 25.3'		
	30						

ECKENFELDER INC. — TEST BORING LOG — NO. CB-2

PROJECT: MSSS Oversight	SHEET NO. 1 of 1
CLIENT: GAF Chemicals Corporation	PROJECT NO. 6289.01

DRILLING DATA	
CONTRACTOR:	Converse Construction, Inc.
DRILLER:	Victor Rotunda
EQUIPMENT:	CME 75
METHOD:	Mud Rotary

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split Spoon Sampler	NA	NA
DIAMETER	1 inch	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

WELL DEVELOPMENT	
METHOD:	NA
DURATION:	NA
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV			

DATE STARTED: 06/25/90
DATE COMPLETED: 06/25/90
INSPECTOR: L. E. Scheuing

WELL CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	REC. feet
	0					Borehole backfilled with bentonite slurry.	
	5	S-1	SS	5-4-1-1	Fill Black wood fragments, ash, cinders, concrete, with construction debris		0.8'
		S-2	SS	WOH/24"	Tidal Marsh Deposits @ 5' brown-grey to black PEAT, no to little cm Gravel		NR
		S-3	SS	WOH/12"-1-2			NR
	10	S-4	SS	WOR/24"			0.8'
		S-5	SS	WOH/24"			0.3'
						Strong H2S odor	
	15	S-6	SS	WOR/24"			0.6'
		S-7	SS	WOR/24"			1.4'
		S-8	SS	WOR/6"-WOH/12"-4	@ 17.5' grey SILT & CLAY, little Peat, no to trace f Sand @ 19' grading to grey-red mf SAND and to little Clayey SILT		1.7'
	20	S-9	SS	3-5-7-9			1.5'
		S-10	SS	2-3-3-5	Glacial Till @ 21' medium brown cf SAND, little (+) cf Gravel, trace Clayey Silt @ 22' grading to red-brown CLAY & SILT to Silty CLAY, some to little f Gravel		0.9'
	25				End of Boring @ 22.9'		
	30						

ECKENFELDER INC.

TEST BORING LOG

NO. CB-3

PROJECT: MSSS Oversight	SHEET NO. 1 of 1
CLIENT: GAF Chemicals Corporation	PROJECT NO. 6289.01

DRILLING DATA	
CONTRACTOR: Converse Construction, Inc.	
DRILLER: Victor Rotunda	
EQUIPMENT: CME 75	
METHOD: Mud Rotary	

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split Spoon Sampler	NA	NA
DIAMETER	1 inch	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

WELL DEVELOPMENT	
METHOD: NA	
DURATION: NA	
YIELD: NA	
OTHER: NA	

	GROUND	WELL	PROT CSG
ELEV			

DATE STARTED: 06/25/90

DATE COMPLETED: 06/25/90

INSPECTOR: L. E. Scheuing

WELL CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	REC. feet
	0					Borehole backfilled with bentonite slurry.	
	5	S-1	SS	5-7-10-32	Fill Red-brown cf GRAVEL, black-stained construction debris, with wood (pine)	Slight oily odor	0.3'
		S-2	SS	41-34-22-19			0.8'
		S-3	SS	5-6-9-7	Tidal Marsh Deposits @ 8' medium to grey-brown PEAT, some m Gravel @ 10', with shell fragments @ 14'	H2S odor	1.2'
	10	S-4	SS	WOR/24"			NR
		S-5	SS	WOR/24"			0.4'
	15	S-6	SS	WOR/24"			0.6'
		S-7	SS	WOR/18"-WOH/6"	@ 16.5' slate grey Silty CLAY to Clayey SILT, no to trace f Sand		0.8'
		S-8	SS	3-5-5-6	@ 19' grading to grey-brown f SAND, some Clayey Silt		2.0'
	20	S-9	SS	2-3-5-9	@ 20' grading to a grey-brown SILT & CLAY to Clayey SILT, little to some f Sand, no to trace Peat		1.5'
		S-10	SS	7-6-3-2	Glacial Till		1.0'
	25	S-11	SS	4-4-7-8	@ 23' red-brown CLAY & SILT, no to little f Gravel, trace cf Sand		1.3'
					End of Boring @ 25.3'		
	30						

ECKENFELDER INC. — TEST BORING LOG — NO. CB-4

PROJECT: MSSS Oversight	SHEET NO. 1 of 1
CLIENT: GAF Chemicals Corporation	PROJECT NO. 6289.01

DRILLING DATA	
CONTRACTOR: Converse Construction, Inc.	
DRILLER: Victor Rotunda	
EQUIPMENT: CME 75	
METHOD: Mud Rotary	

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split Spoon Sampler	NA	NA
DIAMETER	1 inch	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

WELL DEVELOPMENT	
METHOD: NA	
DURATION: NA	
YIELD: NA	
OTHER: NA	

	GROUND	WELL	PROT CSG
ELEV			

DATE STARTED: 06/26/90
DATE COMPLETED: 06/26/90
INSPECTOR: L. E. Scheuing

WELL CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	REC. feet
	0					Borehole backfilled with bentonite slurry.	
					Fill		
	5	S-1	SS		Black-grey wood and m GRAVEL		0.3'
		S-2	SS				NS
					Tidal Marsh Deposits		
		S-3	SS	WOR/24"			NR
	10				@ 10' grey to brown PEAT and to some Clayey SILT to Silty Clay		
		S-4	SS	WOR/18"-1			0.3'
		S-5	SS	WOR/12"-1/12"			1.2'
	15	S-6	SS	WOH/6"-1-1-1			0.7'
		S-7	SS	WOH/18"-1			0.4'
		S-8	SS	3-4-6-8	@ 18' dark grey f SAND and to some Clayey SILT, trace to no c Gravel, occasional Peat		1.5'
	20	S-9	SS	3-5-7-7			2.0'
		S-10	SS	6-3-5-5			1.5'
					Glacial Till		
		S-11	SS	5-6-8-8	@ 23' red-brown SILT & CLAY to CLAY & SILT, some cf Gravel		0.8'
	25				End of Boring @ 24.8		
	30						

ECKENFELDER INC.

TEST BORING LOG

NO. CB-5

PROJECT: MSSS Oversight | SHEET NO. 1 of 2

CLIENT: GAF Chemicals Corporation | PROJECT NO. 6289.01

DRILLING DATA	
CONTRACTOR:	Converse Construction, Inc.
DRILLER:	Victor Rotunda
EQUIPMENT:	CME 75
METHOD:	Mud Rotary

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split Spoon Sampler	NA	NA
DIAMETER	1 inch	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

WELL DEVELOPMENT	
METHOD:	NA
DURATION:	NA
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV			

DATE STARTED: 06/26/90

DATE COMPLETED: 06/26/90

INSPECTOR: L. E. Scheuing

WELL CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	REC. feet
	0					Borehole backfilled with bentonite slurry.	
	5						
		S-1	SS				NS
	10				Tidal Marsh Deposits		
		S-2	SS	WOR/24"	PEAT ?		NR
		S-3	SS	WOR/24"			NR
					@ 14' medium brown PEAT		
	15	S-4	SS	WOR/24"	@ 14.5' grading to grey SILT & CLAY		1.0'
		S-5	SS				NS
		S-6	SS				NS
	20	S-7	SS	5-6-6-6	@ 20' grey-brown to dark-grey f SAND and Clayey SILT, trace f Gravel		2.0'
		S-8	SS	4-4-2-3	Glacial Till		0.5'
	25	S-9	SS	3-14-7-6	@ 22.5' grading to brown to red-brown Silty CLAY to CLAY & SILT, some to and rounded cf Gravel, little to trace cm Sand		0.9'
		S-10	SS	4-5-7-8			1.3'
		S-11	SS	9-11-13-13	Residual Soil @ 28' red-brown weathered SHALE, some Clay & Silt		0.8'
	30						

ECKENFELDER INC.

TEST BORING LOG

NO. CB-5

PROJECT: MSSS Oversight

SHEET NO. 2 of 2

CLIENT: GAF Chemicals Corporation

PROJECT NO. 6289.01

WELL CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	SAMPLE BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	REC. feet
	30	S-12	SS	5-10-12-15	@ 30' grading to red-brown Clayey SILT, some c Gravel, some angular Shale fragments, trace c Sand		1.3'
		S-13	SS	9-9-19-26	@ 32' red-brown weathered, angular SHALE fragments, some (+) Clayey Silt		0.7'
		S-14	SS	100/3"	Passaic Formation @ 34' red-brown SHALE		0.3'
	35				End of Boring @ 34.3'		
	40						
	45						
	50						
	55						
	60						
	65						

ECKENFELDER INC. — TEST BORING LOG — NO. CB-6

PROJECT: MSSS Oversight
CLIENT: GAF Chemicals Corporation
SHEET NO. 1 of 2
PROJECT NO. 6289.01

DRILLING DATA	
CONTRACTOR:	Converse Construction, Inc.
DRILLER:	Victor Rotunda
EQUIPMENT:	CME 75
METHOD:	Mud Rotary

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split Spoon Sampler	NA	NA
DIAMETER	1 inch	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

WELL DEVELOPMENT	
METHOD:	NA
DURATION:	NA
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV			

DATE STARTED: 06/26/90
DATE COMPLETED: 06/27/90
INSPECTOR: L. E. Scheuing

WELL CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	REC. feet
	0					Borehole backfilled with bentonite slurry.	
	5						
	10	S-1	SS	3-3-1-1			NR
		S-2	SS	WOH/24"			NR
	15	S-3	SS	WOR/12"-WOH/12"	Tidal Marsh Deposits @ 14' dark grey CLAY & SILT, with shell fragments		1.7'
		S-4	SS	WOH/24"	@ 15.5' dark brown PEAT @ 16.5' dark grey f SAND and Clayey SILT @ 18' dark brown PEAT		0.8'
		S-5	SS	WOH/6"-4-4-7	@ 18.5' grading to a blue-grey to medium brown mf SAND and Clayey SILT		1.7'
	20	S-6	SS	5-14-8-6	@ 21' grading to a medium brown fm SAND and Clayey SILT, little f Gravel		2.0'
		S-7	SS	2-2-3-4	Glacial Till @ 22' red-brown CLAY & SILT, some well-rounded cf Gravel		0.7'
	25	S-8	SS	5-7-7-6			0.3'
		S-9	SS	4-7-7-22			2.0'
		S-10	SS	18-21-22-23	Residual Soil @ 27.8' red-brown weathered SHALE @ 28' red-brown Silty CLAY @ 28.5' red-brown f SAND, some Silty Clay @ 29' red-brown weathered SHALE, some to		1.4'
	30						

ECKENFELDER INC.

TEST BORING LOG

NO. CB-6

PROJECT: MSSS Oversight

SHEET NO. 2 of 2

CLIENT: GAF Chemicals Corporation

PROJECT NO. 6289.01

WELL CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	SAMPLE BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	REC. feet
	30	S-11	SS	13-10-13-16			1.0'
		S-12	SS	10-11-19-23	@ 32' red-brown weathered SHALE and cf GRAVEL		1.0'
		S-13	SS	100/2"	Passaic Formation		0.2'
	35				@ 34' red-brown SHALE		
					End of Boring @ 34.2'		
	40						
	45						
	50						
	55						
	60						
	65						

ECKENFELDER INC. — TEST BORING LOG — NO. CB-7

PROJECT: MSSS Oversight	SHEET NO. 1 of 1
CLIENT: GAF Chemicals Corporation	PROJECT NO. 6289.01

DRILLING DATA	
CONTRACTOR: Converse Construction, Inc.	
DRILLER: Victor Rotunda	
EQUIPMENT: CME 75	
METHOD: Mud Rotary	

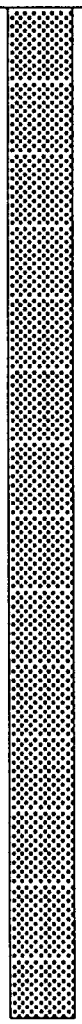
SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split Spoon Sampler	NA	NA
DIAMETER	1 inch	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

WELL DEVELOPMENT	
METHOD: NA	
DURATION: NA	
YIELD: NA	
OTHER: NA	

	GROUND	WELL	PROT CSG
ELEV			

DATE STARTED: 06/27/90	
DATE COMPLETED: 06/27/90	
INSPECTOR: L. E. Scheuing	

WELL CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	REC. feet
	0					Borehole backfilled with bentonite slurry.	
	5						
	10	S-1	SS	WOH/24"			NR
		S-2	SS	WOH/24"	Tidal Marsh Deposits @ 12' grey Silty CLAY and PEAT	Strong H2S odor	0.5'
	15	S-3	SS	WOH/24"			0.8'
		S-4	SS	WOH/12"-1-1	@ 16.5' brown PEAT @ 18' grading to grey PEAT and Silty CLAY		1.1'
		S-5	SS	WOH/12"-1-1	@ 18.5' grey-blue to grey-brown f SAND, some to and Clayey SILT		0.8'
	20	S-6	SS	2-5-6-2			1.2'
		S-7	SS	WOH/12"-2-3	Glacial Till @ 22' red-brown Clayey SILT, some c Sand, some f Gravel		1.1'
	25				End of Boring @ 23.1'		
	30						

ECKENFELDER INC.	TEST BORING LOG	NO. CB-8

PROJECT: MSSS Oversight	SHEET NO. 1 of 1
CLIENT: GAF Chemicals Corporation	PROJECT NO. 6289.01

DRILLING DATA	
CONTRACTOR: Converse Construction, Inc.	
DRILLER: Victor Rotunda	
EQUIPMENT: CME 75	
METHOD: Mud Rotary	

SAMPLING METHODS			
	SAMPLER	TUBE	CORE
TYPE	Split Spoon Sampler	NA	NA
DIAMETER	1 inch	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION		
	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

WELL DEVELOPMENT				
METHOD: NA		GROUND	WELL	PROT CSG
DURATION: NA	ELEV			
YIELD: NA	DATE STARTED: 06/27/90			
OTHER: NA	DATE COMPLETED: 06/27/90			
	INSPECTOR: L. E. Scheuing			

WELL CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	REC. feet
	0					Borehole backfilled with bentonite slurry.	
	5						
	10				Tidal Marsh Deposits		
		S-1	SS	WOH/24"	PEAT ?		NR
		S-2	SS	WOH/24"	@ 12' dark grey CLAY & SILT, and to some PEAT		0.7'
	15	S-3	SS	WOH/24"			1.5'
		S-4	SS	WOH/24"	@ 17.2' dark brown PEAT	Strong H2S odor	1.6'
					@ 18' dark grey CLAY & SILT and PEAT		
		S-5	SS	WOH/12"-1-2	@ 19' dark brown PEAT		1.8'
	20				@ 19.5' dark grey f SAND, some (+) Clayey Silt		
		S-6	SS	1-2-7-7	@ 20' grading to blue-grey Clayey SILT to SILT & CLAY, little to no f Sand, occ. PEAT		1.8'
		S-7	SS	5-2-5-6	@ 21.1' medium brown f to cf SAND, some Clayey Silt		1.3'
		S-8	SS	3-4-5-9	@ 22' grey grading to grey-brown Clayey SILT, little f Sand		1.0'
	25				Glacial Till		
					@ 23.5' red-brown Clayey SILT to SILT & CLAY, some well-rounded cm Sand, no to some cf Gravel		
					@ 24' grading to a red-brown SILT & CLAY, some cf Gravel, some f Sand		
					End of Boring @ 25'		
	30						

ECKENFELDER INC. — TEST BORING LOG — NO. CB-9

PROJECT: MSSS Oversight	SHEET NO. 1 of 1
CLIENT: GAF Chemicals Corporation	PROJECT NO. 6289.01

DRILLING DATA	
CONTRACTOR: Converse Construction, Inc.	
DRILLER: Victor Rotunda	
EQUIPMENT: CME 75	
METHOD: Mud Rotary	

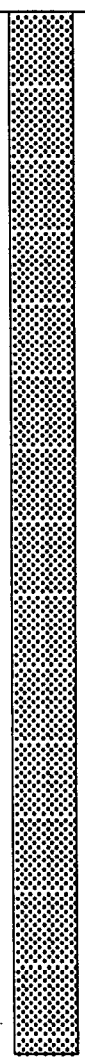
SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split Spoon Sampler	NA	NA
DIAMETER	1 inch	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

WELL DEVELOPMENT	
METHOD: NA	
DURATION: NA	
YIELD: NA	
OTHER: NA	

	GROUND	WELL	PROT CSG
ELEV			

DATE STARTED: 06/27/90
DATE COMPLETED: 06/28/90
INSPECTOR: L. E. Scheuing

WELL CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	REC. feet
	0					Borehole backfilled with bentonite slurry.	
	5						
	10						
					Tidal Marsh Deposits		
		S-1	SS	WOR/24"	Dark grey CLAY & SILT and PEAT @ 11.6' dark brown PEAT	Strong H2S odor	1.4'
		S-2	SS	WOR/12"-WOH/12"			1.4'
	15	S-3	SS	WOH/24"			2.0'
		S-4	SS	WOH/18"-3	@ 17.6' yellow wood		2.0'
					@ 18' dark grey CLAY & SILT grading to a blue-grey f SAND, some Clayey Silt, trace Peat fragments		
	20	S-5	SS	3-4-4-3	@ 19' 0.2' of dark brown PEAT @ 19.2' 0.2' of yellow wood		1.8'
		S-6	SS	5-5-2-2	@ 19.4' blue-grey mf SAND and to little Clayey SILT @ 21.4' grading to a grey Clayey Silt		1.3'
		S-7	SS	5-7-8-8	Glacial Till		0.8'
	25				@ 22' red-brown SILT & CLAY to CLAY & SILT, some to little cm Sand, trace to some f Gravel		
					End of Boring @ 23.8'		
	30						

ECKENFELDER INC.

TEST BORING LOG

NO. CB-10

PROJECT: MSSS Oversight	SHEET NO. 1 of 1
CLIENT: GAF Chemicals Corporation	PROJECT NO. 6289.01

DRILLING DATA	
CONTRACTOR: Converse Construction, Inc.	
DRILLER: Victor Rotunda	
EQUIPMENT: CME 75	
METHOD: Mud Rotary	

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split Spoon Sampler	NA	NA
DIAMETER	1 inch	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

WELL DEVELOPMENT	
METHOD: NA	
DURATION: NA	
YIELD: NA	
OTHER: NA	

	GROUND	WELL	PROT CSG
ELEV			

DATE STARTED: 07/02/90

DATE COMPLETED: 07/02/90

INSPECTOR: L. E. Scheuing

WELL CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	REC. feet
	0					Borehole backfilled with bentonite slurry.	
					Fill		
	5	S-1	SS	3-1-1-1	Wood fragments, ash, cinders, with brick fragments covered with a black oily liquid		NR
		S-2	SS	1-1-3-2			NR
		S-3	SS	WOH/6"-1-2-2			NR
	10	S-4	SS	WOH/24"			NR
					Tidal Marsh Deposits		
		S-5	SS	WOH/24"	@ 12' dark grey SILT & CLAY, and to trace dark brown PEAT		1.0'
	15	S-6	SS	WOH/24"	@ 14.5' dark brown PEAT		1.0'
		S-7	SS	WOH/24"	@ 16' grading to a grey SILT & CLAY, little Peat @ 16.5' dark brown PEAT, no to little Silt & Clay		1.7'
		S-8	SS	WOH/12"-1-3	@ 19' dark brown to blue-grey f SAND, little Clayey Silt		2.0'
	20	S-9	SS	3-5-5-5	@ 20' medium grey Clayey SILT, little to some fm layered Sand @ 21.1' grey-brown cf SAND, trace f Gravel, trace Clayey Silt		1.6'
		S-10	SS	4-4-7-7	Glacial Till		0.8'
	25	S-11	SS	5-5-5-6	@ 22.5' red-brown SILT & CLAY, some mf Gravel, little to trace cm Sand		0.9'
					End of Boring @ 25'		
	30						

ECKENFELDER INC. — TEST BORING LOG — NO. CB-11

PROJECT: MSSS Oversight	SHEET NO. 1 of 1
CLIENT: GAF Chemicals Corporation	PROJECT NO. 6289.01

DRILLING DATA	
CONTRACTOR:	Converse Construction, Inc.
DRILLER:	Victor Rotunda
EQUIPMENT:	CME 75
METHOD:	Mud Rotary

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split Spoon Sampler	NA	NA
DIAMETER	1 inch	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

WELL DEVELOPMENT	
METHOD:	NA
DURATION:	NA
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV			

DATE STARTED: 07/02/90
DATE COMPLETED: 07/03/90
INSPECTOR: L. E. Scheuing

WELL CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	REC. feet
	0					Borehole backfilled with bentonite slurry.	
					Tidal Marsh Deposits		
	5	S-1	SS	3-1-1/12"	Grey to black PEAT		0.8'
		S-2	SS	1/12"-1/12"			NR
		S-3	SS	WOH/24"	@ 8' grey SILT & CLAY, some to and PEAT, with shell fragments		1.0'
	10	S-4	SS	WOR/24"			0.2'
		S-5	SS	WOR/24"		Slight H2S odor	0.3'
	15	S-6	SS	WOR/18"-WOH/6"	@ 14.5' dark brown PEAT @ 16' grey SILT & CLAY, little Peat		1.0'
		S-7	SS	WOH/24"	@ 17' dark brown PEAT @ 18' grey SILT & CLAY, trace(+) Peat		1.4'
		S-8	SS	WOH/6"-2-1-2	@ 18.7' dark brown PEAT		1.7'
	20	S-9	SS	WOH/6"-5-6-7	@ 19.5' grey cf SAND, little Clayey Silt @ 20' grading to grey brown Clayey SILT, trace f Sand		1.5'
		S-10	SS	5-4-4-7	@ 21'dark grey to black mf SAND, little angular to subrounded f Gravel composed mainly of red shale.		1.3'
					Glacial Till @ 22.5' 2" layer of red-brown cmf SAND, some Clayey Silt topping red-brown CLAY & SILT, some cf Gravel		
	25				End of Boring @ 23.5'		
	30						

ECKENFELDER INC. — TEST BORING LOG — NO. CB-12

PROJECT: MSSS Oversight	SHEET NO. 1 of 1
CLIENT: GAF Chemicals Corporation - Linden, NJ	PROJECT NO. 6289.01

DRILLING DATA	
CONTRACTOR:	Converse Construction, Inc.
DRILLER:	Victor Rotunda
EQUIPMENT:	CME 75
METHOD:	Mud Rotary

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split Spoon Sampler	NA	NA
DIAMETER	2 inch	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

WELL DEVELOPMENT	
METHOD:	NA
DURATION:	NA
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV	6.58	NA	NA

DATE STARTED: 07/10/90
DATE COMPLETED: 07/10/90
INSPECTOR: L. E. Scheuing

BOREHOLE CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	Rec. feet
	0					Borehole backfilled with bentonite slurry.	
	5						
		S-1	SS	1/12"-1/12"	FILL Wood fragments with f Gravel-sized black ash and cinders		NR
		S-2	SS	WOH/24"			0.1'
	10	S-3	SS	WOH/24"	TIDAL MARSH DEPOSITS		2.0'
		S-4	SS	WOR/6"-WOH/18"	@ 11' dark brown PEAT grading with some Silty Clay @ 14'		NR
	15	S-5	SS	WOH/24"			1.0'
		S-6	SS	WOH/24"	Light gray with yellow Clayey SILT, some f Sand @ 18' black PEAT		0.7'
		S-7	SS	6-7-10-9	@ 18.3' blue-gray to medium brown mf SAND, little to some Clayey Silt		1.3'
	20	S-8	SS	2-6-7-7			1.5'
		S-9	SS	6-4-3-3	@ 22.5' grading to medium brown cf SAND, some f Gravel, little Clayey Silt		0.8'
	25	S-10	SS	3-3-4-6	GLACIAL TILL @ 22.7' grading to red-brown SILT & CLAY to CLAY & SILT, no to some cm Sand, little f Gravel		0.8'
	30				End of Boring at 26 feet.		

ECKENFELDER INC. — TEST BORING LOG — NO. CB-13

PROJECT: MSSS Oversight	SHEET NO. 1 of 1
CLIENT: GAF Chemicals Corporation	PROJECT NO. 6289.01

DRILLING DATA	
CONTRACTOR: Converse Construction, Inc.	
DRILLER: Victor Rotunda	
EQUIPMENT: CME 75	
METHOD: Mud Rotary	

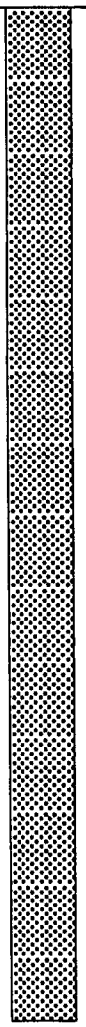
SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split Spoon Sampler	NA	NA
DIAMETER	1 inch	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

WELL DEVELOPMENT	
METHOD: NA	
DURATION: NA	
YIELD: NA	
OTHER: NA	

	GROUND	WELL	PROT CSG
ELEV			

DATE STARTED: 07/11/90
DATE COMPLETED: 07/11/90
INSPECTOR: L. E. Scheuing

WELL CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	REC. feet
	0					Borehole backfilled with bentonite slurry.	
	5	S-1	SS	2-3-5-5	Fill Black c sand & f gravel-sized particles of cinders with ash	Slight oily odor	0.8'
		S-2	SS	3-1-2-1	Tidal Marsh Deposits Dark brown PEAT	Strong H2S odor	0.9'
	10	S-3	SS	WOH/24"			NR
		S-4	SS	WOH/24"			NR
	15	S-5	SS	WOH/24"			NR
		S-6	SS	WOH/6"-1-1-2	@ 16' light grey to grey-brown f SAND and Clayey SILT		0.7'
		S-7	SS	2-4-6-6	@ 20' grey-brown Clayey SILT, some f Sand		1.3'
	20	S-8	SS	6-7-5-4	Glacial Till		0.8'
		S-9	SS	3-4-6-7	@ 20.5' red-brown SILT & CLAY to CLAY & SILT, some well-rounded f Gravel, little to some c Sand		1.2'
					End of Boring @ 23.2'		
	25						
	30						

ECKENFELDER INC. — TEST BORING LOG

NO. TC1-B1

PROJECT: MSSS Oversight	SHEET NO. 1 of 2
CLIENT: GAF Chemicals Corporation	PROJECT NO. 6289.01

DRILLING DATA	
CONTRACTOR:	Converse Construction, Inc.
DRILLER:	Victor Rotunda
EQUIPMENT:	CME 75
METHOD:	Mud Rotary

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split Spoon Sampler	NA	NA
DIAMETER	1 inch	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

WELL DEVELOPMENT	
METHOD:	NA
DURATION:	NA
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV			

DATE STARTED: 06/28/90
DATE COMPLETED: 06/29/90
INSPECTOR: L. E. Scheuing

WELL CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	REC. feet
	0					Borehole backfilled with bentonite slurry.	
	5						
	10				Tidal Marsh Deposits		
		S-1	SS	2-2-1-1	PEAT ?		NR
						Slight solvent odor in spoon	
		S-2	SS	1/12"-1-1			NR
	15	S-3	SS	WOH/24"			NR
		S-4	SS	WOH/24"	@ 16' grey SILT & CLAY, little f Sand, trace Peat		0.9'
		S-5	SS	3-3-7-10	@ 18' grading to grey f Sand, some Clayey Silt, trace Peat		2.0'
	20	S-6	SS	2-3-3-8	@ 20' slate grey Clayey SILT, little f Sand @ 20.7' grading to grey-brown mf SAND, some Clayey Silt		1.6'
		S-7	SS	5-8-4-4	@ 22' grading to dark grey to black cf SAND, some cf Gravel	H2S odor	0.8'
					Glacial Till		
	25	S-8	SS	3-3-4-5	@ 22.5' red-brown SILT & CLAY to CLAY & SILT, some to little cm Sand, little to some well- to sub-rounded f Gravel		0.8'
		S-9	SS	3-3-3-6			1.0'
		S-10	SS	6-9-16-14			1.1'
	30						

ECKENFELDER INC.

TEST BORING LOG

NO. TC1-B1

PROJECT: MSSS Oversight

SHEET NO. 2 of 2

CLIENT: GAF Chemicals Corporation

PROJECT NO. 6289.01

WELL CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	SAMPLE BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	REC. feet
	30	S-11	SS	16-19-19-26	Residual Soil		1.4'
		S-12	SS	21-19-27-33	@ 31' red-brown weathered SHALE and CLAY & SILT @ 32' red-brown Clayey SILT, some(+) f Gravel, some c Sand		1.3'
	35	S-13	SS	16-20-33-51	@ 32.8' grading to red-brown weathered SHALE with green alteration, some to trace Clayey Silt	15-20 ppm in the borehole	1.5'
		S-14	SS	31-52-40-81			1.3'
		S-15	SS	21-24-37-40			NR
	40	S-16	SS	42-63-100/5"			1.1'
					Passaic Formation @ 41' red-brown SHALE with slight green alteration		
					End of Boring @ 41.1'		
	45						
	50						
	55						
	60						
	65						

ECKENFELDER INC.	TEST BORING LOG	NO. WT-1

PROJECT: MSSS Oversight — SHEET NO. 1 of 1

CLIENT: GAF Chemicals Corporation - Linden, NJ — PROJECT NO. 6289.01

DRILLING DATA	
CONTRACTOR:	Converse Construction, Inc.
DRILLER:	Victor Rotunda
EQUIPMENT:	CME 75
METHOD:	Hollow Stem Auger

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	NA	NA	NA
DIAMETER	NA	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	PVC	PVC
DIAMETER	2"	2"
COUPLING	Flush Thread	Flush Thread

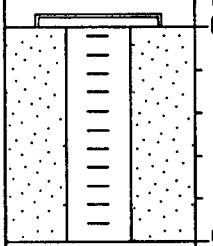
WELL DEVELOPMENT	
METHOD:	NA
DURATION:	NA
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV	6.30	7.92	NA

DATE STARTED: 06/18/90

DATE COMPLETED: 06/18/90

INSPECTOR: L. E. Scheuing

BOREHOLE CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	SAMPLE BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	Rec. feet
	0						
	5						
	10						
	15						
	20						
	25						
	30						

ECKENFELDER INC.	TEST BORING LOG	NO. WT-2

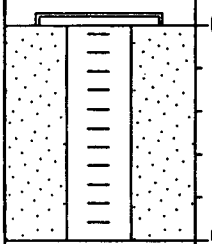
PROJECT: MSSS Oversight	SHEET NO. 1 of 1
CLIENT: GAF Chemicals Corporation - Linden, NJ	PROJECT NO. 6289.01

DRILLING DATA	
CONTRACTOR: Converse Construction, Inc.	
DRILLER: Victor Rotunda	
EQUIPMENT: CME 75	
METHOD: Hollow Stem Auger	

SAMPLING METHODS			
	SAMPLER	TUBE	CORE
TYPE	NA	NA	NA
DIAMETER	NA	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION		
	RISER	INTAKE
MATERIAL	PVC	PVC
DIAMETER	2"	2"
COUPLING	Flush Thread	Flush Thread

WELL DEVELOPMENT				
METHOD: NA		GROUND	WELL	PROT CSG
DURATION: NA	ELEV	7.10	9.15	NA
YIELD: NA	DATE STARTED: 06/18/90			
OTHER: NA	DATE COMPLETED: 06/18/90			
	INSPECTOR: L. E. Scheuing			

BOREHOLE CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	Rec. feet
	0						
	5						
	10						
	15						
	20						
	25						
	30						

ECKENFELDER INC.	TEST BORING LOG	NO. WT-3

PROJECT: MSSS Oversight — SHEET NO. 1 of 1

CLIENT: GAF Chemicals Corporation - Linden, NJ — PROJECT NO. 6289.01

DRILLING DATA	
CONTRACTOR:	Converse Construction, Inc.
DRILLER:	Victor Rotunda
EQUIPMENT:	CME 75
METHOD:	Hollow Stem Auger

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	NA	NA	NA
DIAMETER	NA	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	PVC	PVC
DIAMETER	2"	2"
COUPLING	Flush Thread	Flush Thread

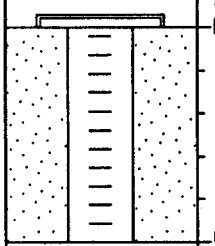
WELL DEVELOPMENT	
METHOD:	NA
DURATION:	NA
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV	5.30	3.44	NA

DATE STARTED: 06/19/90

DATE COMPLETED: 06/19/90

INSPECTOR: L. E. Scheuing

BOREHOLE CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	SAMPLE BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	Rec. feet
	0						
	5						
	10						
	15						
	20						
	25						
	30						

ECKENFELDER INC. TEST BORING LOG

NO. WT-4

PROJECT: MSSS Oversight — SHEET NO. 1 of 1

CLIENT: GAF Chemicals Corporation - Linden, NJ — PROJECT NO. 6289.01

DRILLING DATA	
CONTRACTOR:	Converse Construction, Inc.
DRILLER:	Victor Rotunda
EQUIPMENT:	CME 75
METHOD:	Hollow Stem Auger

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	NA	NA	NA
DIAMETER	NA	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	PVC	PVC
DIAMETER	2"	2"
COUPLING	Flush Thread	Flush Thread

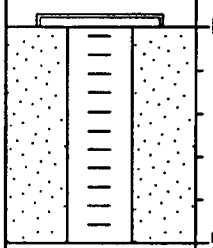
WELL DEVELOPMENT	
METHOD:	NA
DURATION:	NA
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV	5.30	3.55	NA

DATE STARTED: 06/18/90

DATE COMPLETED: 06/18/90

INSPECTOR: L. E. Scheuing

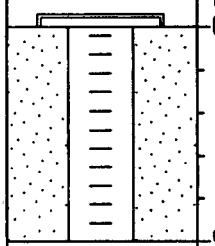
BOREHOLE CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	SAMPLE BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	Rec. feet
	0						
	5						
	10						
	15						
	20						
	25						
	30						

ECKENFELDER INC.	TEST BORING LOG	NO. WT-5

PROJECT: MSSS Oversight	SHEET NO. 1 of 1
CLIENT: GAF Chemicals Corporation - Linden, NJ	PROJECT NO. 6289.01

DRILLING DATA		SAMPLING METHODS			
CONTRACTOR: Converse Construction, Inc.			SAMPLER	TUBE	CORE
DRILLER: Victor Rotunda		TYPE	NA	NA	NA
EQUIPMENT: CME 75		DIAMETER	NA	NA	NA
METHOD: Hollow Stem Auger		OTHER	NA	NA	NA

WELL CONSTRUCTION			WELL DEVELOPMENT				
	RISER	INTAKE	METHOD: NA		GROUND	WELL	PROT CSG
MATERIAL	PVC	PVC	DURATION: NA	ELEV	7.50	9.07	NA
DIAMETER	2"	2"	YIELD: NA	DATE STARTED: 06/19/90			
COUPLING	Flush Thread	Flush Thread	OTHER: NA	DATE COMPLETED: 06/19/90			
				INSPECTOR: L. E. Scheuing			

BOREHOLE CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	SAMPLE BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	Rec. feet
	0						
	5						
	10						
	15						
	20						
	25						
	30						

ECKENFELDER INC.	TEST BORING LOG	NO. WT-6

PROJECT: MSSS Oversight — SHEET NO. 1 of 1

CLIENT: GAF Chemicals Corporation - Linden, NJ — PROJECT NO. 6289.01

DRILLING DATA	
CONTRACTOR:	Converse Construction, Inc.
DRILLER:	Victor Rotunda
EQUIPMENT:	CME 75
METHOD:	Hollow Stem Auger

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	NA	NA	NA
DIAMETER	NA	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	PVC	PVC
DIAMETER	2"	2"
COUPLING	Flush Thread	Flush Thread

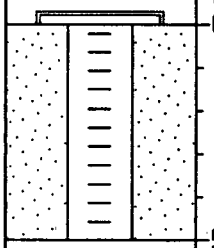
WELL DEVELOPMENT	
METHOD:	NA
DURATION:	NA
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV	7.40	8.76	NA

DATE STARTED: 06/19/90

DATE COMPLETED: 06/19/90

INSPECTOR: L. E. Scheuing

BOREHOLE CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	SAMPLE BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	Rec. feet
	0						
	5						
	10						
	15						
	20						
	25						
	30						

ECKENFELDER INC.

TEST BORING LOG

NO. WT-7

PROJECT: MSSS Oversight

SHEET NO. 1 of 1

CLIENT: GAF Chemicals Corporation - Linden, NJ

PROJECT NO. 6289.01

DRILLING DATA	
CONTRACTOR:	Converse Construction, Inc.
DRILLER:	Victor Rotunda
EQUIPMENT:	CME 75
METHOD:	Hollow Stem Auger

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	NA	NA	NA
DIAMETER	NA	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	PVC	PVC
DIAMETER	2"	2"
COUPLING	Flush Thread	Flush Thread

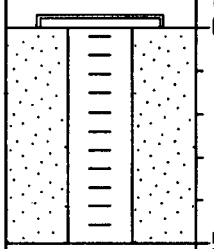
WELL DEVELOPMENT	
METHOD:	NA
DURATION:	NA
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV	6.30	7.82	NA

DATE STARTED: 06/19/90

DATE COMPLETED: 06/19/90

INSPECTOR: L. E. Scheuing

BOREHOLE CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	SAMPLE BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	Rec. feet
	0						
	5						
	10						
	15						
	20						
	25						
	30						

ECKENFELDER INC.	TEST BORING LOG	NO. TC1-N

PROJECT: MSSS Oversight	SHEET NO. 1 of 3
CLIENT: GAF Chemicals Corporation - Linden, NJ	PROJECT NO. 6289.01

DRILLING DATA	
CONTRACTOR: Converse Construction, Inc./Stothoff	
DRILLER: Victor Rotunda/Harry Kincel	
EQUIPMENT: CME 75/Reich Drill T-650-W	
METHOD: Air Rotary/Mud Rotary	

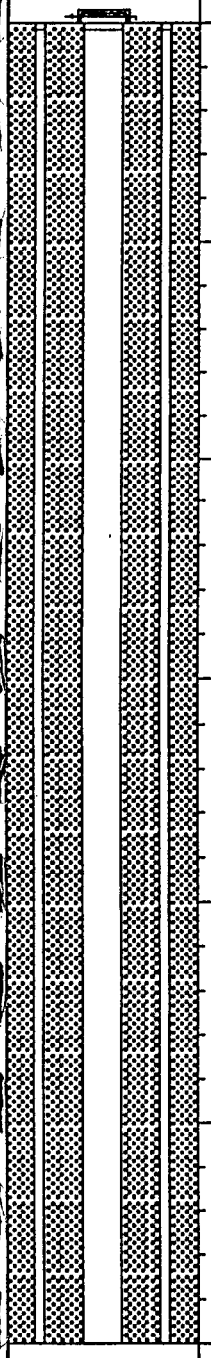
SAMPLING METHODS			
	SAMPLER	TUBE	CORE
TYPE	NA	NA	NA
DIAMETER	NA	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION		
	RISER	INTAKE
MATERIAL	PVC	PVC
DIAMETER	4"	4"
COUPLING	Flush Thread	Flush Thread

WELL DEVELOPMENT
METHOD: Submersible pump
DURATION: ~60 min.
YIELD: ~1 gpm
OTHER: NA

	GROUND	WELL	PROT CSG
ELEV	7.10	9.22	NA

DATE STARTED: 07/09/90	
DATE COMPLETED: 07/13/90	
INSPECTOR: L. E. Scheuing	

WELL CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	SAMPLE BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	Rec. Feet
	0				See TC1-B1 and TC1-B2 for lithologic description		
	5						
	10						
	15						
	20						
	25						
	30						

ECKENFELDER INC.

TEST BORING LOG

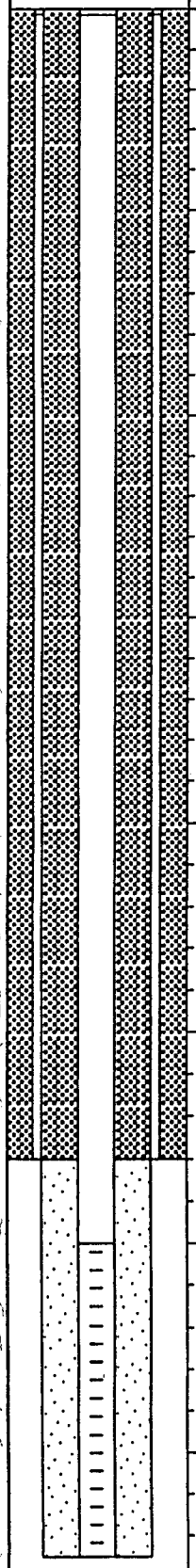
NO. TC1-N

PROJECT: MSSS Oversight

SHEET NO. 2 of 3

CLIENT: GAF Chemicals Corporation - Linden, NJ

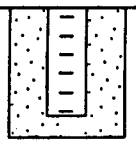
PROJECT NO. 6289.01

WELL CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	SAMPLE BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	Rec. Feet
	30						
	35						
	40						
	45						
	50						
	55						
	60						
	65						

ECKENFELDER INC.	TEST BORING LOG	NO. TC1-N

PROJECT: MSSS Oversight — SHEET NO. 3 of 3

CLIENT: GAF Chemicals Corporation - Linden, NJ — PROJECT NO. 6289.01

WELL CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	SAMPLE BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	Rec. Feet
	68						
	73						
	78						
	83						
	88						
	93						
	98						
	103						

ECKENFELDER INC.	TEST BORING LOG	NO. TC1-S

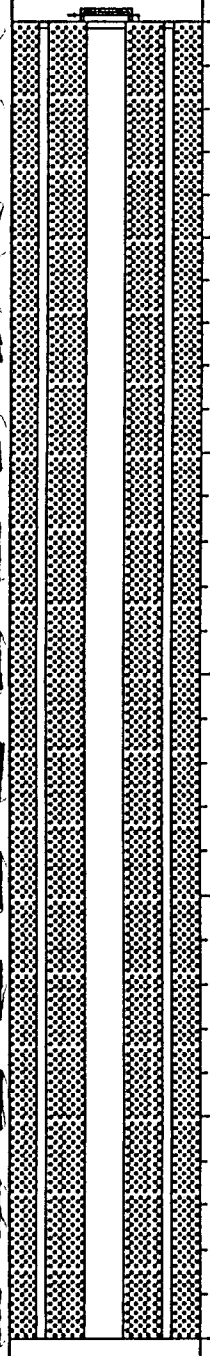
PROJECT: MSSS Oversight	SHEET NO. 1 of 2
CLIENT: GAF Chemicals Corporation - Linden, NJ	PROJECT NO. 6289.01

DRILLING DATA	
CONTRACTOR: Converse Construction, Inc./Stothoff	
DRILLER: Victor Rotunda/Harry Kincel	
EQUIPMENT: CME 75/Reich Drill T-650-W	
METHOD: Air Rotary/Mud Rotary	

SAMPLING METHODS			
	SAMPLER	TUBE	CORE
TYPE	NA	NA	NA
DIAMETER	NA	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION		
	RISER	INTAKE
MATERIAL	PVC	PVC
DIAMETER	4"	4"
COUPLING	Flush Thread	Flush Thread

WELL DEVELOPMENT				
METHOD: Submersible pump		GROUND	WELL	PROT CSG
DURATION: ~20 min.	ELEV	7.20	8.79	NA
YIELD: ~1.8 gpm	DATE STARTED: 07/12/90			
OTHER: NA	DATE COMPLETED: 07/16/90			
	INSPECTOR: L. E. Scheuing			

WELL CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	SAMPLE BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	Rec. Feet
	0						
	5						
	10						
	15						
	20						
	25						
	30						

ECKENFELDER INC.

TEST BORING LOG

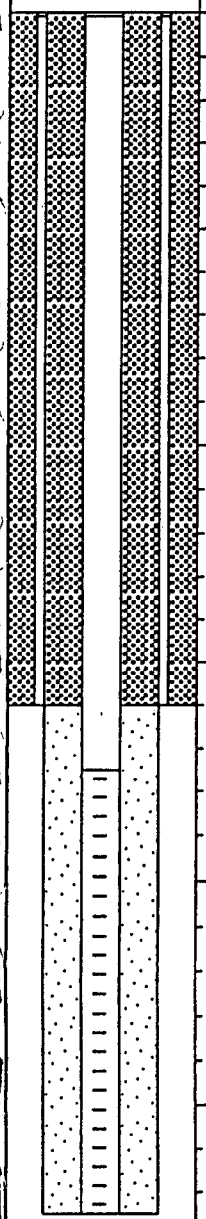
NO. TC1-S

PROJECT: MSSS Oversight

SHEET NO. 2 of 2

CLIENT: GAF Chemicals Corporation - Linden, NJ

PROJECT NO. 6289.01

WELL CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	SAMPLE BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	Rec. Feet
	30						
	35						
	40						
	45						
	50						
	55						
	60						
	65						

ECKENFELDER INC.	TEST BORING LOG	NO. TC1-E

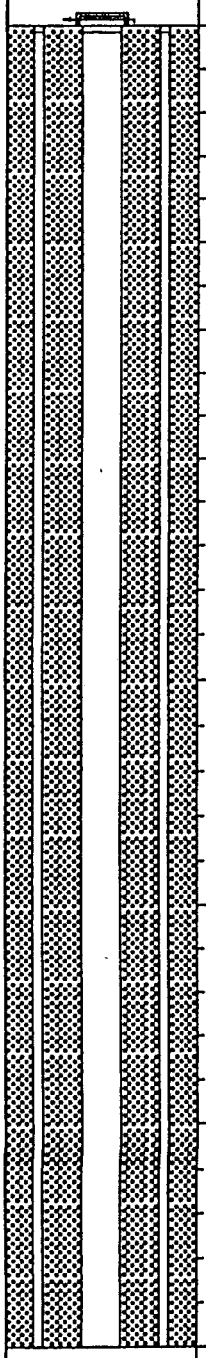
PROJECT: MSSS Oversight	SHEET NO. 1 of 2
CLIENT: GAF Chemicals Corporation - Linden, NJ	PROJECT NO. 6289.01

DRILLING DATA	
CONTRACTOR: Converse Construction, Inc./Stothoff	
DRILLER: Victor Rotunda/Harry Kincel	
EQUIPMENT: CME 75/Reich Drill T-650-W	
METHOD: Air Rotary/Mud Rotary	

SAMPLING METHODS			
	SAMPLER	TUBE	CORE
TYPE	NA	NA	NA
DIAMETER	NA	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION		
	RISER	INTAKE
MATERIAL	PVC	PVC
DIAMETER	4"	4"
COUPLING	Flush Thread	Flush Thread

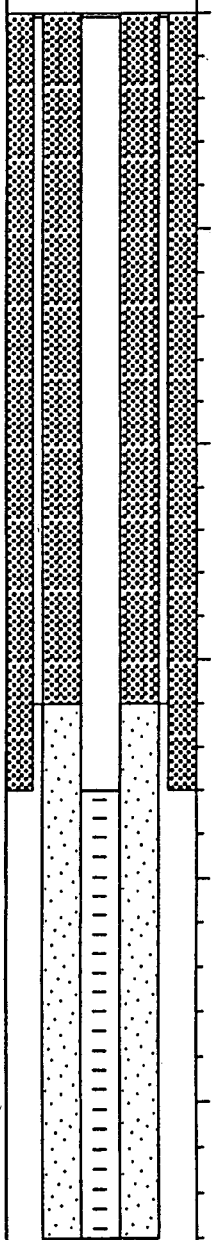
WELL DEVELOPMENT				
METHOD: Submersible pump		GROUND	WELL	PROT CSG
DURATION: ~60 min.	ELEV	7.12	9.05	NA
YIELD: ~1.2 gpm	DATE STARTED: 07/11/90			
OTHER: NA	DATE COMPLETED: 07/16/90			
	INSPECTOR: L. E. Scheuing			

WELL CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	Rec. Feet
	0				See TC1-B1 and TC1-B2 for lithologic description		
	5						
	10						
	15						
	20						
	25						
	30						

ECKENFELDER INC.	TEST BORING LOG	NO. TC1-E

PROJECT: MSSS Oversight — SHEET NO. 2 of 2

CLIENT: GAF Chemicals Corporation - Linden, NJ — PROJECT NO. 6289.01

WELL CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	SAMPLE BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	Rec. Feet
	30						
	35						
	40						
	45						
	50						
	55						
	60						
	65						

ECKENFELDER INC.	TEST BORING LOG	NO. TC1-W

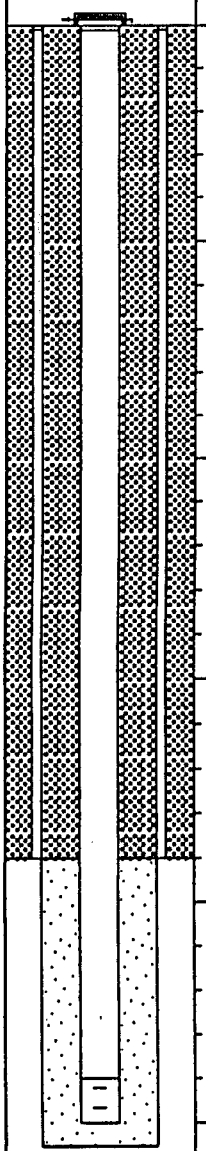
PROJECT: MSSS Oversight	SHEET NO. 1 of 1
CLIENT: GAF Chemicals Corporation - Linden, NJ	PROJECT NO. 6289.01

DRILLING DATA	
CONTRACTOR: Converse Construction, Inc./Stothoff	
DRILLER: Victor Rotunda/Harry Kincel	
EQUIPMENT: CME 75/Reich Drill T-650-W	
METHOD: Air Rotary/Mud Rotary	

SAMPLING METHODS			
	SAMPLER	TUBE	CORE
TYPE	NA	NA	NA
DIAMETER	NA	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION		
	RISER	INTAKE
MATERIAL	PVC	PVC
DIAMETER	2"	2"
COUPLING	Flush Thread	Flush Thread

WELL DEVELOPMENT				
METHOD: Submersible pump		GROUND	WELL	PROT CSG
DURATION: ~4 min.	ELEV	7.23	9.02	NA
YIELD: ~0.1 gpm	DATE STARTED: 07/13/90			
OTHER: NA	DATE COMPLETED: 07/16/90			
	INSPECTOR: L. E. Scheuing			

WELL CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	SAMPLE BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	Rec. Feet
	0				See TC1-B1 and TC1-B2 for lithologic description		
	5						
	10						
	15						
	20						
	25						
	30						

ECKENFELDER INC.	TEST BORING LOG	NO. TC3-N

PROJECT: MSSS Oversight	SHEET NO. 1 of 2
CLIENT: GAF Chemicals Corporation - Linden, NJ	PROJECT NO. 6289.01

DRILLING DATA	
CONTRACTOR: Converse Construction, Inc./Stothoff	
DRILLER: Victor Rotunda/Harry Kincel	
EQUIPMENT: CME 75/Reich Drill T-650-W	
METHOD: Air Rotary/Mud Rotary	

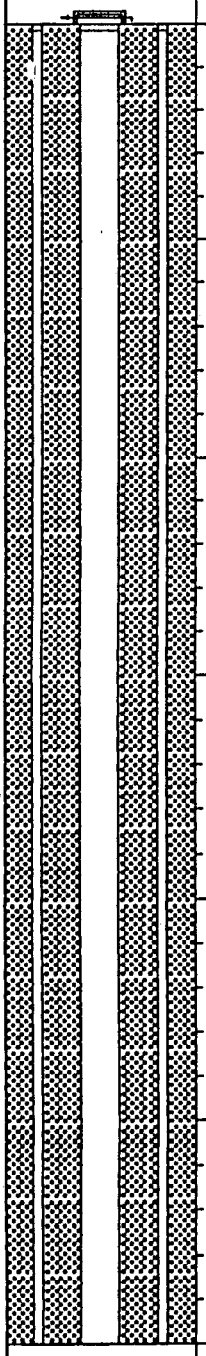
SAMPLING METHODS			
	SAMPLER	TUBE	CORE
TYPE	NA	NA	NA
DIAMETER	NA	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION		
	RISER	INTAKE
MATERIAL	PVC	PVC
DIAMETER	4"	4"
COUPLING	Flush Thread	Flush Thread

WELL DEVELOPMENT
METHOD: Submersible pump
DURATION: ~70 min.
YIELD: ~10 gpm
OTHER: NA

	GROUND	WELL	PROT CSG
ELEV	6.39	7.62	NA

DATE STARTED: 07/18/90	
DATE COMPLETED: 07/19/90	
INSPECTOR: L. E. Scheuing	

WELL CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	SAMPLE BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	Rec. Feet
	0				See SB-9 and SB-10 for lithologic description		
	5						
	10						
	15						
	20						
	25						
	30						

ECKENFELDER INC.

TEST BORING LOG

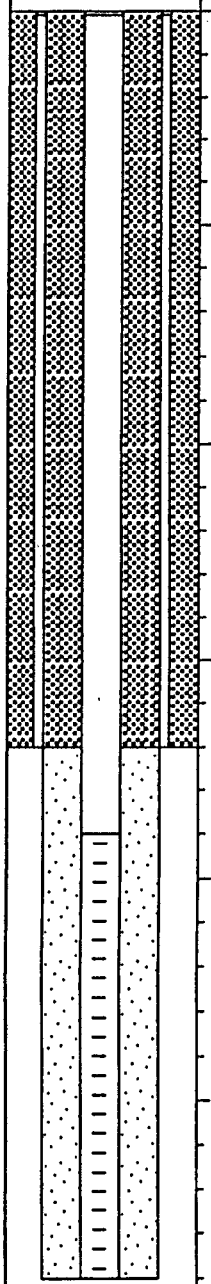
NO. TC3-N

PROJECT: MSSS Oversight

SHEET NO. 2 of 2

CLIENT: GAF Chemicals Corporation - Linden, NJ

PROJECT NO. 6289.01

WELL CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	SAMPLE BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	Rec. Feet
	30						
	35						
	40						
	45						
	50						
	55						
	60						
	65						

ECKENFELDER INC.	TEST BORING LOG	NO. TC3-S

PROJECT: MSSS Oversight — SHEET NO. 1 of 2

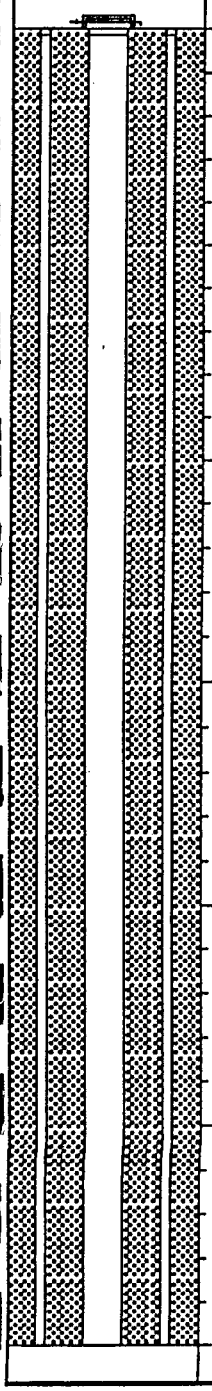
CLIENT: GAF Chemicals Corporation - Linden, NJ — PROJECT NO. 6289.01

DRILLING DATA	
CONTRACTOR:	Converse Construction, Inc./Stothoff
DRILLER:	Victor Rotunda/Harry Kincel
EQUIPMENT:	CME 75/Reich Drill T-650-W
METHOD:	Air Rotary/Mud Rotary

SAMPLING METHODS			
	SAMPLER	TUBE	CORE
TYPE	NA	NA	NA
DIAMETER	NA	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION		
	RISER	INTAKE
MATERIAL	PVC	PVC
DIAMETER	4"	4"
COUPLING	Flush Thread	Flush Thread

WELL DEVELOPMENT				
METHOD: Submersible pump		GROUND	WELL	PROT CSG
DURATION: ~70 min.	ELEV	6.37	7.52	NA
YIELD: ~10 gpm.	DATE STARTED: 07/13/90			
OTHER: NA	DATE COMPLETED: 07/19/90			
	INSPECTOR: L. E. Scheuing			

WELL CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	Rec. Feet
	0				See SB-9 and SB-10 for lithologic description		
	5						
	10						
	15						
	20						
	25						
	30						

ECKENFELDER INC.

TEST BORING LOG

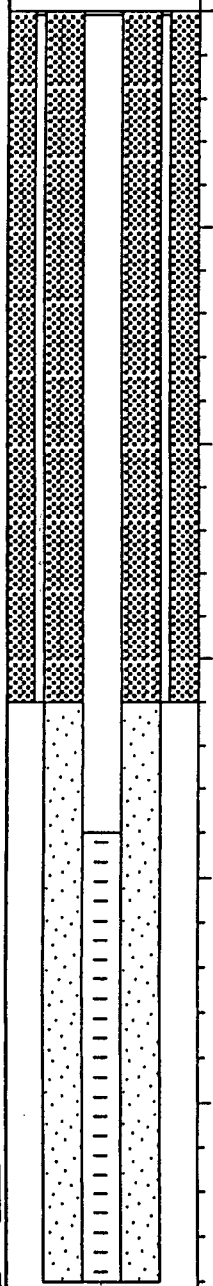
NO. TC3-S

PROJECT: MSSS Oversight

SHEET NO. 2 of 2

CLIENT: GAF Chemicals Corporation - Linden, NJ

PROJECT NO. 6289.01

WELL CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	SAMPLE BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	Rec. Feet
	30						
	35						
	40						
	45						
	50						
	55						
	60						
	65						

ECKENFELDER INC.	TEST BORING LOG	NO. TC3-E

PROJECT: MSSS Oversight	SHEET NO. 1 of 2
CLIENT: GAF Chemicals Corporation - Linden, NJ	PROJECT NO. 6289.01

DRILLING DATA	
CONTRACTOR: Converse Construction, Inc./Stothoff	
DRILLER: Victor Rotunda/Harry Kincel	
EQUIPMENT: CME 75/Reich Drill T-650-W	
METHOD: Air Rotary/Mud Rotary	

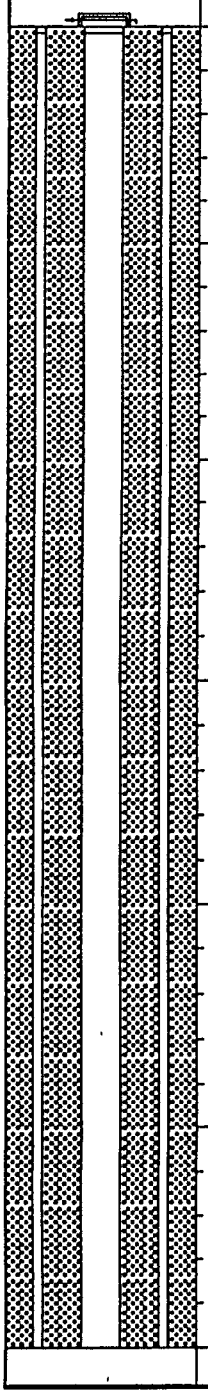
SAMPLING METHODS			
	SAMPLER	TUBE	CORE
TYPE	NA	NA	NA
DIAMETER	NA	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	PVC	PVC
DIAMETER	4"	4"
COUPLING	Flush Thread	Flush Thread

WELL DEVELOPMENT	
METHOD: Submersible pump	
DURATION: ~70 min.	
YIELD: ~10 gpm.	
OTHER: NA	

	GROUND	WELL	PROT CSG
ELEV	6.23	7.70	NA

DATE STARTED: 07/17/90	
DATE COMPLETED: 07/19/90	
INSPECTOR: L. E. Scheuing	

WELL CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	SAMPLE BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	Rec. Feet
	0				See SB-9 and SB-10 for lithologic description		
	5						
	10						
	15						
	20						
	25						
	30						

ECKENFELDER INC.

TEST BORING LOG

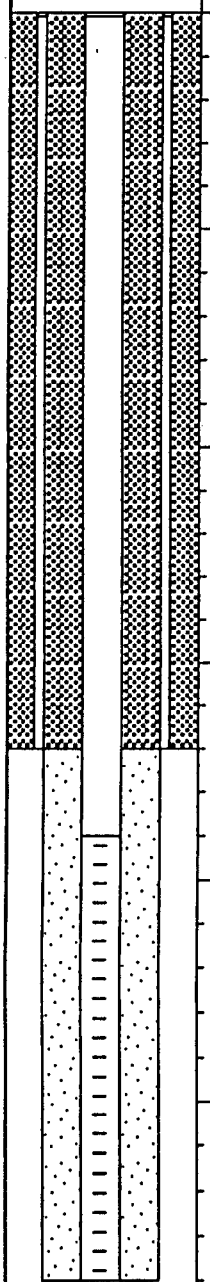
NO. TC3-E

PROJECT: MSSS Oversight

SHEET NO. 2 of 2

CLIENT: GAF Chemicals Corporation - Linden, NJ

PROJECT NO. 6289.01

WELL CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	SAMPLE BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	Rec. Feet
	30						
	35						
	40						
	45						
	50						
	55						
	60						
	65						

ECKENFELDER INC.	TEST BORING LOG	NO. TC3-W

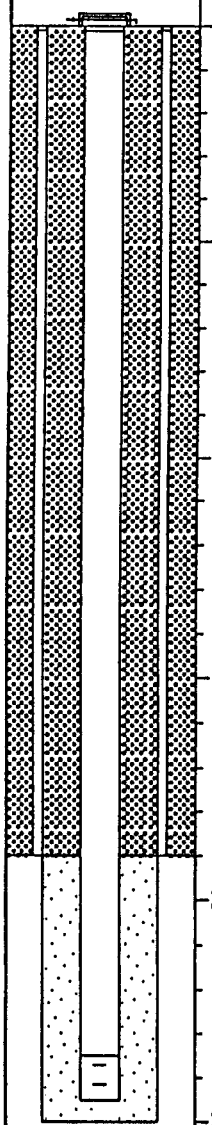
PROJECT: MSSS Oversight	SHEET NO. 1 of 1
CLIENT: GAF Chemicals Corporation - Linden, NJ	PROJECT NO. 6289.01

DRILLING DATA	
CONTRACTOR: Converse Construction, Inc./Stothoff	
DRILLER: Victor Rotunda/Harry Kincel	
EQUIPMENT: CME 75/Reich Drill T-650-W	
METHOD: Air Rotary/Mud Rotary	

SAMPLING METHODS			
	SAMPLER	TUBE	CORE
TYPE	NA	NA	NA
DIAMETER	NA	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION		
	RISER	INTAKE
MATERIAL	PVC	PVC
DIAMETER	2"	2"
COUPLING	Flush Thread	Flush Thread

WELL DEVELOPMENT				
METHOD: Submersible pump		GROUND	WELL	PROT CSG
DURATION: ~6 min.	ELEV	6.41	8.15	NA
YIELD: ~1 gpm.	DATE STARTED: 07/10/90			
OTHER: NA	DATE COMPLETED: 07/11/90			
	INSPECTOR: L. E. Scheuing			

WELL CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	SAMPLE BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURWISTER, 1959)	REMARKS	Rec. Feet
	0				See SB-9 and SB-10 for lithologic description		
	5						
	10						
	15						
	20						
	25						
	30						

ECKENFELDER INC.	TEST BORING LOG	NO. TC1-B2

PROJECT: MSSS Oversight — SHEET NO. 1 of 2

CLIENT: GAF Chemicals Corporation — PROJECT NO. 6289.01

DRILLING DATA	
CONTRACTOR:	Converse Construction, Inc.
DRILLER:	Victor Rotunda
EQUIPMENT:	CME 75
METHOD:	Mud Rotary

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split Spoon Sampler	NA	NA
DIAMETER	1 inch	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

WELL DEVELOPMENT	
METHOD:	NA
DURATION:	NA
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV			

DATE STARTED: 06/29/90

DATE COMPLETED: 07/06/90

INSPECTOR: L. E. Scheuing

WELL CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	REC. feet
	0	S-1	SS	8-8-16-100/3"	Fill Brown Clayey SILT, little f Sand @ 0.3 black ash @ 0.4' yellow sand-sized crystals @ 0.5' red brick or shale fragments with black ash	Borehole backfilled with bentonite slurry.	1.2'
	5	S-2	SS	14-12-1-1	@ 4' red-brown mf SAND @ 4.3' yellow crystalline SAND @ 4.4' grading to red-brown brick or shale fragments		0.8'
		S-3	SS	1-2-3-2	@ 7' black ash, some Clayey Silt		2.0'
		S-4	SS	1/24"	Tidal Marsh Deposits @ 7.5' grey-green to dark brown PEAT		0.6'
	10	S-5	SS	WOH/24"			NR
		S-6	SS	WOH/24"			0.3'
	15	S-7	SS	WOH/24"			1.0'
		S-8	SS	WOR/12"-WOH/12"	@ 17' grey to grey-brown Clayey SILT to Silty CLAY, little f Sand		2.0'
		S-9	SS	WOR/6"-WOH/6"-7-7			2.0'
	20	S-10	SS	4-7-5-5	@ 21.1' grading to grey mf SAND, some Clayey Silt		1.8'
		S-11	SS	5-5-8-11			1.0'
	25	S-12	SS	5-7-5-6	Glacial Till @ 24' grey Clayey SILT, some mf Gravel, little cf Sand		2.0'
		S-13	SS	7-6-7-10	@ 24.3' grading to red-brown SILT & CLAY to Clayey SILT, some (+) to little rounded to sub-rounded mf Gravel, trace to no c Sand		0.8'
		S-14	SS	9-9-8-8			1.3'
	30						

ECKENFELDER INC.

TEST BORING LOG

NO. TC1-B2

PROJECT: MSSS Oversight

CLIENT: GAF Chemicals Corporation

SHEET NO. 2 of 2

PROJECT NO. 6289.01

WELL CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURWISTER, 1959)	REMARKS	REC. feet
	30	S-15	SS	7-10-14-17	@ 30' red-brown weathered SHALE, little to trace Clayey Silt		0.7'
		S-16	SS	29-55-55-43			0.9'
	35	S-17	SS	21-29-34-52			0.7'
		S-18	SS	32-37-39-43			0.3'
		S-19	SS	16-21-29-40	@ 38' grading to red-brown weathered SHALE with slight green alteration, little to some mf Gravel composed of shale and basalt, trace to little Clayey Silt		1.5'
	40	S-20	SS	31-36-34-45			1.3'
		S-21	SS	4-13-19-23			1.6'
	45	S-22	SS	11-12-13-13	Residual Soil		1.3'
		S-23	SS	52-100/2"	@ 44' red-brown weathered SHALE, some (-) angular Gravel, trace Clayey Silt		0.5'
					Passaic Formation		
					@ 46' red-brown SHALE		
					End of Boring @ 46.5'		
	50						
	55						
	60						
	65						

ECKENFELDER INC. — TEST BORING LOG

NO. TC2-B1

PROJECT: MSSS Oversight	SHEET NO. 1 of 1
CLIENT: GAF Chemicals Corporation	PROJECT NO. 6289.01

DRILLING DATA	
CONTRACTOR:	Converse Construction, Inc.
DRILLER:	Victor Rotunda
EQUIPMENT:	CME 75
METHOD:	Mud Rotary

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split Spoon Sampler	NA	NA
DIAMETER	1 inch	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

WELL DEVELOPMENT	
METHOD:	NA
DURATION:	NA
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV			

DATE STARTED: 07/03/90
DATE COMPLETED: 07/03/90
INSPECTOR: L. E. Scheuing

WELL CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	REC. feet
	0					Borehole backfilled with bentonite slurry.	
	5				Fill		
		S-1	SS	WOH/24"			NR
		S-2	SS	WOH/6"-4-5-2	@ 8' grey to black to yellow mf SAND, and to some Clayey SILT, no to little f Gravel, with fibers and wood	Chlorobenzene odor	0.3'
	10	S-3	SS	1-2-1/12"			0.3'
		S-4	SS	WOH/12"-5-5			0.7'
	15	S-5	SS	1-1-5-8			0.8'
		S-6	SS	9-10-9-13	Glacial Till		0.6'
		S-7	SS	15-17-21-20	@ 17' light grey to red-brown Clayey SILT, some mf Sand	Solvent odor throughout remaining section 10-15 ppm in the breathing zone while drilling	0.8'
	20	S-8	SS	8-7-8-12	@ 18' grading to red-brown and yellow SILT & CLAY to Clayey SILT, some mf sub-rounded Gravel, no to some weathered Shale, no to some c Sand		1.3'
		S-9	SS	11-13-13-16			0.9'
	25	S-10	SS	13-15-15-14	Residual Soil @ 24' red-brown weathered SHALE, little Clayey Silt		0.8'
		S-11	SS	8-15-21-38			0.8'
		S-12	SS	75-100/2"			0.9'
	30				End of Boring @ 29'		

ECKENFELDER INC. — TEST BORING LOG

NO. TC2-B2

PROJECT: MSSS Oversight — SHEET NO. 1 of 1

CLIENT: GAF Chemicals Corporation — PROJECT NO. 6289.01

DRILLING DATA	
CONTRACTOR:	Converse Construction, Inc.
DRILLER:	Victor Rotunda
EQUIPMENT:	CME 75
METHOD:	Mud Rotary

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split Spoon Sampler	NA	NA
DIAMETER	1 inch	NA	NA
OTHER	NA	NA	NA

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	NA	NA
DIAMETER	NA	NA
COUPLING	NA	NA

WELL DEVELOPMENT	
METHOD:	NA
DURATION:	NA
YIELD:	NA
OTHER:	NA

	GROUND	WELL	PROT CSG
ELEV			

DATE STARTED: 07/05/90

DATE COMPLETED: 07/05/90

INSPECTOR: L. E. Scheuing

WELL CONSTRUCTION	DEPTH (feet)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	REC. feet
	0					Borehole backfilled with bentonite slurry.	
	5						
		S-1	SS	WOH/6"-1-1-1	Fill Grey to red-brown to yellow f SAND and to some (+) Clayey SILT, no to trace mf Gravel, with wood and cinders near the top	Chlorobenzene odor throughout most of the section	0.9'
	10	S-2	SS	WOH/12"-1-2			0.4'
		S-3	SS	WOH-12"-1-2			1.7'
	15	S-4	SS	WOH/12"-5-6			0.8'
		S-5	SS	9-12-12-11	@ 16' grey-brown cf SAND and to no f GRAVEL, little to some Clayey Silt		1.3'
		S-6	SS	8-9-12-13	Glacial Till		0.9'
	20	S-7	SS	6-6-5-6	@ 19' red-brown Clayey SILT to Silty CLAY, trace to some mf rounded Gravel, trace to little cm Sand, no to some weathered Shale fragments, white fibrous substance @ 19'		0.6'
		S-8	SS	5-4-7-9			2.0'
	25	S-9	SS	15-19-23-19			1.0'
		S-10	SS	19-27-38-100/6"	Passaic Formation @ 26' red-brown SHALE		0.6'
	30				End of Boring @ 26.5'		

APPENDIX C-3

EXISTING LOGS

AWARE INCORPORATED

TEST BORING LOG

NO. GAF-7S

PROJECT: GAF-LINDEN	SHEET NO. 1 of
CLIENT: GAF CHEMICALS CORP.	PROJECT NO. 6106

DRILLING DATA	
CONTRACTOR:	HARDIN-HUBER
DRILLER:	KEVIN HUBER
EQUIPMENT:	B-61 AUGER RIG
METHOD:	HOLLOW STEM AUGER

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split spoon		
DIAMETER	2"		
OTHER	140#/30" drop		

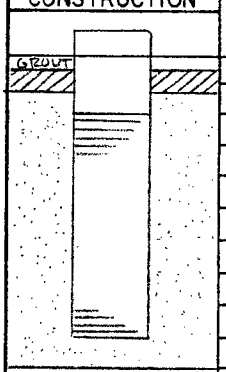
WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	PVC	PVC
DIAMETER	4"	4"
COUPLING	Flush Threaded	Flush Threaded

WELL DEVELOPMENT	
METHOD:	Airlifting
DURATION:	1.0 hr.
YIELD:	moderate
OTHER:	clean

	GROUND	WELL	PROT CSG.
ELEV	9.7	12.70	

DATE STARTED:	4-20-88
DATE COMPLETED:	4-20-88
INSPECTOR:	MJSCHNEIDER

WELL CONSTRUCTION



DEPTH (FEET)	SAMPLE NO.	TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS
0	S-1	SS	1-1/12"-2	FILL	
	S-2	SS	6-5-4-2	Black m-F SAND, little(+) SILT w/ one ft interval Black-gray silty CLAY, trace wood pieces.	
5	S-3	SS	1-2-1-1		
	S-4	SS	1-1-1-1	8.0'	VANE SHEAR TEST @9.0 ft. in adjacent boring
	S-5	SS	1/12"-1/12"	TIDAL MARSH DEPOSIT	H_2S odor
10				DK Bm-Blk PEAT grading to DK bm PEAT with CLAY to Med Bm Clayey SILT 10.0'	
15				END OF BORING	
20					
25					
30					
35					
40					

Rev 9/29/88 [signature]

AWARE INCORPORATED

TEST BORING LOG

NO. GAF-7D

PROJECT: GAF-LINDEN
CLIENT: GAF CHEMICALS CORP.

SHEET NO. 1 of 2
PROJECT NO. 6106

DRILLING DATA	
CONTRACTOR:	HARDIN HUBER
DRILLER:	NATE LAZARO
EQUIPMENT:	B-80 MOBILE RIG
METHOD:	HOLLOW STEM AUGER/HYDRAULIC ROTARY

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split spoon	Shelby tube	NX
DIAMETER	2"	3"	2 15/16"
OTHER	140#/30" drop	pushed	

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	PVC	PVC
DIAMETER	4"	4"
COUPLING	Flush Threaded	Flush Threaded

WELL DEVELOPMENT	
METHOD:	AIRLIFTING
DURATION:	1.0 hr.
YIELD:	slow
OTHER:	clean

	GROUND	WELL	PROT CSG.
ELEV	9.5	11.36	

DATE STARTED: 5-9-88
DATE COMPLETED: 5-27-88
INSPECTOR: KJ SCHNEIDER

WELL CONSTRUCTION: STEEL CASING; GROUT; PVC CASING; GROUT

DEPTH (FEET)	SAMPLE NO.	TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	
0						
5						
10	S-6	SS	1-3-3-3	TIDAL MARSH DEPOSIT: Lt. Med. Brn CLAY & SILT, little f Sand 12.0	VANE SHEAR TEST (@ 9.0 ft. in adjacent boring	
	S-7	SS	3-5-7-7	GLACIAL TILL: Red-Brn silty CLAY, tr C-m-F Sand, tr m-F Gravel	SHELBY TUBE pushed 13.0-15.0 ft.	
15	S-8	SS	5-7-10-10	Red-Brn CLAY & SILT, tr(+) m-F Gravel		
	S-9	SS	9-10-11-11			
	S-10	SS	4-8-12-16	Red-Brn clayey SILT, little f Gravel, trace f Sand		
20	S-11	SS	12-14-16-21	22.0'		
	S-12	SS	12-17-19-22	BRUNSWICK FORMATION (Residual Soil)		
25	S-13	SS	5-17-17-20			
	S-14	SS	7-12-12-16	Red-Brn clayey SILT, tr(+) m-F Gravel		
	S-15	SS	23-51/5"	30.1'		
30	S-16	SS	51/4"	(Competent Bedrock)	Vertical joint (open : closed) 31.4-42.3	38%
35	CORE-155 BOX #2	NX CORE		Moderate reddish brown to reddish brown SHALE and silty SHALE, w/ occasional shale clasts in zones, slabby parting		
				Abundant spherulites 35.5-36.0'	10° fracture @ possible mvmt.	89%
40				Diagenetic compaction: dewatering structure siltstone and f sandstone bed 37-38.0'		poor recovery
					40° fracture	77%

AWARE INCORPORATED

TEST BORING LOG

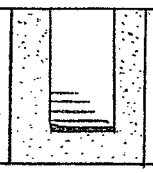
NO. GAF-7D

PROJECT: GAF-LINDEN

CLIENT: GAF CHEMICALS CORP

SHEET NO. 2 of 2

PROJECT NO. 6106

WELL CONSTRUCTION	DEPTH (FEET)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	
	40				Moderate reddish brown SHALE and silty SHALE Siltstone and f sandstone 44-44.7' END OF BORING 45.0	low angle fractures possible movement	77%
	45						
	50						
	55						
	60						
	65						
	70						
	75						
	80						
	85						
	90						

AWARE INCORPORATED

TEST BORING LOG

NO. GAF-9S

PROJECT: GAF - LINDEN
CLIENT: GAF Chemicals Corp

SHEET NO. 1 of 1
PROJECT NO. 6100

DRILLING DATA	
CONTRACTOR:	HARDIN - HUBER
DRILLER:	KEVIN HUBER
EQUIPMENT:	B-61 Auger Rig
METHOD:	HOLLOW STEM AUGER

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	split spoon		
DIAMETER	2"		
OTHER	140# / 30" drop		

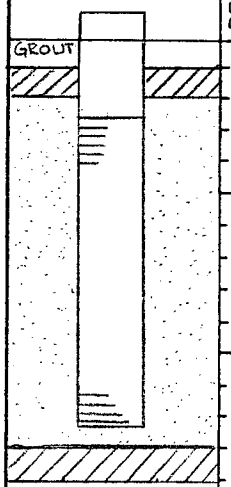
WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	PVC	PVC
DIAMETER	4"	4"
COUPLING	Flush Threaded	Flush Threaded

WELL DEVELOPMENT	
METHOD:	Airlifting
DURATION:	1.5 hr
YIELD:	fast
OTHER:	black - silty

	GROUND	WELL	PROT CSG.
ELEV	5.7	8.5	

DATE STARTED: 4-19-88
DATE COMPLETED: 4-19-88
INSPECTOR: MJ Schneider

WELL CONSTRUCTION



DEPTH (FEET)	SAMPLE NO.	TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS
0	S-1	SS	1-2-5-9	FILL	
	S-2	SS	5-3-2-2	Black f-m-c SAND, little (+) Silt with some Gravel and brick fragments	
5	S-3	SS	1-2-2-2		SATURATED @ 5.0'
	S-4	SS	1-1-1-1		
	S-5	SS	1-1-1-1	Black f-m SAND, little (+) Silt	
10	S-6	SS	1/12"-1/12"	10.0'	VANE SHEAR TEST @12.0 ft in adjacent boring
	S-7	SS	1/12"-1-1	TIDAL MARSH DEPOSIT	
15				MEDIUM BROWN FIBROUS PEAT, VERY COMPACTED GRADING to MED Brn PEAT WITH SOME CLAY 14.0'	STRONG H_2S ODOR
20				END OF BORING	
25					
30					
35					
40					

AWARE INCORPORATED

TEST BORING LOG

NO. GAF-9D

PROJECT: GAF-LINDEN
CLIENT: GAF CHEMICALS CORP

SHEET NO. 1 of 2
PROJECT NO. 61016

DRILLING DATA	
CONTRACTOR:	HARDIN-HUBER
DRILLER:	KEVIN HUBER
EQUIPMENT:	B-61 AUGER RIG
METHOD:	HOLLOW STEM AUGER/HYDRAULIC ROTARY

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	split spoon		NX
DIAMETER	2"		2 15/16"
OTHER	140#/30" drop		

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	PVC	PVC
DIAMETER	4"	4"
COUPLING	Flush Threaded	Flush Threaded

WELL DEVELOPMENT	
METHOD:	AIRLIFTING
DURATION:	1.0 HR.
YIELD:	fast
OTHER:	clean

	GROUND	WELL	PROT CSG
ELEV	4.7	8.31	

DATE STARTED: 4-26-88
DATE COMPLETED: 5-11-88
INSPECTOR: M. SCHNEIDER

WELL CONSTRUCTION: STEEL CASING, GROUT, PVC CASING, GROUT, STEEL CASING

DEPTH (FEET)	SAMPLE NO.	TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS
0					
5					
10					VANE SHEAR TEST @ 12.0 ft. in adjacent boring
15	S-8	SS	1/12"- 1/12"	TIDAL MARSH DEPOSIT DK. Brn fibrous PEAT grading to DK Brn-Blk PEAT with some (+) CLAY 19.0'	
	S-9	SS	1/12"- 1-2		
	S-10	SS	1-3- 3-6		
20	S-11	SS	5-6- 6-5	DK gry silty CLAY to Lt. gry M-F SAND, little (+) Silt fining to F-M SAND, some (+) Silt 23.0'	
	S-12	SS	5-7- 9-11		
25	S-13	SS	5-8- 12-11	GLACIAL TILL RED-Brn M-F SAND, little (+) Silt grading to Red-Brn CLAY and SILT, little (-) f-m-c Gravel, little f Sand 32.0'	
	S-14	SS	3-6- 6-10		
30	S-15	SS	10-10- 10-9		
	S-16	SS	3-7- 9-12		
35	S-17	SS	12-23- 33-34	BRUNSWICK FM. (Residual Soil) RED-Brn Clayey SILT, some (+) m-f Gravel	
	S-18	SS	6-27- 33-25		
	S-19	SS	13-26- 40-43		
40	S-20	SS	13-26 51/1"		Bedding plane and shale partings observed.

AWARE INCORPORATED

TEST BORING LOG

NO. GAF-9D

PROJECT: GAF-LINDEN
CLIENT: GAF CHEMICALS CORP

SHEET NO. 2 of 2
PROJECT NO. 6106

WELL CONSTRUCTION	DEPTH (FEET)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	
	40	S-21	SS	34-51/5"	BRUNSWICK FORMATION (Residual Soil)		
		S-22	SS	21-26-33-35			
	45	S-23	SS	18-26-33-39			
		S-24	SS	25-51/4"			
		S-25	SS	17-51/2"	50.0'		
	50	S-26	SS	51/1"	(Competent Bedrock)		
		S-27	SS	51/1"	Moderate to Dark reddish-brown Siltstone w/ subordinate silty Shale, slabby parting traces of greenish alteration		
	55	CORE-158 Box 5	NX CORE		possible bioturbation 57.9'	2 partings or 10° fractures w/ possible mvmt	62%
	60				Diagenetic compaction and dewatering structures 58-63.0'	50° fracture 2-10° fracture	
					END OF BORING 63.0'	2-15° fractures 3° fracture	83%
	65						
	70						
	75						
	80						
	85						
	90						

AWARE INCORPORATED

TEST BORING LOG

NO. GAF-105

PROJECT: GAF-LINDEN
CLIENT: GAF CHEMICALS CORP

SHEET NO. 1 of 1
PROJECT NO. 6106

DRILLING DATA	
CONTRACTOR:	HARDIN-HUBER
DRILLER:	KEVIN HUBER
EQUIPMENT:	B-61 AUGER RIG
METHOD:	HOLLOW STEM AUGER

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split Spoon		
DIAMETER	2"		
OTHER	140#/30" drop		

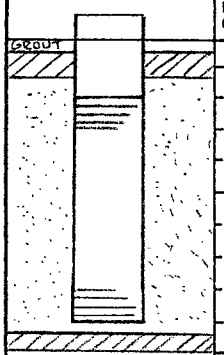
WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	PVC	PVC
DIAMETER	4"	4"
COUPLING	Flush Threaded	Flush Threaded

WELL DEVELOPMENT	
METHOD:	AIRLIFTING
DURATION:	1 HR.
YIELD:	fast
OTHER:	clean

	GROUND	WELL	PROT CSG.
ELEV	6.0	9.0	

DATE STARTED: 4-19-88
DATE COMPLETED: 4-19-88
INSPECTOR: MJ SCHNEIDER

WELL CONSTRUCTION



DEPTH (FEET)	SAMPLE NO.	TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS
0	S-1	SS	1-3- 11-10	**FILL** MED Brn C-M SAND to Black Heterogeneous FILL; BRICK AND COAL Fragments 5.0'	SATURATED @ 4.0
	S-2	SS	3-3- 3-3		
5	S-3	SS	1-1- 1-1		STRONG H_2S ODOR
	S-4	SS	1/12"- 1-2		
	S-5	SS	1-1- 1/12"	**TIDAL MARSH DEPOSIT** MED-DK Brn FIBROUS PEAT Grading to Black PEAT w/ Some CLAY 9.5'	VANE SHEAR TEST @ 9.0 ft. in adjacent boring
10				Green-black CLAY w/ decomposed SHELL fragment 10.0'	
15					
20				END OF BORING	
25					
30					
35					
40					

AWARE INCORPORATED

TEST BORING LOG

NO. GAF-10D

PROJECT: GAF-LINDEN
CLIENT: GAF CHEMICAL CORP

SHEET NO. 1 of 2
PROJECT NO. 6106

DRILLING DATA	
CONTRACTOR:	HARDIN-HUBER
DRILLER:	KEVIN HUBER
EQUIPMENT:	B-61 AUGER RIG
METHOD:	HOLLOW STEM AUGER/HYDRAULIC ROTARY

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	split spoon	Shelby tube	NX
DIAMETER	2"	3"	2 15/16"
OTHER	140#/30"d-∞	pushed	

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	PVC	PVC
DIAMETER	4"	4"
COUPLING	Flush Threaded	Flush Threaded

WELL DEVELOPMENT
METHOD: AIRLIFTING
DURATION: 1.0 HR
YIELD: slow
OTHER: clear

	GROUND	WELL	PROT CSG
ELEV	5.9	7.79	

DATE STARTED: 5-2-88
DATE COMPLETED: 5-24-88
INSPECTOR: M.J. SCHNEIDER

WELL CONSTRUCTION: GROUT; PVC CASING; GROUT; STEEL CASING; STEEL CASING

DEPTH (FEET)	SAMPLE NO.	TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS
0					
5					
10	S-6	SS	1/12"-2-2	TIDAL MARSH DEPOSIT Blk-gry CLAY w/ some organics, wood and peat to Blk organic SILT and CLAY 13.0'	VANE SHEAR TEST @ 9.0 ft, in adjacent boring Strong H_2S odor
	S-7	SS	1/12"-1-2		
15	S-8	SS	WH/6"-2 6-9		
	S-9	SS	WH/6"-2- 3-6	Gry-green clayey SILT grading to Gry-grn CLAY and SILT w/ Brn mottling 15.5'	SHELBY TUBE pushed 15.0-17.0 ft
20	S-10	SS	3-6- 7-10		
	S-11	SS	8-8- 6-5	GLACIAL TILL MED Brn F-M SAND, some Silt to M-C-F SAND, some (-) rounded Gravel	
	S-12	SS	4-4- 3-3		
25	S-13	SS	6-6- 8-8		
	S-14	SS	5-5- 8-12	RED-BRN clayey SILT w/ little (-) f sand, well sorted, massive	
	S-15	SS	5-6- 8-10		
30	S-16	SS	5-4- 11-13		
	S-17	SS	4-8- 12-17		
35	S-18	SS	8-8- 11-12	RED-BRN clayey SILT, tr (-) m-f Gravel	
	S-19	SS	5-7- 8-7	38.0'	
40	S-20	SS	4-9- 19-19	BRUNSWICK FM (Residual Soil)	

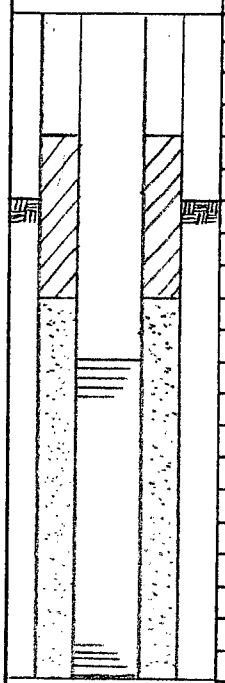
AWARE INCORPORATED

TEST BORING LOG

NO. GAF-10D

PROJECT: GAF LINDEN
CLIENT: GAF CHEMICALS CORP

SHEET NO. 2 of 2
PROJECT NO. 6106



DEPTH (FEET)	SAMPLE NO.	TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	
40	S-21	SS	7-14-28-26	(Residual Soil)		
	S-22	SS	9-13-18-18	RED-BRN clayey SILT w/ Some (+) C-M-F Gravel.		
45	S-23	SS	9-11-18-5 1/4"	46.0		
	S-24	SS	5 1/2"	(Competent Bedrock)		
50	CORE-154 BOX #1	NX CORE		Predominantly dark reddish-brown SHALE w/ occasional zones of silty SHALE, greenish-gray alteration on fractures, slabby parting	10° fracture, possible movement	41%
				Possible diagenetic dewatering structure (@ 46.3')	45° fracture	Poor REC
55				Soft sediment deformation 54.0-55.0'	10° fracture, possible movement 2-10° fractures	60%
				Isolated spherulites 58.5-59.5'	15° fracture 2-15° fractures	
60				END OF BORING 61.0	vertical joint 59.5-61.0	24%
65						
70						
75						
80						
85						
90						

AWARE INCORPORATED

TEST BORING LOG

NO. GAF-13S

PROJECT: GAF-LINDEN
CLIENT: GAF CHEMICAL CORP

SHEET NO. 1 of 1
PROJECT NO. 6106

DRILLING DATA	
CONTRACTOR:	HARDIN-HUBER
DRILLER:	KEVIN HUBER
EQUIPMENT:	B-61 AUGER RIG
METHOD:	HOLLOW STEM AUGER

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	split spoon		
DIAMETER	2"		
OTHER	140#/30" drop		

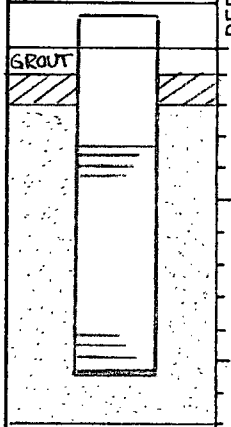
WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	PVC	PVC
DIAMETER	4"	4"
COUPLING	Flush Threaded	Flush Threaded

WELL DEVELOPMENT	
METHOD:	AIRLIFTING
DURATION:	1.0 HR
YIELD:	fast
OTHER:	clear

	GROUND	WELL	PROT CSG.
ELEV	8.8	12.08	

DATE STARTED: 4-21-88
DATE COMPLETED: 4-21-88
INSPECTOR: MJSCHNEIDER

WELL CONSTRUCTION



DEPTH (FEET)	SAMPLE NO.	TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS
0	S-1	SS	3-7-9-9	FILL Brown-red silty CLAY, some Gravel to Black-gray silty CLAY	
	S-2	SS	3-5-7-7		
5	S-3	SS	4-5-5-4		
	S-4	SS	1-2-3-2	Brown-RED m-f SAND, little Silt 9.5'	
	S-5	SS	1-3-3-3		
10	S-6	SS	1-1-1-3	TIDAL MARSH DEPOSIT MED DK Brn PEAT w/ some (+) BLK silty CLAY to DK-gry-blk silty CLAY 12.0'	WELL INSTALLATION: Collapse of Natural material 10.5-12.0' VANE SHEAR TEST @ 10.0 ft. in adjacent boring
15					
20					
25					
30					
35					
40					

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AWARE INCORPORATED

TEST BORING LOG

NO. GAF-13D

PROJECT: GAF-LINDEN
CLIENT: GAF CHEMICALS CORP.

SHEET NO. 1 of 2
PROJECT NO. 61016

DRILLING DATA	
CONTRACTOR:	HARDIN-HUBER
DRILLER:	NATE LAZARO
EQUIPMENT:	B-80 MOBILE DRILL
METHOD:	HOLLOW STEM AUGER / HYDRAULIC ROTARY

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	split spoon	shelby tube	NX
DIAMETER	2"	3"	2 15/16"
OTHER	140# / 30" drop	pushed	

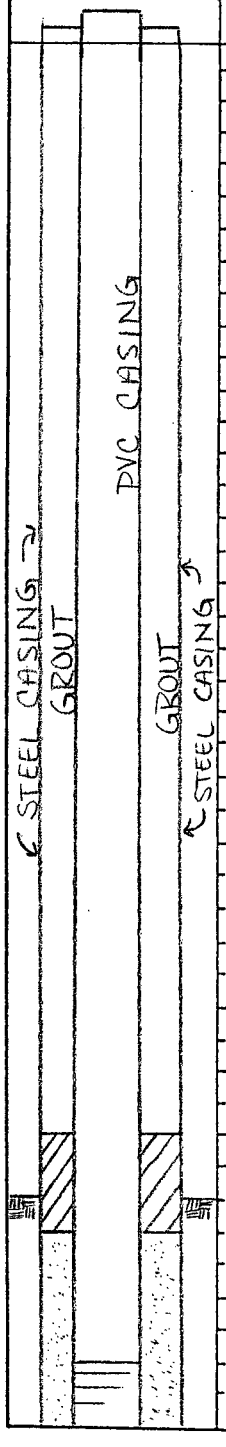
WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	PVC	PVC
DIAMETER	4"	4"
COUPLING	Flush Threaded	Flush Threaded

WELL DEVELOPMENT	
METHOD:	AIRLIFTING
DURATION:	1.0 HR.
YIELD:	moderate
OTHER:	red-silty

	GROUND	WELL	PROT CSG
ELEV	8.6	10.65	

DATE STARTED: 5-12-88
DATE COMPLETED: 5-19-88
INSPECTOR: MJ SCHNEIDER

WELL CONSTRUCTION



DEPTH (FEET)	SAMPLE NO.	TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	
0						
5						
10				12'	VANE SHEAR TEST @ 10.0 ft in adjacent boring	
	S-7	SS	3-7-7-7	GLACIAL TILL		
15	S-8	SS	4-6-6-8	GRY-BRN Clayey SILT, trace f Sand, WELL sorted	SHELBY TUBES pushed 10.0-12.0 ft and 14.0-16.0 ft in adjacent boring	
	S-9	SS	9-11-13-13			
20	S-10	SS	8-11-13-13	RED-BRN Clayey SILT w/ trace f-M Gravel, WELL SORTED		
	S-11	SS	3-5-5-7	22.0'		
	S-12	SS	5-8-14-14	BRUNSWICK FORMATION (Residual Soil)		
25	S-13	SS	10-14-18-20	RED-BRN Clayey SILT w/ trace (-) f Gravel	Bedding plane and partings observed.	
	S-14	SS	8-16-23-45			
	S-15	SS	25-44-20-16			
30	S-16	SS	5-9-11-13	RED-BRN WEATHERED ROCK w/ green mineralization		
	S-17	SS	23-35-38-51			
35	S-18	SS	12-51/5"			
				36.5'		
	S-19	SS	43-51/.5"	(Competent Bedrock)		poor rec.
40	CORE-157 BOX #4	NX CORE		MODERATE REDDISH-BROWN (10R 4/6) to DK REDDISH BROWN (10R 3/4) SHALE AND SILTY SHALE	60° Fracture Vertical joint 38.7-41.0 2-55° fractures CLUSTERS OF 1CM PORES	29%

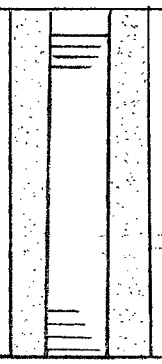
AWARE INCORPORATED

TEST BORING LOG

NO. GAF-13D

PROJECT: GAF-LINDEN
CLIENT: GAF CHEMICALS CORP.

SHEET NO. 2 of 2
PROJECT NO. 6106

WELL CONSTRUCTION	DEPTH (FEET)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	
	40	CORE-157-Box #4	NX CORE		Reddish brown SHALE and silty SHALE slabby parting (2-50 cm) along bed. planes w/ lt. greenish-gray (5 GY 8/1), slightly calcareous alterations along fractures & partings	50° fracture 15° fracture vertical joint	29%
	45				Predominantly plane-parallel bedding disrupted 46.6-47.0 by diagenetic compaction and dewatering structures	40° fracture vertical joint 49.6-50.6	14%
	50				END OF BORING		
	55						
	60						
	65						
	70						
	75						
	80						
	85						
	90						

AWARE INCORPORATED

TEST BORING LOG

NO. GAF-14S

PROJECT: GAF-LINDEN
CLIENT: GAF CHEMICALS CORP

SHEET NO. 1 of 1
PROJECT NO. 6106

DRILLING DATA	
CONTRACTOR:	HARDIN-HUBER
DRILLER:	KEVIN HUBER
EQUIPMENT:	B-61 Auger Rig
METHOD:	HOLLOW STEM AUGER

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split spoon		
DIAMETER	2"		
OTHER	140#/30" drop		

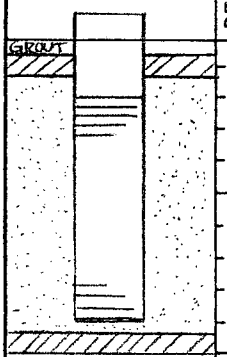
WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	PVC	PVC
DIAMETER	4"	4"
COUPLING	Flush Threaded	Flush Threaded

WELL DEVELOPMENT	
METHOD:	AIRLIFTING
DURATION:	1.0 HR
YIELD:	fast
OTHER:	Clean

	GROUND	WELL	PROT CSG
ELEV	9.0	11.84	

DATE STARTED: 4-20-88
DATE COMPLETED: 4-20-88
INSPECTOR: MJ SCHNEIDER

WELL CONSTRUCTION



DEPTH (FEET)	SAMPLE NO.	TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS
0	S-1	SS	8-9-9-11	FILL RED-BRN C-M SAND to MED BRN f-m SAND, little (+) $, some brick pieces	
	S-2	SS	6-5-6-6		
5	S-3	SS	2-2-3-4	MED BRN clayey SILT w/ orange-brown and white laminae	VERY WET @ 6.0'
	S-4	SS	1-1-1-2	REDDISH silty CLAY w/ some Gravel 8.5'	
	S-5	SS	1-1-1-1		
10				TIDAL MARSH DEPOSIT Green-brown CLAY w/ Some (+) PEAT 10.0'	FAINT H_2S ODOR @ 10.0'
15					
20				END OF BORING	
25					
30					
35					
40					

Rev 9/20/88

AWARE INCORPORATED

TEST BORING LOG

NO. GAF-14D

PROJECT: GAF-LINDEN	SHEET NO. 1 of 2
CLIENT: GAF CHEMICALS CORP	PROJECT NO. 6106

DRILLING DATA

CONTRACTOR:	HARDIN-HUBER
DRILLER:	KEVIN HUBER
EQUIPMENT:	B-61 AUGER RIG
METHOD:	HOLLOW STEM AUGER/HYDRAULIC ROTARY

SAMPLING METHODS

	SAMPLER	TUBE	CORE
TYPE	split spoon	Shelby tube	NX
DIAMETER	2"	3"	2 15/16"
OTHER	140#/30" drop	pushed	

WELL CONSTRUCTION

	RISER	INTAKE
MATERIAL	PVC	PVC
DIAMETER	4"	4"
COUPLING	Flush Threaded	Flush Threaded

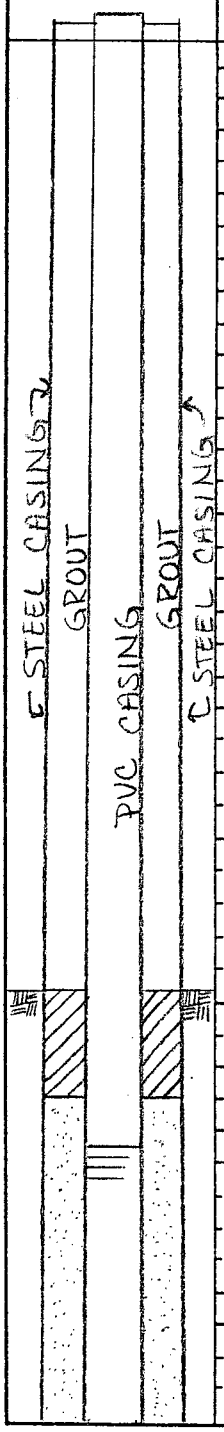
WELL DEVELOPMENT

METHOD:	AIRLIFTING
DURATION:	1.0 HR
YIELD:	moderate
OTHER:	clean

	GROUND	WELL	PROT CSG
ELEV	7.0	9.15	

DATE STARTED: 5-4-88
DATE COMPLETED: 5-17-88
INSPECTOR: MJ SCHNEIDER

WELL CONSTRUCTION



DEPTH (FEET)	SAMPLE NO.	TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	
0	S-1	SS	1-1-1-1	**FILL** Lt. tan M-F-C SAND, tr(+) Silt w/ white silty CLAY stringers Red-Black silty CLAY w/ some brick fragments, black staining 6.0'		
	S-2	SS	1-1-1-1			
5	S-3	SS	2-3-4-3			
	S-4	SS	1/24"	**TIDAL MARSH DEPOSIT** Black, compacted PEAT w/ little (+) Clay to Black, organic clayey SILT to Black SILT & CLAY 12.0'		
	S-5	SS	1/24"			
10	S-6	SS	1/12-2-3		VANE SHEAR TEST @ 10.0 ft. in adjacent boring	
	S-7	SS	3-7-9-10	Stratified Blue-gray SILT grading to interbedded SILT and CLAY, tr(+) f SAND and SILT 15.5'		
15	S-8	SS	2-3-3-4			
	S-9	SS	2-3-5-5	**GLACIAL TILL** RED-BRN CLAY & SILT, little (-) f-m-c Sand, little f-m Gravel	SHELBY TUBE pushed 17.0-19.0 ft. in adjacent boring	
	S-10	SS	5-5-8-8			
20	S-11	SS	5-8-18-22	RED-BRN clayey SILT, little f Gravel, massive, well sorted		
	S-12	SS	10-16-16-23			
25	S-13	SS	10-23-28-31	25.0'		
	S-14	SS	29-51/5"	**BRUNSWICK FORMATION** (Residual Soil) RED-BRN clayey SILT to RED-BRN SILT w/ some (+) SHALE pcs. 30.0'	Evidence of bedding plane and partings in shale.	
	S-15	SS	51/6"			
30	S-16	SS	51/6"	(Competent Bedrock) Moderate reddish-brown to dark reddish-brown SHALE and Silty SHALE (rarely micaceous) w/ lt. greenish-gray alteration and dark yellowish-orange (limonite?) coating along partings and fractures slabby parting	3-45° fractures	
35	CORE-156 BOX #3	NX CORE			45° fracture 60° fracture	62%
					vertical joints and fractures - parallel high angle fractures cross-cutting fractures	60%
40					2-45° fractures (mumt?) 45° fractures, brecciated	60%

Rev 9/29/88

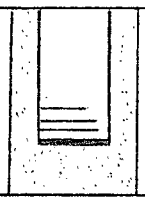
AWARE INCORPORATED

TEST BORING LOG

NO. GAF-14D

PROJECT: GAF-LINDEN
CLIENT: GAF CHEMICALS CORP.

SHEET NO. 2 of 2
PROJECT NO. 6106

WELL CONSTRUCTION	DEPTH (FEET)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS	
	40	CORE-156	NX CORE		SHALE and SILTY SHALE, as above 5mm spherulites 43.0-44.0 END OF BORING 46.0'	WELL INSTALLATION: Natural Collapse of Material 44.5 to 46.0' 60° fractures @ 43.0', 43.4	60%
	45						
	50						
	55						
	60						
	65						
	70						
	75						
	80						
	85						
	90						

AWARE INCORPORATED

TEST BORING LOG

NO. GAF-15D

PROJECT: NJHWFSC Study
CLIENT: GAF Chemicals Corp.

SHEET NO. 1 **of** 2
PROJECT NO. 6429

DRILLING DATA	
CONTRACTOR:	Empire Soils
DRILLER:	R, Gurcznsa
EQUIPMENT:	Midway GF-15
METHOD:	Mud/Air Rotary

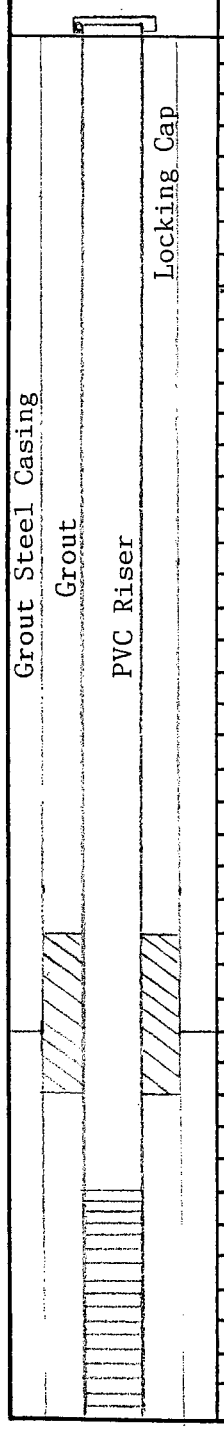
SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE	Split Spoon		
DIAMETER	2 inch		
OTHER			

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	PVC	PVC
DIAMETER	4 inch	4 inch
COUPLING	Flush	Flush

WELL DEVELOPMENT	
METHOD:	Air
DURATION:	1 hour
YIELD:	≈ ½ gpm
OTHER:	

	GROUND	WELL	PROT CSG
ELEV	8.0		9.96

DATE STARTED: 2/22/89
DATE COMPLETED: 2/24/89
INSPECTOR: S. Kawchak



DEPTH (FEET)	SAMPLE NO.	TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS
0			Dug-24	FILL Red Silt & Clay trace f-m Gravel (Brunswick derived till)	
	S-1	SS	26-28		
	S-2	SS	13-80		
			24-29		
5	S-3	SS	13-7		
			5-5	6'	6'
			5-4	TIDAL MARSH DEPOSITS Black PEAT, little organic clay & silt 2" Black PEAT, grading into m Gray organic silty CLAY, occ. shell fragments, micaceous.	Blue Peat
	S-4	SS	3-3		
			2-2	As Above grading to f-m SAND, some(-) Silt & Clay occ. Peat and organic matter	8'2"
	S-5	SS	1-2		
10			3-6		
	S-6	SS	14-14	12'	
			12-14	GLACIAL TILL lt Gr and red brn mottled SILT & CLAY and f SAND, jointed grading to Red brn clayey silt, some f Sand 14'	
	S-7	SS	9-6		
15	S-8	SS	4-7	Drk Brn f. SAND with Silt & Clay slightly Stratified ~16'	
			8-6		
	S-9	SS		Red brn m-f Clay & Silt, little to trace f-c Sand. little f-c subangular Gravel (predom red Shale occ. basalt. 20'	
	S-10	SS	2-5		
20			7-17	Red brn m-f-Coarse SAND, little (+) Silt & Clay, slight Stratification ± 22'	
	S-11	SS	21-16		
			21-21		
	S-12	SS	10-5	Red-brn CLAY & SILT little f-C Sand, little f-m gravel (predom red brn shale, occ. sub-angular basalt, poorly sorted)	
			8-7		
25	S-13	SS	13-20		
			16-55	26.4'	
	S-14	SS	79-94		
			34-100/5	BRUNSWICK FORMATION (WEATHERED ROCK) Red-brn Clayey SILT and GRAVEL relic rock fabric ±29'	
30				(COMPETENT BEDROCK) Red brown SILTSTONE + SHALE	
35					
40					

AWARE INCORPORATED

TEST BORING LOG

NO. GAF-15D

PROJECT: NJHWFSC Study

CLIENT: GAF Chemicals Corp.

SHEET NO. 2 of 2

PROJECT NO. 6429

WELL CONSTRUCTION	DEPTH (FEET)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS
	40				(COMPETENT BEDROCK CONTINUED)	
	45				Ending of Boring 46'	
	50					
	55					
	60					
	65					
	70					
	75					
	80					
	85					
	90					

AWARE INCORPORATED

TEST BORING LOG

NO. GAF 15-S

PROJECT: NJHWFSC Study
CLIENT: GAF Chemicals Corp

SHEET NO. 1 of 1
PROJECT NO. 6429

DRILLING DATA	
CONTRACTOR:	Empire Soils
DRILLER:	R. Gurcznsa
EQUIPMENT:	Midway GF-15
METHOD:	Air Rotary

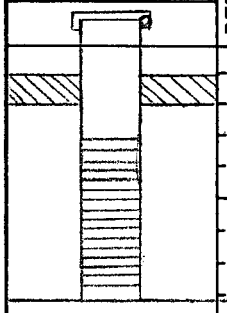
SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE			
DIAMETER			
OTHER			

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	PVC	PVC
DIAMETER	4 inch	4 inch
COUPLING	Flush	Flush

WELL DEVELOPMENT	
METHOD:	Air
DURATION:	1 hour
YIELD:	1/2 gpm
OTHER:	

	GROUND	WELL	PROT CSG
ELEV	8.0		10.05

DATE STARTED: 2/23/89
DATE COMPLETED: 2/23/89
INSPECTOR: S. Kawchak

WELL CONSTRUCTION	DEPTH (FEET)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS
	0				See GAF 15-D for lithology	
	5					
					End of Boring 8.0'	
	10					
	15					
	20					
	25					
	30					
	35					
	40					

AWARE INCORPORATED

TEST BORING LOG

NO. WP-1

PROJECT: GAF-LINDEN
CLIENT: GAF CHEMICALS CORP.

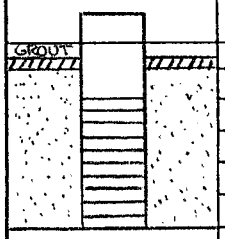
SHEET NO. 1 of 1
PROJECT NO. 6106

DRILLING DATA	
CONTRACTOR:	HARDIN HUBER
DRILLER:	KEVIN HUBER
EQUIPMENT:	B-61 MOBILE RIG
METHOD:	HOLLOW STEM AUGER

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE			
DIAMETER			
OTHER			

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	PVC	PVC
DIAMETER	1 1/4"	1 1/4"
COUPLING	FLUSH THREADED	FLUSH THREADED

WELL DEVELOPMENT		GROUND	WELL	PROT CSG.
METHOD:	ELEV			
DURATION:	DATE STARTED: 4-21-88			
YIELD:	DATE COMPLETED: 4-21-88			
OTHER:	INSPECTOR: MJ SCHNEIDER			

WELL CONSTRUCTION	DEPTH (FEET)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS
	0					
	5					
	10					
	15					
	20					
	25					
	30					
	35					
	40					

AWARE INCORPORATED

TEST BORING LOG

NO. WP-2

PROJECT: GAF-LINDEN
CLIENT: GAF CHEMICALS CORP.

SHEET NO. 1 of 1
PROJECT NO. 6106

DRILLING DATA	
CONTRACTOR:	HARDIN HUBER
DRILLER:	KEVIN HUBER
EQUIPMENT:	B-61 MOBILE RIG
METHOD:	HOLLOW STEM AUGER

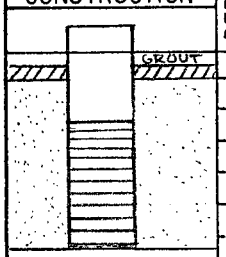
SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE			
DIAMETER			
OTHER			

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	PVC	PVC
DIAMETER	1 1/4"	1 1/4"
COUPLING	FLUSH THREADED	FLUSH THREADED

WELL DEVELOPMENT	
METHOD:	
DURATION:	
YIELD:	
OTHER:	

	GROUND	WELL	PROT CSG.
ELEV			

DATE STARTED: 4-21-88
DATE COMPLETED: 4-21-88
INSPECTOR: MJ SCHNEIDER

WELL CONSTRUCTION	DEPTH (FEET)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS
	0					
	5					
	10					
	15					
	20					
	25					
	30					
	35					
	40					

AWARE INCORPORATED

TEST BORING LOG

NO. WP-3

PROJECT: GAF-LINDEN
CLIENT: GAF CHEMICALS CORP.

SHEET NO. 1 of 1
PROJECT NO. 6106

DRILLING DATA	
CONTRACTOR:	HARDIN-HUBER
DRILLER:	KEVIN HUBER
EQUIPMENT:	B-61 MOBILE RIG
METHOD:	HOLLOW STEM AUGER

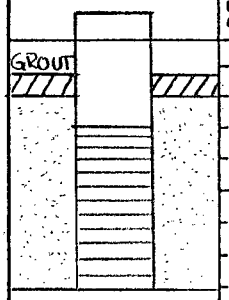
SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE			
DIAMETER			
OTHER			

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	PVC	PVC
DIAMETER	1 1/4"	1 1/4"
COUPLING	FLUSH THREADED	FLUSH THREADED

WELL DEVELOPMENT	
METHOD:	
DURATION:	
YIELD:	
OTHER:	

	GROUND	WELL	PROT CSG.
ELEV			

DATE STARTED: 4-21-88
DATE COMPLETED: 4-21-88
INSPECTOR: MJ SCHNEIDER

WELL CONSTRUCTION	DEPTH (FEET)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS
	0					
	5					
	10					
	15					
	20					
	25					
	30					
	35					
	40					

AWARE INCORPORATED

TEST BORING LOG

NO. WP-4

PROJECT: GAF-LINDEN
CLIENT: GAF CHEMICALS CORP.

SHEET NO. 1 of 1
PROJECT NO. 6106

DRILLING DATA	
CONTRACTOR:	HARDIN-HUBER
DRILLER:	KEVIN HUBER
EQUIPMENT:	B-61 MOBILE RIG
METHOD:	HOLLOW STEM AUGER

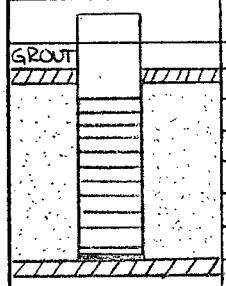
SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE			
DIAMETER			
OTHER			

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	PVC	PVC
DIAMETER	1 1/4"	1 1/4"
COUPLING	FLUSH THREADED	FLUSH THREADED

WELL DEVELOPMENT	
METHOD:	
DURATION:	
YIELD:	
OTHER:	

	GROUND	WELL	PROT CSG
ELEV			

DATE STARTED: 4-21-88
DATE COMPLETED: 4-21-88
INSPECTOR: MJ SCHNEIDER

WELL CONSTRUCTION	DEPTH (FEET)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS
	0					
	5					
	10					
	15					
	20					
	25					
	30					
	35					
	40					

AWARE INCORPORATED

TEST BORING LOG

NO. WP-5

PROJECT: GAF-LINDEN
CLIENT: GAF CHEMICALS CORP.

SHEET NO. 1 of 1
PROJECT NO. 6106

DRILLING DATA	
CONTRACTOR:	HARDIN-HUBER
DRILLER:	KEVIN HUBER
EQUIPMENT:	B-61 MOBILE RIG
METHOD:	HOLLOW STEM AUGER

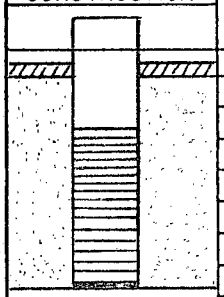
SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE			
DIAMETER			
OTHER			

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	PVC	PVC
DIAMETER	1 1/4"	1 1/4"
COUPLING	FLUSH THREADED	FLUSH THREADED

WELL DEVELOPMENT	
METHOD:	
DURATION:	
YIELD:	
OTHER:	

	GROUND	WELL	PROT CSG.
ELEV			

DATE STARTED: 4-22-88
DATE COMPLETED: 4-22-88
INSPECTOR: MJ SCHNEIDER

WELL CONSTRUCTION	DEPTH (FEET)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS
	0					
	5					
	10					
	15					
	20					
	25					
	30					
	35					
	40					

AWARE INCORPORATED

TEST BORING LOG

NO. WP-6

PROJECT: GAF-LINDEN
CLIENT: GAF CHEMICALS CORP.

SHEET NO. 1 of 1
PROJECT NO. 6106

DRILLING DATA	
CONTRACTOR:	HARDIN-HUBER
DRILLER:	KEVIN HUBER
EQUIPMENT:	B-61 MOBILE RIG
METHOD:	HOLLOW STEM AUGER

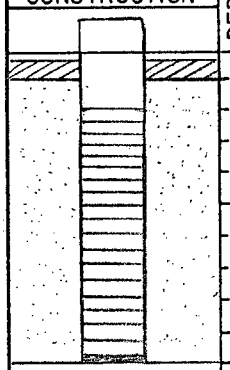
SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE			
DIAMETER			
OTHER			

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	PVC	PVC
DIAMETER	1 1/4"	1 1/4"
COUPLING	FLUSH THREADED	FLUSH THREADED

WELL DEVELOPMENT	
METHOD:	
DURATION:	
YIELD:	
OTHER:	

	GROUND	WELL	PROT CSG.
ELEV			

DATE STARTED: 4-20-88
DATE COMPLETED: 4-20-88
INSPECTOR: MJ SCHNEIDER

WELL CONSTRUCTION	DEPTH (FEET)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS
	0					
	5					
	10					
	15					
	20					
	25					
	30					
	35					
	40					

AWARE INCORPORATED

TEST BORING LOG

NO. WP-7

PROJECT: GAF-LINDEN
CLIENT: GAF CHEMICALS CORP.

SHEET NO. 1 of 1
PROJECT NO. 6106

DRILLING DATA	
CONTRACTOR:	HARDIN-HUBER
DRILLER:	KEVIN HUBER
EQUIPMENT:	B-61 MOBILE RIG
METHOD:	HOLLOW STEM AUGER

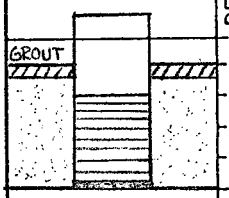
SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE			
DIAMETER			
OTHER			

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	PVC	PVC
DIAMETER	1 1/4"	1 1/4"
COUPLING	FLUSH THREADED	FLUSH THREADED

WELL DEVELOPMENT	
METHOD:	
DURATION:	
YIELD:	
OTHER:	

	GROUND	WELL	PROT CSG
ELEV			

DATE STARTED: 4-21-88
DATE COMPLETED: 4-21-88
INSPECTOR: MJ SCHNEIDER

WELL CONSTRUCTION	DEPTH (FEET)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS
	0					
	5					
	10					
	15					
	20					
	25					
	30					
	35					
	40					

AWARE INCORPORATED

TEST BORING LOG

NO. WP-8

PROJECT: GAF-LINDEN
CLIENT: GAF CHEMICALS CORP.

SHEET NO. 1 of 1
PROJECT NO. 6106

DRILLING DATA	
CONTRACTOR:	HARDIN-HUBER
DRILLER:	KEVIN HUBER
EQUIPMENT:	B-61 MOBILE RIG
METHOD:	HOLLOW STEM AUGER

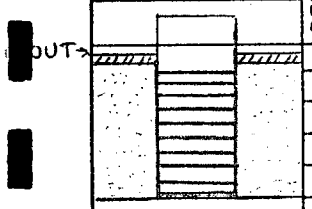
SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE			
DIAMETER			
OTHER			

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	PVC	PVC
DIAMETER	1 1/4"	1 1/4"
COUPLING	FLUSH THREADED	FLUSH THREADED

WELL DEVELOPMENT	
METHOD:	
DURATION:	
YIELD:	
OTHER:	

	GROUND	WELL	PROT CSG.
ELEV			

DATE STARTED: 4-22-88
DATE COMPLETED: 4-22-88
INSPECTOR: MJSCHNEIDER

WELL CONSTRUCTION	DEPTH (FEET)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS
	0					
	5					
	10					
	15					
	20					
	25					
	30					
	35					
	40					

AWARE INCORPORATED

TEST BORING LOG

NO. WP-9

PROJECT: GAF-LINDEN
CLIENT: GAF CHEMICALS CORP.

SHEET NO. 1 of 1
PROJECT NO. 6106

DRILLING DATA	
CONTRACTOR:	HARDIN-HUBER
DRILLER:	KEVIN HUBER
EQUIPMENT:	B-61 MOBILE RIG
METHOD:	HOLLOW STEM AUGER

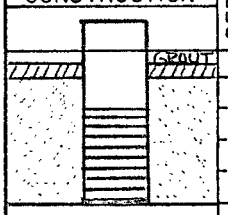
SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE			
DIAMETER			
OTHER			

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	PVC	PVC
DIAMETER	1 1/4"	1 1/4"
COUPLING	FLUSH THREADED	FLUSH THREADED

WELL DEVELOPMENT	
METHOD:	
DURATION:	
YIELD:	
OTHER:	

	GROUND	WELL	PROT CSG.
ELEV			

DATE STARTED: 4-25-88
DATE COMPLETED: 4-25-88
INSPECTOR: MJ SCHNEIDER

WELL CONSTRUCTION	DEPTH (FEET)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS
	0					
	5					
	10					
	15					
	20					
	25					
	30					
	35					
	40					

AWARE INCORPORATED

TEST BORING LOG

NO. WP-10

PROJECT: GAF-LINDEN
CLIENT: GAF CHEMICALS CORP.

SHEET NO. 1 of 1
PROJECT NO. 6106

DRILLING DATA	
CONTRACTOR:	HARDIN-HUBER
DRILLER:	KEVIN HUBER
EQUIPMENT:	B-61 MOBILE RIG
METHOD:	HOLLOW STEM AUGER

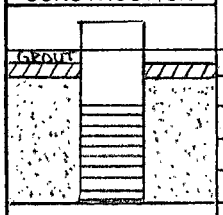
SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE			
DIAMETER			
OTHER			

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	PVC	PVC
DIAMETER	1 1/4"	1 1/4"
COUPLING	FLUSH THREADED	FLUSH THREADED

WELL DEVELOPMENT	
METHOD:	
DURATION:	
YIELD:	
OTHER:	

	GROUND	WELL	PROT CSG.
ELEV			

DATE STARTED: 4-25-88
DATE COMPLETED: 4-25-88
INSPECTOR: MJ SCHNEIDER

WELL CONSTRUCTION	DEPTH (FEET)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS
	0					
	5					
	10					
	15					
	20					
	25					
	30					
	35					
	40					

AWARE INCORPORATED

TEST BORING LOG

NO. WP-11

PROJECT: GAF-LINDEN
CLIENT: GAF CHEMICALS CORP.

SHEET NO. 1 of 1
PROJECT NO. 6106

DRILLING DATA	
CONTRACTOR:	HARDIN-HUBER
DRILLER:	KEVIN HUBER
EQUIPMENT:	B-61 MOBILE RIG
METHOD:	HOLLOW STEM AUGER

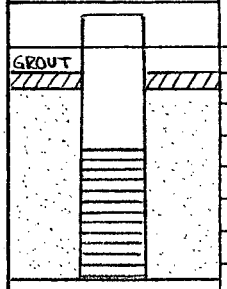
SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE			
DIAMETER			
OTHER			

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	PVC	PVC
DIAMETER	1 1/4"	1 1/4"
COUPLING	FLUSH THREADED	FLUSH THREADED

WELL DEVELOPMENT	
METHOD:	
DURATION:	
YIELD:	
OTHER:	

	GROUND	WELL	PROT CSG
ELEV			

DATE STARTED: 4-25-88
DATE COMPLETED: 4-25-88
INSPECTOR: MJ SCHNEIDER

WELL CONSTRUCTION	DEPTH (FEET)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS
	0					
	5					
	10					
	15					
	20					
	25					
	30					
	35					
	40					

AWARE INCORPORATED

TEST BORING LOG

NO. WP-12

PROJECT: GAF-LINDEN
CLIENT: GAF CHEMICALS CORP.

SHEET NO. 1 of 1
PROJECT NO. 6106

DRILLING DATA	
CONTRACTOR:	HARDIN HUBER
DRILLER:	KEVIN HUBER
EQUIPMENT:	B-61 MOBILE RIG
METHOD:	HOLLOW STEM AUGER

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE			
DIAMETER			
OTHER			

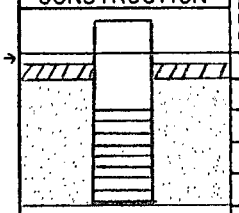
WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	PVC	PVC
DIAMETER	1 1/4"	1 1/4"
COUPLING	FLUSH THREADED	FLUSH THREADED

WELL DEVELOPMENT	
METHOD:	
DURATION:	
YIELD:	
OTHER:	

	GROUND	WELL	PROT CSG.
ELEV			

DATE STARTED: 4-25-88
DATE COMPLETED: 4-25-88
INSPECTOR: MJ SCHNEIDER

WELL CONSTRUCTION



DEPTH (FEET)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS
0					
5					
10					
15					
20					
25					
30					
35					
40					

AWARE INCORPORATED

TEST BORING LOG

NO. WP-13

PROJECT: GAF-LINDEN
CLIENT: GAF CHEMICALS CORP.

SHEET NO. 1 of 1
PROJECT NO. 6106

DRILLING DATA	
CONTRACTOR:	HARDIN-HUBER
DRILLER:	KEVIN HUBER
EQUIPMENT:	B-61 MOBILE RIG
METHOD:	HOLLOW STEM AUGER

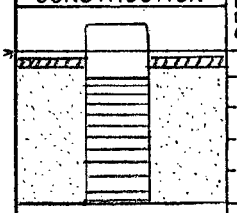
SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE			
DIAMETER			
OTHER			

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	PVC	PVC
DIAMETER	1 1/4"	1 1/4"
COUPLING	FLUSH THREADED	FLUSH THREADED

WELL DEVELOPMENT	
METHOD:	
DURATION:	
YIELD:	
OTHER:	

	GROUND	WELL	PROT CSG.
ELEV			

DATE STARTED: 4-25-88
DATE COMPLETED: 4-25-88
INSPECTOR: MJ SCHNEIDER

WELL CONSTRUCTION	DEPTH (FEET)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS
	0					
	5					
	10					
	15					
	20					
	25					
	30					
	35					
	40					

AWARE INCORPORATED

TEST BORING LOG

NO. WP-14

PROJECT: GAF-LINDEN
CLIENT: GAF CHEMICALS CORP.

SHEET NO. 1 of 1
PROJECT NO. 6106

DRILLING DATA	
CONTRACTOR:	HARDIN-HUBER
DRILLER:	KEVIN HUBER
EQUIPMENT:	B-61 MOBILE RIG
METHOD:	HOLLOW STEM AUGER

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE			
DIAMETER			
OTHER			

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	PVC	PVC
DIAMETER	1 1/4"	1 1/4"
COUPLING	FLUSH THREADED	FLUSH THREADED

WELL DEVELOPMENT	
METHOD:	
DURATION:	
YIELD:	
OTHER:	

	GROUND	WELL	PROT CSG.
ELEV			

DATE STARTED: 4-25-88
DATE COMPLETED: 4-25-88
INSPECTOR: MJ SCHNEIDER

WELL CONSTRUCTION	DEPTH (FEET)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS
GROUT → COLLAPSE OF NATURAL MATERIAL	0					
	5					
	10					
	15					
	20					
	25					
	30					
	35					
	40					

AWARE INCORPORATED

TEST BORING LOG

NO. WP-15

PROJECT: GAF-LINDEN
CLIENT: GAF CHEMICALS CORP.

SHEET NO. 1 of 1
PROJECT NO. 6106

DRILLING DATA	
CONTRACTOR:	HARDIN-HUBER
DRILLER:	KEVIN HUBER
EQUIPMENT:	B-61 MOBILE RIG
METHOD:	HOLLOW STEM AUGER

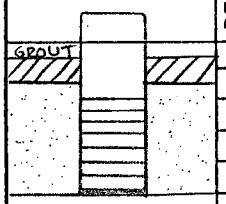
SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE			
DIAMETER			
OTHER			

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	PVC	PVC
DIAMETER	1 1/4"	1 1/4"
COUPLING	FLUSH THREADED	FLUSH THREADED

WELL DEVELOPMENT	
METHOD:	
DURATION:	
YIELD:	
OTHER:	

	GROUND	WELL	PROT CSG.
ELEV			

DATE STARTED: 4-25-88
DATE COMPLETED: 4-25-88
INSPECTOR: MJ SCHNEIDER

WELL CONSTRUCTION	DEPTH (FEET)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS
	0					
	5					
	10					
	15					
	20					
	25					
	30					
	35					
	40					

AWARE INCORPORATED

TEST BORING LOG

NO. WP-16

PROJECT: GAF-LINDEN
CLIENT: GAF CHEMICALS CORP.

SHEET NO. 1 of 1
PROJECT NO. 6106

DRILLING DATA	
CONTRACTOR:	HARDIN-HUBER
DRILLER:	KEVIN HUBER
EQUIPMENT:	B-61 MOBILE RIG
METHOD:	HOLLOW STEM AUGER

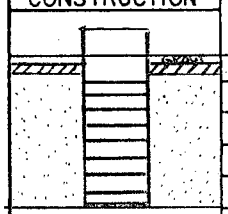
SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE			
DIAMETER			
OTHER			

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	PVC	PVC
DIAMETER	1 1/4"	1 1/4"
COUPLING	FLUSH THREADED	FLUSH THREADED

WELL DEVELOPMENT	
METHOD:	
DURATION:	
YIELD:	
OTHER:	

	GROUND	WELL	PROT CSG.
ELEV			

DATE STARTED: 4-25-88
DATE COMPLETED: 4-25-88
INSPECTOR: MJ SCHNEIDER

WELL CONSTRUCTION	DEPTH (FEET)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS
	0					
	5					
	10					
	15					
	20					
	25					
	30					
	35					
	40					

AWARE INCORPORATED

TEST BORING LOG

NO. WP-17S

PROJECT: GAF-LINDEN
CLIENT: GAF CHEMICALS CORPORATION

SHEET NO. 1 of 1
PROJECT NO. 6106

DRILLING DATA	
CONTRACTOR:	HARDIN-HUBER INC.
DRILLER:	KEVIN HUBER
EQUIPMENT:	B-61 MOBILE DRILL RIG
METHOD:	HOLLOW STEM AUGER

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE			
DIAMETER			
OTHER			

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	PVC	PVC
DIAMETER	1 1/4"	1 1/4"
COUPLING	PVC coupling	PVC coupling

WELL DEVELOPMENT	
METHOD:	
DURATION:	
YIELD:	
OTHER:	

	GROUND	WELL	PROT CSG
ELEV:		8.58	

DATE STARTED: 7-29-88
DATE COMPLETED: 7-29-88
INSPECTOR: MJSCHNEIDER

WELL CONSTRUCTION	DEPTH (FEET)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS
CEMENT GROUT	0					
	5					
	10					
	15					
	20					
	25					
	30					
	35					
	40					

AWARE INCORPORATED

TEST BORING LOG

NO. WP-17D

PROJECT: GAF-LINDEN
CLIENT: GAF CHEMICALS CORPORATION

SHEET NO. 1 of 1
PROJECT NO. 6106

DRILLING DATA	
CONTRACTOR:	HARDIN-HUBER INC.
DRILLER:	KEVIN HUBER
EQUIPMENT:	B-61 MOBILE DRILL RIG
METHOD:	HOLLOW STEM AUGER

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE			
DIAMETER			
OTHER			

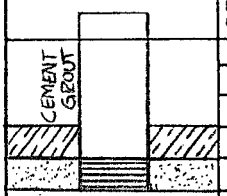
WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	PVC	PVC
DIAMETER	1 1/4"	1 1/4"
COUPLING	PVC coupling	PVC coupling

WELL DEVELOPMENT	
METHOD:	
DURATION:	
YIELD:	
OTHER:	

	GROUND	WELL	PROT CSG
ELEV		8.84	

DATE STARTED: 7-29-88
DATE COMPLETED: 7-29-88
INSPECTOR: MJ SCHNEIDER

WELL CONSTRUCTION



DEPTH (FEET)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS
0				FILL	
				± 5.0	
5	S-1	SS		TIDAL MARSH DEPOSIT	
				7.0	
10					
15					
20					
25					
30					
35					
40					

AWARE INCORPORATED

TEST BORING LOG

NO. WP-18S

PROJECT: GAF-LINDEN	SHEET NO. 1 of 1
CLIENT: GAF CHEMICALS CORPORATION	PROJECT NO. 6106

DRILLING DATA	
CONTRACTOR: HARDIN-HUBER INC.	
DRILLER: KEVIN HUBER	
EQUIPMENT: B-61 MOBILE DRILL RIG	
METHOD: HOLLOW STEM AUGER	

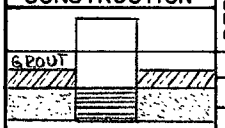
SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE			
DIAMETER			
OTHER			

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	PVC	PVC
DIAMETER	1 1/4"	1 1/4"
COUPLING	PVC coupling	PVC coupling

WELL DEVELOPMENT	
METHOD:	
DURATION:	
YIELD:	
OTHER:	

	GROUND	WELL	PROT CSG.
ELEV		8.69	

DATE STARTED: 7-28-88
DATE COMPLETED: 7-28-88
INSPECTOR: MJ SCHNEIDER

WELL CONSTRUCTION	DEPTH (FEET)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS
	0					
	5					
	10					
	15					
	20					
	25					
	30					
	35					
	40					

AWARE INCORPORATED

TEST BORING LOG

NO. WP-18D

PROJECT: GAF-LINDEN
CLIENT: GAF CHEMICALS CORP.

SHEET NO. 1 of 1
PROJECT NO. 6106

DRILLING DATA	
CONTRACTOR:	HARDIN-HUBER INC.
DRILLER:	KEVIN HUBER
EQUIPMENT:	B-61 MOBILE DRILL RIG
METHOD:	HOLLOW STEM AUGER

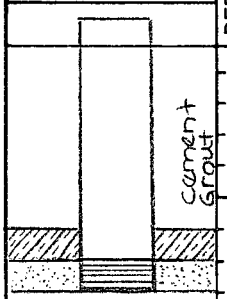
SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE			
DIAMETER			
OTHER			

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	PVC	PVC
DIAMETER	1 1/4"	1 1/4"
COUPLING	PVC coupling	PVC coupling

WELL DEVELOPMENT	
METHOD:	
DURATION:	
YIELD:	
OTHER:	

	GROUND	WELL	PROT CSG
ELEV		9.12	

DATE STARTED: 7-28-88
DATE COMPLETED: 7-28-88
INSPECTOR: MJ. SCHNEIDER

WELL CONSTRUCTION	DEPTH (FEET)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS
	0				FILL	
	5				± 8.0	
		S-1	SS		TIDAL MARSH DEPOSIT	
	10				10.0	
	15					
	20					
	25					
	30					
	35					
	40					

AWARE INCORPORATED

TEST BORING LOG

NO. WP-19S

PROJECT: GAF-LINDEN
CLIENT: GAF CHEMICALS CORPORATION

SHEET NO. 1 of 1
PROJECT NO. 6106

DRILLING DATA	
CONTRACTOR:	HARDIN-HUBER INC.
DRILLER:	KEVIN HUBER
EQUIPMENT:	B-61 MOBILE DRILL RIG
METHOD:	HOLLOW STEM AUGER

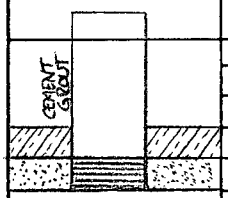
SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE			
DIAMETER			
OTHER			

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	PVC	PVC
DIAMETER	1 1/4"	1 1/4"
COUPLING	PVC coupling	PVC coupling

WELL DEVELOPMENT	
METHOD:	
DURATION:	
YIELD:	
OTHER:	

	GROUND	WELL	PROT CSG
ELEV		9.29	

DATE STARTED: 7-29-88
DATE COMPLETED: 7-29-88
INSPECTOR: MJ SCHNEIDER

WELL CONSTRUCTION	DEPTH (FEET)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS
	0					
	5					
	10					
	15					
	20					
	25					
	30					
	35					
	40					

AWARE INCORPORATED

TEST BORING LOG

NO. WP-19D

PROJECT: GAF-LINDEN
CLIENT: GAF CHEMICALS CORPORATION

SHEET NO. 1 of 1
PROJECT NO. 6106

DRILLING DATA	
CONTRACTOR:	HARDIN-HUBER INC.
DRILLER:	KEVIN HUBER
EQUIPMENT:	B-61 MOBILE DRILL RIG
METHOD:	HOLLOW STEM AUGER

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE			
DIAMETER			
OTHER			

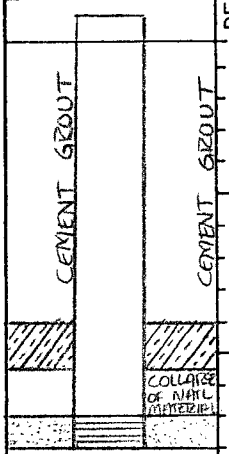
WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	PVC	PVC
DIAMETER	1 1/4"	1 1/4"
COUPLING	PVC coupling	PVC coupling

WELL DEVELOPMENT	
METHOD:	
DURATION:	
YIELD:	
OTHER:	

	GROUND	WELL	PROT CSG
ELEV		9.63	

DATE STARTED: 7-28-88
DATE COMPLETED: 7-28-88
INSPECTOR: MJ SCHNEIDER

WELL CONSTRUCTION



DEPTH (FEET)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS
0				FILL	
5					
10				±13.0'	NOTE: COULD NOT KEEP THE HOLE OPEN - NATURAL COLLAPSE OF MATERIAL
	S-1	SS		TIDAL MARSH DEPOSIT 15.0'	
15					
20					
25					
30					
35					
40					

AWARE INCORPORATED

TEST BORING LOG

NO. WP-20S

PROJECT: GAF-LINDEN
CLIENT: GAF CHEMICALS CORPORATION

SHEET NO. 1 of 1
PROJECT NO. 6106

DRILLING DATA	
CONTRACTOR:	HARDIN-HUBER INC.
DRILLER:	KEVIN HUBER
EQUIPMENT:	B-61 MOBILE DRILL RIG
METHOD:	HOLLOW STEM AUGER

SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE			
DIAMETER			
OTHER			

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	PVC	PVC
DIAMETER	1 1/4"	1 1/4"
COUPLING	PVC coupling	PVC coupling

WELL DEVELOPMENT	
METHOD:	
DURATION:	
YIELD:	
OTHER:	

	GROUND	WELL	PROT CSG
ELEV		9.82	

DATE STARTED: 7-29-88
DATE COMPLETED: 7-29-88
INSPECTOR: MJ SCHNEIDER

WELL CONSTRUCTION	DEPTH (FEET)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS
GROUT	0					
	5					
	10					
	15					
	20					
	25					
	30					
	35					
	40					

AWARE INCORPORATED

TEST BORING LOG

NO. WP-20D

PROJECT: GAF-LINDEN
CLIENT: GAF CHEMICALS CORPORATION

SHEET NO. 1 of 1
PROJECT NO. 6106

DRILLING DATA	
CONTRACTOR:	HARDIN-HUBER INC.
DRILLER:	KEVIN HUBER
EQUIPMENT:	B-61 MOBILE DRILL RIG
METHOD:	HOLLOW STEM AUGER

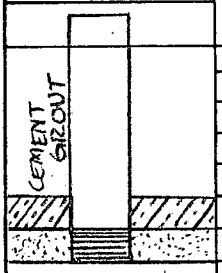
SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE			
DIAMETER			
OTHER			

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	PVC	PVC
DIAMETER	1 1/4"	1 1/4"
COUPLING	PVC coupling	PVC coupling

WELL DEVELOPMENT	
METHOD:	
DURATION:	
YIELD:	
OTHER:	

	GROUND	WELL	PROT CSG
ELEV		9.76	

DATE STARTED: 7-29-88
DATE COMPLETED: 7-29-88
INSPECTOR: MJ SCHNEIDER

WELL CONSTRUCTION	DEPTH (FEET)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS
	0				FILL	
	5				7.4'	
		S-1	SS		TIDAL MARSH DEPOSIT 9.0'	
	10					
	15					
	20					
	25					
	30					
	35					
	40					

AWARE INCORPORATED

TEST BORING LOG

NO. WP-21

PROJECT: GAF-LINDEN
CLIENT: GAF CHEMICALS CORP.

SHEET NO. 1 of 1
PROJECT NO. 633B

DRILLING DATA	
CONTRACTOR:	HARDIN-HUBER INC.
DRILLER:	RICH KIMES
EQUIPMENT:	B-61 MOBILE DRILL RIG
METHOD:	HOLLOW STEM AUGER

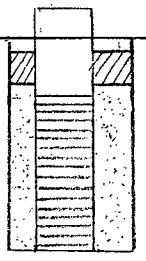
SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE			
DIAMETER			
OTHER			

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	PVC	PVC
DIAMETER	1 1/4"	1 1/4"
COUPLING	PVC coupling	PVC coupling

WELL DEVELOPMENT	
METHOD:	
DURATION:	
YIELD:	
OTHER:	

	GROUND	WELL	PROT CSG
ELEV	7.8	8.83	

DATE STARTED: 2-1-89
DATE COMPLETED: 2-1-89
INSPECTOR: MT SCHNEIDER

WELL CONSTRUCTION	DEPTH (FEET)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS
	0					
	5					
	10					
	15					
	20					
	25					
	30					
	35					
	40					

AWARE INCORPORATED

TEST BORING LOG

NO. WP-22

PROJECT: GAF-LINDEN
CLIENT: GAF CHEMICALS CORPORATION

SHEET NO. 1 of 1
PROJECT NO. 6338

DRILLING DATA	
CONTRACTOR:	HARDIN-HUBER INC.
DRILLER:	RICH KIMES
EQUIPMENT:	B-61 MOBILE DRILL RIG
METHOD:	HOLLOW STEM AUGER

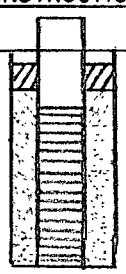
SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE			
DIAMETER			
OTHER			

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	PVC	PVC
DIAMETER	1 1/4"	1 1/4"
COUPLING	PVC coupling	PVC coupling

WELL DEVELOPMENT	
METHOD:	
DURATION:	
YIELD:	
OTHER:	

	GROUND	WELL	PROT CSG
ELEV	6.5	9.40	

DATE STARTED: 2-1-89
DATE COMPLETED: 2-1-89
INSPECTOR: MISHNEIDER

WELL CONSTRUCTION	DEPTH (FEET)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS
	0					
	5					
	10					
	15					
	20					
	25					
	30					
	35					
	40					

AWARE INCORPORATED

TEST BORING LOG

NO. WP-23

PROJECT: GAF-LINDEN
CLIENT: GAF CHEMICALS CORPORATION

SHEET NO. 1 of 1
PROJECT NO. 6338

DRILLING DATA	
CONTRACTOR:	HARDIN-HUBER, INC
DRILLER:	RICH KIMES
EQUIPMENT:	B-61 MOBILE DRILL RIG
METHOD:	HOLLOW STEM AUGER

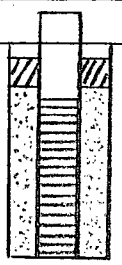
SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE			
DIAMETER			
OTHER			

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	PVC	PVC
DIAMETER	1 1/4"	1 1/4"
COUPLING	PVC coupling	PVC coupling

WELL DEVELOPMENT	
METHOD:	
DURATION:	
YIELD:	
OTHER:	

	GROUND	WELL	PROT CSG
ELEV	6.8	8.77	

DATE STARTED: 2-1-89
DATE COMPLETED: 2-1-89
INSPECTOR: M.J. SCHNEIDER

WELL CONSTRUCTION	DEPTH (FEET)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS
	0					
	5					
	10					
	15					
	20					
	25					
	30					
	35					
	40					

AWARE INCORPORATED

TEST BORING LOG

NO. WP-24

PROJECT: GAF-LINDEN
CLIENT: GAF CHEMICALS CORPORATION

SHEET NO. 1 of 1
PROJECT NO. 6338

DRILLING DATA	
CONTRACTOR:	HARDIN-HUBER INC
DRILLER:	RICH KIMES
EQUIPMENT:	B-61 MOBILE DRILL RIG
METHOD:	HOLLOW STEM AUGER

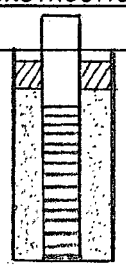
SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE			
DIAMETER			
OTHER			

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	PVC	PVC
DIAMETER	1 1/4"	1 1/4"
COUPLING	PVC coupling	PVC coupling

WELL DEVELOPMENT	
METHOD:	
DURATION:	
YIELD:	
OTHER:	

	GROUND	WELL	PROT CSG
ELEV	6.5	9.39	

DATE STARTED: 2-1-89
DATE COMPLETED: 2-1-89
INSPECTOR: M. SCHNEIDER

WELL CONSTRUCTION	DEPTH (FEET)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS
	0					
	5					
	10					
	15					
	20					
	25					
	30					
	35					
	40					

AWARE INCORPORATED

TEST BORING LOG

NO. WP-25

PROJECT: GAF-LINDEN
CLIENT: GAF CHEMICALS CORPORATION

SHEET NO. 1 of 1
PROJECT NO. 633B

DRILLING DATA	
CONTRACTOR:	HARDIN-HUBER INC.
DRILLER:	RICH KIMES
EQUIPMENT:	B-61 MOBILE DRILL RIG
METHOD:	HOLLOW STEM AUGER

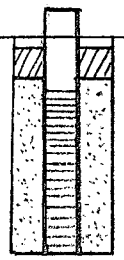
SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE			
DIAMETER			
OTHER			

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	PVC	PVC
DIAMETER	1 1/4"	1 1/4"
COUPLING	PVC coupling	PVC coupling

WELL DEVELOPMENT	
METHOD:	
DURATION:	
YIELD:	
OTHER:	

	GROUND	WELL	PROT CSG
ELEV	7.4	8.25	

DATE STARTED: 2-2-89
DATE COMPLETED: 2-2-89
INSPECTOR: MJ SCHNEIDER

WELL CONSTRUCTION	DEPTH (FEET)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS
	0					
	5					
	10					
	15					
	20					
	25					
	30					
	35					
	40					

AWARE INCORPORATED

TEST BORING LOG

NO. WP-26

PROJECT: GAF-LINDEN
CLIENT: GAF CHEMICALS CORPORATION

SHEET NO. 1 of 1
PROJECT NO. 6338

DRILLING DATA	
CONTRACTOR:	HARDIN HUBER, INC.
DRILLER:	RICH KIMES
EQUIPMENT:	B-61 MOBILE DRILL RIG
METHOD:	HOLLOW STEM AUGER

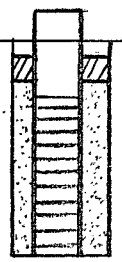
SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE			
DIAMETER			
OTHER			

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	PVC	PVC
DIAMETER	1 1/4"	1 1/4"
COUPLING	PVC coupling	PVC coupling

WELL DEVELOPMENT	
METHOD:	
DURATION:	
YIELD:	
OTHER:	

	GROUND	WELL	PROT CSG
ELEV	8.4	10.91	

DATE STARTED: 2-2-89
DATE COMPLETED: 2-2-89
INSPECTOR: MJ SCHNEIDER

WELL CONSTRUCTION	DEPTH (FEET)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS
	0					
	5					
	10					
	15					
	20					
	25					
	30					
	35					
	40					

AWARE INCORPORATED

TEST BORING LOG

NO. WP-27

PROJECT: GAF-LINDEN
CLIENT: GAF CHEMICALS CORPORATION

SHEET NO. 1 of 1
PROJECT NO. 6338

DRILLING DATA	
CONTRACTOR:	HARDIN-HUBER, INC.
DRILLER:	RICH KIMES
EQUIPMENT:	B-61 MOBILE DRILL RIG
METHOD:	HOLLOW STEM AUGER

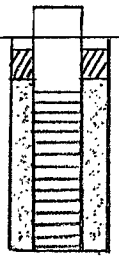
SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE			
DIAMETER			
OTHER			

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	PVC	PVC
DIAMETER	1 1/4"	1 1/4"
COUPLING	PVC coupling	PVC coupling

WELL DEVELOPMENT	
METHOD:	
DURATION:	
YIELD:	
OTHER:	

	GROUND	WELL	PROT CSG
ELEV	6.2	9.13	

DATE STARTED: 2-1-89
DATE COMPLETED: 2-1-89
INSPECTOR: MJ SCHNEIDER

WELL CONSTRUCTION	DEPTH (FEET)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS
	0					
	5					
	10					
	15					
	20					
	25					
	30					
	35					
	40					

AWARE INCORPORATED

TEST BORING LOG

NO. WP-28

PROJECT: GAF LINDEN
CLIENT: GAF CHEMICALS CORPORATION

SHEET NO. 1 of 1
PROJECT NO. 6338

DRILLING DATA	
CONTRACTOR:	HARDIN-HUBER, INC
DRILLER:	RICH KIMES
EQUIPMENT:	B-61 MOBILE DRILL RIG
METHOD:	HOLLOW STEM AUGER

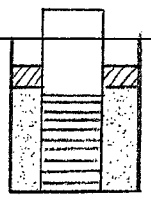
SAMPLING METHODS	SAMPLER	TUBE	CORE
TYPE			
DIAMETER			
OTHER			

WELL CONSTRUCTION	RISER	INTAKE
MATERIAL	PVC	PVC
DIAMETER	1 1/4"	1 1/4"
COUPLING	PVC coupling	PVC coupling

WELL DEVELOPMENT	
METHOD:	
DURATION:	
YIELD:	
OTHER:	

	GROUND	WELL	PROT CSG
ELEV	7.6	9.47	

DATE STARTED: 2-1-89
DATE COMPLETED: 2-1-89
INSPECTOR: MJSCHNEIDER

WELL CONSTRUCTION	DEPTH (FEET)	SAMPLE NO.	SAMPLE TYPE	BLOWS PER 6 INCHES	CLASSIFICATION (AFTER BURMISTER, 1959)	REMARKS
	0					
	5					
	10					
	15					
	20					
	25					
	30					
	35					
	40					

Environmental Resources Man ment

Drilling Log

Project GAF - Linden Owner GAF Corporation

Location Linden, NJ W.O. Number

Well Number ~~GAF-1~~ W-1 Total Depth 27 ft. Diameter

Surface Elevation 8.76' Water Level: Initial DTW 0.5 ft. 24-hrs. 5.99'

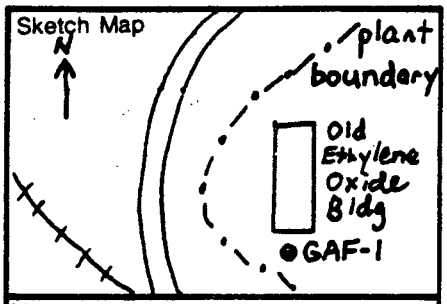
Screen: Dia. 2 in. Length 10 ft. Slot Size .02

Casing: Dia. 2 in. Length -- Type PVC

Drilling Company Diamond Drill. Drilling Method auger

Driller L. Ontek Log By C. Werle Date Drilled 1/11/83

Sketch Map



Notes

Depth (Feet)	Graphic Log	Sample Number	Description/Soil Classification (Color, Texture, Structures)
			Fill consisting of coarse gravel and medium to coarse sand. Dark gray silty sandy clay with gravel and organic debris - water cascades into borehole from 0 to approximately 3 feet.
5		1	Dark red silty sandy clay, stiff, cohesive, slightly plastic, minor fine gravel in clay matrix.
10		2	Dark red silty clay- texture same as above except with reduced silt and fine sand percentage. Incorporated gravel is gray angular shale and round to subround quartz.
15		3	Dark red silty clay - dry crumbly stiff with fine to medium gravel to 1/4-inch.
20		4	Dark red silty clay as above, 1% gravel, clay is very dry and stiff.
			± 25'
25		5	Dry silty red clay and weathered pieces of shale - refusal at 27 feet.

Note: GAF-1 borehole is backfilled to surface with bentonite and well cuttings to surface. Second borehole, 5 feet west of first, is advanced to ten feet and well installed.

Environmental Resources Management

Drilling Log

Project: GAF-Linden Owner: GAF Corporation

Location: Linden, NJ W.O. Number:

Well Number: ~~GAF-2~~ W-2 Total Depth: 20 feet Diameter:

Surface Elevation: 7.13' Water Level: Initial DTW 13 ft. 24-hrs. 4.62'

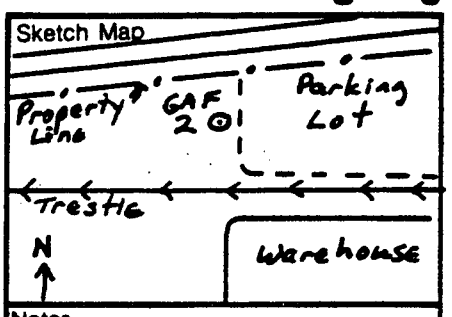
Screen: Dia. 2 in. Length 8.0 ft. Slot Size .02 in.

Casing: Dia. 2 in. Length 12.0 ft. Type PVC

Drilling Company: Diamond Drilling Drilling Method: auger

Driller: L. Ontek Log By: C. Werle Date Drilled: 1/12/83

Sketch Map



Notes

Depth (Feet)	Graphic Log	Sample Number	Description/Soil Classification (Color, Texture, Structures)
			Fill consisting of tan-gray fine sandy clay grading into tan to red sandy clay, highly plastic and cohesive.
5		1	Fill material medium to coarse sand and gravel in plastic clay matrix, colors vary from dark brown to tan-orange, nodules of stiff red silty clay. Peat deposits start at 8 feet. 8'
			Mtm (Peat)
10		2	Peat deposits with strong H_2S odor grading into bluish gray fine sandy silty clay, cohesive somewhat plastic, clay starts at 11.5. 11.5
			(Clay)
15		3	Dark bluish gray sandy silty clay grading into brick red sandy silty clay with some gravel red clay starts at about 16 feet. 16'
			Qt
			19.5
20		4	Stiff dark red silty sandy clay, upper zone of weathered shale. Trb

Stratigraphic notation by SOM - AWARE

Environmental Resources Management

Drilling Log

Project GAF-Linden Owner GAF Corporation

Location Linden, NJ W.O. Number

Well Number GAF-3 W-3 Total Depth Diameter

Surface Elevation 8.86' Water Level: Initial DTW 13.6' 24-hrs 4.54'

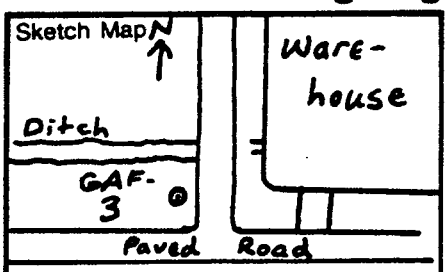
Screen: Dia. 2 in. Length 5 feet Slot Size .02

Casing: Dia. 2 in. Length 13 feet Type PVC

Drilling Company Diamond Drilling Drilling Method auger

Driller L. Ontek Log By C. Werle Date Drilled 1/12/83

Sketch Map



Notes

Depth (Feet)	Graphic Log	Sample Number	Description/Soil Classification (Color, Texture, Structures)
			Fill- red to brown silt and clay some sand with brick, wood and steel fragments.
5		1	Fill as above with peat deposits at 6.5 feet. Strong H_2S odor. 6.5
			Mtm (Peat)
10		2	Peat at 10 feet underlain with brown silt and organic debris grading into bluish gray sandy silty clay, cohesive fairly plastic - blue gray clay starts at 11.0 feet. 11'
			(Clay) 13
			Qgt
15		3	Stiff red sandy silty clay with pieces of weathered shale and minor quantities of gravel, transition from blue gray clay to stiff red silty clay is 12.5 to 13.0 feet. Refusal at 18.0 feet. 18'
			Trb
20			

Stratigraphic notation by Sam Auwaert

Environmental Resources Man..ment

Drilling Log

Project GAF-Linden Owner GAF Corporation

Location Linden, NJ W.O. Number

Well Number ~~GAF-4~~ W-4 Total Depth 15 feet Diameter

Surface Elevation 7.28' Water Level: Initial DTW 2' 24-hrs. 5.72'

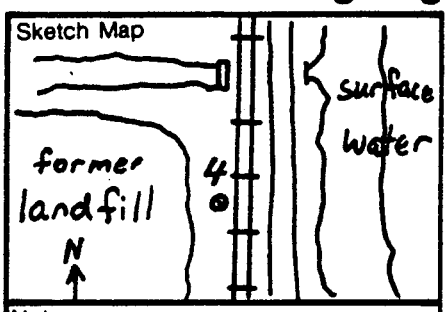
Screen: Dia. 2 in. Length 10 feet Slot Size .02

Casing: Dia. 2 in. Length --- Type PVC

Drilling Company Diamond Drilling Drilling Method auger

Driller L. Ontek Log By C. Werle Date Drilled 1/12/83

Sketch Map



Notes

Depth (Feet)	Graphic Log	Well Construction	Sample Number	Description/Soil Classification (Color, Texture, Structures)
				Orange clayey sand with gravel-material moldable and plastic. ± 3
				Mtm (Clay)
5			1	Orange-tan dense sandy clay - tight cohesive, somewhat plastic, to 5.5 ft. Underlain by clayey peat. 5.5
				(Peat)
10			2	Thick dense peat deposits. At 13.0 feet - blue-gray plastic sandy clay. 13'
				(Clay) 15'
15				

Note: Borehole backfilled 15 feet to 10 feet with bentonite and well screen installed from 10 feet to grade.

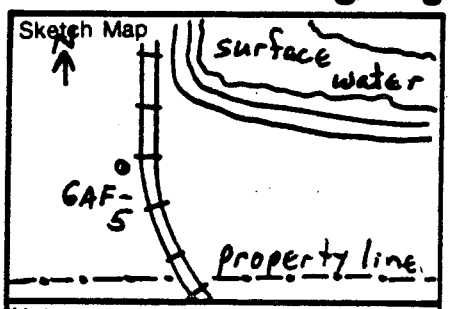
Stratigraphic notation by SOM-AWARE

Environmental Resources Management

Drilling Log

Project: GAF-Linden
Owner: GAF Corporation
Location: Linden, NJ
W.O. Number:
Well Number: GAF-5 W-5
Total Depth: 12 feet
Diameter:
Surface Elevation: 7.50'
Water Level: DTW Initial 2.5' 24-hrs. 4.64'
Screen: Dia. 2 in. Length 12 feet Slot Size .02
Casing: Dia. 2 in. Length --- Type PVC
Drilling Company: Diamond Drilling
Drilling Method: auger
Driller: L. Ontek
Log By: C. Werle
Date Drilled: 1/12/83

Sketch Map



Notes

Depth (Feet)	Graphic Log	Sample Number	Description/Soil Classification (Color, Texture, Structures)
			Debris and fill at surface, 0 to 10 feet.
5		1	Tan brown medium to coarse sand and fine to coarse gravel.
10		2	Medium to coarse tan brown sand and gravel to 11.5 feet. Peat deposits to 12.0 feet.
15			

Environmental Resources Management

Drilling Log

Project: GAF-Linden Owner: GAF Corporation

Location: Linden, NJ W.O. Number:

Well Number: ~~GAF-6~~ W-6 Total Depth: Diameter:

Surface Elevation: 7.06' Water Level: Initial DTW 1.5' 24-hrs. 4.46'

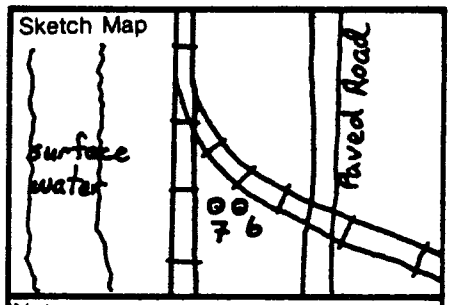
Screen: Dia. 2 in. Length 9.5 ft. Slot Size .02

Casing: Dia. 2 in. Length --- Type PVC

Drilling Company: Diamond Drilling Drilling Method: auger

Driller: L. Ontek Log By: C. Werle Date Drilled: 1/12/83

Sketch Map



Notes

Depth (Feet)	Graphic Log	Sample Number	Description/Soil Classification (Color, Texture, Structures)
			Red-brown medium to coarse sand to 1.0 feet.
			Medium to coarse sand and gravel.
5			
			Silt with some medium to coarse sand.
10		1	Peat deposits.

Environmental Resources Management

Drilling Log

Project GAF-Linden Owner GAF Corporation

Location Linden, NJ W.O. Number

Well Number ~~GAF-7~~ W-7 Total Depth 28 feet Diameter

Surface Elevation 6.88' Water Level: Initial DTW 1.5' 24-hrs. 4.58'

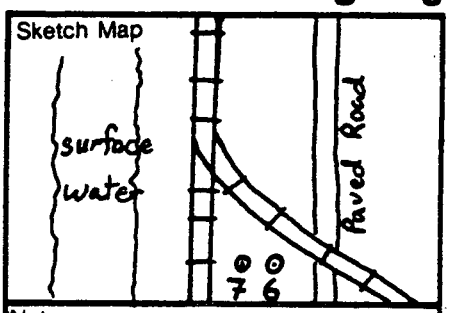
Screen: Dia. 2 in. Length 5 feet Slot Size .02 in.

Casing: Dia. 2 in. Length 23 feet Type PVC

Drilling Company Diamond Drilling Drilling Method auger

Driller L. Ontek Log By C. Werle Date Drilled 1/11/83

Sketch Map



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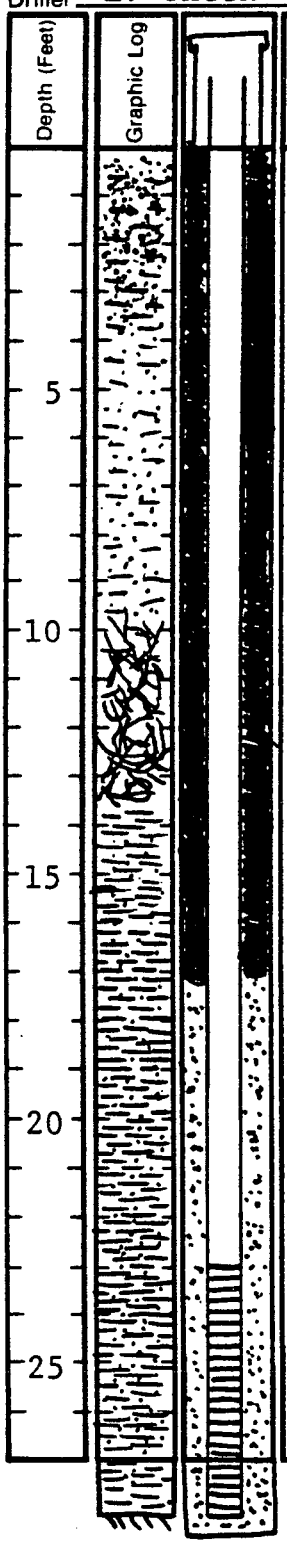
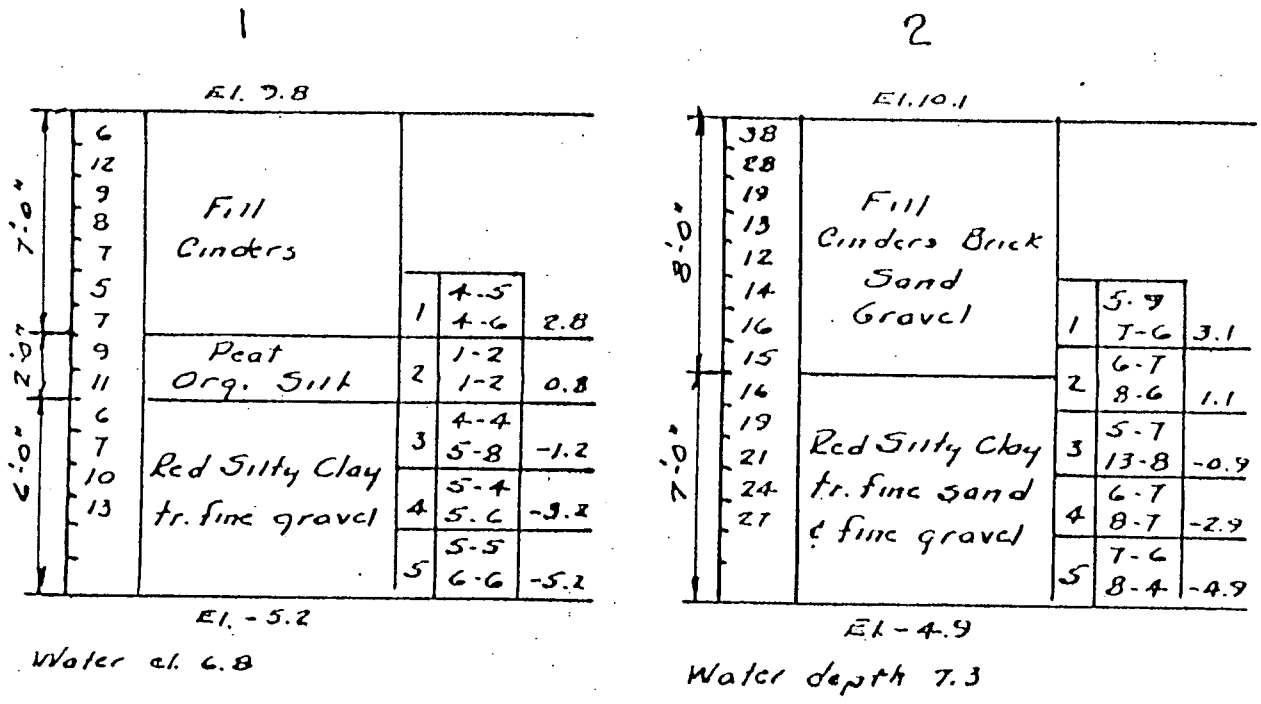


Depth (Feet)	Graphic Log	Sample Number	Description/Soil Classification (Color, Texture, Structures)
			Fill, brown-red medium to coarse sand with gravel to 1.0 ft. Fill, medium to coarse sand and gravel.
5		1	Silt and fine sand.
			10'
			Mtm (Peat)
10		2	Peat deposits, dense and intertwined, very strong H_2S odor, silt directly overlies (and is terminated by) peat; peat to 13.5 feet.
			13.5
			(Clay)
15		3	Bluish gray cohesive plastic fine sandy clay to about 19 feet.
			19
			Qt
20		4	Dark brownish red silt and silty clay, somewhat plastic, cohesive.
25		5	Red clayey sandy silt, some coarse sand and fine gravel - stiff and crumbly, coarser and less plastic than sample 4. Refusal at 28 feet.

Trb @ 28'

Geologic notation by Som - AwAre



Hazen & Sawer, 3/10/69
GAF Drawing No. H-5707
Elev. ref. to plant datum
(msl - 2.30')

3

El. 9.8

Depth	Blows	Description	Sample	Blows	Elev.
11'-0"	21, 21, 17, 13, 15, 17, 19, 24, 26, 23, 21	Fill Cinders Gravel Brick	1	5-9 13-17	2.8
			2	6-8 9-8	0.8
			3	4-5 7-7	-1.2
0.2'	29, 30	Peat Org. Silt	4	2-1 1-2	-3.2
2'-0"		Red Silty Clay tr. fine sand	5	6-8 7-11	-5.2

El. -5.2

Water depth 7.5

4

El. 8.8

Depth	Blows	Description	Sample	Blows	Elev.
1'-0"	17	Br. Sand & Gravel			
7'-0"	29, 42, 46, 31, 27, 5	Black Mud Wood, Metal Cinder Fill	1	3-4 2	1.3
3'-0"	7, 4, 5, 5	Black Mud Peat & Veget.	10	Press tube	-3.2
3'-0"	7, 7, 6	Gray Silt tr. Veget.	2	1-1 1	-4.7
2'-0"	8, 28	Fine Gray Sand Some silt	3	3-4 5	-7.7
2'-0"	75, 80	Red Sandy Silt Clay & Gravel			
5'-0"	78, 82, 85, 78, 92	Red Sand Clay Gravel	4	9-12 14	-12.7
7'-0"	98, 94, 87, 82, 90, 96, 94	Red Silty Clay	5	13-13 17	-17.7
6'-0"	85, 95, 102, 112, 121, 165	Red Sand, Clay Gravel Shale Frags.	6	17-41 48	-22.7
			7	40-63	-27.2
5'-0"		Red Shale Rock Drilled		Run 1. C.R. 2:8"	-32.2

El. -32.2

Water el. 7.8

5

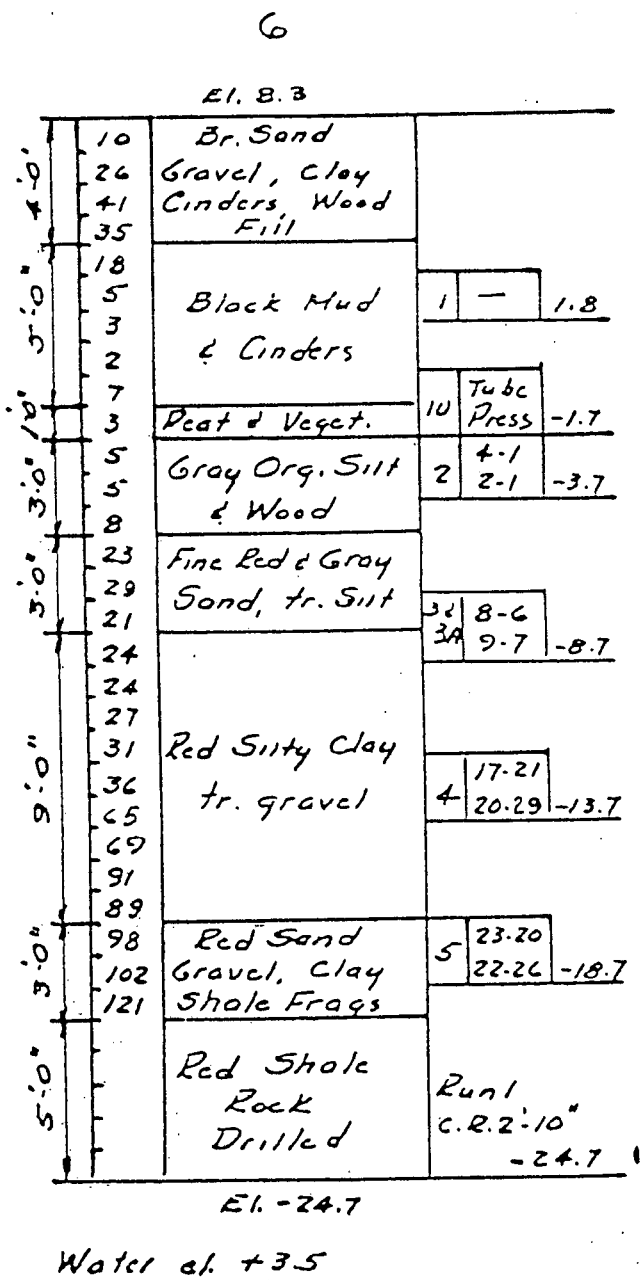
El. 9.1

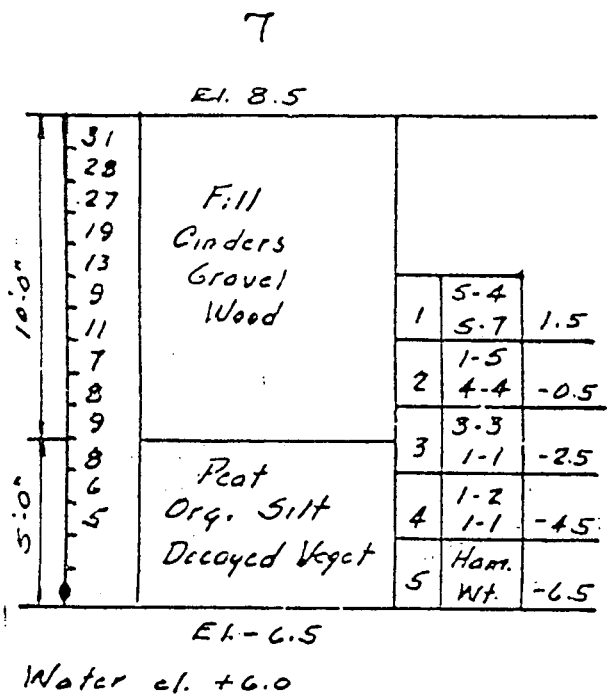
Depth	Blows	Description	Sample	Blows	Elev.
9'-0"	7, 9, 13, 14, 11, 12, 9, 6, 4	Fill Cinders Gravel	1	5-4 7-3	2.1
			2	3-3 2-3	0.1
2'-0"	2, 5	Gray Silty Clay	3	4-5 5-6	-1.9
4'-0"	11, 16	Red Br. Silty Sand tr. Clay	4	6-5 6-6	-3.9
			5	7-5 6-8	-5.9

El. -5.9

Water el. 6.3

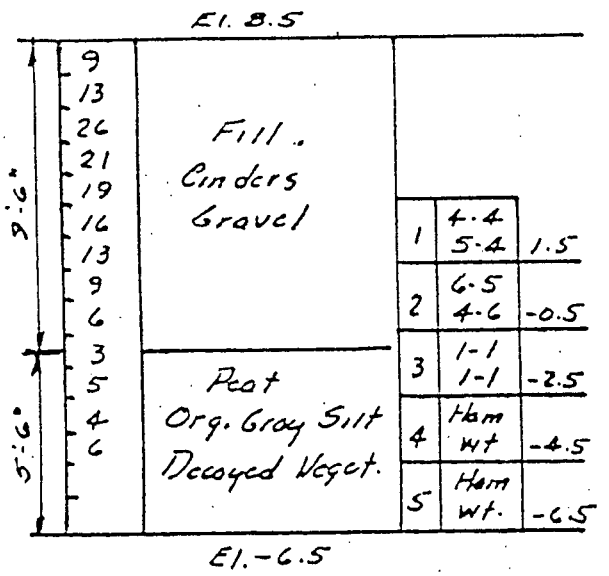
Hazen & Sawer, 3/10/69
GAF Drawing No. H-5707
Elev. ref. to plant datum
(msl - 2.30')





Hazen & Sawer, 3/10/69
GAF Drawing No. H-5707
Elev. ref. to plant datum
(msl - 2.30')

8



Water el. 6.2

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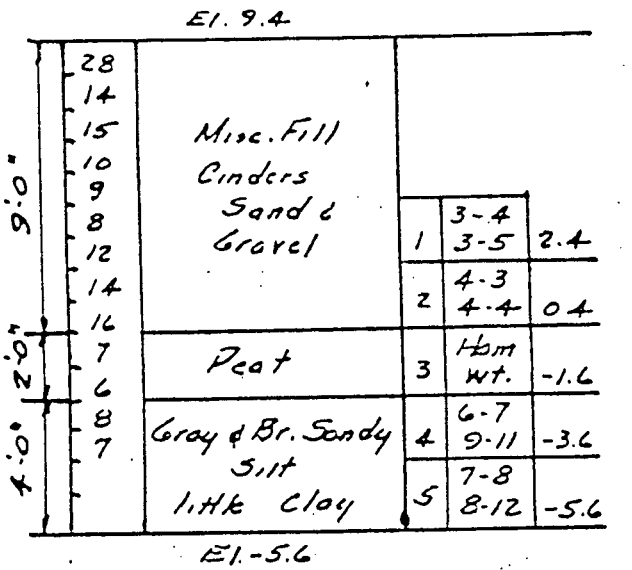

Water el. 6.2

Hazen & Sawer, 3/10/69
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(msl - 2.30')

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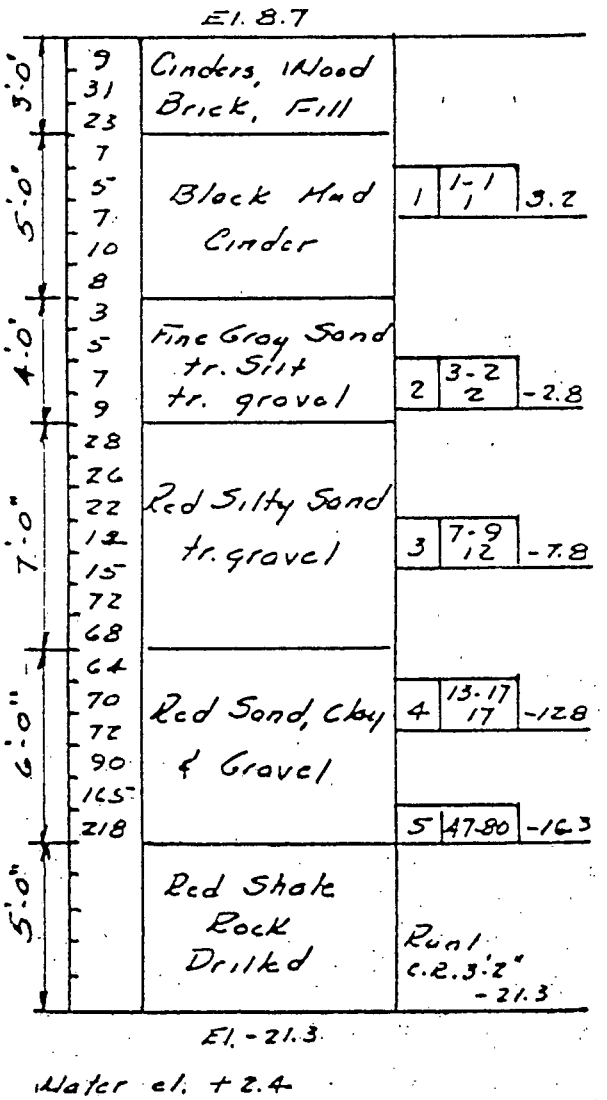

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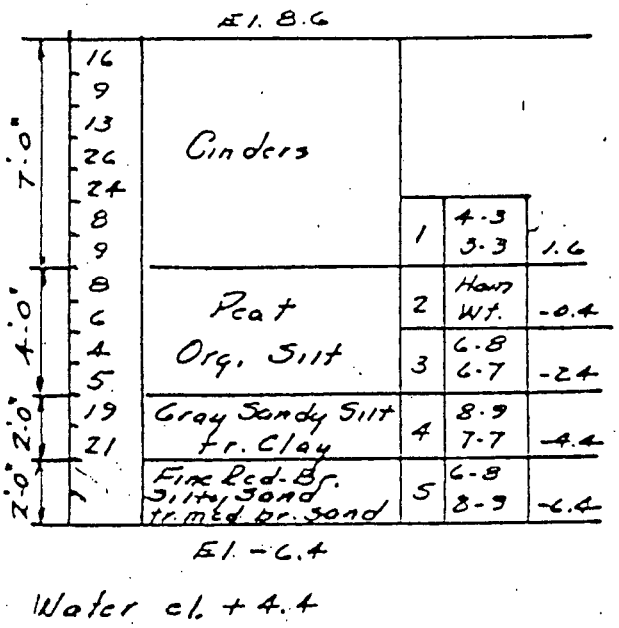

Hazen & Sawer, 3/10/69
GAF Drawing No. H-5707
Elev. ref. to plant datum
(msl - 2.30')

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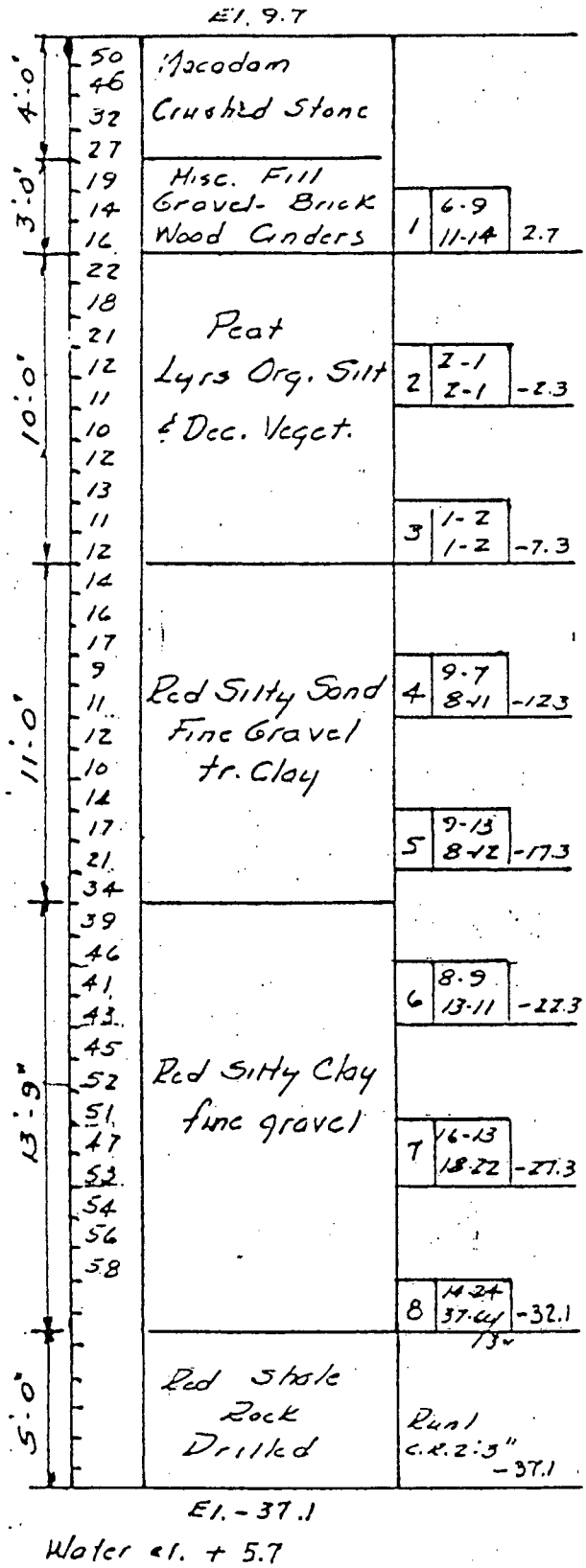

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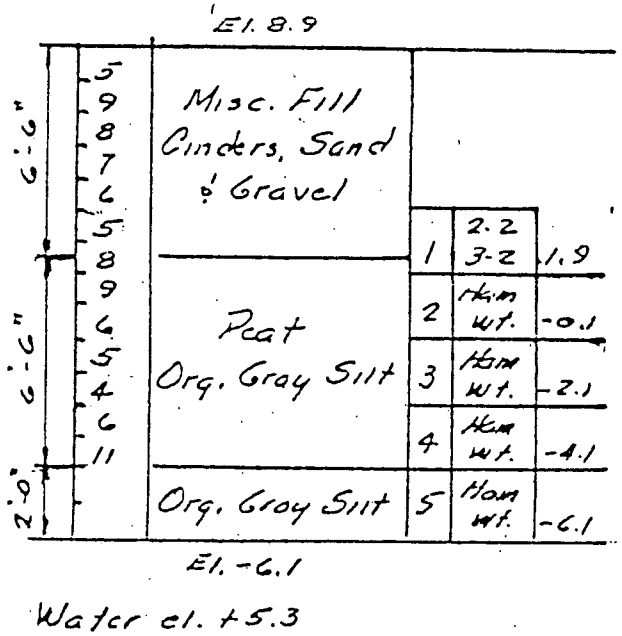

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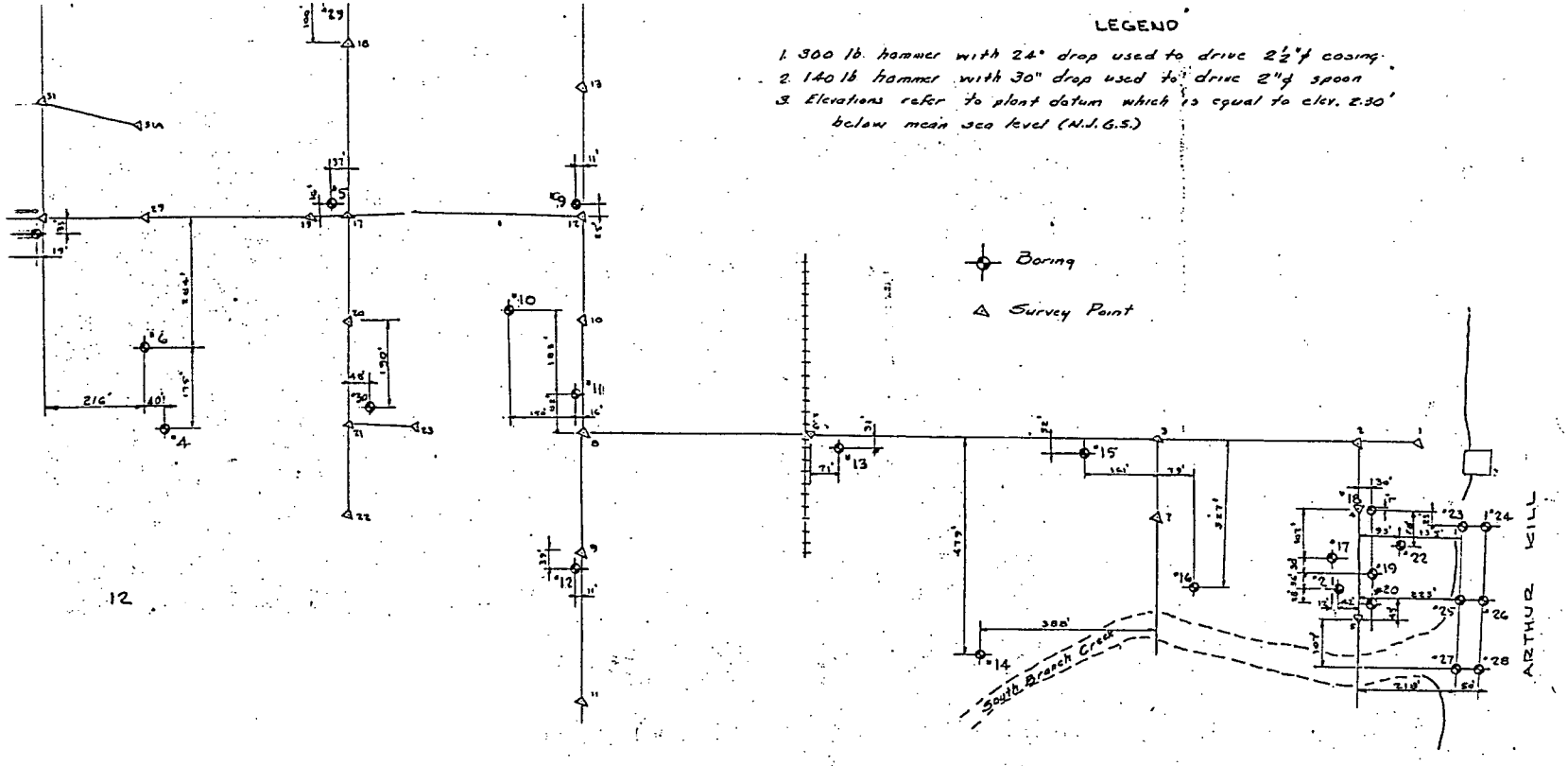

H-5707

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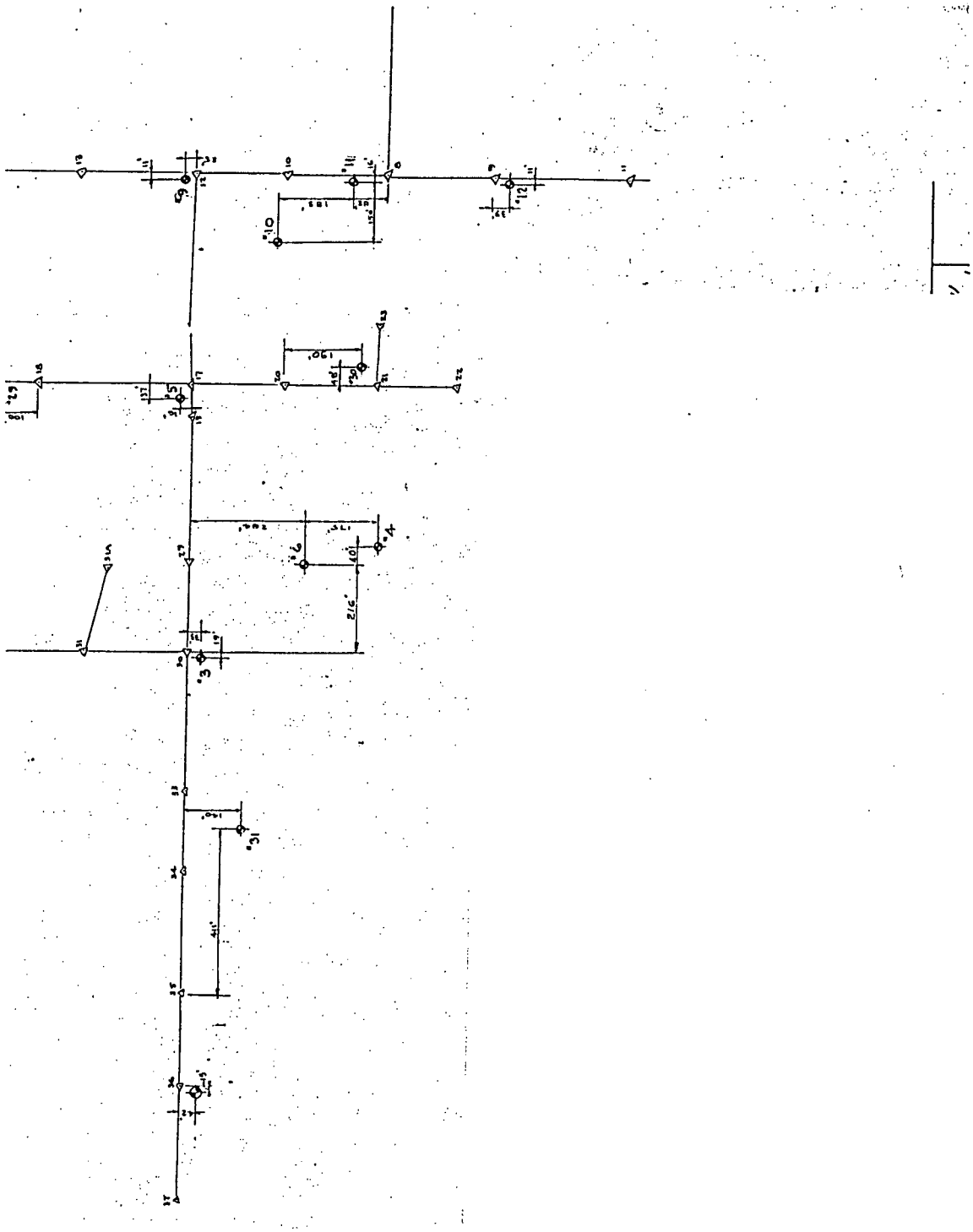

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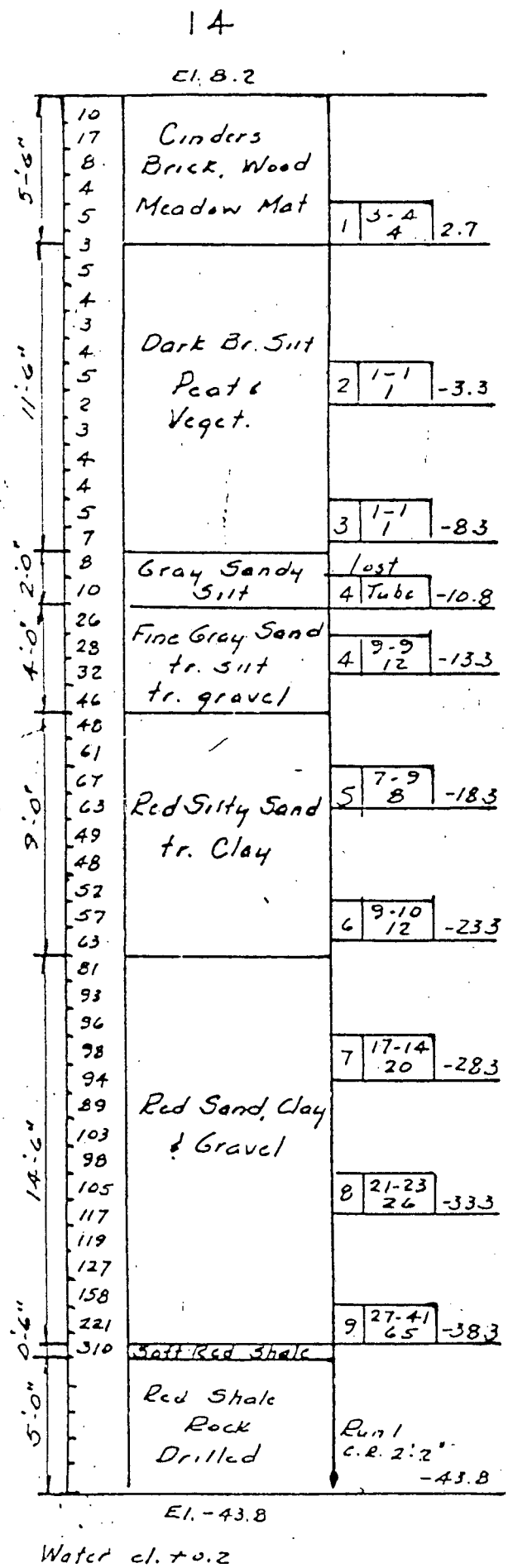

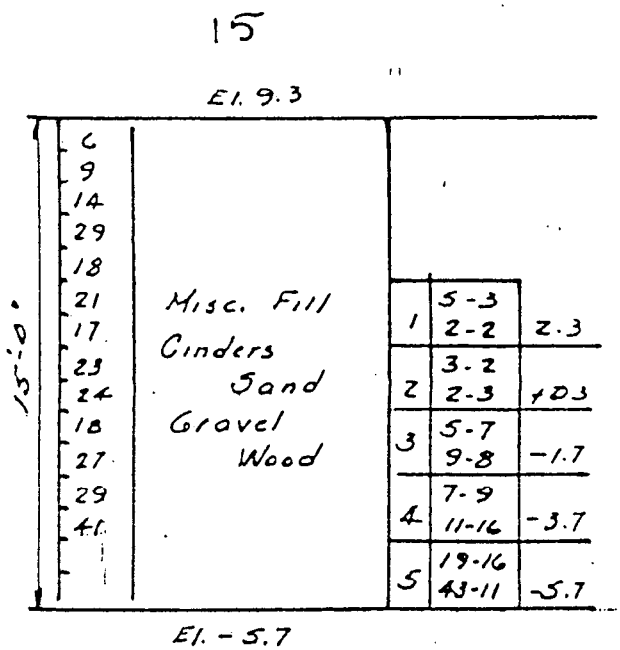

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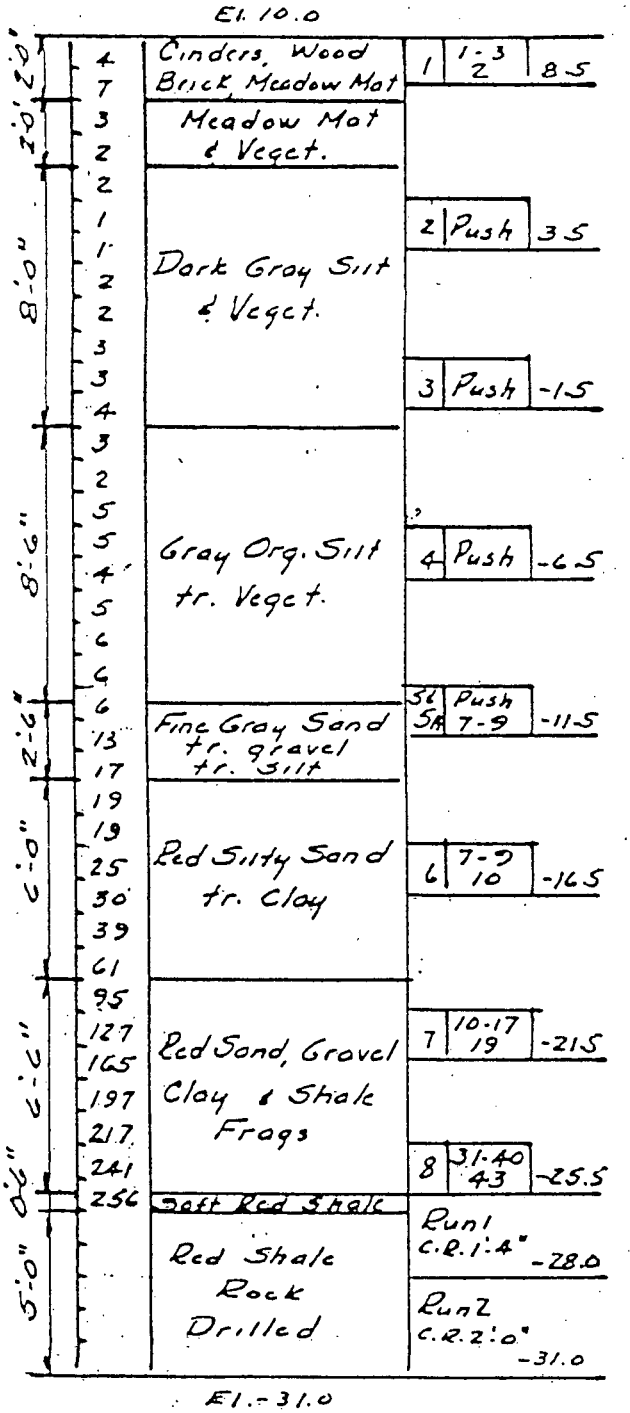

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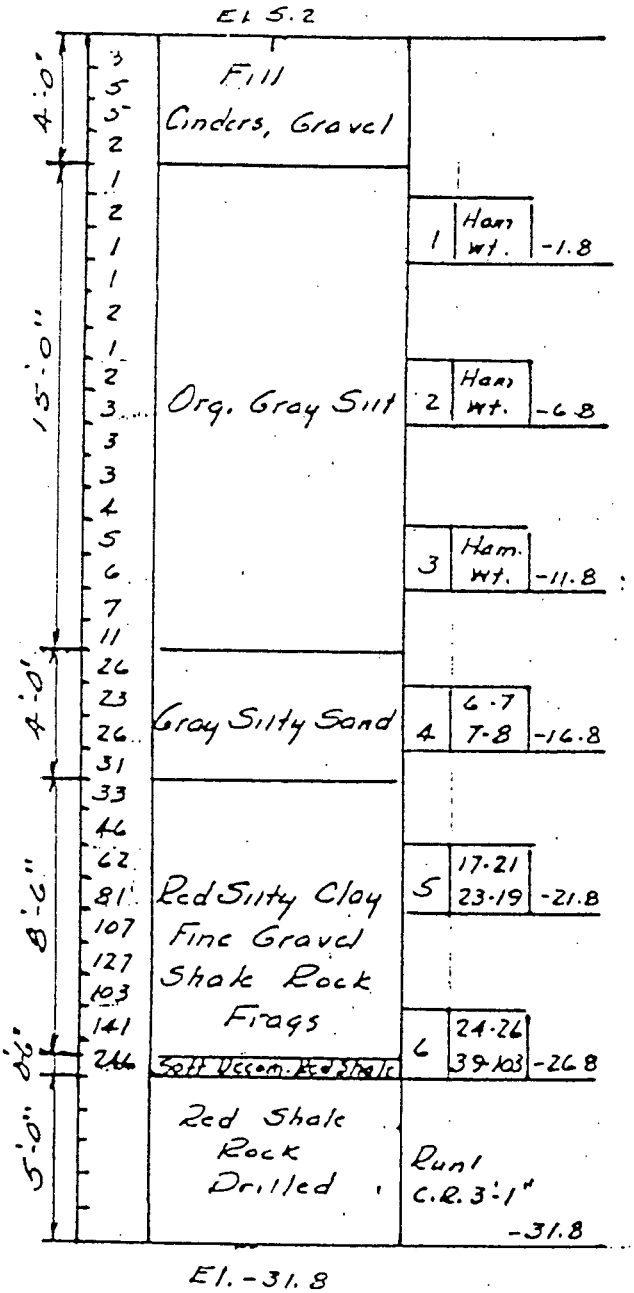

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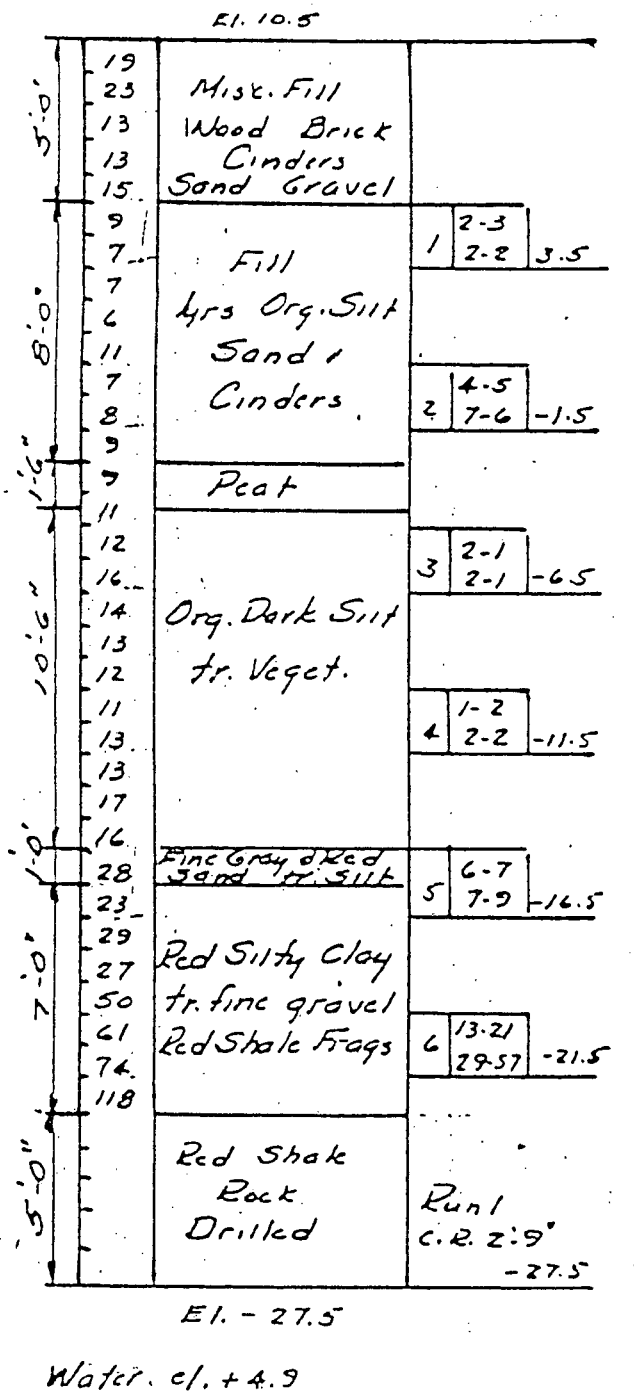

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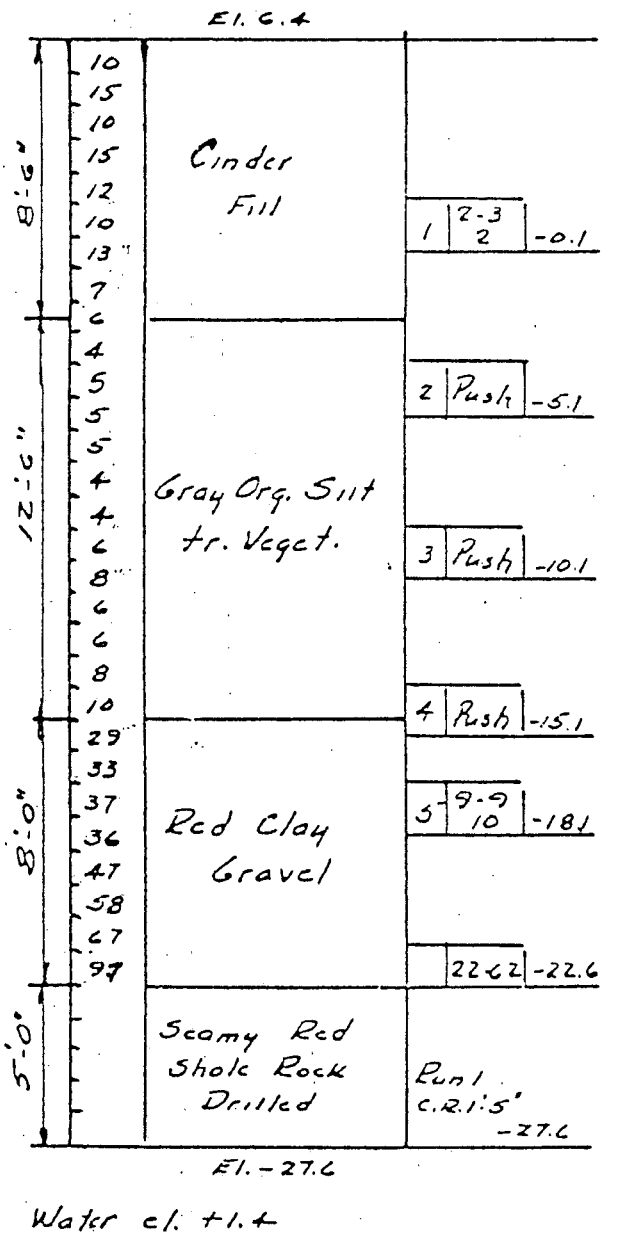

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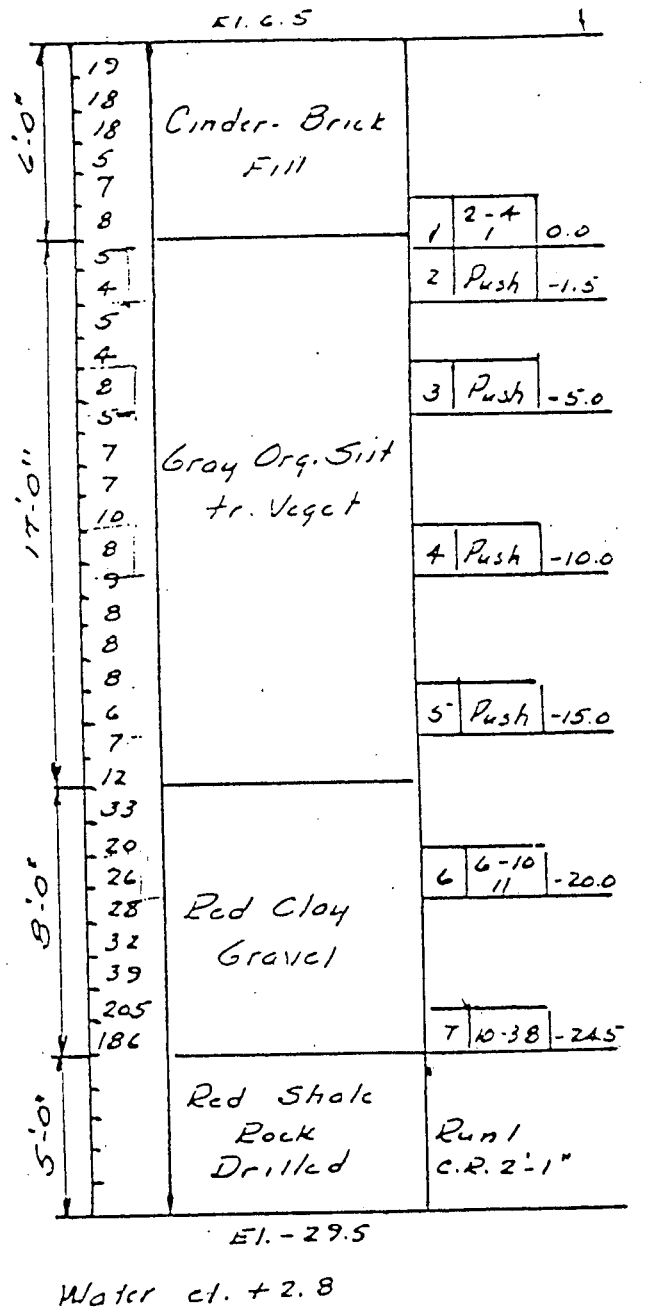

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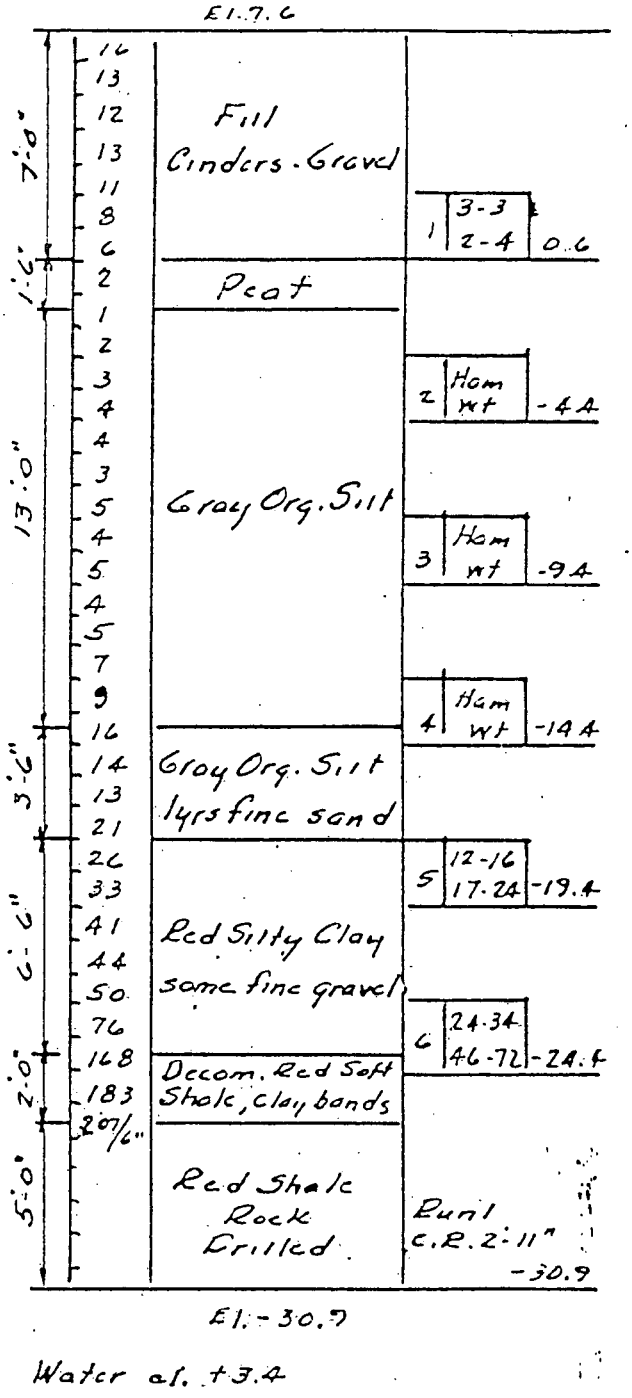

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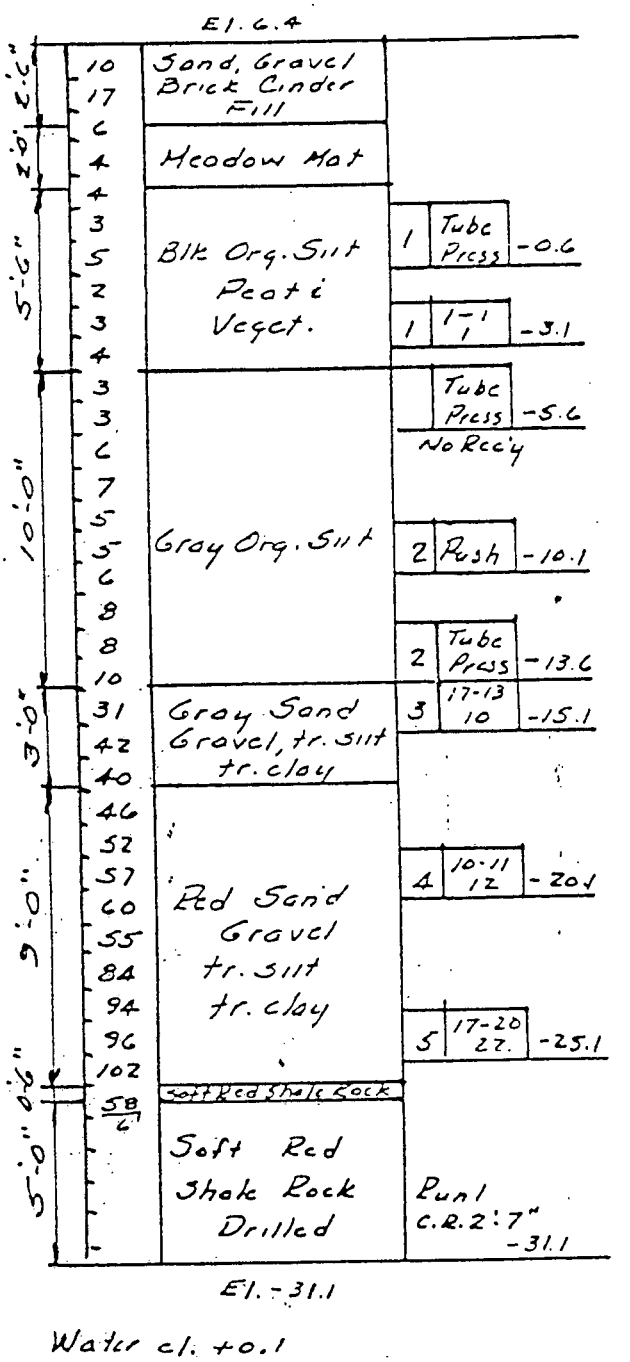

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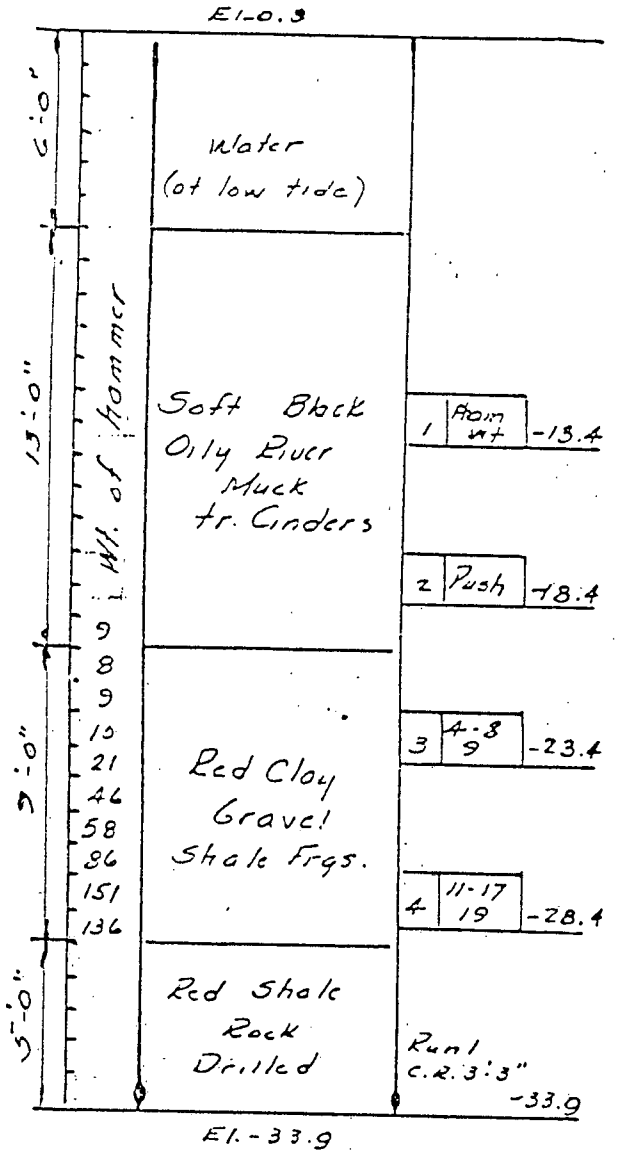

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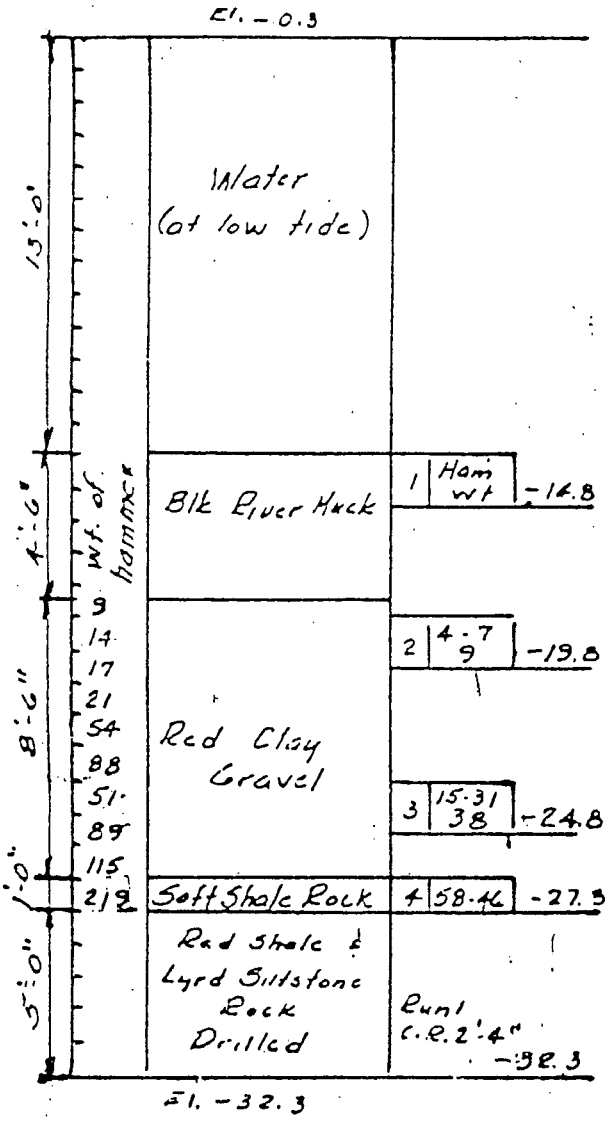
Elev. ref. to plant datum

24



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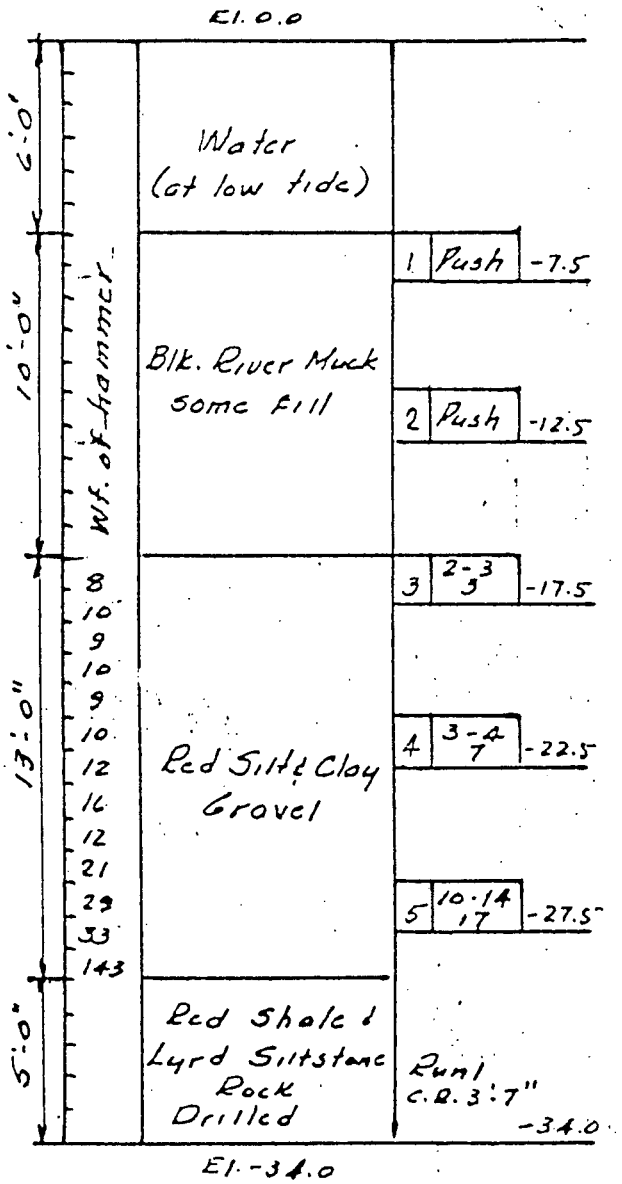

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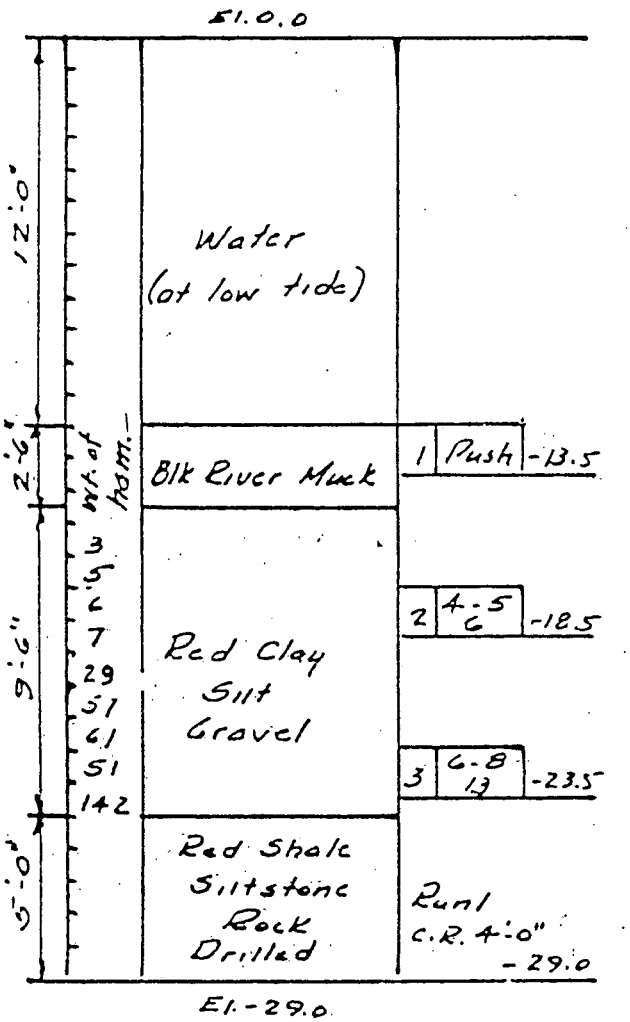

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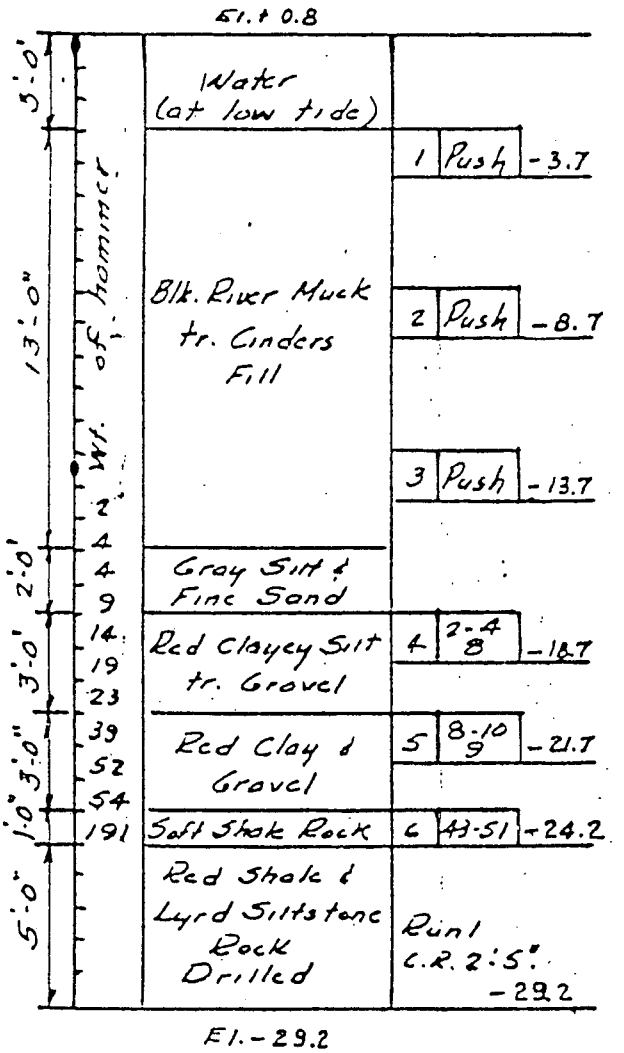

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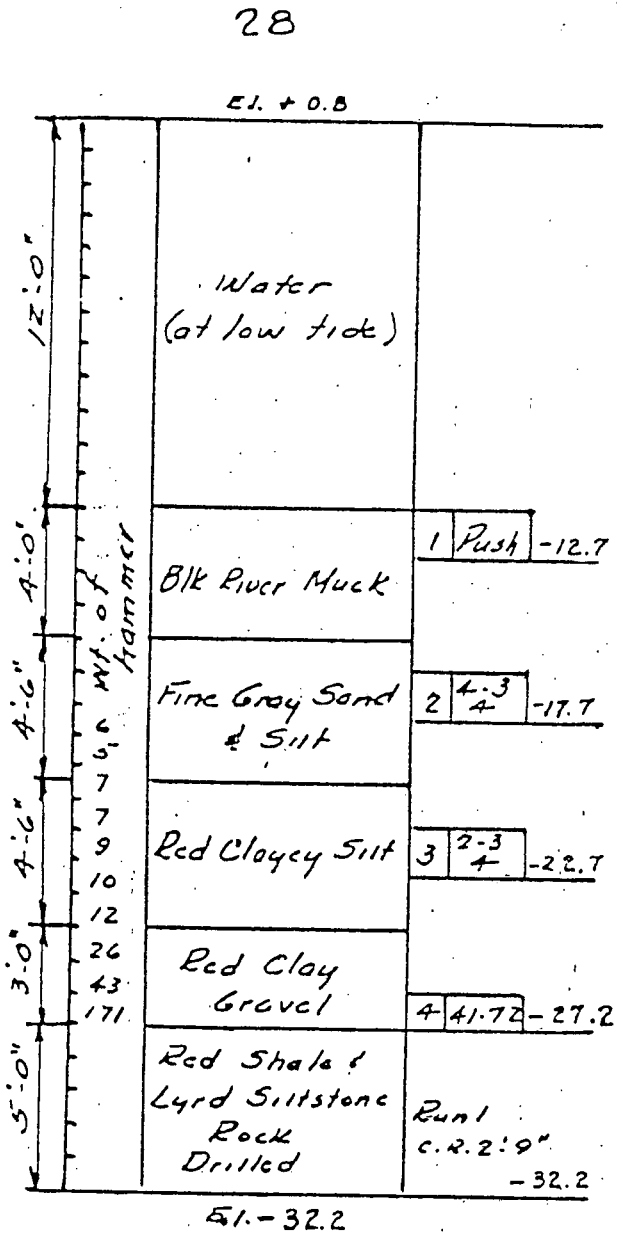

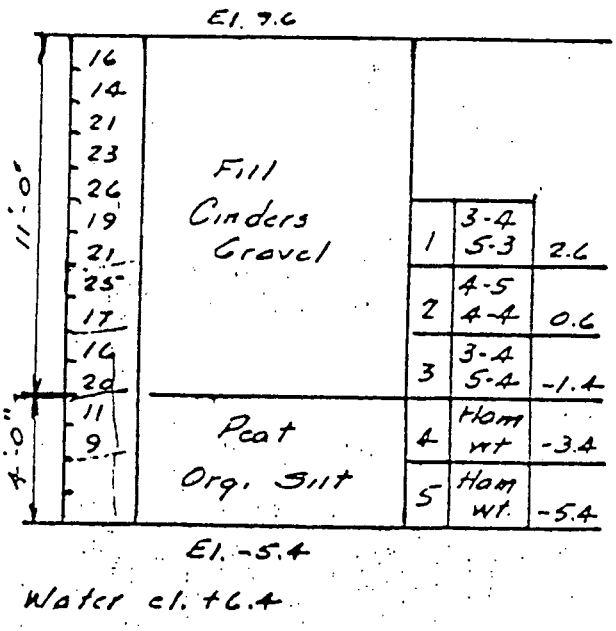

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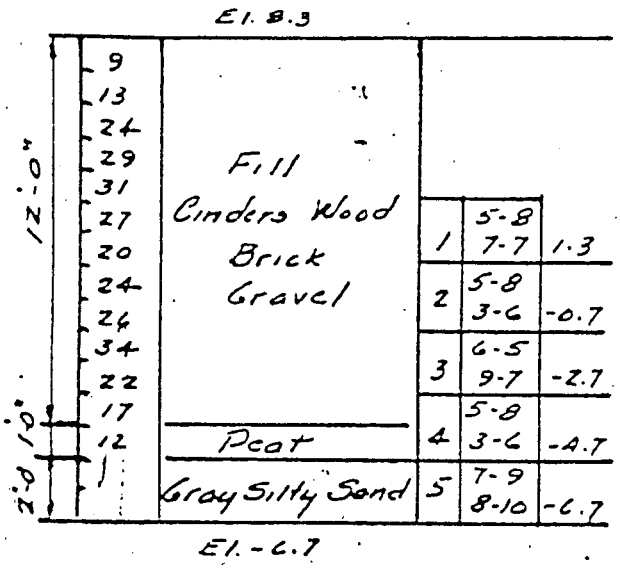
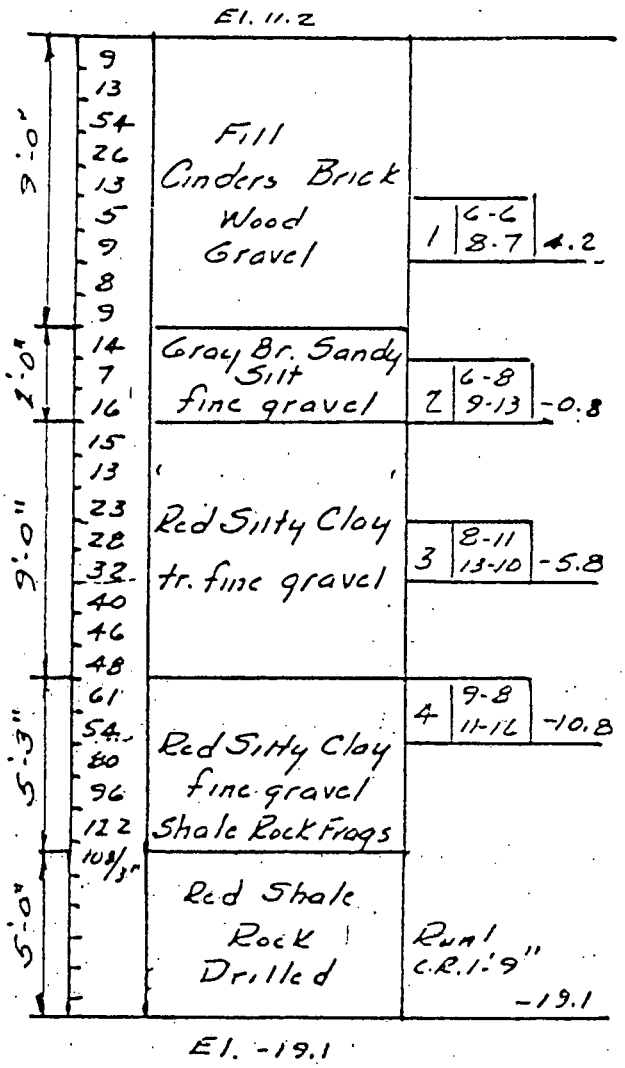


Water el. +6.0

31



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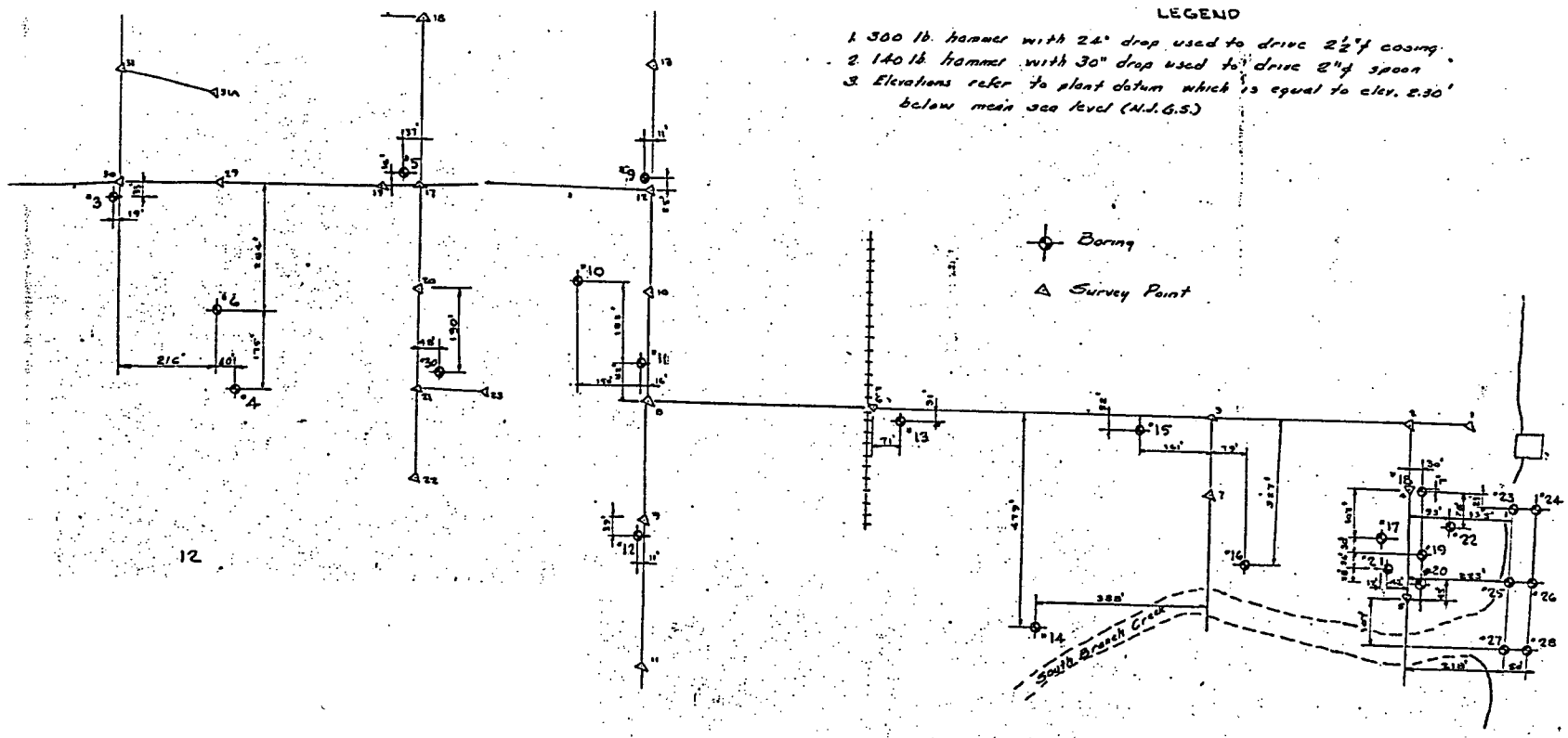
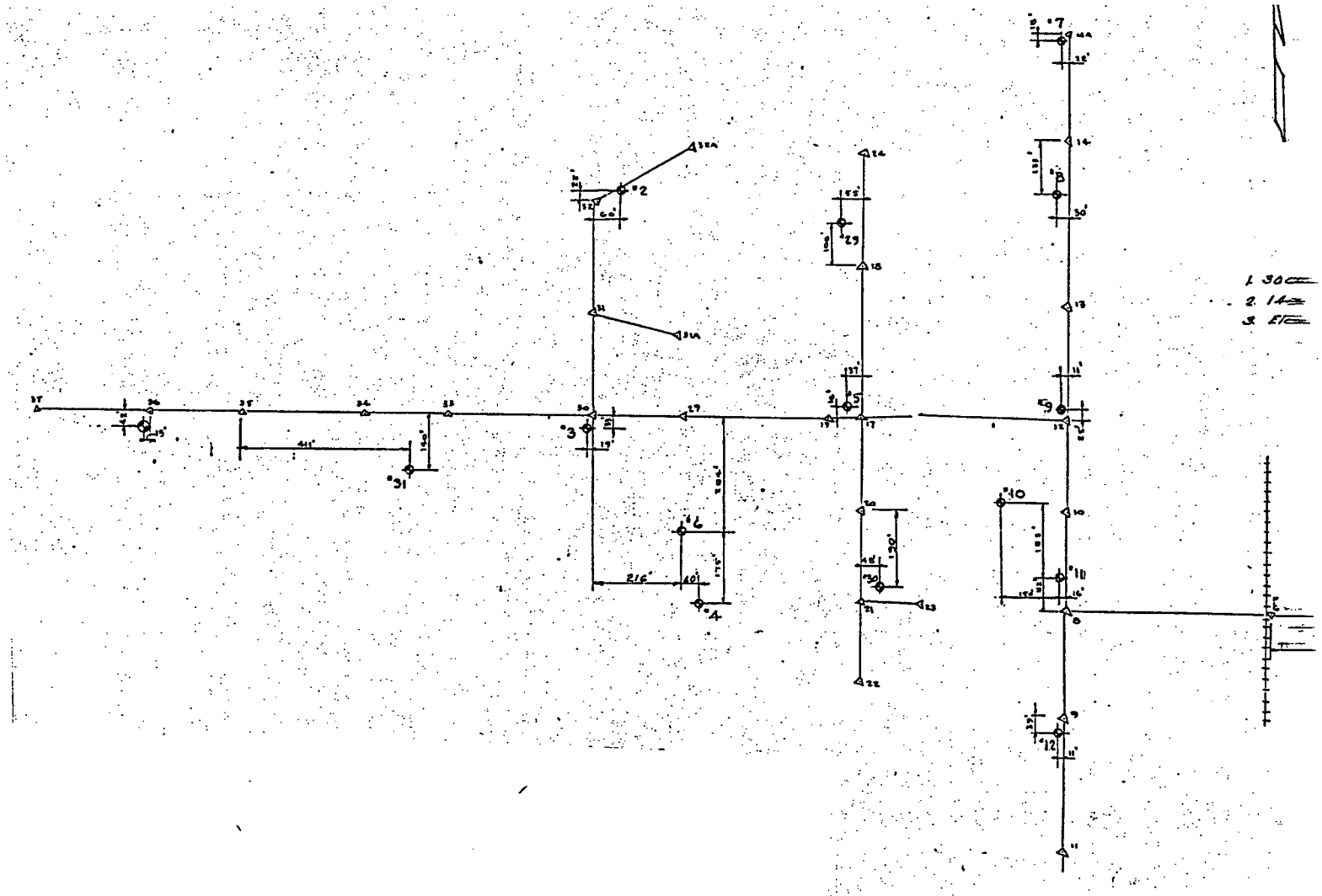
Hazen & Sawer, 3/10/69
GAF Drawing No. H-5708
Elev. ref. to plant datum

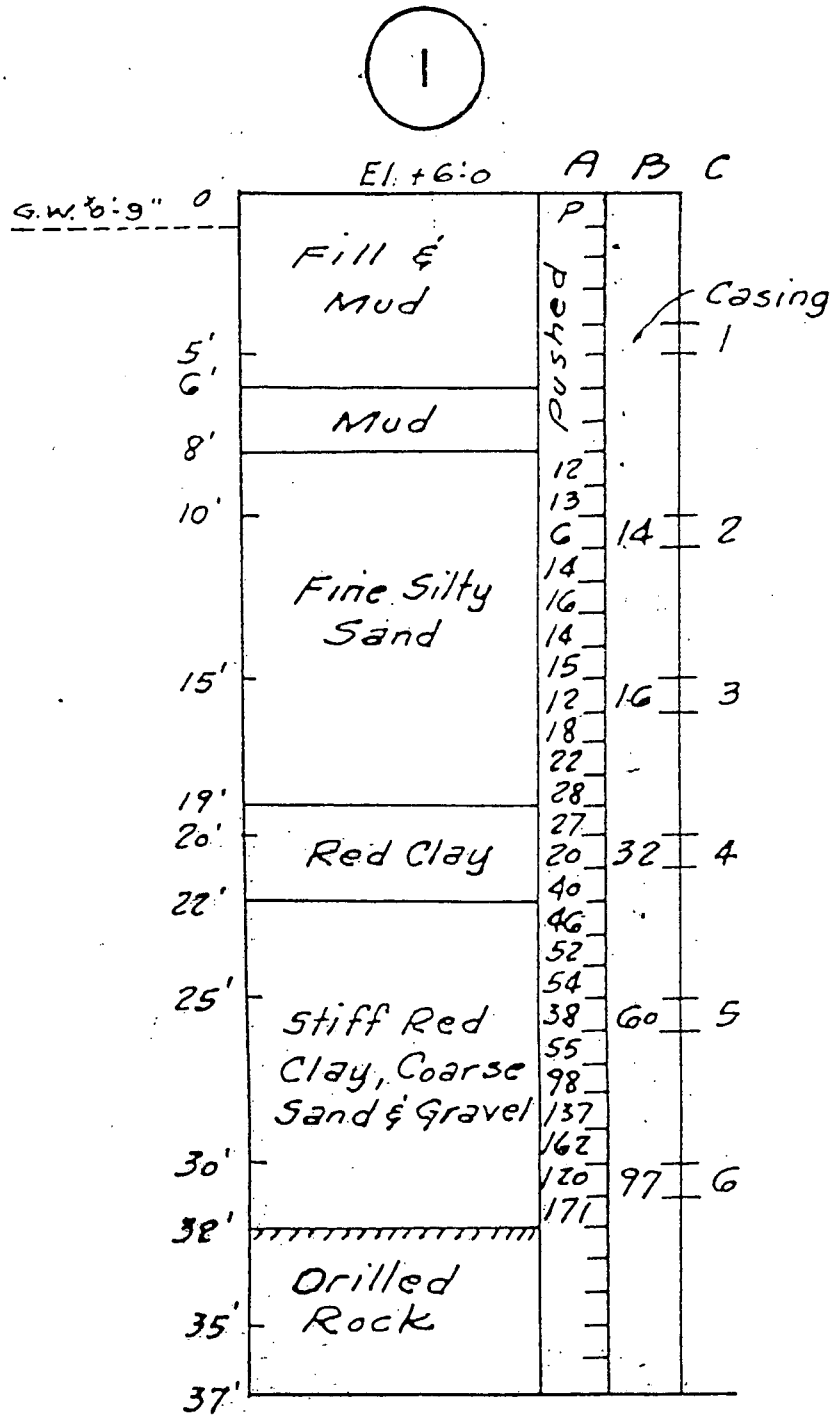


H-5707

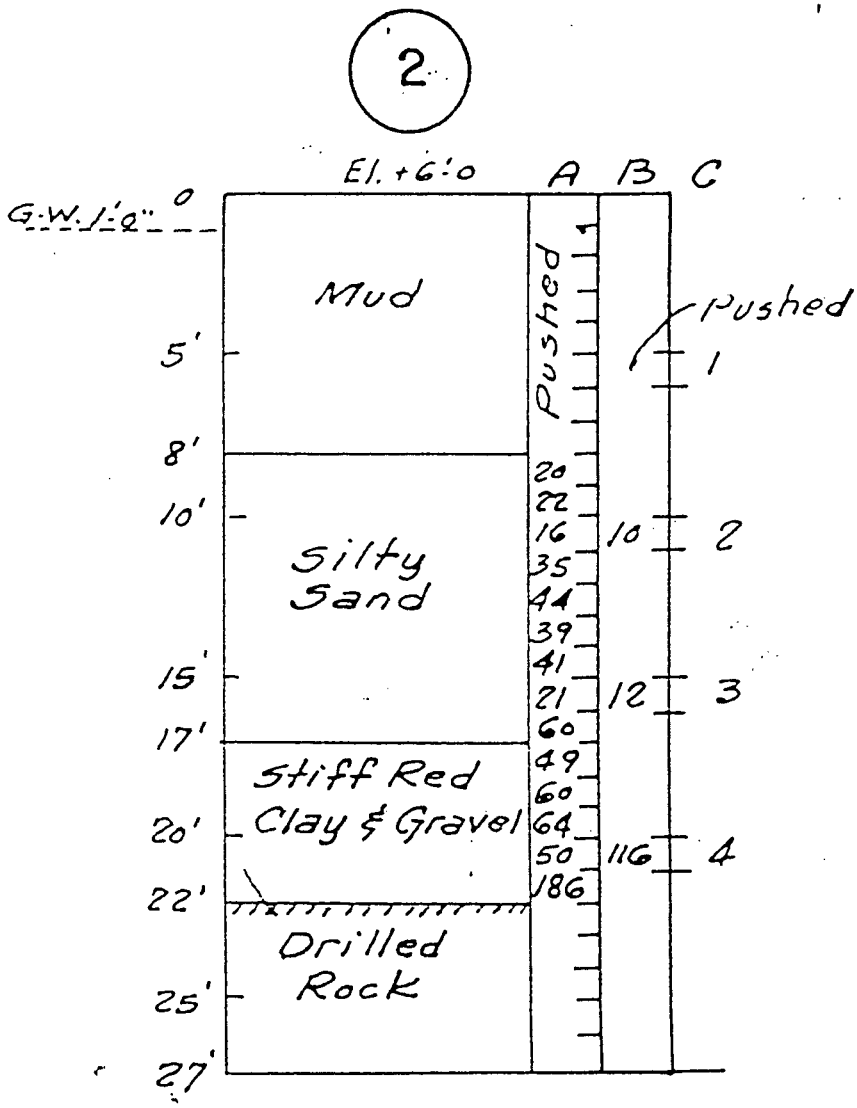
Hazen & Sawer, 3/10/69
GAF Drawing No. H-5707
1" = 400'



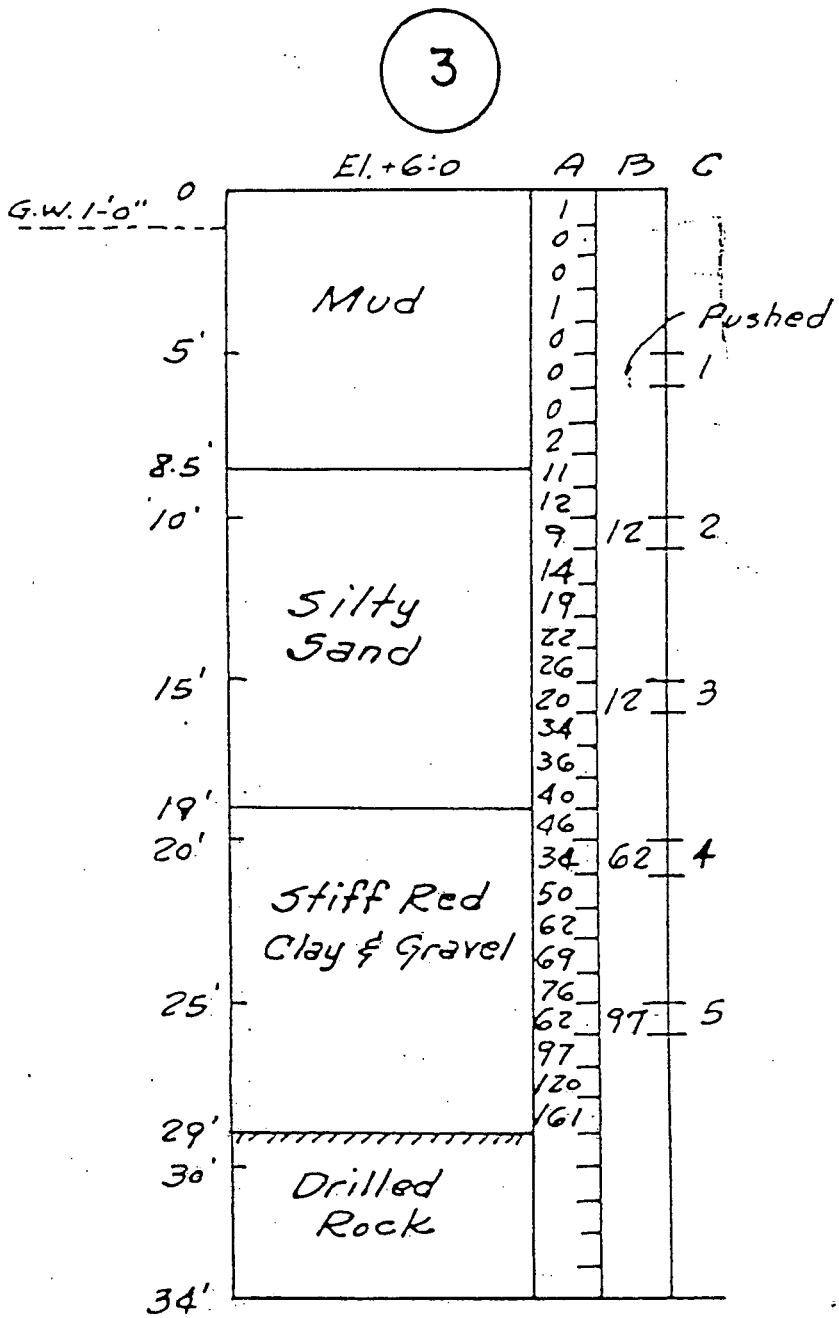
Hazen & Sawer, 3/10/69
GAF Drawing No. H-5707
1" = 400'



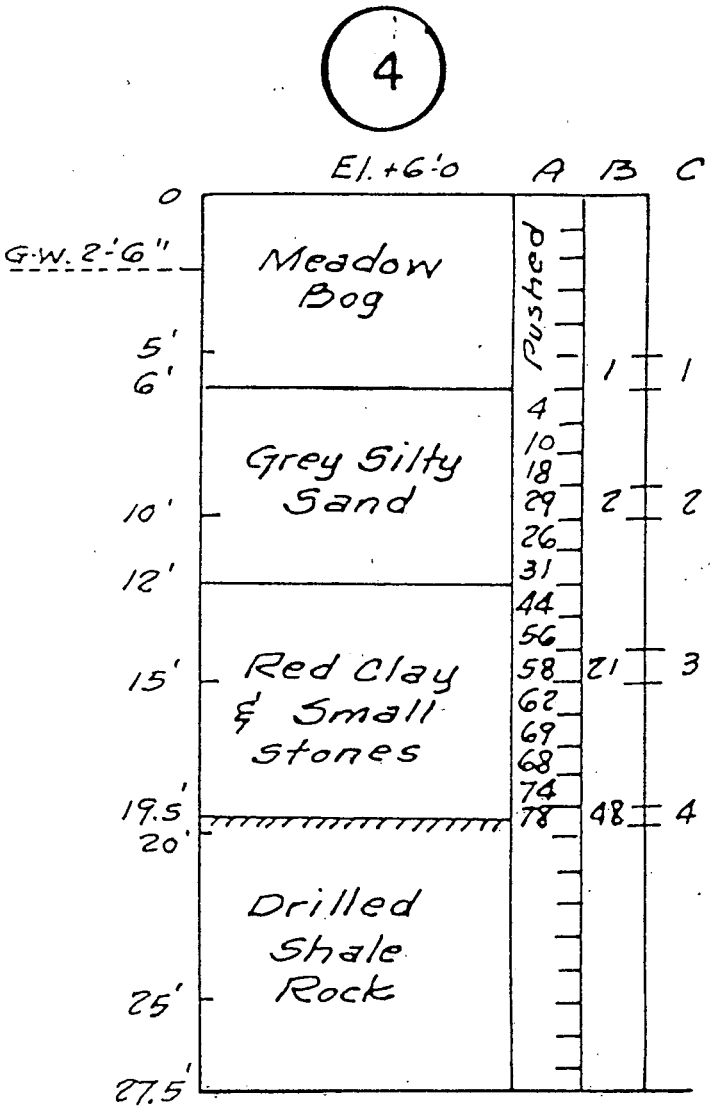
Riley Engineering & Drilling Co.
December, 1954
Datum: 0 = mean low water (plant datum?)
GAF Drawing No. H-1521



Riley Engineering & Drilling Co.
December, 1954
Datum: 0 = mean low water (plant datum?)
GAF Drawing No. H-1521

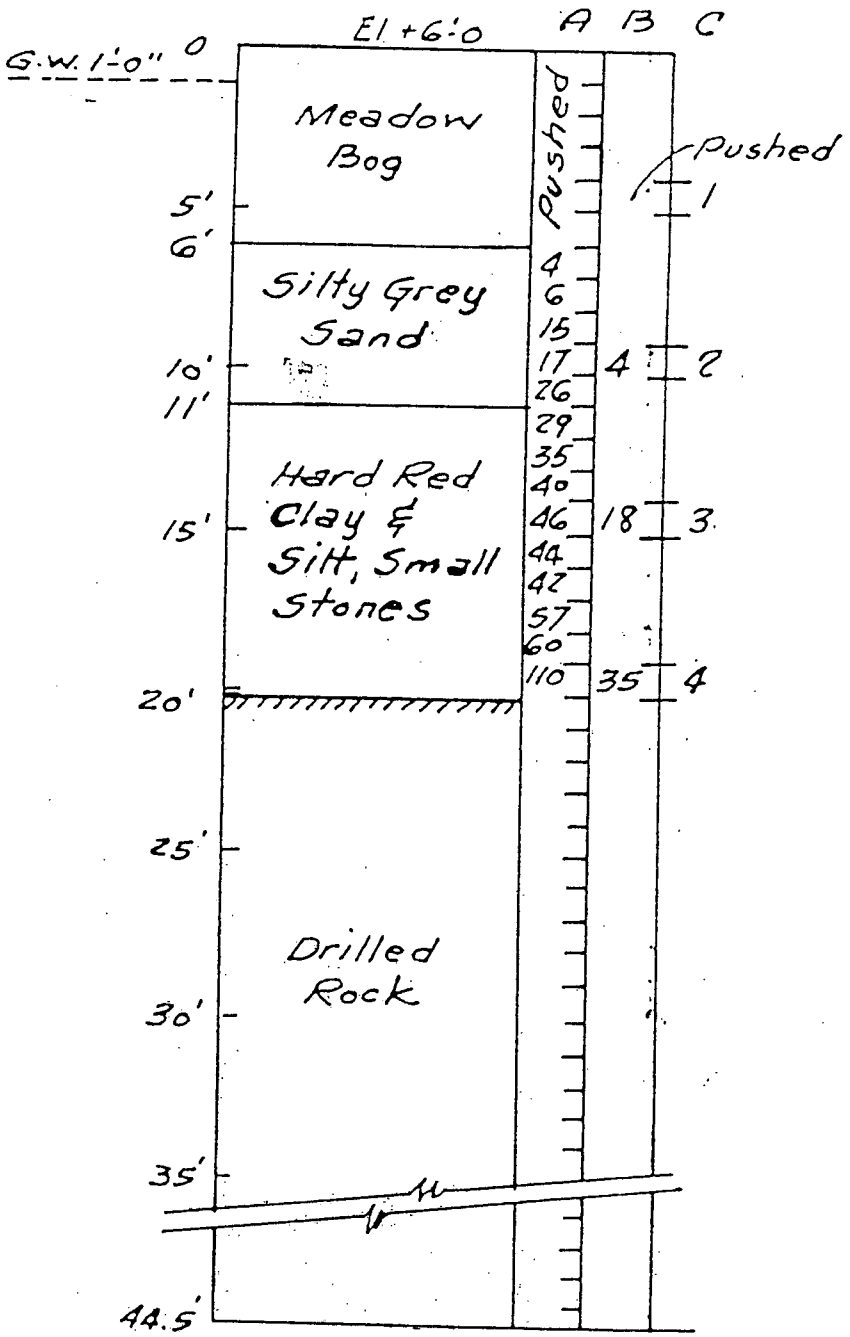


Riley Engineering & Drilling Co.
December, 1954
Datum: 0 = mean low water (plant datum?)
GAF Drawing No. H-1521



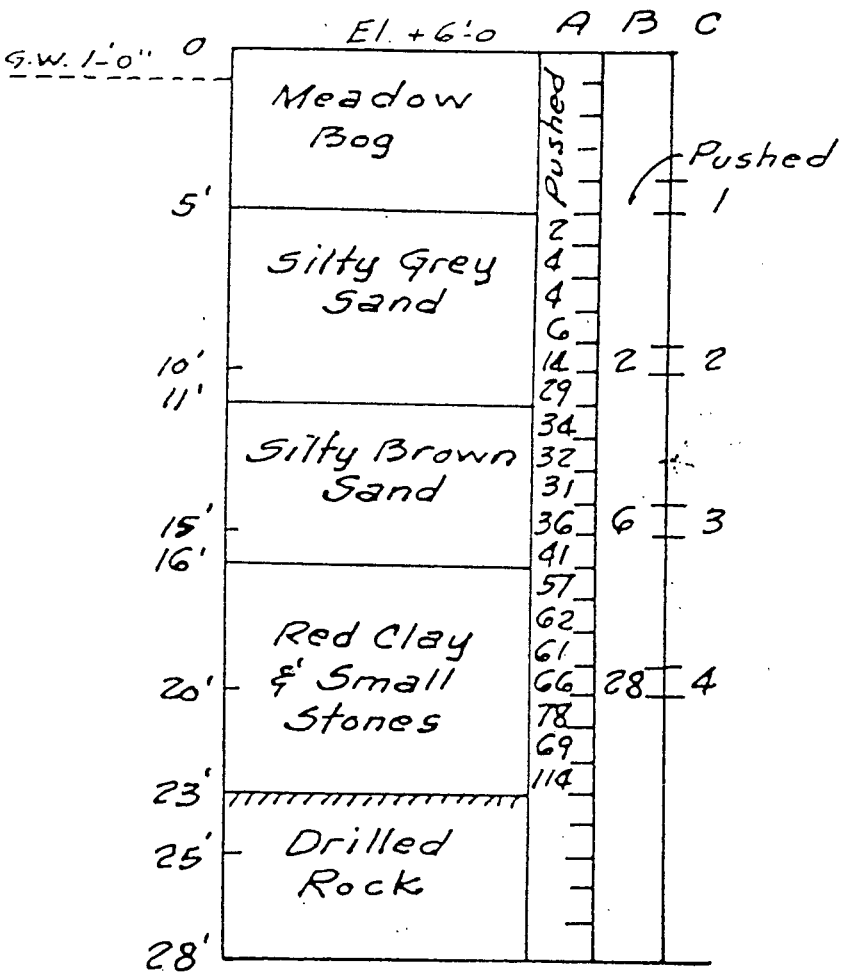
Riley Engineering & Drilling Co.
December, 1954
Datum: 0 = mean low water (plant datum?)
GAF Drawing No. H-1521

5



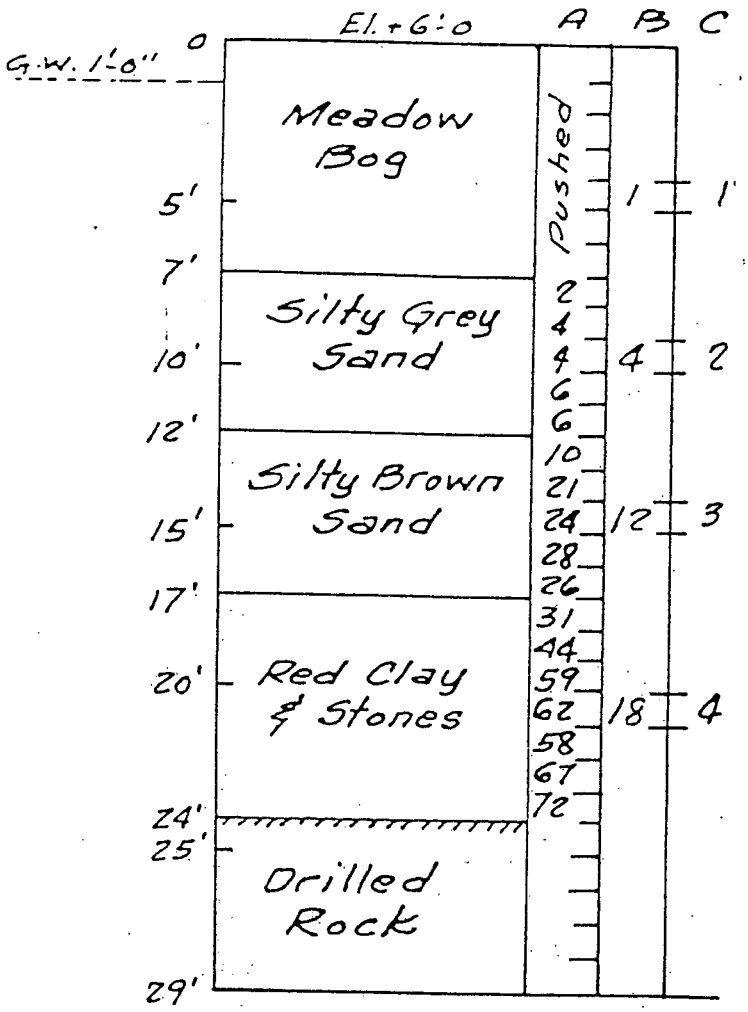
Riley Engineering & Drilling Co.
December, 1954
Datum: 0 = mean low water (plant datum?)
GAF Drawing No. H-1521

6



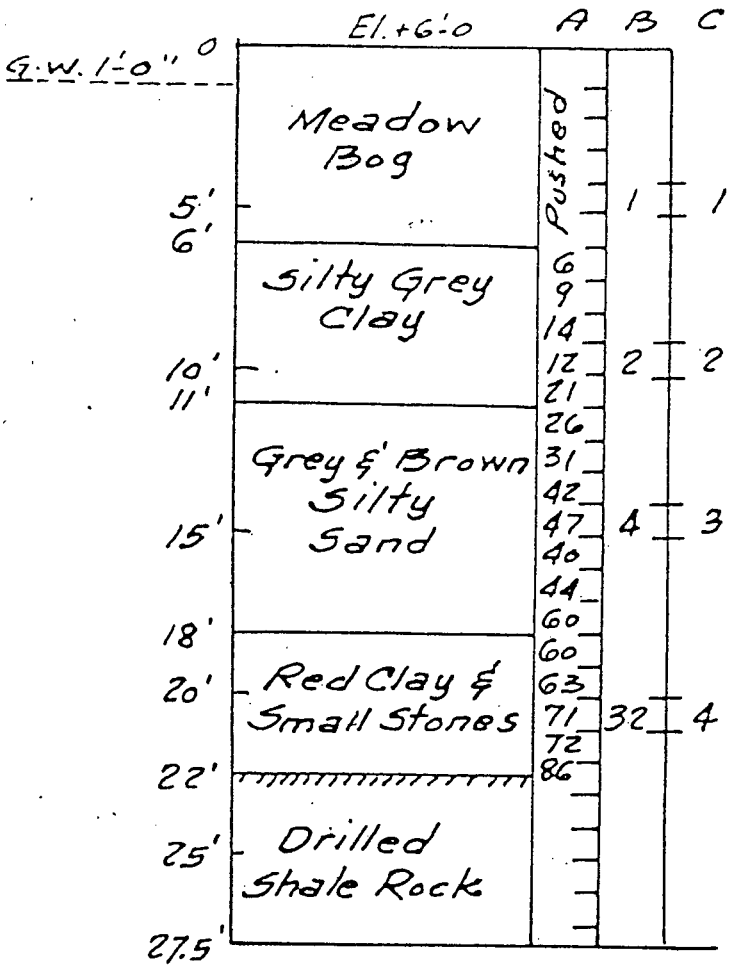
Riley Engineering & Drilling Co.
December, 1954
Datum: 0 = mean low water (plant datum?)
GAF Drawing No. H-1521

7



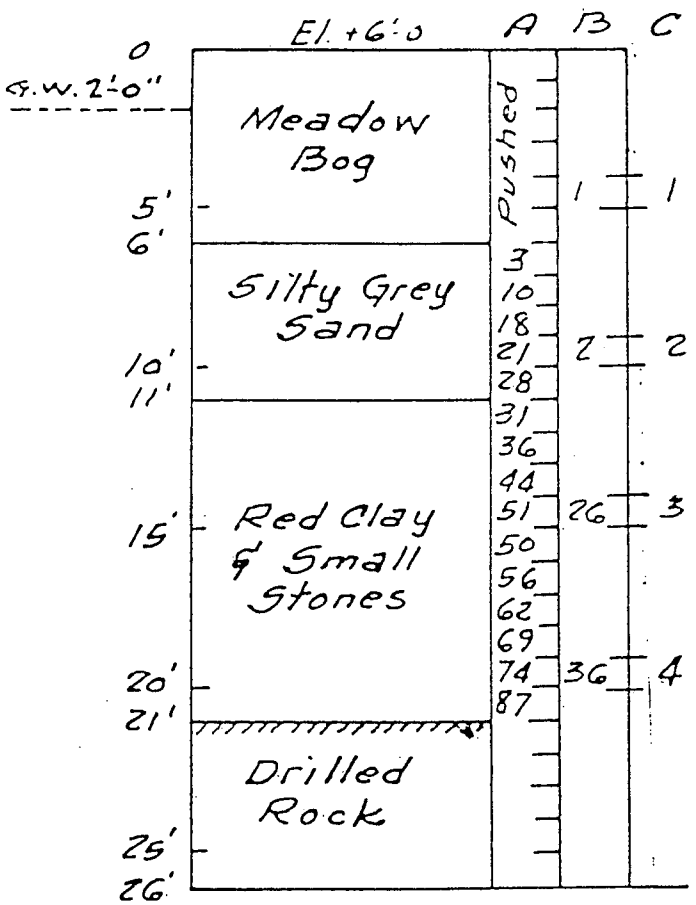
Riley Engineering & Drilling Co.
December, 1954
Datum: 0 = mean low water (plant datum?)
GAF Drawing No. H-1521

8



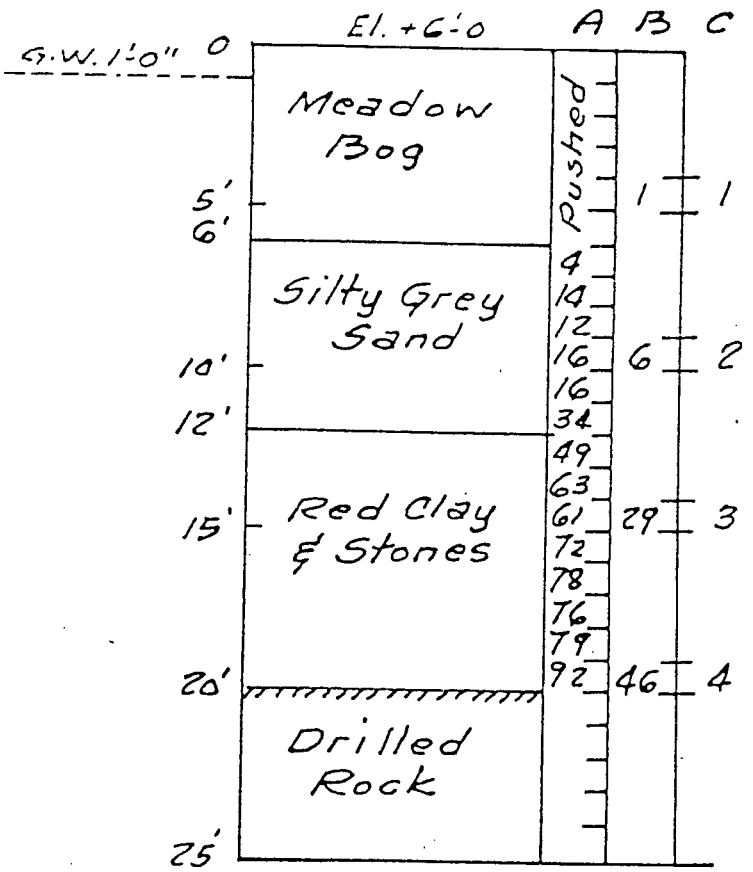
Riley Engineering & Drilling Co.
December, 1954
Datum: 0 = mean low water (plant datum?)
GAF Drawing No. H-1521

9



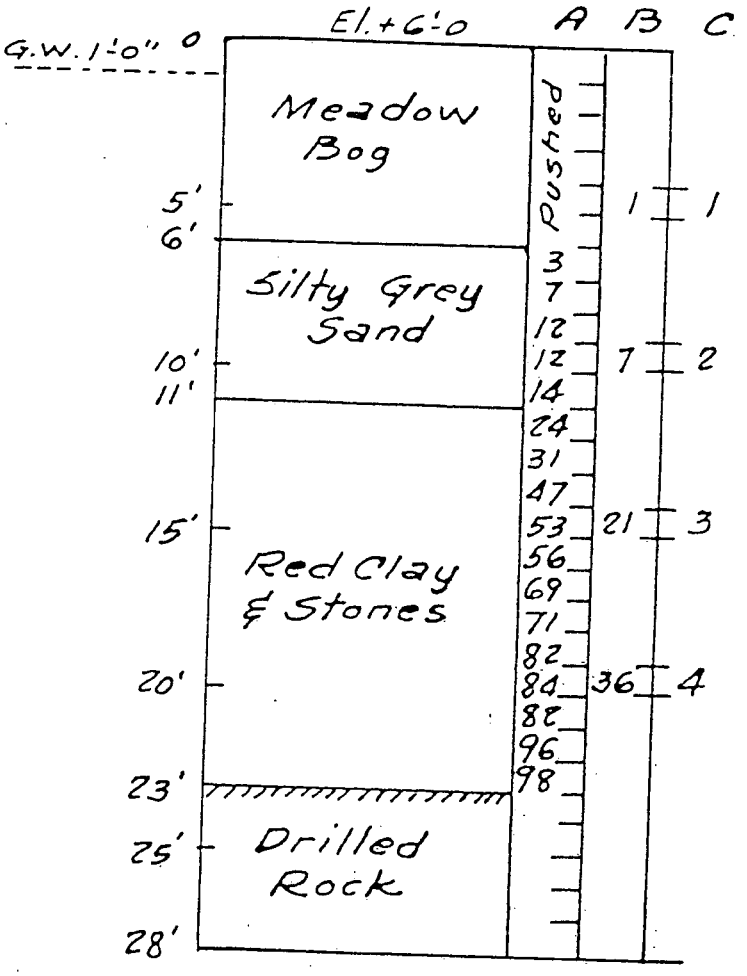
Riley Engineering & Drilling Co.
December, 1954
Datum: 0 = mean low water (plant datum?)
GAF Drawing No. H-1521

10



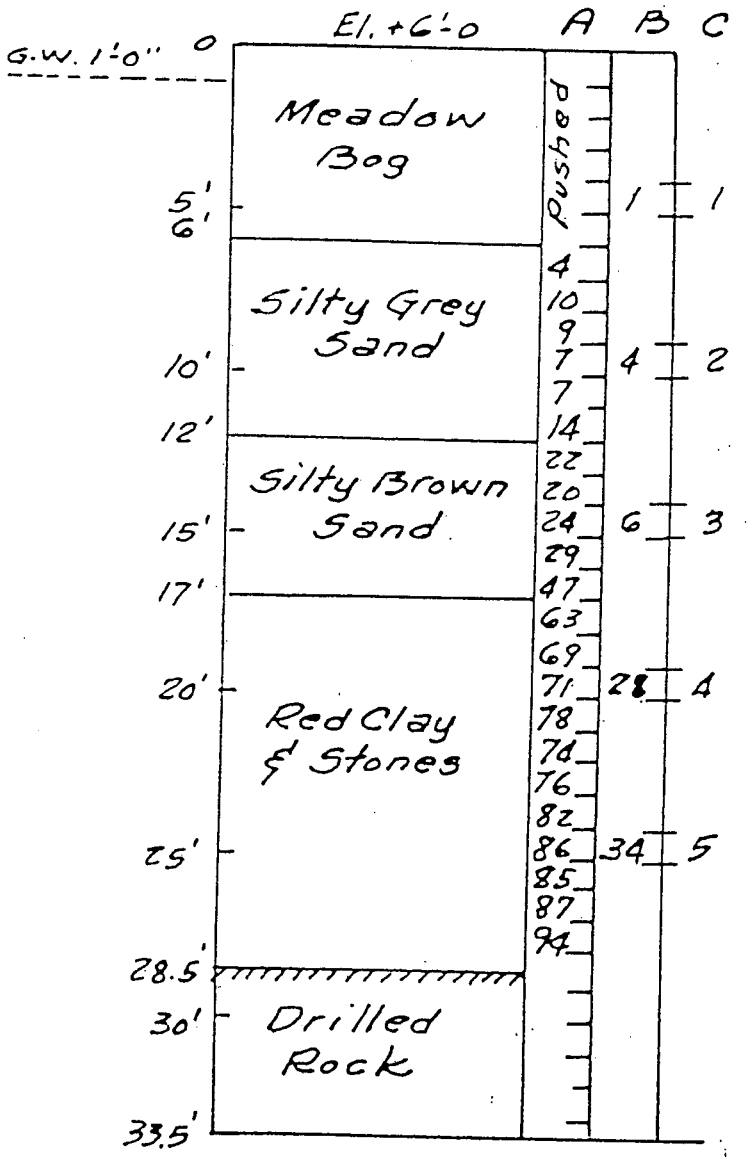
Riley Engineering & Drilling Co.
December, 1954
Datum: 0 = mean low water (plant datum?)
GAF Drawing No. H-1521

11

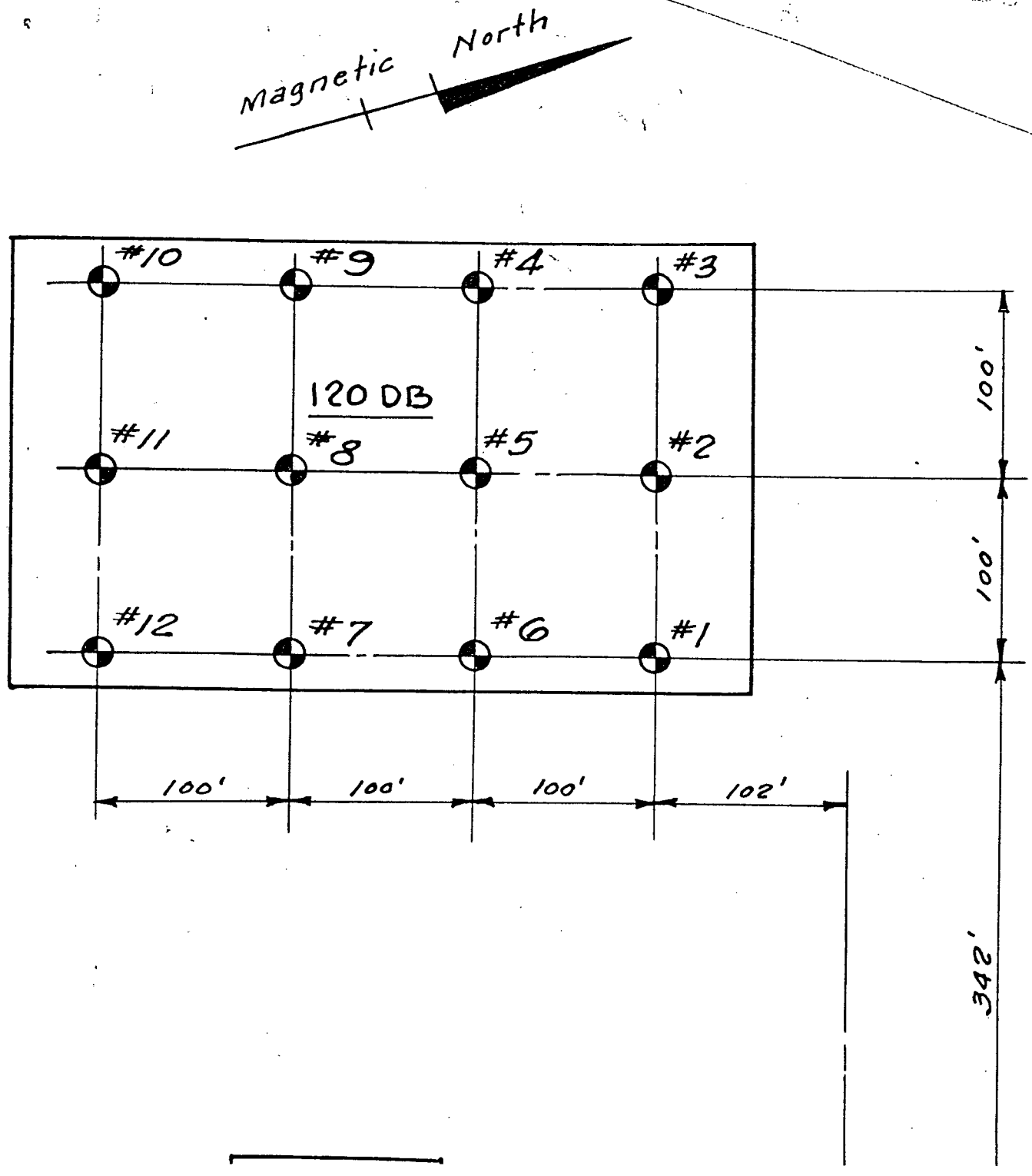


Riley Engineering & Drilling Co.
December, 1954
Datum: 0 = mean low water (plant datum?)
GAF Drawing NO. H-1521

12



Riley Engineering & Drilling Co.
December, 1954
Datum: 0 = mean low water (plant datum?)
GAF Drawing No. H-1521



Riley Engineering & Drilling Co.
December, 1954

APPENDIX D

COMPREHENSIVE WATER LEVEL DATA

ELEV-1-1

WATER LEVEL ELEVATION DATA

GAF Chemicals Corp., Linden, New Jersey

(Feet above mean sea level)

Location Number		Reference Elevation (ft. msl)	Well Depth (ft)	Ground Surface Elevation (ft. msl)	05/05/88	05/09/88	05/09/88	05/16/88	05/25/88	06/02/88	06/09/88	06/29/88	06/29/88	07/11/88	08/08/88	08/19/88	08/26/88	09/28/88
W 1		8.87		8.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--
W 2		9.63	19.5	7.3	5.25	--	--	6.37	5.06	5.73	--	--	--	5.37	5.61	--	5.46	5.17
W 3		8.94	18.0	9.0	5.51	--	--	5.56	5.82	5.72	--	--	--	5.62	5.89	--	5.76	5.43
W 4		7.15	10.0	7.1	5.79	--	--	6.09	6.50	6.18	--	--	--	5.38	6.28	--	6.15	5.61
W 5		9.51	12.0	7.6	4.68	--	--	4.93	5.30	4.81	--	--	--	4.35	4.90	--	4.99	4.43
W 6	*	7.11	9.5	7.0	4.79	--	--	4.77	4.94	4.15	--	--	--	3.81	3.93	--	4.93	4.01
W 7	*	8.18	28.0	7.0	4.54	--	--	4.69	4.97	4.69	4.61	--	--	4.25	4.63	--	4.61	4.51
SG 1		7.06		NA	4.90	5.31	4.26	5.16	5.36	4.92	--	--	--	--	5.21	--	4.86	--
SG 2		10.46		NA	0.21	-1.44	3.30	3.49	2.70	1.31	4.22	--	--	0.00	-0.74	--	1.23	3.29
SG 3		9.76		NA	4.94	4.93	4.94	4.88	4.89	4.89	--	--	--	4.83	4.86	--	4.96	4.98
SG 4		9.68		NA	4.99	4.93	4.96	4.87	4.90	4.81	--	--	--	4.76	4.83	--	4.93	4.94
SG 5		6.37		NA	4.54	4.58	4.55	4.56	4.50	4.16	--	--	--	4.05	4.16	--	4.79	4.20
SG 6		6.33		NA	4.51	4.53	4.50	4.52	4.45	4.12	--	--	--	3.99	4.08	--	4.76	4.15
SG 7	*	7.54		NA	4.52	4.53	4.51	4.53	4.46	4.10	--	--	--	4.03	4.12	--	4.76	4.17
SG 8	*	7.06		NA	4.52	4.55	4.52	4.53	4.47	3.91	--	--	--	3.36	3.75	--	4.69	3.86
SG 9	*	7.39		NA	4.50	4.55	4.51	4.53	4.48	4.00	--	--	--	3.37	3.51	--	4.72	3.65
SG 10	*	7.47		NA	4.55	4.59	4.54	4.57	4.49	3.95	--	--	--	--	3.81	--	4.80	3.85
SG 11		9.48		NA	2.98	-1.09	3.25	3.63	1.91	3.68	--	-0.12	-0.05	-1.22	-0.71	--	1.63	4.02
SG 12		5.92		NA	--	--	--	--	3.80	3.78	--	--	--	3.64	3.67	--	3.75	4.12
SG 13		6.04		NA	--	--	--	--	4.29	4.21	--	--	--	4.91	4.64	--	4.32	4.39
ST A		11.45		9.8	NA	--	--	6.41	--	6.62	--	--	--	3.47	6.72	--	6.47	--
ST B		11.79		10.5	NA	--	--	6.71	--	6.80	--	--	--	--	6.85	--	6.46	--
ST C		11.92		10.4	NA	--	--	6.72	--	6.70	--	--	--	--	7.02	--	6.59	--
ST D		13.63		11.4	6.48	--	--	6.87	7.83	6.90	--	--	--	--	5.88	--	6.49	3.93
WP 1		10.79	6.0	8.7	5.51	--	--	5.61	6.68	6.06	--	--	--	5.01	6.25	--	5.50	5.23
WP 2		13.55	6.5	11.4	5.87	--	--	5.85	6.21	6.00	--	--	--	5.42	6.24	--	5.89	5.67
WP 3		13.02	8.0	11.6	5.75	--	--	5.89	6.57	6.24	--	--	--	5.54	6.26	--	5.81	5.52
WP 4		9.14	7.0	7.4	5.71	--	--	5.74	5.83	5.50	--	--	--	4.14	4.56	--	4.74	4.31
WP 5		9.41	7.7	7.1	5.71	--	--	6.36	6.67	5.78	--	--	--	5.36	5.34	--	5.17	4.99

ELEV-1-2

WATER LEVEL ELEVATION DATA

GAF Chemicals Corp., Linden, New Jersey

(Feet above mean sea level)

Location Number		Reference Elevation (ft. msl)	Well Depth (ft)	Ground Surface Elevation (ft. msl)	05/05/88	05/09/88	05/09/88	05/16/88	05/25/88	06/02/88	06/09/88	06/29/88	06/29/88	07/11/88	08/08/88	08/19/88	08/26/88	09/28/88
WP 6		14.23	10.0	12.4	6.27	--	--	6.53	7.01	6.71	--	--	--	5.99	6.83	--	6.36	6.04
WP 7		10.64	5.0	8.4	5.49	--	--	5.72	6.29	5.88	--	--	--	5.07	6.00	--	5.86	5.41
WP 8		8.67	5.0	6.8	5.16	--	--	5.28	5.47	5.04	--	--	--	4.06	4.79	--	4.62	4.67
WP 9 R1	*	9.10	5.0	6.9	5.04	--	--	5.14	5.34	4.90	--	--	--	4.42	4.72	--	5.13	4.53
WP 9 R2	*	6.96	5.0	6.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 10	*	8.69	5.0	6.7	5.23	--	--	5.23	5.75	5.58	--	--	--	4.54	4.79	--	5.53	4.62
WP 11	*	10.41	7.5	8.4	6.54	--	--	6.95	7.60	7.03	--	--	--	5.01	6.60	--	5.66	5.53
WP 12	*	9.85	5.0	8.0	6.33	--	--	6.24	6.40	6.35	--	--	--	--	--	--	6.11	6.19
WP 13	*	9.35	5.0	7.2	5.56	--	--	5.76	6.63	5.54	--	--	--	--	--	--	5.53	DRY
WP 14	*	7.74	5.0	6.0	5.30	--	--	5.32	5.56	5.27	--	--	--	4.94	4.96	--	5.27	5.05
WP 15	*	9.45	5.0	7.4	5.23	--	--	5.17	5.84	5.02	--	--	--	4.69	4.76	--	5.20	5.33
WP 16	*	7.98	5.0	6.0	5.18	--	--	5.23	5.29	5.22	--	--	--	5.03	4.99	--	5.05	5.00
WP 17 S	*	8.58	2.0	6.7	--	--	--	--	--	--	--	--	--	--	5.90	5.02	5.35	5.48
WP 17 D	*	8.85	5.0	6.9	--	--	--	--	--	--	--	--	--	--	4.91	4.77	5.43	5.62
WP 18 S	*	8.69	2.5	7.1	--	--	--	--	--	--	--	--	--	--	5.51	5.23	6.08	5.29
WP 18 D	*	9.12	8.0	7.3	--	--	--	--	--	--	--	--	--	--	5.45	5.10	5.89	5.23
WP 19 S		9.29	5.0		--	--	--	--	--	--	--	--	--	--	4.45	4.32	4.99	4.34
WP 19 D		9.63	13.0		--	--	--	--	--	--	--	--	--	--	4.53	4.36	5.01	4.37
WP 20 S		9.83	1.5		--	--	--	--	--	--	--	--	--	--	6.85	6.77	7.62	6.90
WP 20 D		9.76	7.0		--	--	--	--	--	--	--	--	--	--	--	--	--	6.31
WP 21 R1	*	8.83	7.0	7.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 21 R2	*	8.08	7.0	7.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 22	*	9.40	7.0	6.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 23	*	8.77	7.0	6.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 24 R1	*	9.39	7.0	6.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 24 R2	*	6.70	7.0	6.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 24 R3	*	6.61	7.0	6.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 25 R1	*	8.25	7.0	7.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 25 R2	*	7.90	7.0	7.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--

ELEV-1-3

WATER LEVEL ELEVATION DATA

GAF Chemicals Corp., Linden, New Jersey

(Feet above mean sea level)

Location Number		Reference Elevation (ft. msl)	Well Depth (ft)	Ground Surface Elevation (ft. msl)	05/05/88	05/09/88	05/09/88	05/16/88	05/25/88	06/02/88	06/09/88	06/29/88	06/29/88	07/11/88	08/08/88	08/19/88	08/26/88	09/28/88
WP 25 R3	*	7.99	7.0	7.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 25 R4	*	7.49	7.0	7.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 26	*	10.91	7.0	8.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 27	*	9.13	7.0	6.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 28	*	9.47	5.0	7.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 29		6.37	8.0	6.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 30		6.22	6.0	6.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 31		6.59	6.0	6.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 32		10.05	7.0	7.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 33	*	6.46	8.0	6.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 34	*	10.88	6.0	7.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 35		9.30	7.0	6.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 36		10.95	7.0	8.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 37		10.28	7.0	7.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 38	*	7.46	8.0	7.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 39	*	9.62	8.0	7.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 40	*	8.49	8.0	8.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 41	*	8.07	7.5	8.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 1 S		11.95	10.0	9.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 1 D		11.25	49.5	9.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 2 S		9.76	10.0	7.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 3 S		12.19	10.0	9.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 4 S		7.15	10.0	7.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 5 S		9.51	12.0	7.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 6 S	*	8.95	9.5	7.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 6 D	*	9.05	28.0	6.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 7 S		12.70	9.0	9.7	4.40	--	--	4.68	6.49	5.83	5.36	4.50	4.40	4.05	6.09	--	5.31	4.63
GAF 7 D		11.36	45.0	9.5	--	--	--	--	--	5.49	5.55	5.29	5.16	4.95	5.96	--	5.53	5.06
GAF 8 S		8.21	10.0	6.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--

WATER LEVEL ELEVATION DATA

GAF Chemicals Corp., Linden, New Jersey

(Feet above mean sea level)

Location Number		Reference Elevation (ft. msl)	Well Depth (ft)	Ground Surface Elevation (ft. msl)	05/05/88	05/09/88	05/09/88	05/16/88	05/25/88	06/02/88	06/09/88	06/29/88	06/29/88	07/11/88	08/08/88	08/19/88	08/26/88	09/28/88
GAF 8 D		8.46	54.0	6.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 9 S	*	8.50	12.5	5.7	5.51	--	--	5.13	5.84	5.00	4.87	--	--	4.71	4.69	--	5.20	5.40
GAF 9 D	*	8.31	63.0	4.7	--	--	--	--	3.22	3.24	3.18	--	--	2.93	3.18	--	2.74	2.14
GAF 10 S	*	8.74	9.0	6.0	4.94	--	--	4.90	4.95	4.81	4.80	4.82	4.70	4.64	4.75	--	5.04	4.90
GAF 10 D	*	7.79	61.0	5.9	--	--	--	--	3.59	3.65	3.53	3.42	3.06	2.83	3.58	--	3.05	2.22
GAF 11 S		5.50	13.0		--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 11 D		5.30	54.0		--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 12 S	*	9.85	8.0	7.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 13 S		12.43	10.5	8.9	3.98	--	--	6.29	7.00	3.46	6.70	8.15	8.40	9.49	9.88	--	8.21	6.30
GAF 13 D		10.97	51.0	8.6	--	--	--	--	3.77	5.42	5.33	5.19	4.91	4.64	5.50	--	5.04	4.77
GAF 14 S		11.84	9.0	9.0	6.48	--	--	6.75	2.40	6.33	6.71	--	--	6.93	6.81	--	6.59	6.26
GAF 14 D		9.15	46.0	7.0	--	--	--	--	2.32	5.65	5.62	--	--	5.36	5.63	--	5.25	3.99
GAF 15 S	*	10.05	8.0	8.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 15 D	*	9.96	46.0	8.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 16 S	*	9.75	12.0	7.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 16 D	*	9.43	51.5	7.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 17 S		9.47	10.0	6.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 17 D		8.96	52.0	6.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 18 S		13.08	12.0	10.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 19 S		12.57	12.0	9.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 20 S		13.22	10.0	10.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 21 S		10.38	10.0	7.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 22 S		10.28	12.0	7.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 23 S		8.79	5.0	8.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 24 S		12.56	11.5	10.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 25 S		9.63	11.5	7.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 26 S		9.26	11.5	7.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 27 S		10.95	12.5	10.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 28 S	*	9.70	11.5	7.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--

ELEV-1-5

WATER LEVEL ELEVATION DATA

GAF Chemicals Corp., Linden, New Jersey

(Feet above mean sea level)

Location Number		Reference Elevation (ft. msl)	Well Depth (ft)	Ground Surface Elevation (ft. msl)	05/05/88	05/09/88	05/09/88	05/16/88	05/25/88	06/02/88	06/09/88	06/29/88	06/29/88	07/11/88	08/08/88	08/19/88	08/26/88	09/28/88
GAF 29 S		7.31	9.5	7.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 30 S		7.84	12.5	7.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WT 1	**	7.92	5.0	6.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WT 2	**	9.15	5.0	7.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WT 3	**	8.25	5.0	6.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WT 4	**	8.14	5.0	6.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WT 5	**	9.07	5.0	7.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WT 6	**	8.76	5.0	7.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WT 7	**	7.82	5.0	6.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TC 1 N	**	9.17	71.0	7.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TC 1 E	**	9.01	58.0	7.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TC 1 S	**	8.75	57.5	7.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TC 1 W	**	8.98	25.5	7.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TC 3 N	**	7.90	59.0	6.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TC 3 E	**	7.65	59.0	6.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TC 3 S	**	7.46	59.0	6.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TC 3 W	**	8.11	24.5	6.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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Notes:

* indicates well located in or adjacent to 950' x 950' incinerator area.

** indicates well installed by City of Linden MSSS contractor (Killam)

ELEV-2-1

WATER LEVEL ELEVATION DATA

GAF Chemicals Corp., Linden, New Jersey

(Feet above mean sea level)

Location Number		Reference Elevation (ft. msl)	Well Depth (ft)	Ground Surface Elevation (ft. msl)	10/14/88	10/31/88	11/11/88	12/02/88	12/16/88	12/29/88	01/18/89	02/01/89	03/03/89	03/07/89	03/15/89	03/30/89	04/14/89	04/19/89
W 1		8.87		8.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--
W 2		9.63	19.5	7.3	5.01	4.83	4.91	4.93	4.70	4.60	4.68	4.79	--	--	4.98	5.08	5.36	5.34
W 3		8.94	18.0	9.0	5.22	5.10	5.19	5.32	5.02	5.34	5.11	5.27	--	--	5.52	5.61	5.69	5.87
W 4		7.15	10.0	7.1	5.33	5.59	5.97	6.52	5.91	5.94	6.08	5.99	5.97	--	6.11	6.20	6.36	6.30
W 5		9.51	12.0	7.6	4.24	4.45	4.46	5.15	4.50	4.42	4.55	4.58	4.64	--	4.63	4.85	4.80	4.96
W 6	*	7.11	9.5	7.0	4.06	4.06	4.15	4.17	4.11	4.21	4.27	4.17	4.16	4.21	4.12	4.15	4.22	4.29
W 7	*	8.18	28.0	7.0	4.46	4.45	4.63	4.68	4.51	4.51	4.53	4.52	4.52	--	4.36	4.34	4.48	4.46
SG 1		7.06		NA	4.87	4.90	5.08	--	5.10	--	--	--	--	--	4.86	4.73	--	4.83
SG 2		10.46		NA	3.06	2.88	0.80	1.56	2.61	-0.70	-1.85	-0.40	--	--	-0.85	--	1.31	1.68
SG 3		9.76		NA	4.98	4.92	5.13	5.16	5.16	5.13	5.12	5.04	--	--	5.14	5.12	5.14	5.12
SG 4		9.68		NA	4.96	4.96	5.09	5.09	5.11	5.10	5.09	5.05	--	--	5.10	5.10	5.12	5.09
SG 5		6.37		NA	4.21	4.22	4.36	--	4.39	4.25	4.29	4.29	--	--	4.30	4.37	4.28	4.27
SG 6		6.33		NA	4.16	4.17	4.29	4.28	4.37	4.27	4.24	4.23	--	--	4.23	3.23	4.25	4.20
SG 7	*	7.54		NA	4.20	4.18	4.25	4.24	4.29	4.31	4.26	4.27	4.24	--	4.21	4.30	4.24	4.23
SG 8	*	7.06		NA	3.81	3.86	3.98	3.91	3.99	3.94	4.00	3.88	3.89	--	3.86	3.90	3.97	3.99
SG 9	*	7.39		NA	4.04	3.59	3.73	4.42	4.03	3.84	4.19	3.77	--	--	3.79	3.70	4.00	3.91
SG 10	*	7.47		NA	3.95	3.92	4.07	4.05	4.02	4.01	4.11	3.91	--	--	3.95	3.95	4.07	4.08
SG 11		9.48		NA	2.98	2.86	-2.29	1.58	2.58	-0.54	-0.05	-0.97	--	--	1.98	2.93	0.03	-1.24
SG 12		5.92		NA	3.76	3.77	3.81	3.96	3.87	4.03	3.92	3.95	--	--	3.92	3.96	3.95	3.99
SG 13		6.04		NA	4.25	4.33	4.38	4.54	4.34	4.57	4.40	4.39	--	--	4.24	4.20	4.22	4.23
ST A		11.45		9.8	5.47	6.07	--	--	--	--	--	--	--	--	--	--	--	--
ST B		11.79		10.5	5.71	5.96	--	--	--	--	--	--	--	--	--	--	--	--
ST C		11.92		10.4	5.65	6.07	--	--	--	--	--	--	--	--	--	--	--	--
ST D		13.63		11.4	5.61	6.02	6.58	--	6.51	6.62	7.09	6.91	--	--	7.30	7.30	7.48	7.88
WP 1		10.79	6.0	8.7	5.17	5.67	5.68	6.99	5.56	5.49	5.68	5.49	5.64	--	5.53	5.97	6.14	6.53
WP 2		13.55	6.5	11.4	5.60	5.58	5.68	5.95	5.75	5.75	5.84	5.73	--	--	5.82	6.08	6.15	6.28
WP 3		13.02	8.0	11.6	5.40	5.45	5.70	6.53	5.99	5.86	6.08	5.95	--	--	6.16	6.47	6.62	6.78
WP 4		9.14	7.0	7.4	4.25	4.61	4.64	4.86	4.66	5.40	5.26	5.37	--	--	5.02	4.82	5.05	5.18
WP 5		9.41	7.7	7.1	4.93	4.87	5.27	5.52	4.70	5.66	5.76	6.11	--	--	6.37	5.91	5.82	6.18

ELEV-2-2

WATER LEVEL ELEVATION DATA

GAF Chemicals Corp., Linden, New Jersey

(Feet above mean sea level)

Location Number		Reference Elevation (ft. msl)	Well Depth (ft)	Ground Surface Elevation (ft. msl)	10/14/88	10/31/88	11/11/88	12/02/88	12/16/88	12/29/88	01/18/89	02/01/89	03/03/89	03/07/89	03/15/89	03/30/89	04/14/89	04/19/89
WP 6		14.23	10.0	12.4	5.87	5.85	6.06	6.83	6.40	6.20	6.39	6.38	--	--	6.75	6.93	7.09	7.19
WP 7		10.64	5.0	8.4	5.09	5.49	5.76	6.45	5.61	5.63	5.76	5.73	--	--	5.92	6.04	6.11	6.22
WP 8		8.67	5.0	6.8	4.64	4.80	5.09	5.23	4.84	5.14	5.23	5.32	5.16	--	5.39	5.42	5.26	5.42
WP 9 R1	*	9.10	5.0	6.9	4.58	5.00	5.29	5.90	4.71	5.62	5.83	5.67	5.81	--	6.04	5.92	5.95	5.94
WP 9 R2	*	6.96	5.0	6.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 10	*	8.69	5.0	6.7	4.65	4.70	5.24	5.49	5.29	5.37	5.18	5.19	5.32	--	--	--	5.18	5.42
WP 11	*	10.41	7.5	8.4	5.00	5.84	6.70	7.11	6.30	7.01	7.10	7.18	7.00	--	7.46	7.39	7.15	7.36
WP 12	*	9.85	5.0	8.0	DRY	DRY	6.20	6.38	6.23	6.14	6.20	6.02	6.29	--	6.19	6.37	6.66	6.53
WP 13	*	9.35	5.0	7.2	DRY	DRY	5.35	5.88	DRY	5.39	5.62	5.32	5.51	5.48	5.37	4.72	5.69	5.98
WP 14	*	7.74	5.0	6.0	5.06	5.07	5.24	5.22	5.14	5.49	5.20	5.21	5.19	--	5.02	5.21	5.64	5.22
WP 15	*	9.45	5.0	7.4	4.77	4.98	4.67	5.00	4.73	4.36	5.16	4.82	4.74	--	4.72	4.76	4.70	4.89
WP 16	*	7.98	5.0	6.0	4.92	5.01	5.07	5.07	4.91	5.04	5.02	5.03	4.95	--	5.01	4.95	4.98	4.96
WP 17 S	*	8.58	2.0	6.7	DRY	5.07	DRY	DRY	DRY	DRY	DRY	DRY	--	--	DRY	DRY	DRY	DRY
WP 17 D	*	8.85	5.0	6.9	5.23	5.35	5.59	5.51	5.04	4.82	5.44	5.08	--	--	4.91	5.08	5.20	5.23
WP 18 S	*	8.69	2.5	7.1	5.35	5.37	5.79	6.03	5.53	6.05	5.99	5.97	5.01	--	5.76	5.82	6.02	6.12
WP 18 D	*	9.12	8.0	7.3	5.55	5.29	5.66	5.93	5.42	6.00	5.87	5.84	5.77	--	5.74	5.81	5.83	6.05
WP 19 S		9.29	5.0		4.24	4.29	4.40	4.62	4.36	4.82	4.44	4.46	4.45	--	4.57	4.49	4.58	4.61
WP 19 D		9.63	13.0		4.27	4.31	4.62	4.63	4.37	4.75	4.43	4.48	4.46	--	4.57	4.53	4.54	4.61
WP 20 S		9.83	1.5		6.98	6.95	7.22	7.37	6.81	7.62	7.60	7.52	--	--	7.35	7.16	7.22	7.35
WP 20 D		9.76	7.0		5.71	5.01	4.79	4.57	4.24	3.69	3.83	4.40	--	--	4.79	5.86	6.75	6.71
WP 21 R1	*	8.83	7.0	7.8	--	--	--	--	--	--	--	--	5.20	--	5.22	5.14	5.22	5.23
WP 21 R2	*	8.08	7.0	7.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 22	*	9.40	7.0	6.5	--	--	--	--	--	--	--	--	4.85	--	4.77	4.82	4.78	4.99
WP 23	*	8.77	7.0	6.8	--	--	--	--	--	--	--	--	4.89	--	4.86	4.90	4.86	5.03
WP 24 R1	*	9.39	7.0	6.5	--	--	--	--	--	--	--	--	4.31	4.30	--	--	--	--
WP 24 R2	*	6.70	7.0	6.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 24 R3	*	6.61	7.0	6.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 25 R1	*	8.25	7.0	7.4	--	--	--	--	--	--	--	--	5.80	--	--	--	--	--
WP 25 R2	*	7.90	7.0	7.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--

ELEV-2-3

WATER LEVEL ELEVATION DATA

GAF Chemicals Corp., Linden, New Jersey

(Feet above mean sea level)

Location Number		Reference Elevation (ft. msl)	Well Depth (ft)	Ground Surface Elevation (ft. msl)	10/14/88	10/31/88	11/11/88	12/02/88	12/16/88	12/29/88	01/18/89	02/01/89	03/03/89	03/07/89	03/15/89	03/30/89	04/14/89	04/19/89
WP 25 R3	*	7.99	7.0	7.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 25 R4	*	7.49	7.0	7.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 26	*	10.91	7.0	8.4	--	--	--	--	--	--	--	--	6.90	7.05	7.02	6.75	6.72	6.86
WP 27	*	9.13	7.0	6.2	--	--	--	--	--	--	--	--	5.38	--	5.40	5.44	5.37	5.48
WP 28	*	9.47	5.0	7.6	--	--	--	--	--	--	--	--	--	--	5.88	5.89	--	5.89
WP 29		6.37	8.0	6.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 30		6.22	6.0	6.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 31		6.59	6.0	6.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 32		10.05	7.0	7.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 33	*	6.46	8.0	6.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 34	*	10.88	6.0	7.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 35		9.30	7.0	6.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 36		10.95	7.0	8.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 37		10.28	7.0	7.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 38	*	7.46	8.0	7.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 39	*	9.62	8.0	7.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 40	*	8.49	8.0	8.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 41	*	8.07	7.5	8.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 1 S		11.95	10.0	9.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 1 D		11.25	49.5	9.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 2 S		9.76	10.0	7.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 3 S		12.19	10.0	9.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 4 S		7.15	10.0	7.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 5 S		9.51	12.0	7.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 6 S	*	8.95	9.5	7.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 6 D	*	9.05	28.0	6.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 7 S		12.70	9.0	9.7	4.24	5.30	5.50	6.70	5.33	4.88	5.01	4.59	--	4.82	4.71	5.32	5.93	6.00
GAF 7 D		11.36	45.0	9.5	5.07	5.06	5.70	5.86	5.51	5.32	5.31	5.24	--	5.09	5.21	5.21	5.54	5.28
GAF 8 S		8.21	10.0	6.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--

ELEV-2-4

WATER LEVEL ELEVATION DATA

GAF Chemicals Corp., Linden, New Jersey

(Feet above mean sea level)

Location Number		Reference Elevation (ft. msl)	Well Depth (ft)	Ground Surface Elevation (ft. msl)	10/14/88	10/31/88	11/11/88	12/02/88	12/16/88	12/29/88	01/18/89	02/01/89	03/03/89	03/07/89	03/15/89	03/30/89	04/14/89	04/19/89
GAF 8 D		8.46	54.0	6.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 9 S	*	8.50	12.5	5.7	4.78	5.00	4.79	4.92	4.75	3.93	5.23	4.79	--	5.01	4.83	5.32	4.90	4.77
GAF 9 D	*	8.31	63.0	4.7	2.53	2.53	3.40	3.16	2.84	2.68	3.04	3.15	--	2.93	2.88	2.92	2.87	2.94
GAF 10 S	*	8.74	9.0	6.0	4.76	4.80	4.99	5.03	5.01	5.12	5.03	5.05	4.98	4.78	4.72	4.74	5.02	4.69
GAF 10 D	*	7.79	61.0	5.9	2.14	3.25	3.67	3.46	3.14	3.01	3.26	3.35	3.19	3.08	3.25	3.19	3.15	3.14
GAF 11 S		5.50	13.0		--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 11 D		5.30	54.0		--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 12 S	*	9.85	8.0	7.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 13 S		12.43	10.5	8.9	5.89	5.04	5.01	--	2.79	2.72	2.62	2.90	--	--	3.69	4.53	5.78	5.67
GAF 13 D		10.97	51.0	8.6	4.53	4.69	5.12	5.34	4.85	4.82	4.94	4.92	--	--	4.79	4.95	5.34	5.12
GAF 14 S		11.84	9.0	9.0	6.03	6.15	6.51	--	6.16	6.52	6.80	6.72	--	--	6.14	6.32	6.87	6.34
GAF 14 D		9.15	46.0	7.0	4.38	4.13	4.97	4.89	4.70	4.59	4.66	4.76	--	4.72	4.78	4.85	5.36	5.10
GAF 15 S	*	10.05	8.0	8.0	--	--	--	--	--	--	--	--	--	6.68	6.98	6.57	7.28	7.18
GAF 15 D	*	9.96	46.0	8.0	--	--	--	--	--	--	--	--	--	3.32	3.75	3.28	3.15	3.63
GAF 16 S	*	9.75	12.0	7.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 16 D	*	9.43	51.5	7.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 17 S		9.47	10.0	6.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 17 D		8.96	52.0	6.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 18 S		13.08	12.0	10.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 19 S		12.57	12.0	9.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 20 S		13.22	10.0	10.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 21 S		10.38	10.0	7.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 22 S		10.28	12.0	7.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 23 S		8.79	5.0	8.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 24 S		12.56	11.5	10.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 25 S		9.63	11.5	7.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 26 S		9.26	11.5	7.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 27 S		10.95	12.5	10.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 28 S	*	9.70	11.5	7.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--

ELEV-2-5

WATER LEVEL ELEVATION DATA

GAF Chemicals Corp., Linden, New Jersey

(Feet above mean sea level)

Location Number		Reference Elevation (ft. msl)	Well Depth (ft)	Ground Surface Elevation (ft. msl)	10/14/88	10/31/88	11/11/88	12/02/88	12/16/88	12/29/88	01/18/89	02/01/89	03/03/89	03/07/89	03/15/89	03/30/89	04/14/89	04/19/89
GAF 29 S		7.31	9.5	7.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 30 S		7.84	12.5	7.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WT 1	**	7.92	5.0	6.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WT 2	**	9.15	5.0	7.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WT 3	**	8.25	5.0	6.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WT 4	**	8.14	5.0	6.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WT 5	**	9.07	5.0	7.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WT 6	**	8.76	5.0	7.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WT 7	**	7.82	5.0	6.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TC 1 N	**	9.17	71.0	7.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TC 1 E	**	9.01	58.0	7.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TC 1 S	**	8.75	57.5	7.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TC 1 W	**	8.98	25.5	7.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TC 3 N	**	7.90	59.0	6.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TC 3 E	**	7.65	59.0	6.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TC 3 S	**	7.46	59.0	6.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TC 3 W	**	8.11	24.5	6.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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Notes:

* indicates well located in or adjacent to 950' x 950' incinerator area.

** indicates well installed by City of Linden MSSS contractor (Killam)

ELEV-3-1

WATER LEVEL ELEVATION DATA

GAF Chemicals Corp., Linden, New Jersey

(Feet above mean sea level)

Location Number		Reference Elevation (ft. msl)	Well Depth (ft)	Ground Surface Elevation (ft. msl)	05/01/89	05/04/89	05/15/89	05/22/89	06/01/89	06/08/89	06/15/89	06/22/89	06/29/89	07/06/89	07/10/89	07/17/89	07/24/89	07/31/89
W 1		8.87		8.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--
W 2		9.63	19.5	7.3	5.26	5.31	5.46	5.66	5.55	5.62	5.88	5.69	5.67	5.61	5.66	5.68	5.65	5.65
W 3		8.94	18.0	9.0	5.84	5.88	5.73	5.82	5.80	7.12	7.84	5.92	5.92	5.89	6.02	7.59	5.93	5.92
W 4		7.15	10.0	7.1	6.01	6.20	6.42	6.65	6.27	6.37	6.53	6.30	6.01	6.34	6.36	6.30	6.12	5.88
W 5		9.51	12.0	7.6	4.96	5.12	5.12	5.47	4.96	4.98	5.42	4.99	4.61	5.57	5.13	5.02	4.74	4.59
W 6	*	7.11	9.5	7.0	4.06	5.04	4.19	4.30	4.08	4.26	4.31	4.10	4.04	5.76	4.22	4.65	4.16	4.10
W 7	*	8.18	28.0	7.0	4.33	4.46	4.48	4.72	4.39	4.51	4.76	4.45	4.40	4.51	4.54	4.54	4.47	4.40
SG 1		7.06		NA	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SG 2		10.46		NA	-0.39	-1.82	-1.12	-1.01	-1.81	3.21	2.88	3.05	-1.88	3.54	1.53	0.51	3.41	0.31
SG 3		9.76		NA	5.30	5.13	5.11	5.11	5.09	5.09	5.11	5.08	5.08	5.73	5.11	5.17	5.16	5.16
SG 4		9.68		NA	5.29	5.08	5.10	5.09	5.07	5.05	5.09	5.07	5.05	5.71	5.09	5.15	5.13	5.15
SG 5		6.37		NA	5.22	4.74	4.26	4.29	4.26	4.26	4.30	4.27	4.27	5.56	4.29	4.34	4.32	4.32
SG 6		6.33		NA	5.13	4.66	4.18	4.22	4.17	4.19	4.21	4.20	4.14	5.41	4.20	4.27	4.23	4.23
SG 7	*	7.54		NA	--	4.69	4.21	4.20	4.22	4.20	4.27	4.20	4.23	5.48	4.27	4.31	4.30	4.29
SG 8	*	7.06		NA	4.19	4.78	3.94	3.87	3.85	3.87	3.90	3.86	3.85	5.28	3.93	3.96	--	--
SG 9	*	7.39		NA	5.21	4.67	4.05	3.74	3.91	3.57	3.93	3.81	3.81	4.91	3.97	3.86	3.51	3.54
SG 10	*	7.47		NA	5.23	4.82	4.05	3.97	3.87	3.90	4.03	3.89	3.90	5.36	4.02	4.07	4.00	3.89
SG 11		9.48		NA	-1.72	-1.26	-0.39	-0.77	-1.39	2.27	2.38	3.01	-1.58	2.91	0.21	1.55	1.98	1.31
SG 12		5.92		NA	3.95	3.98	3.95	3.97	3.90	4.07	3.98	3.94	3.89	4.15	3.96	4.03	3.95	3.94
SG 13		6.04		NA	4.19	4.25	4.23	4.23	4.21	4.28	4.29	4.20	4.19	4.32	4.22	4.31	4.22	4.23
ST A		11.45		9.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ST B		11.79		10.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ST C		11.92		10.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ST D		13.63		11.4	6.84	7.66	7.77	7.88	7.31	7.50	8.00	7.45	6.96	7.49	7.38	7.37	7.09	6.63
WP 1		10.79	6.0	8.7	5.66	6.07	6.98	7.23	6.30	6.08	7.07	6.53	5.81	6.40	6.44	6.07	5.91	5.47
WP 2		13.55	6.5	11.4	6.09	5.30	5.64	6.62	6.18	6.23	6.23	6.13	6.03	6.15	6.03	6.28	5.99	5.94
WP 3		13.02	8.0	11.6	6.29	6.51	6.82	6.92	6.48	6.34	6.73	6.55	6.30	6.35	6.36	6.25	6.17	6.05
WP 4		9.14	7.0	7.4	4.77	4.87	4.83	4.82	5.34	5.14	5.12	4.73	4.67	5.01	4.74	5.23	4.70	4.39
WP 5		9.41	7.7	7.1	5.64	5.83	5.99	5.92	5.64	6.18	6.12	5.80	5.38	5.29	5.67	5.52	5.69	5.79

ELEV-3-2

WATER LEVEL ELEVATION DATA

GAF Chemicals Corp., Linden, New Jersey

(Feet above mean sea level)

Location Number		Reference Elevation (ft. msl)	Well Depth (ft)	Ground Surface Elevation (ft. msl)	05/01/89	05/04/89	05/15/89	05/22/89	06/01/89	06/08/89	06/15/89	06/22/89	06/29/89	07/06/89	07/10/89	07/17/89	07/24/89	07/31/89
WP 6		14.23	10.0	12.4	6.81	6.89	7.31	7.50	7.25	7.08	7.28	7.22	6.87	6.93	7.07	6.88	6.80	6.65
WP 7		10.64	5.0	8.4	5.82	6.09	6.46	6.69	6.12	6.22	6.68	6.21	5.80	6.42	6.28	6.27	5.94	5.69
WP 8		8.67	5.0	6.8	5.25	5.42	5.42	5.39	5.24	5.73	5.82	5.23	4.89	4.94	5.32	5.68	5.22	4.86
WP 9 R1	*	9.10	5.0	6.9	5.71	5.92	5.77	5.77	5.68	5.94	6.09	5.66	5.13	5.88	5.62	5.83	5.47	5.06
WP 9 R2	*	6.96	5.0	6.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 10	*	8.69	5.0	6.7	5.51	5.68	5.79	6.61	5.04	5.18	5.60	4.94	4.79	6.25	5.27	5.16	5.02	4.81
WP 11	*	10.41	7.5	8.4	6.93	7.03	7.18	7.33	6.94	6.94	7.45	6.95	6.52	6.44	6.95	6.66	6.76	6.30
WP 12	*	9.85	5.0	8.0	6.02	6.21	6.57	6.54	6.37	6.18	6.43	6.44	6.09	5.72	6.23	6.37	6.37	6.10
WP 13	*	9.35	5.0	7.2	5.37	6.03	6.11	5.98	5.39	5.98	6.32	5.61	DRY	6.32	5.90	6.09	5.52	DRY
WP 14	*	7.74	5.0	6.0	5.51	5.32	5.38	5.20	5.01	5.57	5.51	5.03	4.94	5.66	5.19	5.17	5.04	4.94
WP 15	*	9.45	5.0	7.4	4.69	5.08	5.01	4.83	4.63	5.15	5.20	4.68	4.48	5.50	4.89	5.20	4.70	4.52
WP 16	*	7.98	5.0	6.0	5.13	4.96	4.95	4.97	4.90	4.96	4.98	4.91	4.73	5.29	4.96	4.97	4.91	4.74
WP 17 S	*	8.58	2.0	6.7	DRY	DRY	6.15	DRY	DRY	5.31	DRY	DRY	DRY	5.64	DRY	5.19	DRY	DRY
WP 17 D	*	8.85	5.0	6.9	4.92	5.29	5.23	5.02	4.82	4.98	5.37	4.88	4.72	5.61	5.04	4.89	4.87	4.73
WP 18 S	*	8.69	2.5	7.1	5.97	6.16	6.17	6.49	5.69	6.17	6.25	5.74	5.38	6.35	6.05	5.83	5.69	5.33
WP 18 D	*	9.12	8.0	7.3	5.83	6.03	6.05	6.39	5.73	5.93	6.16	5.74	5.43	6.03	5.97	5.74	5.72	5.37
WP 19 S		9.29	5.0		5.22	5.04	4.64	4.71	4.63	4.68	4.67	4.65	4.47	5.67	4.76	4.82	4.59	4.56
WP 19 D		9.63	13.0		5.23	5.05	4.63	4.71	4.63	4.61	4.65	4.57	4.46	5.65	4.74	4.79	4.58	4.53
WP 20 S		9.83	1.5		7.26	7.44	7.27	7.03	6.97	7.52	7.60	6.98	6.78	7.61	7.26	7.45	7.10	6.90
WP 20 D		9.76	7.0		7.14	7.33	7.34	7.41	7.86	8.03	8.36	8.22	8.43	8.51	8.46	8.39	7.99	7.65
WP 21 R1	*	8.83	7.0	7.8	5.14	5.34	5.19	5.14	4.84	5.38	5.37	4.85	4.73	5.68	5.16	5.09	4.84	4.73
WP 21 R2	*	8.08	7.0	7.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 22	*	9.40	7.0	6.5	5.03	5.39	5.09	4.85	4.75	5.41	5.22	4.72	4.54	5.94	4.91	5.40	4.72	4.57
WP 23	*	8.77	7.0	6.8	4.85	5.26	5.17	4.97	4.79	5.33	5.27	4.80	4.63	5.70	5.02	5.19	4.83	4.64
WP 24 R1	*	9.39	7.0	6.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 24 R2	*	6.70	7.0	6.5	--	--	--	--	--	--	4.47	4.34	4.28	5.46	4.51	4.54	4.33	4.26
WP 24 R3	*	6.61	7.0	6.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 25 R1	*	8.25	7.0	7.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 25 R2	*	7.90	7.0	7.4	--	--	--	--	--	--	6.90	5.74	5.25	6.73	6.02	6.85	5.60	5.18

ELEV-3-3

WATER LEVEL ELEVATION DATA

GAF Chemicals Corp., Linden, New Jersey

(Feet above mean sea level)

Location Number		Reference Elevation (ft. msl)	Well Depth (ft)	Ground Surface Elevation (ft. msl)	05/01/89	05/04/89	05/15/89	05/22/89	06/01/89	06/08/89	06/15/89	06/22/89	06/29/89	07/06/89	07/10/89	07/17/89	07/24/89	07/31/89
WP 25 R3	*	7.99	7.0	7.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 25 R4	*	7.49	7.0	7.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 26	*	10.91	7.0	8.4	6.78	6.78	6.69	6.71	6.88	7.44	7.48	7.08	7.02	7.40	7.27	7.59	7.18	7.04
WP 27	*	9.13	7.0	6.2	5.32	5.51	5.45	5.39	5.28	5.59	5.62	5.31	5.13	5.68	5.46	5.61	5.34	5.12
WP 28	*	9.47	5.0	7.6	5.79	5.89	5.85	5.85	5.71	6.00	6.04	5.66	5.55	6.15	5.79	6.08	5.67	5.50
WP 29		6.37	8.0	6.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 30		6.22	6.0	6.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 31		6.59	6.0	6.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 32		10.05	7.0	7.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 33	*	6.46	8.0	6.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 34	*	10.88	6.0	7.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 35		9.30	7.0	6.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 36		10.95	7.0	8.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 37		10.28	7.0	7.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 38	*	7.46	8.0	7.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 39	*	9.62	8.0	7.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 40	*	8.49	8.0	8.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 41	*	8.07	7.5	8.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 1 S		11.95	10.0	9.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 1 D		11.25	49.5	9.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 2 S		9.76	10.0	7.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 3 S		12.19	10.0	9.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 4 S		7.15	10.0	7.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 5 S		9.51	12.0	7.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 6 S	*	8.95	9.5	7.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 6 D	*	9.05	28.0	6.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 7 S		12.70	9.0	9.7	5.07	5.63	6.47	6.98	5.78	5.72	6.89	5.98	5.35	6.61	6.05	5.71	5.41	4.92
GAF 7 D		11.36	45.0	9.5	5.26	5.22	5.53	5.96	5.49	5.47	6.12	5.36	5.30	4.83	5.28	5.21	5.29	5.15
GAF 8 S		8.21	10.0	6.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--

WATER LEVEL ELEVATION DATA

GAF Chemicals Corp., Linden, New Jersey

(Feet above mean sea level)

Location Number		Reference Elevation (ft. msl)	Well Depth (ft)	Ground Surface Elevation (ft. msl)	05/01/89	05/04/89	05/15/89	05/22/89	06/01/89	06/08/89	06/15/89	06/22/89	06/29/89	07/06/89	07/10/89	07/17/89	07/24/89	07/31/89
GAF 8 D		8.46	54.0	6.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 9 S	*	8.50	12.5	5.7	4.57	4.86	4.82	4.73	4.53	5.05	5.08	4.58	4.43	5.41	4.74	5.12	4.60	4.46
GAF 9 D	*	8.31	63.0	4.7	2.76	2.72	2.81	3.17	2.74	2.82	3.22	2.65	2.79	2.74	2.80	3.04	2.69	2.79
GAF 10 S	*	8.74	9.0	6.0	4.47	4.66	4.59	4.80	4.38	4.86	5.19	4.51	4.38	4.92	4.68	5.01	4.55	4.42
GAF 10 D	*	7.79	61.0	5.9	2.86	2.95	3.25	3.46	2.95	3.15	3.52	3.11	2.96	2.97	3.07	3.17	3.14	3.01
GAF 11 S		5.50	13.0		--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 11 D		5.30	54.0		--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 12 S	*	9.85	8.0	7.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 13 S		12.43	10.5	8.9	6.13	6.39	6.99	7.55	7.90	8.75	9.46	9.16	9.09	9.69	9.99	9.96	9.63	9.72
GAF 13 D		10.97	51.0	8.6	5.00	5.17	5.43	5.87	5.40	5.46	6.01	5.57	5.36	5.53	5.60	5.46	5.45	5.22
GAF 14 S		11.84	9.0	9.0	6.31	6.37	6.34	7.23	6.51	6.64	7.34	6.48	6.51	6.57	6.62	6.54	6.40	6.39
GAF 14 D		9.15	46.0	7.0	5.01	5.06	5.18	5.54	5.27	5.35	5.71	5.41	5.37	5.33	5.38	5.40	5.38	5.38
GAF 15 S	*	10.05	8.0	8.0	7.00	7.13	7.21	7.59	7.28	7.62	7.90	7.38	7.27	7.51	7.62	7.68	7.35	7.25
GAF 15 D	*	9.96	46.0	8.0	3.39	3.44	3.53	3.93	3.39	3.54	3.93	3.46	3.37	3.49	3.58	3.57	3.47	3.39
GAF 16 S	*	9.75	12.0	7.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 16 D	*	9.43	51.5	7.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 17 S		9.47	10.0	6.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 17 D		8.96	52.0	6.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 18 S		13.08	12.0	10.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 19 S		12.57	12.0	9.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 20 S		13.22	10.0	10.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 21 S		10.38	10.0	7.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 22 S		10.28	12.0	7.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 23 S		8.79	5.0	8.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 24 S		12.56	11.5	10.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 25 S		9.63	11.5	7.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 26 S		9.26	11.5	7.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 27 S		10.95	12.5	10.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 28 S	*	9.70	11.5	7.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--

ELEV-3-5

WATER LEVEL ELEVATION DATA

GAF Chemicals Corp., Linden, New Jersey

(Feet above mean sea level)

Location Number		Reference Elevation (ft. msl)	Well Depth (ft)	Ground Surface Elevation (ft. msl)	05/01/89	05/04/89	05/15/89	05/22/89	06/01/89	06/08/89	06/15/89	06/22/89	06/29/89	07/06/89	07/10/89	07/17/89	07/24/89	07/31/89
GAF 29 S		7.31	9.5	7.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 30 S		7.84	12.5	7.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WT 1	**	7.92	5.0	6.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WT 2	**	9.15	5.0	7.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WT 3	**	8.25	5.0	6.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WT 4	**	8.14	5.0	6.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WT 5	**	9.07	5.0	7.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WT 6	**	8.76	5.0	7.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WT 7	**	7.82	5.0	6.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TC 1 N	**	9.17	71.0	7.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TC 1 E	**	9.01	58.0	7.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TC 1 S	**	8.75	57.5	7.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TC 1 W	**	8.98	25.5	7.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TC 3 N	**	7.90	59.0	6.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TC 3 E	**	7.65	59.0	6.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TC 3 S	**	7.46	59.0	6.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TC 3 W	**	8.11	24.5	6.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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Notes:

* indicates well located in or adjacent to 950' x 950' incinerator area.

** indicates well installed by City of Linden MSSS contractor (Killam)

ELEV-4-1

WATER LEVEL ELEVATION DATA

GAF Chemicals Corp., Linden, New Jersey

(Feet above mean sea level)

Location Number		Reference Elevation (ft. msl)	Well Depth (ft)	Ground Surface Elevation (ft. msl)	08/07/89	08/16/89	08/21/89	09/05/89	09/19/89	09/21/89	10/03/89	10/17/89	10/20/89	10/31/89	11/14/89	11/28/89	12/12/89	12/28/89
W 1		8.87		8.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--
W 2		9.63	19.5	7.3	5.73	5.74	5.76	5.63	5.60	--	5.68	5.33	--	5.23	5.22	5.03	4.69	4.21
W 3		8.94	18.0	9.0	5.94	6.06	5.94	5.71	7.37	--	6.90	--	--	--	--	--	4.94	4.61
W 4		7.15	10.0	7.1	5.77	6.39	6.29	5.84	5.89	--	6.47	6.06	--	--	--	6.26	--	--
W 5		9.51	12.0	7.6	4.49	5.16	4.98	4.57	4.48	--	5.14	4.58	--	4.91	4.74	5.41	4.13	4.00
W 6	*	7.11	9.5	7.0	4.09	4.23	4.13	4.08	4.55	6.55	4.24	4.11	5.67	4.16	4.13	5.72	4.13	4.28
W 7	*	8.18	28.0	7.0	4.40	4.64	4.58	4.33	4.45	4.88	4.75	4.46	4.60	4.52	4.47	4.55	4.27	4.00
SG 1		7.06		NA	--	--	--	--	--	--	--	--	--	--	--	--	--	DRY
SG 2		10.46		NA	3.54	-0.17	1.89	3.61	5.04	--	2.96	4.84	--	-0.77	4.10	2.70	3.74	2.20
SG 3		9.76		NA	5.17	5.19	5.16	5.14	5.25	--	5.04	5.10	--	5.14	5.11	5.84	5.08	5.08
SG 4		9.68		NA	5.16	5.16	5.13	5.12	5.23	--	5.02	5.09	--	5.08	5.08	5.82	5.05	5.06
SG 5		6.37		NA	4.35	4.37	4.35	4.32	4.51	--	4.27	4.29	--	4.33	4.30	--	4.26	4.47
SG 6		6.33		NA	4.23	4.25	4.25	4.25	4.43	--	4.17	4.24	--	4.29	4.23	--	4.26	--
SG 7	*	7.54		NA	4.30	4.32	4.32	4.29	4.47	6.71	4.24	4.39	2.53	4.28	4.23	--	4.34	--
SG 8	*	7.06		NA	--	--	--	--	--	--	--	--	--	0.55	0.51	--	--	--
SG 9	*	7.39		NA	3.65	3.97	3.97	3.89	3.66	6.46	3.63	3.74	4.62	3.60	4.02	5.02	4.00	4.00
SG 10	*	7.47		NA	3.95	4.00	4.00	3.87	4.10	6.53	3.96	3.82	4.90	3.98	4.07	5.40	4.09	--
SG 11		9.48		NA	3.11	1.73	3.73	3.28	5.58	1.96	3.61	4.98	4.13	-0.67	0.26	-0.70	2.80	-1.56
SG 12		5.92		NA	3.90	4.05	4.05	3.95	5.50	4.31	4.10	4.87	4.29	4.06	4.10	4.11	4.10	--
SG 13		6.04		NA	4.26	4.28	4.27	4.37	5.47	4.50	4.32	4.82	4.52	4.24	4.22	4.46	4.29	--
ST A		11.45		9.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ST B		11.79		10.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ST C		11.92		10.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ST D		13.63		11.4	6.41	7.58	7.22	6.50	6.43	--	7.89	6.80	--	7.18	7.27	7.16	6.33	5.77
WP 1		10.79	6.0	8.7	5.32	6.59	6.16	5.51	5.37	--	7.16	7.59	--	6.12	6.00	5.47	5.28	4.99
WP 2		13.55	6.5	11.4	5.86	6.04	5.92	5.80	5.75	--	6.24	5.96	--	5.98	6.00	5.93	5.83	5.69
WP 3		13.02	8.0	11.6	5.96	6.46	6.31	6.00	5.85	--	6.65	6.12	--	6.32	6.43	6.19	5.94	5.70
WP 4		9.14	7.0	7.4	4.27	4.89	4.69	4.32	4.94	--	4.88	4.52	--	4.55	4.67	4.75	4.25	3.89
WP 5		9.41	7.7	7.1	6.20	6.54	6.23	5.94	6.11	--	6.42	5.69	--	6.05	5.62	6.18	4.86	3.57

ELEV-4-2

WATER LEVEL ELEVATION DATA

GAF Chemicals Corp., Linden, New Jersey

(Feet above mean sea level)

Location Number		Reference Elevation (ft. msl)	Well Depth (ft)	Ground Surface Elevation (ft. msl)	08/07/89	08/16/89	08/21/89	09/05/89	09/19/89	09/21/89	10/03/89	10/17/89	10/20/89	10/31/89	11/14/89	11/28/89	12/12/89	12/28/89
WP 6		14.23	10.0	12.4	6.59	6.90	6.93	6.53	6.40	--	7.13	6.78	--	7.04	6.97	6.99	6.38	6.03
WP 7		10.64	5.0	8.4	5.56	6.37	6.11	5.69	5.77	--	6.57	5.83	--	6.10	6.05	5.98	5.39	4.99
WP 8		8.67	5.0	6.8	4.68	4.96	5.06	4.80	4.79	--	4.92	4.93	--	5.26	5.29	DRY	4.99	4.53
WP 9 R1	*	9.10	5.0	6.9	4.92	5.95	5.29	5.00	5.48	6.36	5.81	5.16	5.39	5.56	5.70	6.06	2.42	4.56
WP 9 R2	*	6.96	5.0	6.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 10	*	8.69	5.0	6.7	4.71	5.76	5.02	4.95	5.64	5.52	5.97	5.12	5.53	5.27	5.22	6.18	5.08	4.81
WP 11	*	10.41	7.5	8.4	6.10	6.61	6.94	5.98	5.73	6.83	7.16	6.43	7.36	6.99	7.06	7.56	6.16	5.21
WP 12	*	9.85	5.0	8.0	DRY	6.43	6.35	6.39	6.09	6.22	6.50	6.43	6.53	6.44	6.41	6.33	6.17	DRY
WP 13	*	9.35	5.0	7.2	DRY	6.28	5.59	DRY	6.27	7.18	6.73	DRY	6.91	5.26	5.41	5.67	5.28	DRY
WP 14	*	7.74	5.0	6.0	5.02	5.33	5.08	4.87	5.18	6.13	5.10	4.96	5.12	5.66	5.04	5.70	5.00	4.77
WP 15	*	9.45	5.0	7.4	4.50	5.20	4.79	4.58	5.02	6.11	5.20	4.63	5.36	4.79	4.88	5.25	4.75	4.90
WP 16	*	7.98	5.0	6.0	4.60	4.96	4.93	4.68	5.00	6.42	4.97	4.62	5.10	4.97	4.93	5.22	4.51	3.92
WP 17 S	*	8.58	2.0	6.7	DRY	5.27	DRY	DRY	DRY	6.16	DRY	DRY	5.82	DRY	DRY	5.31	DRY	DRY
WP 17 D	*	8.85	5.0	6.9	4.74	4.61	4.95	4.77	5.15	5.13	5.67	5.42	5.51	5.10	5.12	5.41	5.01	5.19
WP 18 S	*	8.69	2.5	7.1	DRY	6.34	5.69	5.41	6.08	6.03	6.53	5.84	5.97	6.03	5.96	6.37	5.76	DRY
WP 18 D	*	9.12	8.0	7.3	5.20	6.24	5.77	5.42	5.97	6.45	6.12	5.79	6.16	5.91	5.90	6.16	5.70	5.18
WP 19 S		9.29	5.0		4.59	4.78	4.71	4.54	4.49	--	4.71	4.52	--	4.60	4.58	5.35	4.33	4.71
WP 19 D		9.63	13.0		4.56	4.75	4.68	4.51	4.33	--	4.95	5.07	--	4.47	4.47	5.58	4.28	4.43
WP 20 S		9.83	1.5		6.76	7.47	7.11	6.90	7.43	--	7.22	6.77	--	6.87	7.10	7.66	6.77	DRY
WP 20 D		9.76	7.0		7.93	7.57	7.46	6.82	6.73	--	6.34	5.81	--	5.45	5.38	4.91	4.21	3.39
WP 21 R1	*	8.83	7.0	7.8	4.68	5.35	4.86	4.68	4.96	6.64	4.97	--	5.49	4.82	4.83	5.67	4.67	4.56
WP 21 R2	*	8.08	7.0	7.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 22	*	9.40	7.0	6.5	4.56	5.22	4.80	4.56	5.15	6.53	5.15	4.60	5.97	4.79	4.79	5.75	4.82	5.18
WP 23	*	8.77	7.0	6.8	4.64	5.33	4.90	4.69	5.10	6.27	5.30	4.73	5.32	4.86	4.94	5.10	4.82	5.04
WP 24 R1	*	9.39	7.0	6.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 24 R2	*	6.70	7.0	6.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 24 R3	*	6.61	7.0	6.5	--	--	--	--	--	--	--	--	--	4.95	5.01	5.33	5.03	4.35
WP 25 R1	*	8.25	7.0	7.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 25 R2	*	7.90	7.0	7.4	5.08	6.47	5.70	--	--	--	--	--	--	--	--	--	--	--

ELEV-4-3

WATER LEVEL ELEVATION DATA

GAF Chemicals Corp., Linden, New Jersey

(Feet above mean sea level)

Location Number		Reference Elevation (ft. msl)	Well Depth (ft)	Ground Surface Elevation (ft. msl)	08/07/89	08/16/89	08/21/89	09/05/89	09/19/89	09/21/89	10/03/89	10/17/89	10/20/89	10/31/89	11/14/89	11/28/89	12/12/89	12/28/89
WP 25 R3	*	7.99	7.0	7.4	--	--	--	5.24	6.36	7.41	7.10	--	7.17	5.47	5.63	5.76	5.45	4.69
WP 25 R4	*	7.49	7.0	7.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 26	*	10.91	7.0	8.4	7.07	7.35	7.26	7.12	7.86	7.57	7.48	6.70	7.74	6.71	6.66	7.01	5.69	4.04
WP 27	*	9.13	7.0	6.2	4.98	5.53	5.31	5.08	5.63	6.51	5.53	4.98	5.66	5.35	5.28	5.55	4.83	4.28
WP 28	*	9.47	5.0	7.6	5.44	5.91	5.64	5.40	5.62	5.55	5.88	5.49	5.51	5.57	5.62	5.08	5.45	5.11
WP 29		6.37	8.0	6.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 30		6.22	6.0	6.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 31		6.59	6.0	6.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 32		10.05	7.0	7.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 33	*	6.46	8.0	6.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 34	*	10.88	6.0	7.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 35		9.30	7.0	6.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 36		10.95	7.0	8.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 37		10.28	7.0	7.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 38	*	7.46	8.0	7.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 39	*	9.62	8.0	7.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 40	*	8.49	8.0	8.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 41	*	8.07	7.5	8.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 1 S		11.95	10.0	9.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 1 D		11.25	49.5	9.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 2 S		9.76	10.0	7.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 3 S		12.19	10.0	9.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 4 S		7.15	10.0	7.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 5 S		9.51	12.0	7.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 6 S	*	8.95	9.5	7.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 6 D	*	9.05	28.0	6.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 7 S		12.70	9.0	9.7	4.47	6.23	5.74	5.05	4.52	--	6.43	5.02	--	5.59	5.49	4.65	4.12	3.55
GAF 7 D		11.36	45.0	9.5	5.35	5.80	5.77	5.40	5.31	--	6.08	5.51	--	5.74	5.59	5.48	5.04	4.73
GAF 8 S		8.21	10.0	6.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--

ELEV-4-4

WATER LEVEL ELEVATION DATA

GAF Chemicals Corp., Linden, New Jersey

(Feet above mean sea level)

Location Number		Reference Elevation (ft. msl)	Well Depth (ft)	Ground Surface Elevation (ft. msl)	08/07/89	08/16/89	08/21/89	09/05/89	09/19/89	09/21/89	10/03/89	10/17/89	10/20/89	10/31/89	11/14/89	11/28/89	12/12/89	12/28/89
GAF 8 D		8.46	54.0	6.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 9 S	*	8.50	12.5	5.7	4.47	5.01	4.68	4.60	5.27	5.90	5.10	4.63	5.85	4.87	4.92	5.16	4.81	4.98
GAF 9 D	*	8.31	63.0	4.7	2.83	3.03	3.02	2.74	2.99	3.27	3.04	2.83	3.51	3.21	2.93	3.08	2.67	2.43
GAF 10 S	*	8.74	9.0	6.0	4.27	4.77	4.47	4.33	5.16	5.09	4.78	4.44	5.09	4.82	4.54	4.86	4.27	3.92
GAF 10 D	*	7.79	61.0	5.9	2.96	3.36	3.29	2.82	3.17	3.45	3.34	3.04	3.57	3.28	3.21	3.17	2.67	2.21
GAF 11 S		5.50	13.0		--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 11 D		5.30	54.0		--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 12 S	*	9.85	8.0	7.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 13 S		12.43	10.5	8.9	9.96	9.46	9.29	8.62	7.91	--	7.40	6.39	--	6.08	6.55	5.25	4.23	--
GAF 13 D		10.97	51.0	8.6	5.12	5.53	5.44	4.99	4.92	--	5.53	5.89	--	5.09	3.90	4.96	4.55	4.11
GAF 14 S		11.84	9.0	9.0	6.42	6.44	6.37	6.12	6.15	--	6.21	6.02	--	6.47	6.13	6.30	5.79	5.08
GAF 14 D		9.15	46.0	7.0	5.45	5.46	5.50	5.37	5.38	--	5.43	5.10	--	5.04	5.02	4.88	4.52	4.14
GAF 15 S	*	10.05	8.0	8.0	7.30	7.62	7.46	6.87	7.24	7.46	7.42	6.67	7.43	6.90	6.73	7.01	5.77	4.91
GAF 15 D	*	9.96	46.0	8.0	3.46	3.71	3.68	3.34	3.53	3.90	3.84	3.53	3.85	3.69	3.53	4.62	3.24	2.94
GAF 16 S	*	9.75	12.0	7.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 16 D	*	9.43	51.5	7.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 17 S		9.47	10.0	6.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 17 D		8.96	52.0	6.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 18 S		13.08	12.0	10.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 19 S		12.57	12.0	9.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 20 S		13.22	10.0	10.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 21 S		10.38	10.0	7.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 22 S		10.28	12.0	7.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 23 S		8.79	5.0	8.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 24 S		12.56	11.5	10.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 25 S		9.63	11.5	7.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 26 S		9.26	11.5	7.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 27 S		10.95	12.5	10.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 28 S	*	9.70	11.5	7.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--

WATER LEVEL ELEVATION DATA

GAF Chemicals Corp., Linden, New Jersey

(Feet above mean sea level)

Location Number		Reference Elevation (ft. msl)	Well Depth (ft)	Ground Surface Elevation (ft. msl)	08/07/89	08/16/89	08/21/89	09/05/89	09/19/89	09/21/89	10/03/89	10/17/89	10/20/89	10/31/89	11/14/89	11/28/89	12/12/89	12/28/89
GAF 29 S		7.31	9.5	7.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 30 S		7.84	12.5	7.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WT 1	**	7.92	5.0	6.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WT 2	**	9.15	5.0	7.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WT 3	**	8.25	5.0	6.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WT 4	**	8.14	5.0	6.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WT 5	**	9.07	5.0	7.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WT 6	**	8.76	5.0	7.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WT 7	**	7.82	5.0	6.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TC 1 N	**	9.17	71.0	7.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TC 1 E	**	9.01	58.0	7.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TC 1 S	**	8.75	57.5	7.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TC 1 W	**	8.98	25.5	7.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TC 3 N	**	7.90	59.0	6.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TC 3 E	**	7.65	59.0	6.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TC 3 S	**	7.46	59.0	6.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TC 3 W	**	8.11	24.5	6.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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Notes:

* indicates well located in or adjacent to 950' x 950' incinerator area.

** indicates well installed by City of Linden MSSS contractor (Killam)

ELEV-5-1

WATER LEVEL ELEVATION DATA

GAF Chemicals Corp., Linden, New Jersey

(Feet above mean sea level)

Location Number		Reference Elevation (ft. msl)	Well Depth (ft)	Ground Surface Elevation (ft. msl)	01/09/90	01/23/90	02/06/90	02/20/90	03/06/90	03/20/90	04/04/90	04/18/90	05/01/90	05/15/90	05/29/90	05/30/90	06/05/90	06/11/90
W 1		8.87		8.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--
W 2		9.63	19.5	7.3	5.07	4.47	4.82	4.91	4.83	4.91	5.22	--	--	--	--	--	--	--
W 3		8.94	18.0	9.0	7.42	5.33	5.29	5.17	5.12	6.15	6.15	--	--	--	--	--	--	--
W 4		7.15	10.0	7.1	5.53	5.97	6.23	5.84	5.67	6.17	6.40	--	--	--	--	--	--	--
W 5		9.51	12.0	7.6	4.26	4.27	4.87	4.35	4.26	4.66	5.02	--	--	--	--	--	--	--
W 6	*	7.11	9.5	7.0	4.90	4.17	4.25	4.20	4.08	4.45	4.40	4.91	4.31	4.67	4.65	5.74	5.43	5.56
W 7	*	8.18	28.0	7.0	4.21	4.40	4.42	3.27	4.10	4.31	4.63	--	--	--	--	--	--	--
SG 1		7.06		NA	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SG 2		10.46		NA	-1.64	-0.76	-0.92	-1.87	0.01	0.50	4.42	--	--	--	--	--	--	--
SG 3		9.76		NA	5.20	5.10	5.03	5.07	4.98	5.09	5.09	--	--	--	--	--	--	--
SG 4		9.68		NA	5.17	5.07	5.01	5.04	4.94	5.05	5.06	--	--	--	--	--	--	--
SG 5		6.37		NA	4.86	4.23	4.22	4.27	4.16	4.29	4.22	--	--	--	--	--	--	--
SG 6		6.33		NA	4.88	4.23	4.26	4.31	4.13	4.37	4.32	--	--	--	--	--	--	--
SG 7	*	7.54		NA	4.87	4.36	4.04	4.34	4.29	4.52	4.28	--	4.25	--	--	--	--	--
SG 8	*	7.06		NA	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SG 9	*	7.39		NA	4.75	4.00	4.16	--	3.81	4.27	4.29	4.77	4.27	4.82	4.35	5.54	5.44	5.63
SG 10	*	7.47		NA	4.79	4.10	4.22	--	3.97	4.34	4.33	4.89	4.32	4.85	4.42	5.65	5.46	5.63
SG 11		9.48		NA	-2.22	-1.74	-2.03	-1.41	-1.60	1.76	2.96	--	--	--	--	--	--	--
SG 12		5.92		NA	4.22	4.16	4.16	4.20	4.24	4.36	4.33	--	--	--	--	--	--	--
SG 13		6.04		NA	4.33	4.34	4.30	4.39	4.32	4.45	4.37	--	--	--	--	--	--	--
ST A		11.45		9.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ST B		11.79		10.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ST C		11.92		10.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ST D		13.63		11.4	6.01	7.16	7.56	7.02	6.58	7.37	8.37	--	--	--	--	--	--	--
WP 1		10.79	6.0	8.7	5.32	5.66	6.27	DRY	5.33	7.03	5.64	--	--	--	--	--	--	--
WP 2		13.55	6.5	11.4	6.07	6.05	6.10	5.97	5.88	DRY	6.25	--	--	--	--	--	--	--
WP 3		13.02	8.0	11.6	5.70	6.14	6.65	6.32	6.03	6.18	6.72	--	--	--	--	--	--	--
WP 4		9.14	7.0	7.4	4.54	4.88	4.90	4.50	4.37	4.88	5.10	--	--	--	--	--	--	--
WP 5		9.41	7.7	7.1	4.83	5.95	5.91	5.29	5.41	5.96	6.50	--	--	--	--	--	--	--

ELEV-5-2

WATER LEVEL ELEVATION DATA

GAF Chemicals Corp., Linden, New Jersey

(Feet above mean sea level)

Location Number		Reference Elevation (ft. msl)	Well Depth (ft)	Ground Surface Elevation (ft. msl)	01/09/90	01/23/90	02/06/90	02/20/90	03/06/90	03/20/90	04/04/90	04/18/90	05/01/90	05/15/90	05/29/90	05/30/90	06/05/90	06/11/90
WP 6		14.23	10.0	12.4	6.01	6.25	7.26	6.88	7.21	6.82	7.30	--	--	--	--	--	--	--
WP 7		10.64	5.0	8.4	5.29	5.75	6.21	5.73	5.53	6.00	6.32	--	--	--	--	--	--	--
WP 8		8.67	5.0	6.8	5.10	5.65	5.54	5.24	5.06	5.71	5.88	--	--	--	--	--	--	--
WP 9 R1	*	9.10	5.0	6.9	6.41	6.05	--	--	5.23	--	--	--	--	--	--	6.39	--	--
WP 9 R2	*	6.96	5.0	6.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 10	*	8.69	5.0	6.7	6.32	5.49	5.44	5.17	5.17	5.94	5.84	5.68	5.24	5.55	5.92	6.48	5.72	5.93
WP 11	*	10.41	7.5	8.4	5.57	7.16	7.40	6.57	6.39	7.46	7.90	7.16	6.93	7.31	6.99	--	6.70	7.05
WP 12	*	9.85	5.0	8.0	DRY	6.35	6.42	--	DRY	6.20	6.65	6.64	6.18	6.55	6.41	6.71	6.57	6.67
WP 13	*	9.35	5.0	7.2	5.47	5.80	5.93	5.40	DRY	5.74	6.26	6.03	5.30	5.95	5.84	6.81	5.94	6.17
WP 14	*	7.74	5.0	6.0	--	5.19	5.17	5.38	5.02	5.00	5.35	5.24	5.11	5.22	5.89	5.70	5.44	5.64
WP 15	*	9.45	5.0	7.4	5.34	5.22	5.18	4.90	4.87	5.30	5.60	5.28	5.01	5.38	5.10	5.91	5.27	5.37
WP 16	*	7.98	5.0	6.0	5.09	4.84	4.83	5.14	4.37	4.93	4.29	4.88	4.82	4.86	4.88	5.50	5.20	5.41
WP 17 S	*	8.58	2.0	6.7	5.35	5.23	5.23	DRY	DRY	5.39	5.56	5.31	DRY	5.37	DRY	DRY	5.33	5.40
WP 17 D	*	8.85	5.0	6.9	5.60	5.45	5.42	5.23	5.16	5.67	5.75	5.48	5.21	5.53	5.29	6.03	5.43	5.47
WP 18 S	*	8.69	2.5	7.1	6.32	DRY	5.86	5.46	5.57	4.38	6.27	5.97	5.70	5.95	6.08	6.40	5.78	6.08
WP 18 D	*	9.12	8.0	7.3	5.93	5.89	5.81	5.51	5.47	5.91	6.17	5.90	5.68	5.91	5.85	6.29	5.80	6.07
WP 19 S		9.29	5.0		4.88	4.39	4.60	4.38	4.34	4.61	4.71	--	--	--	--	--	--	--
WP 19 D		9.63	13.0		4.58	4.33	4.60	4.34	4.55	4.58	4.65	--	--	--	--	--	--	--
WP 20 S		9.83	1.5		7.69	7.56	7.48	6.91	7.20	7.52	7.57	--	--	--	--	--	--	--
WP 20 D		9.76	7.0		3.34	3.87	4.63	5.29	5.28	5.88	6.75	--	--	--	--	--	--	--
WP 21 R1	*	8.83	7.0	7.8	4.91	4.11	4.95	4.81	4.62	5.22	5.22	5.17	4.68	5.09	5.12	5.87	5.53	--
WP 21 R2	*	8.08	7.0	7.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 22	*	9.40	7.0	6.5	5.53	5.25	5.21	4.98	4.90	5.64	5.64	5.42	5.08	5.41	5.28	6.26	5.69	5.78
WP 23	*	8.77	7.0	6.8	5.41	5.31	5.26	5.02	4.96	5.46	5.67	5.39	5.11	5.47	5.22	6.00	5.44	5.52
WP 24 R1	*	9.39	7.0	6.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 24 R2	*	6.70	7.0	6.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 24 R3	*	6.61	7.0	6.5	5.16	5.13	4.58	4.90	4.91	4.41	4.81	5.03	4.52	4.92	4.16	5.66	5.45	5.64
WP 25 R1	*	8.25	7.0	7.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 25 R2	*	7.90	7.0	7.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--

WATER LEVEL ELEVATION DATA

GAF Chemicals Corp., Linden, New Jersey

(Feet above mean sea level)

Location Number		Reference Elevation (ft. msl)	Well Depth (ft)	Ground Surface Elevation (ft. msl)	01/09/90	01/23/90	02/06/90	02/20/90	03/06/90	03/20/90	04/04/90	04/18/90	05/01/90	05/15/90	05/29/90	05/30/90	06/05/90	06/11/90
WP 25 R3	*	7.99	7.0	7.4	5.71	4.34	6.37	5.67	--	--	--	--	--	--	--	--	--	--
WP 25 R4	*	7.49	7.0	7.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 26	*	10.91	7.0	8.4	6.08	5.83	5.80	5.37	5.08	6.35	6.06	5.69	6.04	6.30	6.67	6.93	6.72	7.12
WP 27	*	9.13	7.0	6.2	--	5.41	5.38	5.33	4.98	5.60	5.48	5.38	5.20	5.38	5.40	5.68	5.41	5.59
WP 28	*	9.47	5.0	7.6	6.10	5.91	5.82	5.56	5.45	5.86	6.05	5.79	5.61	5.77	5.76	6.32	5.79	6.00
WP 29		6.37	8.0	6.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 30		6.22	6.0	6.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 31		6.59	6.0	6.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 32		10.05	7.0	7.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 33	*	6.46	8.0	6.4	--	--	--	--	--	--	--	--	--	5.57	5.35	--	5.69	5.84
WP 34	*	10.88	6.0	7.0	--	--	--	--	--	--	--	--	5.36	5.70	5.40	--	5.94	5.73
WP 35		9.30	7.0	6.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 36		10.95	7.0	8.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 37		10.28	7.0	7.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 38	*	7.46	8.0	7.5	--	--	--	--	--	--	--	--	--	5.52	5.76	5.98	5.70	5.84
WP 39	*	9.62	8.0	7.4	--	--	--	--	--	--	--	--	--	5.40	5.46	--	5.54	5.76
WP 40	*	8.49	8.0	8.5	--	--	--	--	--	--	--	--	--	6.78	6.80	--	6.64	6.86
WP 41	*	8.07	7.5	8.1	--	--	--	--	--	--	--	--	--	6.51	6.60	--	6.56	6.83
GAF 1 S		11.95	10.0	9.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 1 D		11.25	49.5	9.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 2 S		9.76	10.0	7.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 3 S		12.19	10.0	9.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 4 S		7.15	10.0	7.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 5 S		9.51	12.0	7.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 6 S	*	8.95	9.5	7.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 6 D	*	9.05	28.0	6.7	--	--	--	--	--	--	--	--	3.57	4.78	4.97	5.28	5.03	5.26
GAF 7 S		12.70	9.0	9.7	3.56	4.46	5.72	5.16	4.52	4.43	5.59	--	--	--	--	--	--	--
GAF 7 D		11.36	45.0	9.5	4.79	4.98	5.44	5.29	5.04	5.14	5.61	--	--	--	--	--	--	--
GAF 8 S		8.21	10.0	6.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--

ELEV-5-4

WATER LEVEL ELEVATION DATA

GAF Chemicals Corp., Linden, New Jersey

(Feet above mean sea level)

Location Number		Reference Elevation (ft. msl)	Well Depth (ft)	Ground Surface Elevation (ft. msl)	01/09/90	01/23/90	02/06/90	02/20/90	03/06/90	03/20/90	04/04/90	04/18/90	05/01/90	05/15/90	05/29/90	05/30/90	06/05/90	06/11/90
GAF 8 D		8.46	54.0	6.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 9 S	*	8.50	12.5	5.7	5.38	5.22	5.07	5.03	4.97	5.51	5.51	5.25	5.01	5.30	5.10	5.77	5.14	5.20
GAF 9 D	*	8.31	63.0	4.7	2.80	2.85	2.88	2.38	2.53	2.81	3.19	2.62	2.82	2.76	3.12	3.25	2.86	3.09
GAF 10 S	*	8.74	9.0	6.0	5.02	4.64	4.64	4.42	4.33	3.98	4.75	4.57	--	4.52	4.70	5.02	4.45	4.56
GAF 10 D	*	7.79	61.0	5.9	2.52	3.14	3.23	2.88	2.73	4.19	3.49	2.97	--	3.03	3.21	3.43	3.04	3.19
GAF 11 S		5.50	13.0		--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 11 D		5.30	54.0		--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 12 S	*	9.85	8.0	7.3	--	--	--	--	--	--	--	--	--	5.60	5.34	--	5.80	5.76
GAF 13 S		12.43	10.5	8.9	2.79	2.69	3.17	3.71	3.88	4.53	5.69	--	--	--	--	--	--	--
GAF 13 D		10.97	51.0	8.6	4.23	4.56	4.84	4.75	4.59	4.88	5.37	--	--	--	--	--	--	--
GAF 14 S		11.84	9.0	9.0	5.75	6.27	6.66	6.93	7.49	7.31	6.90	--	--	--	--	--	--	--
GAF 14 D		9.15	46.0	7.0	4.08	4.59	4.63	4.66	4.59	4.70	5.03	--	--	--	--	--	--	--
GAF 15 S	*	10.05	8.0	8.0	6.82	6.88	7.05	6.85	6.54	7.39	4.78	7.06	7.35	7.47	7.56	7.53	7.11	7.52
GAF 15 D	*	9.96	46.0	8.0	3.19	3.28	3.40	3.12	2.98	3.34	3.70	3.24	3.40	3.38	3.67	3.77	3.54	3.76
GAF 16 S	*	9.75	12.0	7.3	--	--	--	--	--	--	--	--	5.81	6.04	6.22	--	5.91	6.12
GAF 16 D	*	9.43	51.5	7.5	--	--	--	--	--	--	--	--	--	--	4.83	--	4.84	4.93
GAF 17 S		9.47	10.0	6.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 17 D		8.96	52.0	6.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 18 S		13.08	12.0	10.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 19 S		12.57	12.0	9.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 20 S		13.22	10.0	10.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 21 S		10.38	10.0	7.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 22 S		10.28	12.0	7.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 23 S		8.79	5.0	8.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 24 S		12.56	11.5	10.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 25 S		9.63	11.5	7.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 26 S		9.26	11.5	7.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 27 S		10.95	12.5	10.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 28 S	*	9.70	11.5	7.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--

ELEV-5-5

WATER LEVEL ELEVATION DATA

GAF Chemicals Corp., Linden, New Jersey

(Feet above mean sea level)

Location Number		Reference Elevation (ft. msl)	Well Depth (ft)	Ground Surface Elevation (ft. msl)	01/09/90	01/23/90	02/06/90	02/20/90	03/06/90	03/20/90	04/04/90	04/18/90	05/01/90	05/15/90	05/29/90	05/30/90	06/05/90	06/11/90
GAF 29 S		7.31	9.5	7.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 30 S		7.84	12.5	7.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WT 1	**	7.92	5.0	6.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WT 2	**	9.15	5.0	7.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WT 3	**	8.25	5.0	6.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WT 4	**	8.14	5.0	6.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WT 5	**	9.07	5.0	7.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WT 6	**	8.76	5.0	7.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WT 7	**	7.82	5.0	6.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TC 1 N	**	9.17	71.0	7.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TC 1 E	**	9.01	58.0	7.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TC 1 S	**	8.75	57.5	7.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TC 1 W	**	8.98	25.5	7.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TC 3 N	**	7.90	59.0	6.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TC 3 E	**	7.65	59.0	6.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TC 3 S	**	7.46	59.0	6.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TC 3 W	**	8.11	24.5	6.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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Notes:

* indicates well located in or adjacent to 950' x 950' incinerator area.

** indicates well installed by City of Linden MSSS contractor (Killam)

ELEV-6-1

WATER LEVEL ELEVATION DATA

GAF Chemicals Corp., Linden, New Jersey

(Feet above mean sea level)

Location Number		Reference Elevation (ft. msl)	Well Depth (ft)	Ground Surface Elevation (ft. msl)	06/25/90	07/02/90	07/09/90	07/10/90	07/11/90	07/12/90	07/13/90	07/16/90	07/17/90	07/18/90	07/19/90	07/20/90	07/23/90	08/06/90
W 1		8.87		8.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--
W 2		9.63	19.5	7.3	--	-0.89	--	--	--	--	--	--	--	--	--	--	--	--
W 3		8.94	18.0	9.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
W 4		7.15	10.0	7.1	--	5.92	--	--	--	--	--	--	--	--	--	--	--	--
W 5		9.51	12.0	7.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
W 6	*	7.11	9.5	7.0	4.08	4.20	4.67	--	--	--	--	--	--	--	--	--	--	--
W 7	*	8.18	28.0	7.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SG 1		7.06		NA	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SG 2		10.46		NA	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SG 3		9.76		NA	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SG 4		9.68		NA	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SG 5		6.37		NA	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SG 6		6.33		NA	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SG 7	*	7.54		NA	4.20	4.33	4.44	4.23	--	4.24	4.75	--	4.62	--	4.79	--	4.14	--
SG 8	*	7.06		NA	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SG 9	*	7.39		NA	4.09	4.20	4.65	4.21	--	4.15	4.52	--	5.43	--	4.95	--	4.21	4.59
SG 10	*	7.47		NA	4.09	4.20	4.66	4.26	--	4.27	4.92	--	5.20	--	4.92	--	4.18	5.09
SG 11		9.48		NA	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SG 12		5.92		NA	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SG 13		6.04		NA	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ST A		11.45		9.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ST B		11.79		10.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ST C		11.92		10.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ST D		13.63		11.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 1		10.79	6.0	8.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 2		13.55	6.5	11.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 3		13.02	8.0	11.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 4		9.14	7.0	7.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 5		9.41	7.7	7.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--

ELEV-6-2

WATER LEVEL ELEVATION DATA

GAF Chemicals Corp., Linden, New Jersey

(Feet above mean sea level)

Location Number		Reference Elevation (ft. msl)	Well Depth (ft)	Ground Surface Elevation (ft. msl)	06/25/90	07/02/90	07/09/90	07/10/90	07/11/90	07/12/90	07/13/90	07/16/90	07/17/90	07/18/90	07/19/90	07/20/90	07/23/90	08/06/90
WP 6		14.23	10.0	12.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 7		10.64	5.0	8.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 8		8.67	5.0	6.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 9 R1	*	9.10	5.0	6.9	5.98	5.89	5.32	--	--	--	--	--	--	--	--	--	--	--
WP 9 R2	*	6.96	5.0	6.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 10	*	8.69	5.0	6.7	5.01	5.47	5.08	4.91	--	4.94	5.80	--	5.61	--	5.35	--	5.53	6.43
WP 11	*	10.41	7.5	8.4	6.75	6.34	6.03	--	--	--	--	--	--	--	--	--	6.04	6.56
WP 12	*	9.85	5.0	8.0	6.51	6.37	6.17	6.14	--	6.10	6.08	--	6.18	--	6.15	--	6.12	6.21
WP 13	*	9.35	5.0	7.2	5.66	5.57	DRY	DRY	--	DRY	5.66	--	5.81	--	5.57	--	5.63	6.54
WP 14	*	7.74	5.0	6.0	5.14	5.19	5.06	5.05	--	5.37	5.40	--	5.29	--	5.18	--	5.40	5.52
WP 15	*	9.45	5.0	7.4	4.90	4.89	4.79	4.77	--	4.77	5.20	--	5.77	--	5.70	--	5.06	5.58
WP 16	*	7.98	5.0	6.0	4.68	4.72	4.67	4.50	--	4.39	4.91	--	5.01	--	4.82	--	4.80	4.99
WP 17 S	*	8.58	2.0	6.7	DRY	DRY	DRY	DRY	--	DRY	5.19	--	5.82	--	5.73	--	DRY	5.72
WP 17 D	*	8.85	5.0	6.9	5.10	5.11	4.97	4.93	--	4.97	5.34	--	6.15	--	6.05	--	5.10	6.02
WP 18 S	*	8.69	2.5	7.1	5.57	5.73	5.37	5.39	--	5.35	6.01	--	5.91	--	5.71	--	5.88	6.45
WP 18 D	*	9.12	8.0	7.3	5.63	5.69	5.41	5.42	--	5.36	5.81	--	5.87	--	5.72	--	5.85	6.21
WP 19 S		9.29	5.0		--	4.55	--	--	--	--	--	--	--	--	--	--	--	--
WP 19 D		9.63	13.0		--	4.56	--	--	--	--	--	--	--	--	--	--	--	--
WP 20 S		9.83	1.5		--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 20 D		9.76	7.0		--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 21 R1	*	8.83	7.0	7.8	5.62	5.46	5.51	5.37	--	5.36	5.79	--	5.87	--	5.73	--	5.61	6.05
WP 21 R2	*	8.08	7.0	7.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 22	*	9.40	7.0	6.5	4.95	5.04	5.03	4.92	--	4.88	5.52	--	5.55	--	5.47	--	5.15	6.17
WP 23	*	8.77	7.0	6.8	5.02	4.98	4.93	4.87	--	4.85	5.27	--	5.85	--	5.78	--	5.15	5.71
WP 24 R1	*	9.39	7.0	6.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 24 R2	*	6.70	7.0	6.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 24 R3	*	6.61	7.0	6.5	5.14	5.24	5.32	4.60	--	4.53	5.16	--	5.23	--	5.03	--	4.68	5.20
WP 25 R1	*	8.25	7.0	7.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 25 R2	*	7.90	7.0	7.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--

ELEV-6-3

WATER LEVEL ELEVATION DATA

GAF Chemicals Corp., Linden, New Jersey

(Feet above mean sea level)

Location Number		Reference Elevation (ft. msl)	Well Depth (ft)	Ground Surface Elevation (ft. msl)	06/25/90	07/02/90	07/09/90	07/10/90	07/11/90	07/12/90	07/13/90	07/16/90	07/17/90	07/18/90	07/19/90	07/20/90	07/23/90	08/06/90
WP 25 R3	*	7.99	7.0	7.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 25 R4	*	7.49	7.0	7.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 26	*	10.91	7.0	8.4	7.04	7.19	6.94	7.00	--	6.93	7.30	--	7.13	--	7.08	--	7.34	7.37
WP 27	*	9.13	7.0	6.2	5.22	5.22	4.93	4.93	--	4.90	5.41	--	5.37	--	5.25	--	5.35	5.58
WP 28	*	9.47	5.0	7.6	5.55	5.61	5.35	5.36	--	5.29	5.76	--	5.71	--	5.59	--	--	6.12
WP 29		6.37	8.0	6.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 30		6.22	6.0	6.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 31		6.59	6.0	6.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 32		10.05	7.0	7.2	--	6.02	--	--	--	--	--	--	--	--	--	--	--	--
WP 33	*	6.46	8.0	6.4	5.66	5.75	5.93	5.36	--	5.27	5.54	--	5.49	--	5.44	--	5.43	5.97
WP 34	*	10.88	6.0	7.0	5.04	5.11	5.15	5.03	--	5.01	5.51	--	5.62	--	5.55	--	5.20	6.11
WP 35		9.30	7.0	6.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 36		10.95	7.0	8.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 37		10.28	7.0	7.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 38	*	7.46	8.0	7.5	5.66	4.50	5.38	4.97	--	4.90	5.32	--	5.52	--	5.35	--	5.28	--
WP 39	*	9.62	8.0	7.4	5.12	5.13	5.10	5.01	--	4.93	5.34	--	5.46	--	5.36	--	5.34	5.75
WP 40	*	8.49	8.0	8.5	6.92	6.95	7.08	6.73	--	6.67	--	--	6.81	--	6.82	--	--	--
WP 41	*	8.07	7.5	8.1	6.70	6.85	6.89	6.55	--	6.42	6.37	--	6.48	--	6.70	--	6.70	6.62
GAF 1 S		11.95	10.0	9.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 1 D		11.25	49.5	9.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 2 S		9.76	10.0	7.3	--	4.23	--	--	--	--	--	--	--	--	--	--	--	--
GAF 3 S		12.19	10.0	9.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 4 S		7.15	10.0	7.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 5 S		9.51	12.0	7.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 6 S	*	8.95	9.5	7.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 6 D	*	9.05	28.0	6.7	4.33	4.14	4.10	--	--	--	--	--	--	--	--	--	--	4.09
GAF 7 S		12.70	9.0	9.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 7 D		11.36	45.0	9.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 8 S		8.21	10.0	6.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--

ELEV-6-4

WATER LEVEL ELEVATION DATA

GAF Chemicals Corp., Linden, New Jersey

(Feet above mean sea level)

Location Number		Reference Elevation (ft. msl)	Well Depth (ft)	Ground Surface Elevation (ft. msl)	06/25/90	07/02/90	07/09/90	07/10/90	07/11/90	07/12/90	07/13/90	07/16/90	07/17/90	07/18/90	07/19/90	07/20/90	07/23/90	08/06/90
GAF 8 D		8.46	54.0	6.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 9 S	*	8.50	12.5	5.7	4.87	4.87	4.76	4.71	--	4.77	5.11	--	6.01	--	5.88	--	4.58	5.82
GAF 9 D	*	8.31	63.0	4.7	2.87	3.01	2.64	2.71	--	2.68	2.81	--	2.60	--	1.87	--	3.01	3.08
GAF 10 S	*	8.74	9.0	6.0	4.39	4.47	4.12	4.05	--	4.20	4.84	--	4.59	--	4.29	--	4.64	5.04
GAF 10 D	*	7.79	61.0	5.9	3.29	3.21	2.91	2.86	--	2.81	2.89	--	3.03	--	2.76	--	3.16	3.27
GAF 11 S		5.50	13.0		--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 11 D		5.30	54.0		--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 12 S	*	9.85	8.0	7.3	--	5.09	--	--	--	--	--	--	--	--	--	--	5.21	6.02
GAF 13 S		12.43	10.5	8.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 13 D		10.97	51.0	8.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 14 S		11.84	9.0	9.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 14 D		9.15	46.0	7.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 15 S	*	10.05	8.0	8.0	7.31	7.51	7.32	7.31	--	7.23	7.37	--	7.41	--	7.43	--	7.67	7.51
GAF 15 D	*	9.96	46.0	8.0	3.59	3.50	3.38	3.31	--	3.26	3.24	--	3.58	--	3.14	--	3.34	3.33
GAF 16 S	*	9.75	12.0	7.3	5.80	5.85	5.13	--	--	--	--	--	--	--	--	--	5.92	6.50
GAF 16 D	*	9.43	51.5	7.5	4.70	4.63	4.46	--	--	--	--	--	--	--	--	--	4.53	4.60
GAF 17 S		9.47	10.0	6.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 17 D		8.96	52.0	6.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 18 S		13.08	12.0	10.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 19 S		12.57	12.0	9.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 20 S		13.22	10.0	10.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 21 S		10.38	10.0	7.9	--	4.26	--	--	--	--	--	--	--	--	--	--	--	--
GAF 22 S		10.28	12.0	7.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 23 S		8.79	5.0	8.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 24 S		12.56	11.5	10.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 25 S		9.63	11.5	7.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 26 S		9.26	11.5	7.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 27 S		10.95	12.5	10.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 28 S	*	9.70	11.5	7.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--

ELEV-6-5

WATER LEVEL ELEVATION DATA

GAF Chemicals Corp., Linden, New Jersey

(Feet above mean sea level)

Location Number		Reference Elevation (ft. msl)	Well Depth (ft)	Ground Surface Elevation (ft. msl)	06/25/90	07/02/90	07/09/90	07/10/90	07/11/90	07/12/90	07/13/90	07/16/90	07/17/90	07/18/90	07/19/90	07/20/90	07/23/90	08/06/90
GAF 29 S		7.31	9.5	7.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 30 S		7.84	12.5	7.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WT 1	**	7.92	5.0	6.3	--	--	--	5.11	5.09	5.12	5.27	5.28	5.24	5.16	5.16	5.12	5.15	5.59
WT 2	**	9.15	5.0	7.1	--	--	--	5.10	5.07	5.08	5.22	5.26	5.23	5.13	5.13	5.11	5.15	5.44
WT 3	**	8.25	5.0	6.4	--	--	--	5.03	4.99	5.05	5.25	5.24	5.18	5.09	5.08	5.05	5.11	5.40
WT 4	**	8.14	5.0	6.4	--	--	--	4.59	4.55	4.56	5.32	5.34	5.32	5.15	5.12	4.96	5.03	5.60
WT 5	**	9.07	5.0	7.5	--	--	--	5.49	5.46	5.42	6.15	6.17	5.98	5.91	5.84	5.79	6.04	6.38
WT 6	**	8.76	5.0	7.4	--	--	--	4.80	4.78	4.78	5.36	5.56	5.46	5.39	5.35	5.18	5.05	5.95
WT 7	**	7.82	5.0	6.3	--	--	--	4.98	4.90	4.92	5.32	5.35	5.30	5.27	5.26	5.23	5.28	5.39
TC 1 N	**	9.17	71.0	7.1	--	--	--	--	--	--	--	--	--	-40.67	-35.02	-25.49	-15.07	3.27
TC 1 E	**	9.01	58.0	7.1	--	--	--	--	--	--	--	--	--	3.21	2.69	3.11	3.37	3.42
TC 1 S	**	8.75	57.5	7.1	--	--	--	--	--	--	--	--	--	-1.22	2.75	3.03	3.37	3.43
TC 1 W	**	8.98	25.5	7.2	--	--	--	--	--	--	--	--	--	--	-12.88	-11.84	--	-1.84
TC 3 N	**	7.90	59.0	6.4	--	--	--	--	--	--	--	--	--	--	--	--	3.20	3.25
TC 3 E	**	7.65	59.0	6.2	--	--	--	--	--	--	--	--	--	--	--	--	3.19	3.23
TC 3 S	**	7.46	59.0	6.3	--	--	--	--	--	--	--	--	--	--	--	--	3.17	3.21
TC 3 W	**	8.11	24.5	6.4	--	--	--	--	--	--	--	--	--	--	--	--	4.23	4.27

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Notes:

* indicates well located in or adjacent to 950' x 950' incinerator area.

** indicates well installed by City of Linden MSSS contractor (Killam)

ELEV-7-1

WATER LEVEL ELEVATION DATA

GAF Chemicals Corp., Linden, New Jersey

(Feet above mean sea level)

Location Number		Reference Elevation (ft. msl)	Well Depth (ft)	Ground Surface Elevation (ft. msl)	08/13/90	08/20/90	08/31/90	09/07/90	09/17/90	09/20/90	09/24/90	09/27/90	10/01/90	10/02/90	10/11/90	10/15/90	10/23/90	11/02/90
W 1		8.87		8.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--
W 2		9.63	19.5	7.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
W 3		8.94	18.0	9.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
W 4		7.15	10.0	7.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
W 5		9.51	12.0	7.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
W 6	*	7.11	9.5	7.0	--	--	--	--	4.37	--	4.43	--	4.47	4.63	--	--	--	--
W 7	*	8.18	28.0	7.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SG 1		7.06		NA	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SG 2		10.46		NA	0.75	--	--	--	--	--	--	--	--	--	--	--	--	--
SG 3		9.76		NA	5.61	--	--	--	--	--	--	--	--	--	--	--	--	--
SG 4		9.68		NA	5.57	--	--	--	--	--	--	--	--	--	--	--	--	--
SG 5		6.37		NA	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SG 6		6.33		NA	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SG 7	*	7.54		NA	--	--	4.25	--	4.34	--	4.32	4.69	4.54	4.59	4.39	4.34	4.38	4.21
SG 8	*	7.06		NA	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SG 9	*	7.39		NA	4.87	5.61	4.11	--	4.32	--	4.41	4.63	4.61	4.66	3.78	4.11	4.13	4.24
SG 10	*	7.47		NA	5.17	5.60	4.26	--	4.38	--	4.42	4.68	4.67	4.72	4.52	4.44	4.49	4.33
SG 11		9.48		NA	4.02	--	--	--	--	--	--	--	--	--	2.79	--	--	--
SG 12		5.92		NA	4.16	--	--	--	--	--	--	--	--	--	--	--	--	--
SG 13		6.04		NA	4.40	--	--	--	--	--	--	--	--	--	--	--	--	--
ST A		11.45		9.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ST B		11.79		10.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ST C		11.92		10.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ST D		13.63		11.4	8.11	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 1		10.79	6.0	8.7	7.33	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 2		13.55	6.5	11.4	6.18	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 3		13.02	8.0	11.6	6.82	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 4		9.14	7.0	7.4	4.82	--	--	--	--	--	--	--	--	--	--	--	6.18	--
WP 5		9.41	7.7	7.1	5.68	--	--	--	--	--	--	--	--	--	--	--	--	--

ELEV-7-2

WATER LEVEL ELEVATION DATA

GAF Chemicals Corp., Linden, New Jersey

(Feet above mean sea level)

Location Number		Reference Elevation (ft. msl)	Well Depth (ft)	Ground Surface Elevation (ft. msl)	08/13/90	08/20/90	08/31/90	09/07/90	09/17/90	09/20/90	09/24/90	09/27/90	10/01/90	10/02/90	10/11/90	10/15/90	10/23/90	11/02/90
WP 6		14.23	10.0	12.4	7.15	--	--	--	--	--	--	11.72	--	--	--	--	--	--
WP 7		10.64	5.0	8.4	5.86	--	--	--	--	--	--	5.73	--	--	--	--	--	--
WP 8		8.67	5.0	6.8	5.87	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 9 R1	*	9.10	5.0	6.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 9 R2	*	6.96	5.0	6.9	--	--	--	--	--	--	--	--	--	--	5.76	--	5.68	5.70
WP 10	*	8.69	5.0	6.7	5.97	6.80	--	--	5.36	--	5.45	5.03	--	5.12	5.62	5.03	4.89	4.81
WP 11	*	10.41	7.5	8.4	7.46	6.66	6.20	--	5.56	--	--	6.75	--	--	6.60	--	6.26	4.44
WP 12	*	9.85	5.0	8.0	6.67	6.35	5.96	--	DRY	--	6.03	6.06	6.02	--	5.99	6.16	6.18	6.39
WP 13	*	9.35	5.0	7.2	6.39	6.18	5.93	5.31	5.27	--	5.74	5.45	5.25	5.23	--	5.39	5.26	5.17
WP 14	*	7.74	5.0	6.0	5.49	5.59	5.37	5.13	5.31	--	5.27	5.19	--	5.17	5.27	5.16	5.79	5.09
WP 15	*	9.45	5.0	7.4	5.48	5.07	4.97	5.49	4.94	--	5.16	4.97	4.91	4.88	5.08	4.93	4.92	4.85
WP 16	*	7.98	5.0	6.0	4.97	5.29	4.81	4.59	4.70	--	4.80	4.78	4.79	4.74	4.85	4.77	4.81	4.71
WP 17 S	*	8.58	2.0	6.7	5.47	DRY	DRY	--	DRY	--	--	DRY	DRY	DRY	DRY	DRY	DRY	DRY
WP 17 D	*	8.85	5.0	6.9	5.55	5.22	5.09	--	5.20	--	5.36	5.09	5.12	5.10	5.29	5.14	5.15	5.10
WP 18 S	*	8.69	2.5	7.1	6.30	6.46	6.49	--	5.83	--	5.87	7.50	--	5.38	--	5.53	--	--
WP 18 D	*	9.12	8.0	7.3	6.26	6.39	6.41	6.01	5.70	--	5.86	5.53	--	5.44	--	5.55	--	--
WP 19 S		9.29	5.0		5.74	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 19 D		9.63	13.0		5.59	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 20 S		9.83	1.5		7.45	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 20 D		9.76	7.0		7.99	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 21 R1	*	8.83	7.0	7.8	6.17	6.30	5.83	--	5.62	--	--	--	--	--	--	--	--	--
WP 21 R2	*	8.08	7.0	7.8	--	--	--	--	--	--	--	4.93	--	--	5.00	4.88	4.83	4.75
WP 22	*	9.40	7.0	6.5	5.75	5.46	5.20	--	5.16	--	5.34	5.14	5.10	5.05	5.15	4.97	5.02	4.95
WP 23	*	8.77	7.0	6.8	5.56	5.18	5.06	5.56	5.05	--	5.27	5.06	4.99	4.97	--	5.01	5.00	4.93
WP 24 R1	*	9.39	7.0	6.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 24 R2	*	6.70	7.0	6.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 24 R3	*	6.61	7.0	6.5	5.40	5.63	4.93	--	4.80	--	4.91	3.94	4.94	4.92	4.58	4.63	4.72	4.73
WP 25 R1	*	8.25	7.0	7.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 25 R2	*	7.90	7.0	7.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--

WATER LEVEL ELEVATION DATA

GAF Chemicals Corp., Linden, New Jersey

(Feet above mean sea level)

Location Number		Reference Elevation (ft. msl)	Well Depth (ft)	Ground Surface Elevation (ft. msl)	08/13/90	08/20/90	08/31/90	09/07/90	09/17/90	09/20/90	09/24/90	09/27/90	10/01/90	10/02/90	10/11/90	10/15/90	10/23/90	11/02/90
WP 25 R3	*	7.99	7.0	7.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 25 R4	*	7.49	7.0	7.4	--	--	--	5.56	--	--	6.20	5.72	5.51	--	5.90	5.75	5.34	5.59
WP 26	*	10.91	7.0	8.4	7.28	6.92	7.16	6.91	5.87	--	6.73	5.85	6.29	6.32	7.06	7.00	7.06	6.20
WP 27	*	9.13	7.0	6.2	5.48	5.52	5.23	5.07	5.22	--	5.35	5.20	5.15	5.09	5.39	5.25	5.24	5.08
WP 28	*	9.47	5.0	7.6	6.05	5.73	5.66	--	5.57	--	5.66	5.47	--	5.42	5.72	5.56	5.49	5.45
WP 29		6.37	8.0	6.3	5.66	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 30		6.22	6.0	6.2	5.43	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 31		6.59	6.0	6.6	5.73	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 32		10.05	7.0	7.2	6.25	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 33	*	6.46	8.0	6.4	5.95	5.80	5.39	--	5.29	--	5.71	5.28	5.33	5.31	5.42	5.35	5.38	5.25
WP 34	*	10.88	6.0	7.0	5.72	5.38	5.15	--	5.15	--	5.33	5.15	5.10	5.07	5.19	5.02	5.08	5.01
WP 35		9.30	7.0	6.3	5.25	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 36		10.95	7.0	8.2	7.06	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 37		10.28	7.0	7.5	6.35	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 38	*	7.46	8.0	7.5	5.82	5.84	5.56	--	5.07	--	5.48	5.28	5.18	5.16	5.24	5.22	--	5.06
WP 39	*	9.62	8.0	7.4	5.76	5.56	5.28	--	5.04	--	5.88	5.18	5.76	5.17	4.45	5.14	5.21	5.03
WP 40	*	8.49	8.0	8.5	--	6.53	--	6.90	--	--	6.49	6.51	6.66	6.68	6.66	6.60	6.77	6.55
WP 41	*	8.07	7.5	8.1	6.77	6.51	6.29	--	5.98	--	6.07	5.75	6.19	6.16	6.20	6.35	5.17	5.97
GAF 1 S		11.95	10.0	9.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 1 D		11.25	49.5	9.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 2 S		9.76	10.0	7.3	4.73	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 3 S		12.19	10.0	9.0	6.64	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 4 S		7.15	10.0	7.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 5 S		9.51	12.0	7.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 6 S	*	8.95	9.5	7.0	--	--	--	--	--	--	--	--	--	--	4.44	4.42	4.47	4.30
GAF 6 D	*	9.05	28.0	6.7	4.29	--	--	--	4.18	--	4.21	--	4.11	4.06	3.99	4.10	3.92	3.96
GAF 7 S		12.70	9.0	9.7	6.90	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 7 D		11.36	45.0	9.5	6.10	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 8 S		8.21	10.0	6.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--

ELEV-7-4

WATER LEVEL ELEVATION DATA

GAF Chemicals Corp., Linden, New Jersey

(Feet above mean sea level)

Location Number		Reference Elevation (ft. msl)	Well Depth (ft)	Ground Surface Elevation (ft. msl)	08/13/90	08/20/90	08/31/90	09/07/90	09/17/90	09/20/90	09/24/90	09/27/90	10/01/90	10/02/90	10/11/90	10/15/90	10/23/90	11/02/90
GAF 8 D		8.46	54.0	6.2	3.69	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 9 S	*	8.50	12.5	5.7	5.30	5.01	4.85	--	4.99	--	5.11	4.94	4.89	4.85	5.06	4.91	4.99	4.87
GAF 9 D	*	8.31	63.0	4.7	3.03	3.23	2.66	--	3.12	--	2.81	2.56	2.90	2.87	2.74	3.11	2.90	3.00
GAF 10 S	*	8.74	9.0	6.0	4.63	4.59	4.35	--	4.55	--	4.02	4.44	4.39	4.63	4.63	4.22	4.56	4.35
GAF 10 D	*	7.79	61.0	5.9	3.44	3.32	3.24	--	3.19	--	2.95	2.95	3.05	3.27	2.84	3.57	3.02	3.16
GAF 11 S		5.50	13.0		2.65	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 11 D		5.30	54.0		-0.05	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 12 S	*	9.85	8.0	7.3	5.79	--	--	--	5.23	--	--	--	--	--	--	--	--	--
GAF 13 S		12.43	10.5	8.9	9.31	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 13 D		10.97	51.0	8.6	5.79	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 14 S		11.84	9.0	9.0	6.60	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 14 D		9.15	46.0	7.0	5.30	--	--	--	--	--	DRY	--	--	--	--	--	--	--
GAF 15 S	*	10.05	8.0	8.0	7.60	7.16	7.26	--	7.03	--	7.05	6.87	--	7.18	7.15	7.30	7.23	6.44
GAF 15 D	*	9.96	46.0	8.0	3.54	3.49	3.43	--	3.31	--	3.30	3.24	--	3.53	3.03	3.28	3.25	4.17
GAF 16 S	*	9.75	12.0	7.3	6.35	5.90	5.80	--	5.81	--	--	5.73	--	--	5.96	6.05	5.83	--
GAF 16 D	*	9.43	51.5	7.5	4.86	4.81	4.69	--	4.52	--	--	4.52	--	--	4.45	--	4.49	--
GAF 17 S		9.47	10.0	6.8	5.10	--	--	--	--	--	--	5.71	--	--	--	--	--	--
GAF 17 D		8.96	52.0	6.8	5.20	--	--	--	--	--	--	DRY	--	--	--	--	--	--
GAF 18 S		13.08	12.0	10.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 19 S		12.57	12.0	9.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 20 S		13.22	10.0	10.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 21 S		10.38	10.0	7.9	5.62	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 22 S		10.28	12.0	7.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 23 S		8.79	5.0	8.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 24 S		12.56	11.5	10.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 25 S		9.63	11.5	7.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 26 S		9.26	11.5	7.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 27 S		10.95	12.5	10.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 28 S	*	9.70	11.5	7.7	--	--	--	--	--	--	--	--	--	--	5.45	5.66	5.24	5.15

ELEV-7-5

WATER LEVEL ELEVATION DATA

GAF Chemicals Corp., Linden, New Jersey

(Feet above mean sea level)

Location Number		Reference Elevation (ft. msl)	Well Depth (ft)	Ground Surface Elevation (ft. msl)	08/13/90	08/20/90	08/31/90	09/07/90	09/17/90	09/20/90	09/24/90	09/27/90	10/01/90	10/02/90	10/11/90	10/15/90	10/23/90	11/02/90
GAF 29 S		7.31	9.5	7.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 30 S		7.84	12.5	7.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WT 1	**	7.92	5.0	6.3	5.57	5.64	5.16	--	5.10	--	5.10	5.08	5.08	5.05	5.11	5.06	5.23	5.16
WT 2	**	9.15	5.0	7.1	5.55	5.65	5.14	5.12	5.09	--	5.08	5.07	--	5.00	5.09	5.07	5.22	5.15
WT 3	**	8.25	5.0	6.4	5.51	5.60	5.13	5.08	5.09	--	5.03	5.04	--	5.01	5.06	5.01	5.17	5.10
WT 4	**	8.14	5.0	6.4	5.64	5.63	5.42	5.35	5.31	--	5.30	5.27	--	5.24	5.22	5.16	--	5.14
WT 5	**	9.07	5.0	7.5	6.27	6.06	6.12	5.97	6.07	--	6.10	5.91	--	5.76	6.04	5.83	5.70	5.61
WT 6	**	8.76	5.0	7.4	5.65	5.40	5.15	4.94	5.05	--	5.24	5.03	5.01	4.98	5.05	4.89	4.89	4.84
WT 7	**	7.82	5.0	6.3	5.48	5.46	5.24	5.22	5.18	--	5.27	5.19	5.17	5.12	5.31	5.22	5.27	5.09
TC 1 N	**	9.17	71.0	7.1	3.51	3.49	--	--	3.49	--	3.40	3.32	3.28	3.23	3.18	3.47	3.22	3.27
TC 1 E	**	9.01	58.0	7.1	3.46	3.49	--	2.50	3.43	--	3.33	3.27	3.26	3.24	3.16	3.39	3.23	3.25
TC 1 S	**	8.75	57.5	7.1	3.47	3.49	--	--	3.45	--	3.37	3.32	3.29	3.20	3.18	3.41	3.25	3.18
TC 1 W	**	8.98	25.5	7.2	0.37	1.76	--	3.78	-15.87	--	-16.94	-16.73	-16.46	-16.39	-15.95	-15.78	-15.46	-15.07
TC 3 N	**	7.90	59.0	6.4	3.28	3.44	--	--	3.27	--	3.51	2.98	3.05	2.02	2.89	3.18	2.99	3.13
TC 3 E	**	7.65	59.0	6.2	3.27	3.43	--	--	3.26	--	2.96	2.96	3.04	3.00	2.88	3.18	2.97	3.12
TC 3 S	**	7.46	59.0	6.3	3.25	3.42	--	3.17	3.21	--	2.93	2.93	3.01	2.16	2.83	3.13	2.97	3.04
TC 3 W	**	8.11	24.5	6.4	4.38	4.31	--	4.29	-0.05	--	4.24	4.14	4.09	4.09	3.71	4.13	4.08	4.02

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Notes:

* indicates well located in or adjacent to 950' x 950' incinerator area.

** indicates well installed by City of Linden MSSS contractor (Killam)

ELEV-8-1

WATER LEVEL ELEVATION DATA

GAF Chemicals Corp., Linden, New Jersey

(Feet above mean sea level)

Location Number		Reference Elevation (ft. msl)	Well Depth (ft)	Ground Surface Elevation (ft. msl)	11/06/90	11/08/90	11/09/90	11/12/90	11/16/90	11/19/90	11/26/90	12/03/90	12/04/90	12/05/90	12/06/90	12/07/90	12/10/90	12/17/90
W 1		8.87		8.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--
W 2		9.63	19.5	7.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
W 3		8.94	18.0	9.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
W 4		7.15	10.0	7.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
W 5		9.51	12.0	7.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
W 6	*	7.11	9.5	7.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
W 7	*	8.18	28.0	7.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SG 1		7.06		NA	--	--	--	--	--	--	--	--	--	--	--	--	--	4.73
SG 2		10.46		NA	--	--	--	--	--	0.54	--	--	--	--	--	--	--	-2.19
SG 3		9.76		NA	--	--	--	--	--	5.14	--	--	--	--	--	--	--	5.04
SG 4		9.68		NA	--	--	--	--	--	5.12	--	--	--	--	--	--	--	4.90
SG 5		6.37		NA	--	--	--	--	--	4.79	--	--	--	--	--	--	--	4.45
SG 6		6.33		NA	--	--	--	--	--	4.74	--	--	--	--	--	--	--	4.54
SG 7	*	7.54		NA	4.36	4.34	4.32	4.55	--	--	4.57	4.57	4.87	4.91	4.87	4.90	4.83	4.90
SG 8	*	7.06		NA	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SG 9	*	7.39		NA	4.31	4.35	4.33	4.45	5.45	5.20	4.51	4.61	4.03	4.98	4.89	4.93	4.73	4.58
SG 10	*	7.47		NA	4.37	4.41	4.42	4.48	5.40	5.35	4.54	4.67	5.15	5.03	4.94	4.97	4.78	4.63
SG 11		9.48		NA	--	--	--	--	--	0.99	--	--	--	--	--	--	--	2.63
SG 12		5.92		NA	--	--	--	--	--	--	--	--	--	--	--	--	--	4.05
SG 13		6.04		NA	--	--	--	--	--	--	--	--	--	--	--	--	--	4.36
ST A		11.45		9.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ST B		11.79		10.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ST C		11.92		10.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ST D		13.63		11.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 1		10.79	6.0	8.7	--	--	--	--	--	5.50	--	--	--	--	--	--	--	5.53
WP 2		13.55	6.5	11.4	--	--	--	--	--	5.65	--	--	--	--	--	--	--	5.71
WP 3		13.02	8.0	11.6	--	--	--	--	--	5.77	--	--	--	--	--	--	--	5.99
WP 4		9.14	7.0	7.4	--	--	--	--	--	4.24	--	--	--	--	--	--	--	4.72
WP 5		9.41	7.7	7.1	--	--	--	--	--	4.86	--	--	--	--	--	--	--	5.35

ELEV-8-2

WATER LEVEL ELEVATION DATA

GAF Chemicals Corp., Linden, New Jersey

(Feet above mean sea level)

Location Number		Reference Elevation (ft. msl)	Well Depth (ft)	Ground Surface Elevation (ft. msl)	11/06/90	11/08/90	11/09/90	11/12/90	11/16/90	11/19/90	11/26/90	12/03/90	12/04/90	12/05/90	12/06/90	12/07/90	12/10/90	12/17/90
WP 6		14.23	10.0	12.4	--	--	--	--	--	6.42	--	--	--	--	--	--	--	6.41
WP 7		10.64	5.0	8.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 8		8.67	5.0	6.8	--	--	--	--	--	5.45	--	--	--	--	--	--	--	5.57
WP 9 R1	*	9.10	5.0	6.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 9 R2	*	6.96	5.0	6.9	5.96	5.88	--	5.87	--	5.75	5.65	5.59	5.65	5.84	5.85	5.84	5.81	5.84
WP 10	*	8.69	5.0	6.7	4.78	4.74	4.72	5.74	--	5.56	5.45	5.22	6.29	6.00	5.76	5.66	5.36	5.62
WP 11	*	10.41	7.5	8.4	6.41	6.10	--	6.80	--	6.71	--	6.38	7.47	7.32	7.29	7.02	7.12	7.07
WP 12	*	9.85	5.0	8.0	6.32	6.28	6.26	6.29	6.28	6.26	6.40	6.37	6.60	6.64	6.63	6.62	6.59	6.57
WP 13	*	9.35	5.0	7.2	5.03	4.96	4.92	5.78	--	5.34	5.32	--	--	--	--	--	--	--
WP 14	*	7.74	5.0	6.0	5.09	5.02	5.01	5.24	5.37	5.23	5.13	5.10	5.88	5.40	5.29	5.25	5.20	5.29
WP 15	*	9.45	5.0	7.4	4.82	4.78	4.76	5.26	5.01	5.02	5.01	5.00	5.86	5.66	5.47	5.33	5.17	5.21
WP 16	*	7.98	5.0	6.0	4.67	4.54	4.49	4.81	5.23	4.99	4.74	4.72	5.11	4.98	4.89	4.90	4.81	4.81
WP 17 S	*	8.58	2.0	6.7	DRY	DRY	DRY	5.28	--	DRY	DRY	DRY	5.90	5.70	5.51	5.37	5.20	5.24
WP 17 D	*	8.85	5.0	6.9	5.10	5.03	5.01	5.48	--	5.23	5.26	5.24	5.95	5.90	5.68	5.55	5.39	5.41
WP 18 S	*	8.69	2.5	7.1	DRY	DRY	DRY	5.84	5.81	5.82	5.80	5.65	6.48	6.25	6.10	6.00	5.86	6.03
WP 18 D	*	9.12	8.0	7.3	5.23	5.10	5.04	5.80	5.73	5.77	5.75	5.59	6.16	6.13	6.02	5.93	5.83	5.94
WP 19 S		9.29	5.0		--	--	--	--	--	5.20	--	--	--	--	--	--	--	4.83
WP 19 D		9.63	13.0		--	--	--	--	--	5.11	--	--	--	--	--	--	--	4.75
WP 20 S		9.83	1.5		--	--	--	--	--	7.24	--	--	--	--	--	--	--	7.51
WP 20 D		9.76	7.0		--	--	--	--	--	5.11	--	--	--	--	--	--	--	4.39
WP 21 R1	*	8.83	7.0	7.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 21 R2	*	8.08	7.0	7.8	4.75	4.71	4.70	4.98	5.22	5.09	4.81	4.75	5.58	5.25	5.14	5.10	4.96	5.05
WP 22	*	9.40	7.0	6.5	4.97	4.90	4.88	5.50	5.28	5.30	5.19	5.17	6.12	5.89	5.68	5.56	5.38	5.43
WP 23	*	8.77	7.0	6.8	4.94	4.87	4.84	5.35	--	5.13	5.12	5.08	5.94	5.76	5.55	5.43	5.27	5.31
WP 24 R1	*	9.39	7.0	6.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 24 R2	*	6.70	7.0	6.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 24 R3	*	6.61	7.0	6.5	4.66	4.68	4.69	4.89	5.36	5.18	4.83	4.87	--	5.23	5.15	5.13	5.00	4.97
WP 25 R1	*	8.25	7.0	7.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 25 R2	*	7.90	7.0	7.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--

ELEV-8-3

WATER LEVEL ELEVATION DATA

GAF Chemicals Corp., Linden, New Jersey

(Feet above mean sea level)

Location Number		Reference Elevation (ft. msl)	Well Depth (ft)	Ground Surface Elevation (ft. msl)	11/06/90	11/08/90	11/09/90	11/12/90	11/16/90	11/19/90	11/26/90	12/03/90	12/04/90	12/05/90	12/06/90	12/07/90	12/10/90	12/17/90
WP 25 R3	*	7.99	7.0	7.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 25 R4	*	7.49	7.0	7.4	5.38	5.27	5.18	6.01	--	5.45	5.51	5.15	6.92	6.60	6.23	6.06	5.67	5.94
WP 26	*	10.91	7.0	8.4	6.14	6.01	5.92	6.47	--	6.21	6.15	5.73	7.03	6.41	6.23	6.10	6.08	6.24
WP 27	*	9.13	7.0	6.2	5.06	4.91	4.88	5.39	--	5.20	5.16	5.02	6.60	5.45	5.39	5.36	5.25	5.30
WP 28	*	9.47	5.0	7.6	5.41	5.34	5.30	5.78	--	5.56	5.54	5.33	6.08	5.92	5.75	5.64	5.55	--
WP 29		6.37	8.0	6.3	--	--	--	--	--	2.06	--	--	--	--	--	--	--	5.72
WP 30		6.22	6.0	6.2	--	--	--	--	--	6.05	--	--	--	--	--	--	--	5.51
WP 31		6.59	6.0	6.6	--	--	--	--	--	5.79	--	--	--	--	--	--	--	5.91
WP 32		10.05	7.0	7.2	--	--	--	--	--	6.06	--	--	--	--	--	--	--	6.23
WP 33	*	6.46	8.0	6.4	5.23	5.23	--	5.42	--	5.47	5.20	5.30	5.88	5.66	5.57	5.50	5.49	5.48
WP 34	*	10.88	6.0	7.0	5.02	4.93	--	5.43	--	5.27	5.33	5.23	6.20	5.99	5.74	5.66	5.46	5.36
WP 35		9.30	7.0	6.3	--	--	--	--	--	5.21	--	--	--	--	--	--	--	5.29
WP 36		10.95	7.0	8.2	--	--	--	--	--	6.29	--	--	--	--	--	--	--	7.67
WP 37		10.28	7.0	7.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 38	*	7.46	8.0	7.5	4.91	4.89	4.84	5.42	5.36	5.27	5.20	5.03	5.54	5.60	5.54	5.44	5.32	5.35
WP 39	*	9.62	8.0	7.4	5.03	4.91	4.90	5.33	5.33	5.28	5.06	5.05	5.77	5.54	5.44	5.33	5.26	5.32
WP 40	*	8.49	8.0	8.5	6.58	6.47	6.48	6.50	--	6.52	6.18	6.48	6.73	6.57	6.56	6.48	6.55	6.41
WP 41	*	8.07	7.5	8.1	5.91	5.72	5.67	5.92	5.79	6.03	5.62	5.81	6.34	6.17	6.03	5.86	6.09	5.83
GAF 1 S		11.95	10.0	9.0	--	--	--	--	--	6.32	--	--	--	--	--	--	--	6.95
GAF 1 D		11.25	49.5	9.1	--	--	--	--	--	4.96	--	--	--	--	--	--	--	5.16
GAF 2 S		9.76	10.0	7.3	--	--	--	--	--	4.27	--	--	--	--	--	--	--	4.19
GAF 3 S		12.19	10.0	9.0	--	--	--	--	--	4.57	--	--	--	--	--	--	--	4.49
GAF 4 S		7.15	10.0	7.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 5 S		9.51	12.0	7.6	--	--	--	--	--	4.92	--	--	--	--	--	--	--	4.71
GAF 6 S	*	8.95	9.5	7.0	4.31	4.35	4.37	4.45	--	5.06	4.71	4.76	5.58	5.09	4.94	4.96	4.76	4.72
GAF 6 D	*	9.05	28.0	6.7	4.10	3.98	3.92	4.08	--	4.08	3.77	3.88	4.35	4.24	4.14	4.07	4.17	4.00
GAF 7 S		12.70	9.0	9.7	--	--	--	--	--	5.01	--	--	--	--	--	--	--	4.84
GAF 7 D		11.36	45.0	9.5	--	--	--	--	--	5.32	--	--	--	--	--	--	--	5.24
GAF 8 S		8.21	10.0	6.1	--	--	--	--	--	5.06	5.06	--	--	--	--	--	--	5.22

ELEV-8-4

WATER LEVEL ELEVATION DATA

GAF Chemicals Corp., Linden, New Jersey

(Feet above mean sea level)

Location Number		Reference Elevation (ft. msl)	Well Depth (ft)	Ground Surface Elevation (ft. msl)	11/06/90	11/08/90	11/09/90	11/12/90	11/16/90	11/19/90	11/26/90	12/03/90	12/04/90	12/05/90	12/06/90	12/07/90	12/10/90	12/17/90
GAF 8 D		8.46	54.0	6.2	--	--	--	--	--	3.62	3.46	--	--	--	--	--	--	3.36
GAF 9 S	*	8.50	12.5	5.7	4.86	4.81	4.78	5.24	--	5.01	5.03	5.04	5.88	5.66	5.45	5.31	5.14	5.20
GAF 9 D	*	8.31	63.0	4.7	3.17	2.64	2.71	2.45	--	2.98	2.61	2.91	3.54	2.92	2.73	2.77	2.83	2.63
GAF 10 S	*	8.74	9.0	6.0	4.36	4.25	4.26	4.61	--	4.42	4.42	4.82	5.15	4.77	4.62	4.56	4.47	4.57
GAF 10 D	*	7.79	61.0	5.9	3.29	3.00	2.89	2.88	--	3.10	3.01	3.04	3.48	3.37	3.27	3.22	3.24	3.12
GAF 11 S		5.50	13.0		--	--	--	--	--	0.23	--	--	--	--	--	--	--	1.48
GAF 11 D		5.30	54.0		--	--	--	--	--	1.20	--	--	--	--	--	--	--	-0.55
GAF 12 S	*	9.85	8.0	7.3	--	--	--	5.55	5.59	5.40	5.31	5.40	6.07	5.88	5.74	5.67	5.55	4.53
GAF 13 S		12.43	10.5	8.9	--	--	--	--	--	5.22	--	--	--	--	--	--	--	4.05
GAF 13 D		10.97	51.0	8.6	--	--	--	--	--	4.77	--	--	--	--	--	--	--	4.85
GAF 14 S		11.84	9.0	9.0	--	--	--	--	--	7.23	--	--	--	--	--	--	--	6.08
GAF 14 D		9.15	46.0	7.0	--	--	--	DRY	--	4.61	--	--	--	--	--	--	--	4.46
GAF 15 S	*	10.05	8.0	8.0	6.76	6.20	6.06	6.72	--	6.56	6.36	6.11	7.07	6.84	6.75	6.58	6.65	6.60
GAF 15 D	*	9.96	46.0	8.0	3.30	3.08	3.03	3.13	--	3.15	2.04	2.95	3.43	3.32	3.22	3.15	3.27	3.07
GAF 16 S	*	9.75	12.0	7.3	5.65	5.56	--	6.05	--	5.78	5.78	5.79	6.80	6.29	6.09	5.98	5.86	6.02
GAF 16 D	*	9.43	51.5	7.5	4.55	4.38	--	4.51	--	4.46	4.36	4.29	4.65	4.59	4.59	4.54	4.56	4.49
GAF 17 S		9.47	10.0	6.8	--	--	--	--	--	4.59	4.58	--	--	--	--	DRY	--	4.80
GAF 17 D		8.96	52.0	6.8	--	--	--	--	--	4.98	4.84	--	--	--	--	--	--	4.82
GAF 18 S		13.08	12.0	10.4	--	--	--	--	--	6.69	--	--	--	--	--	--	--	6.89
GAF 19 S		12.57	12.0	9.8	--	--	--	--	--	6.38	--	--	--	--	--	--	--	6.63
GAF 20 S		13.22	10.0	10.3	--	--	--	--	--	6.61	--	--	--	--	--	--	--	6.76
GAF 21 S		10.38	10.0	7.9	--	--	--	--	--	5.09	--	--	--	--	--	--	--	5.12
GAF 22 S		10.28	12.0	7.3	--	--	--	--	--	5.15	--	--	--	--	--	--	--	5.27
GAF 23 S		8.79	5.0	8.7	--	--	--	--	--	5.62	--	DRY	--	--	--	--	--	5.67
GAF 24 S		12.56	11.5	10.5	--	--	--	--	--	6.45	--	--	--	--	--	--	--	6.57
GAF 25 S		9.63	11.5	7.6	--	--	--	--	--	3.92	--	--	--	--	--	--	--	5.54
GAF 26 S		9.26	11.5	7.2	--	--	--	--	--	5.02	--	--	--	--	--	--	--	4.94
GAF 27 S		10.95	12.5	10.9	--	--	--	--	--	5.45	--	--	--	--	--	--	--	5.52
GAF 28 S	*	9.70	11.5	7.7	--	4.95	4.91	5.74	--	5.31	5.29	5.07	6.27	6.04	5.91	5.78	5.62	5.58

ELEV-8-5

WATER LEVEL ELEVATION DATA

GAF Chemicals Corp., Linden, New Jersey

(Feet above mean sea level)

Location Number		Reference Elevation (ft. msl)	Well Depth (ft)	Ground Surface Elevation (ft. msl)	11/06/90	11/08/90	11/09/90	11/12/90	11/16/90	11/19/90	11/26/90	12/03/90	12/04/90	12/05/90	12/06/90	12/07/90	12/10/90	12/17/90
GAF 29 S		7.31	9.5	7.3	--	--	--	--	--	5.94	--	--	--	--	--	--	--	3.44
GAF 30 S		7.84	12.5	7.8	--	--	--	--	--	4.28	--	--	--	--	--	--	--	4.33
WT 1	**	7.92	5.0	6.3	5.19	5.17	5.17	5.29	--	5.17	5.07	5.07	5.36	5.22	5.16	5.17	5.08	5.20
WT 2	**	9.15	5.0	7.1	5.17	5.19	5.19	5.28	--	5.20	5.05	5.02	5.35	5.19	5.14	5.13	5.10	5.15
WT 3	**	8.25	5.0	6.4	5.11	5.11	5.11	5.20	5.34	5.14	5.00	4.98	4.33	5.14	5.08	5.07	5.03	5.08
WT 4	**	8.14	5.0	6.4	5.08	5.01	5.00	5.25	5.41	5.31	5.07	4.98	5.85	5.51	5.39	5.36	5.27	5.32
WT 5	**	9.07	5.0	7.5	5.49	5.40	5.35	5.98	--	5.81	5.81	5.59	6.50	6.10	6.00	5.94	5.85	6.01
WT 6	**	8.76	5.0	7.4	4.85	4.81	4.78	5.31	5.21	5.19	5.07	5.04	6.06	5.74	5.56	5.44	5.26	5.34
WT 7	**	7.82	5.0	6.3	5.05	4.93	4.91	5.28	5.37	5.18	5.13	5.06	5.42	5.33	5.29	5.25	5.21	5.24
TC 1 N	**	9.17	71.0	7.1	3.49	3.17	2.88	2.98	2.92	3.30	3.18	3.05	3.64	3.39	3.15	3.20	3.32	2.99
TC 1 E	**	9.01	58.0	7.1	3.45	3.11	3.11	3.06	2.98	3.27	3.11	3.08	3.72	3.37	3.20	3.20	3.32	3.04
TC 1 S	**	8.75	57.5	7.1	3.48	3.17	3.09	3.10	3.01	3.24	3.14	3.10	3.59	3.48	3.24	3.22	3.32	3.04
TC 1 W	**	8.98	25.5	7.2	-14.94	-14.89	-11.71	-11.67	-11.61	-11.57	-11.48	-11.41	-11.39	-11.39	-11.38	-11.37	-11.34	-11.27
TC 3 N	**	7.90	59.0	6.4	3.25	2.81	2.84	2.60	2.77	3.15	2.79	2.82	3.61	3.06	2.90	2.91	2.97	2.77
TC 3 E	**	7.65	59.0	6.2	3.23	2.80	2.82	2.59	2.76	3.13	2.79	2.81	3.58	3.05	2.89	2.90	2.97	2.76
TC 3 S	**	7.46	59.0	6.3	3.20	2.76	2.79	2.55	2.72	3.11	2.76	2.77	3.57	3.03	2.87	2.87	2.94	2.74
TC 3 W	**	8.11	24.5	6.4	4.12	3.96	2.85	3.55	3.56	3.67	3.66	3.61	3.98	3.94	3.89	3.85	3.93	3.83

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Notes:

* indicates well located in or adjacent to 950' x 950' incinerator area.

** indicates well installed by City of Linden MSSS contractor (Killam)

ELEV-9-1

WATER LEVEL ELEVATION DATA

GAF Chemicals Corp., Linden, New Jersey

(Feet above mean sea level)

Location Number		Reference Elevation (ft. msl)	Well Depth (ft)	Ground Surface Elevation (ft. msl)	12/18/90	12/21/90	12/24/90	12/31/90	01/07/91	01/11/91	01/14/91	01/21/91	01/28/91	02/04/91	02/11/91	02/18/91	02/25/91	03/04/91
W 1		8.87		8.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--
W 2		9.63	19.5	7.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
W 3		8.94	18.0	9.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
W 4		7.15	10.0	7.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
W 5		9.51	12.0	7.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
W 6	*	7.11	9.5	7.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
W 7	*	8.18	28.0	7.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SG 1		7.06		NA	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SG 2		10.46		NA	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SG 3		9.76		NA	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SG 4		9.68		NA	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SG 5		6.37		NA	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SG 6		6.33		NA	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SG 7	*	7.54		NA	4.90	4.74	4.74	4.59	4.41	--	--	4.09	--	4.19	4.10	4.06	4.13	--
SG 8	*	7.06		NA	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SG 9	*	7.39		NA	4.77	4.54	4.53	4.09	3.74	3.64	5.94	4.06	3.71	3.88	3.70	4.07	4.14	5.50
SG 10	*	7.47		NA	4.85	4.57	4.66	4.47	4.30	4.25	5.82	4.29	4.22	4.41	4.20	4.21	4.23	5.84
SG 11		9.48		NA	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SG 12		5.92		NA	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SG 13		6.04		NA	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ST A		11.45		9.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ST B		11.79		10.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ST C		11.92		10.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ST D		13.63		11.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 1		10.79	6.0	8.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 2		13.55	6.5	11.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 3		13.02	8.0	11.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 4		9.14	7.0	7.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 5		9.41	7.7	7.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--

ELEV-9-2

WATER LEVEL ELEVATION DATA

GAF Chemicals Corp., Linden, New Jersey

(Feet above mean sea level)

Location Number		Reference Elevation (ft. msl)	Well Depth (ft)	Ground Surface Elevation (ft. msl)	12/18/90	12/21/90	12/24/90	12/31/90	01/07/91	01/11/91	01/14/91	01/21/91	01/28/91	02/04/91	02/11/91	02/18/91	02/25/91	03/04/91
WP 6		14.23	10.0	12.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 7		10.64	5.0	8.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 8		8.67	5.0	6.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 9 R1	*	9.10	5.0	6.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 9 R2	*	6.96	5.0	6.9	--	5.84	5.80	5.81	5.85	5.83	6.06	6.12	5.81	5.86	5.81	5.22	5.61	5.73
WP 10	*	8.69	5.0	6.7	5.50	5.65	6.38	6.44	5.16	5.62	6.26	5.71	4.97	5.24	5.03	5.06	5.20	6.62
WP 11	*	10.41	7.5	8.4	7.78	7.21	8.02	7.48	6.87	7.06	7.46	7.51	6.66	7.01	7.25	6.52	7.16	7.95
WP 12	*	9.85	5.0	8.0	6.59	6.63	6.69	6.83	6.73	6.70	7.24	7.32	7.08	7.01	6.98	6.94	7.40	7.24
WP 13	*	9.35	5.0	7.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 14	*	7.74	5.0	6.0	4.96	5.25	5.72	5.53	5.13	5.20	5.89	5.58	5.14	5.15	5.12	5.15	5.12	5.77
WP 15	*	9.45	5.0	7.4	5.70	5.50	5.73	5.66	5.04	5.20	5.65	5.28	4.84	4.99	4.93	4.82	4.91	5.90
WP 16	*	7.98	5.0	6.0	4.92	4.83	4.93	4.89	4.75	4.78	5.68	4.86	4.68	4.72	4.73	4.55	4.74	5.60
WP 17 S	*	8.58	2.0	6.7	5.81	5.53	5.72	DRY	DRY	5.23	5.70	5.31	DRY	DRY	DRY	DRY	DRY	DRY
WP 17 D	*	8.85	5.0	6.9	5.95	5.68	5.90	5.91	5.30	5.43	5.84	5.52	5.12	5.27	5.18	5.09	5.14	6.03
WP 18 S	*	8.69	2.5	7.1	6.29	5.92	6.37	6.39	5.86	6.00	6.27	6.23	5.64	5.82	5.74	5.60	5.71	6.40
WP 18 D	*	9.12	8.0	7.3	6.07	5.82	6.16	6.25	5.78	5.90	6.18	6.11	5.62	5.79	5.77	5.58	5.75	6.32
WP 19 S		9.29	5.0		--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 19 D		9.63	13.0		--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 20 S		9.83	1.5		--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 20 D		9.76	7.0		--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 21 R1	*	8.83	7.0	7.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 21 R2	*	8.08	7.0	7.8	5.19	4.98	5.31	5.19	4.76	4.91	5.82	5.03	4.66	4.77	4.75	4.64	4.71	5.82
WP 22	*	9.40	7.0	6.5	6.08	5.72	5.98	5.95	5.12	5.30	6.11	5.45	4.88	5.14	4.94	4.88	4.98	6.29
WP 23	*	8.77	7.0	6.8	5.84	5.59	5.79	5.76	5.13	5.29	5.78	5.36	4.92	4.90	5.01	4.87	4.97	5.97
WP 24 R1	*	9.39	7.0	6.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 24 R2	*	6.70	7.0	6.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 24 R3	*	6.61	7.0	6.5	5.26	4.95	5.23	4.92	4.48	--	5.98	4.75	4.49	4.60	4.46	4.47	4.49	5.75
WP 25 R1	*	8.25	7.0	7.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 25 R2	*	7.90	7.0	7.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--

ELEV-9-3

WATER LEVEL ELEVATION DATA

GAF Chemicals Corp., Linden, New Jersey

(Feet above mean sea level)

Location Number		Reference Elevation (ft. msl)	Well Depth (ft)	Ground Surface Elevation (ft. msl)	12/18/90	12/21/90	12/24/90	12/31/90	01/07/91	01/11/91	01/14/91	01/21/91	01/28/91	02/04/91	02/11/91	02/18/91	02/25/91	03/04/91
WP 25 R3	*	7.99	7.0	7.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 25 R4	*	7.49	7.0	7.4	6.03	5.92	6.67	6.68	5.62	5.82	--	6.43	5.35	5.60	5.63	5.32	5.52	--
WP 26	*	10.91	7.0	8.4	6.73	5.84	6.35	5.99	5.45	6.21	6.12	5.83	5.17	4.97	5.22	5.06	5.24	6.03
WP 27	*	9.13	7.0	6.2	5.51	5.33	5.57	5.50	5.20	5.25	5.89	--	5.08	5.15	5.12	5.04	5.12	5.81
WP 28	*	9.47	5.0	7.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 29		6.37	8.0	6.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 30		6.22	6.0	6.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 31		6.59	6.0	6.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 32		10.05	7.0	7.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 33	*	6.46	8.0	6.4	5.81	5.43	5.70	5.55	5.22	5.31	--	5.47	5.23	5.26	5.22	5.18	5.30	--
WP 34	*	10.88	6.0	7.0	6.51	5.73	6.01	5.92	5.20	5.48	6.13	5.39	4.86	5.35	4.96	4.91	4.97	6.28
WP 35		9.30	7.0	6.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 36		10.95	7.0	8.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 37		10.28	7.0	7.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 38	*	7.46	8.0	7.5	5.46	5.38	5.54	5.60	5.14	5.12	5.91	5.63	5.03	5.07	5.06	4.90	5.08	5.90
WP 39	*	9.62	8.0	7.4	5.65	5.32	5.68	5.52	5.06	5.18	4.86	--	4.97	5.09	5.10	4.97	5.12	6.07
WP 40	*	8.49	8.0	8.5	6.76	6.44	6.61	6.32	6.40	6.49	6.52	6.40	6.42	6.48	6.49	6.54	6.64	6.76
WP 41	*	8.07	7.5	8.1	6.29	5.90	6.26	5.84	5.69	5.68	6.00	5.98	5.81	5.87	5.96	5.66	6.03	6.32
GAF 1 S		11.95	10.0	9.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 1 D		11.25	49.5	9.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 2 S		9.76	10.0	7.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 3 S		12.19	10.0	9.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 4 S		7.15	10.0	7.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 5 S		9.51	12.0	7.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 6 S	*	8.95	9.5	7.0	5.04	4.60	4.95	4.76	4.27	4.30	5.69	--	4.18	4.47	4.19	4.18	4.23	6.00
GAF 6 D	*	9.05	28.0	6.7	4.21	3.95	4.33	4.15	3.96	3.93	4.28	--	3.97	3.77	4.02	3.65	3.87	4.40
GAF 7 S		12.70	9.0	9.7	--	--	--	5.56	--	--	--	--	--	--	--	--	--	--
GAF 7 D		11.36	45.0	9.5	--	--	--	5.51	--	--	--	--	--	--	--	--	--	--
GAF 8 S		8.21	10.0	6.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--

ELEV-9-4

WATER LEVEL ELEVATION DATA

GAF Chemicals Corp., Linden, New Jersey

(Feet above mean sea level)

Location Number		Reference Elevation (ft. msl)	Well Depth (ft)	Ground Surface Elevation (ft. msl)	12/18/90	12/21/90	12/24/90	12/31/90	01/07/91	01/11/91	01/14/91	01/21/91	01/28/91	02/04/91	02/11/91	02/18/91	02/25/91	03/04/91
GAF 8 D		8.46	54.0	6.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 9 S	*	8.50	12.5	5.7	5.75	5.45	5.70	5.72	5.09	5.22	5.63	--	4.98	5.08	5.01	4.95	4.99	5.84
GAF 9 D	*	8.31	63.0	4.7	3.02	2.71	2.94	2.90	2.62	2.77	3.15	--	2.86	2.28	2.81	2.45	2.58	3.36
GAF 10 S	*	8.74	9.0	6.0	5.01	4.57	5.09	4.92	4.41	4.53	4.71	--	4.46	4.40	4.41	4.41	4.42	4.97
GAF 10 D	*	7.79	61.0	5.9	3.22	2.88	3.34	3.25	3.00	3.02	3.31	3.38	2.90	2.66	3.15	2.76	2.83	3.46
GAF 11 S		5.50	13.0		--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 11 D		5.30	54.0		--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 12 S	*	9.85	8.0	7.3	6.03	5.70	5.85	5.75	5.22	5.48	5.04	--	5.11	5.36	5.23	5.25	5.27	6.42
GAF 13 S		12.43	10.5	8.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 13 D		10.97	51.0	8.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 14 S		11.84	9.0	9.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 14 D		9.15	46.0	7.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 15 S	*	10.05	8.0	8.0	7.16	6.61	7.27	6.87	6.43	6.61	6.87	6.98	6.13	6.55	6.80	6.20	6.74	7.40
GAF 15 D	*	9.96	46.0	8.0	3.31	3.01	3.42	3.18	3.05	3.01	3.35	3.40	3.08	2.86	3.11	2.71	2.97	3.44
GAF 16 S	*	9.75	12.0	7.3	6.50	5.96	6.71	6.52	5.86	5.98	6.24	6.23	5.77	5.86	5.83	5.66	5.78	6.84
GAF 16 D	*	9.43	51.5	7.5	4.68	4.41	4.75	4.61	4.42	4.32	4.74	--	4.49	4.36	4.43	4.13	4.34	4.84
GAF 17 S		9.47	10.0	6.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 17 D		8.96	52.0	6.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 18 S		13.08	12.0	10.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 19 S		12.57	12.0	9.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 20 S		13.22	10.0	10.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 21 S		10.38	10.0	7.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 22 S		10.28	12.0	7.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 23 S		8.79	5.0	8.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 24 S		12.56	11.5	10.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 25 S		9.63	11.5	7.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 26 S		9.26	11.5	7.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 27 S		10.95	12.5	10.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 28 S	*	9.70	11.5	7.7	5.76	5.66	6.08	6.29	5.40	5.44	6.24	5.94	5.21	5.30	5.33	4.11	5.30	6.69

WATER LEVEL ELEVATION DATA

GAF Chemicals Corp., Linden, New Jersey

(Feet above mean sea level)

Location Number		Reference Elevation (ft. msl)	Well Depth (ft)	Ground Surface Elevation (ft. msl)	12/18/90	12/21/90	12/24/90	12/31/90	01/07/91	01/11/91	01/14/91	01/21/91	01/28/91	02/04/91	02/11/91	02/18/91	02/25/91	03/04/91
GAF 29 S		7.31	9.5	7.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 30 S		7.84	12.5	7.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WT 1	**	7.92	5.0	6.3	5.31	5.14	5.30	5.27	5.16	5.07	5.64	5.28	5.07	5.12	5.39	5.22	5.23	5.90
WT 2	**	9.15	5.0	7.1	5.22	5.09	--	5.22	5.10	5.13	5.69	5.22	5.09	5.10	5.12	5.10	5.11	5.91
WT 3	**	8.25	5.0	6.4	5.21	5.05	5.24	5.14	5.01	5.05	5.68	5.16	5.03	5.02	5.02	5.03	5.03	5.86
WT 4	**	8.14	5.0	6.4	5.71	5.26	5.68	5.65	5.19	5.20	5.75	5.57	5.18	5.23	5.15	4.99	5.03	6.05
WT 5	**	9.07	5.0	7.5	6.36	5.95	6.52	6.35	5.86	6.01	6.16	6.12	5.68	5.83	5.80	5.59	5.74	6.41
WT 6	**	8.76	5.0	7.4	5.85	5.61	5.92	5.71	4.98	5.14	5.92	5.36	4.73	4.95	4.85	4.72	4.84	6.19
WT 7	**	7.82	5.0	6.3	5.37	5.27	5.45	5.40	5.18	5.22	5.79	5.36	5.10	5.18	5.17	5.05	5.19	5.98
TC 1 N	**	9.17	71.0	7.1	3.24	3.06	3.36	3.23	3.08	3.12	3.48	3.48	3.08	2.71	3.26	2.75	2.98	2.60
TC 1 E	**	9.01	58.0	7.1	3.38	3.11	3.44	3.27	3.05	3.12	3.46	--	3.15	2.79	3.18	2.77	2.98	3.62
TC 1 S	**	8.75	57.5	7.1	3.41	3.13	3.53	3.32	3.09	3.15	3.50	--	3.19	2.82	3.23	2.79	3.02	3.64
TC 1 W	**	8.98	25.5	7.2	-11.27	-11.24	-11.22	-11.14	-11.08	-11.06	-11.03	--	-10.89	-10.87	-10.83	-10.80	-10.77	-10.75
TC 3 N	**	7.90	59.0	6.4	3.11	2.81	3.08	3.01	2.75	2.85	3.23	--	2.89	2.40	2.87	2.49	2.64	3.36
TC 3 E	**	7.65	59.0	6.2	3.20	2.80	3.07	3.00	2.74	2.83	3.23	--	2.87	2.38	2.85	2.49	2.64	3.34
TC 3 S	**	7.46	59.0	6.3	3.05	2.78	3.05	2.99	2.72	2.81	3.22	--	2.87	2.37	2.85	2.48	2.61	3.33
TC 3 W	**	8.11	24.5	6.4	3.97	3.77	3.95	3.90	3.76	3.76	4.11	--	3.91	3.69	--	3.58	3.69	4.12

Printed 04/15/91

Notes:

* indicates well located in or adjacent to 950' x 950' incinerator area.

** indicates well installed by City of Linden MSSS contractor (Killam)

ELEV-10-1

WATER LEVEL ELEVATION DATA

GAF Chemicals Corp., Linden, New Jersey

(Feet above mean sea level)

Location Number		Reference Elevation (ft. msl)	Well Depth (ft)	Ground Surface Elevation (ft. msl)	03/11/91	03/18/91	03/25/91	04/01/91	04/08/91	04/15/91								
W 1		8.87		8.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--
W 2		9.63	19.5	7.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
W 3		8.94	18.0	9.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
W 4		7.15	10.0	7.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
W 5		9.51	12.0	7.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
W 6	*	7.11	9.5	7.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
W 7	*	8.18	28.0	7.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SG 1		7.06		NA	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SG 2		10.46		NA	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SG 3		9.76		NA	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SG 4		9.68		NA	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SG 5		6.37		NA	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SG 6		6.33		NA	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SG 7	*	7.54		NA	4.89	4.12	4.24	4.21	--	--	--	--	--	--	--	--	--	--
SG 8	*	7.06		NA	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SG 9	*	7.39		NA	4.05	4.03	4.19	3.64	--	--	--	--	--	--	--	--	--	--
SG 10	*	7.47		NA	4.69	4.27	4.20	4.22	--	--	--	--	--	--	--	--	--	--
SG 11		9.48		NA	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SG 12		5.92		NA	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SG 13		6.04		NA	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ST A		11.45		9.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ST B		11.79		10.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ST C		11.92		10.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ST D		13.63		11.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 1		10.79	6.0	8.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 2		13.55	6.5	11.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 3		13.02	8.0	11.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 4		9.14	7.0	7.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 5		9.41	7.7	7.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--

ELEV-10-2

WATER LEVEL ELEVATION DATA

GAF Chemicals Corp., Linden, New Jersey

(Feet above mean sea level)

Location Number		Reference Elevation (ft. msl)	Well Depth (ft)	Ground Surface Elevation (ft. msl)	03/11/91	03/18/91	03/25/91	04/01/91	04/08/91	04/15/91									
WP 6		14.23	10.0	12.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 7		10.64	5.0	8.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 8		8.67	5.0	6.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 9 R1	*	9.10	5.0	6.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 9 R2	*	6.96	5.0	6.9	5.96	--	6.15	5.88	--	--	--	--	--	--	--	--	--	--	--
WP 10	*	8.69	5.0	6.7	5.55	5.59	5.74	5.75	--	--	--	--	--	--	--	--	--	--	--
WP 11	*	10.41	7.5	8.4	7.07	7.80	7.45	7.48	--	--	--	--	--	--	--	--	--	--	--
WP 12	*	9.85	5.0	8.0	7.07	6.75	6.82	6.63	--	--	--	--	--	--	--	--	--	--	--
WP 13	*	9.35	5.0	7.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 14	*	7.74	5.0	6.0	5.20	5.62	5.21	5.33	--	--	--	--	--	--	--	--	--	--	--
WP 15	*	9.45	5.0	7.4	5.07	5.29	5.04	5.02	--	--	--	--	--	--	--	--	--	--	--
WP 16	*	7.98	5.0	6.0	4.78	4.86	4.75	4.79	--	--	--	--	--	--	--	--	--	--	--
WP 17 S	*	8.58	2.0	6.7	DRY	5.30	DRY	DRY	--	--	--	--	--	--	--	--	--	--	--
WP 17 D	*	8.85	5.0	6.9	5.28	5.47	5.24	5.24	--	--	--	--	--	--	--	--	--	--	--
WP 18 S	*	8.69	2.5	7.1	5.84	6.18	5.96	5.98	--	--	--	--	--	--	--	--	--	--	--
WP 18 D	*	9.12	8.0	7.3	5.87	6.09	5.99	5.95	--	--	--	--	--	--	--	--	--	--	--
WP 19 S		9.29	5.0		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 19 D		9.63	13.0		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 20 S		9.83	1.5		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 20 D		9.76	7.0		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 21 R1	*	8.83	7.0	7.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 21 R2	*	8.08	7.0	7.8	4.95	4.97	4.89	4.88	--	--	--	--	--	--	--	--	--	--	--
WP 22	*	9.40	7.0	6.5	5.25	5.52	5.08	5.07	--	--	--	--	--	--	--	--	--	--	--
WP 23	*	8.77	7.0	6.8	5.13	5.36	5.12	5.08	--	--	--	--	--	--	--	--	--	--	--
WP 24 R1	*	9.39	7.0	6.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 24 R2	*	6.70	7.0	6.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 24 R3	*	6.61	7.0	6.5	4.86	4.64	4.55	4.52	--	--	--	--	--	--	--	--	--	--	--
WP 25 R1	*	8.25	7.0	7.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 25 R2	*	7.90	7.0	7.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

ELEV-10-3

WATER LEVEL ELEVATION DATA

GAF Chemicals Corp., Linden, New Jersey

(Feet above mean sea level)

Location Number		Reference Elevation (ft. msl)	Well Depth (ft)	Ground Surface Elevation (ft. msl)	03/11/91	03/18/91	03/25/91	04/01/91	04/08/91	04/15/91								
WP 25 R3	*	7.99	7.0	7.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 25 R4	*	7.49	7.0	7.4	5.93	--	6.07	5.86	--	--	--	--	--	--	--	--	--	--
WP 26	*	10.91	7.0	8.4	5.34	5.71	5.57	5.69	--	--	--	--	--	--	--	--	--	--
WP 27	*	9.13	7.0	6.2	5.21	5.43	5.26	5.30	--	--	--	--	--	--	--	--	--	--
WP 28	*	9.47	5.0	7.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 29		6.37	8.0	6.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 30		6.22	6.0	6.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 31		6.59	6.0	6.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 32		10.05	7.0	7.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 33	*	6.46	8.0	6.4	5.42	--	5.44	5.44	--	--	--	--	--	--	--	--	--	--
WP 34	*	10.88	6.0	7.0	5.21	5.43	5.06	5.02	--	--	--	--	--	--	--	--	--	--
WP 35		9.30	7.0	6.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 36		10.95	7.0	8.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 37		10.28	7.0	7.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP 38	*	7.46	8.0	7.5	5.44	5.39	5.28	5.23	--	--	--	--	--	--	--	--	--	--
WP 39	*	9.62	8.0	7.4	5.28	5.43	5.23	5.27	--	--	--	--	--	--	--	--	--	--
WP 40	*	8.49	8.0	8.5	6.62	6.77	6.57	6.63	--	--	--	--	--	--	--	--	--	--
WP 41	*	8.07	7.5	8.1	6.08	6.36	5.92	6.03	--	--	--	--	--	--	--	--	--	--
GAF 1 S		11.95	10.0	9.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 1 D		11.25	49.5	9.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 2 S		9.76	10.0	7.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 3 S		12.19	10.0	9.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 4 S		7.15	10.0	7.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 5 S		9.51	12.0	7.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 6 S	*	8.95	9.5	7.0	4.79	4.40	4.24	4.26	--	--	--	--	--	--	--	--	--	--
GAF 6 D	*	9.05	28.0	6.7	4.01	4.20	4.11	4.03	--	--	--	--	--	--	--	--	--	--
GAF 7 S		12.70	9.0	9.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 7 D		11.36	45.0	9.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 8 S		8.21	10.0	6.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--

ELEV-10-4

WATER LEVEL ELEVATION DATA

GAF Chemicals Corp., Linden, New Jersey

(Feet above mean sea level)

Location Number		Reference Elevation (ft. msl)	Well Depth (ft)	Ground Surface Elevation (ft. msl)	03/11/91	03/18/91	03/25/91	04/01/91	04/08/91	04/15/91								
GAF 8 D		8.46	54.0	6.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 9 S	*	8.50	12.5	5.7	5.09	5.28	5.07	4.97	--	--	--	--	--	--	--	--	--	--
GAF 9 D	*	8.31	63.0	4.7	2.69	3.45	2.97	2.97	--	--	--	--	--	--	--	--	--	--
GAF 10 S	*	8.74	9.0	6.0	4.46	5.12	4.53	4.62	--	--	--	--	--	--	--	--	--	--
GAF 10 D	*	7.79	61.0	5.9	3.05	3.68	3.35	3.26	--	--	--	--	--	--	--	--	--	--
GAF 11 S		5.50	13.0		--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 11 D		5.30	54.0		--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 12 S	*	9.85	8.0	7.3	4.38	5.82	5.31	5.30	--	--	--	--	--	--	--	--	--	--
GAF 13 S		12.43	10.5	8.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 13 D		10.97	51.0	8.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 14 S		11.84	9.0	9.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 14 D		9.15	46.0	7.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 15 S	*	10.05	8.0	8.0	6.75	7.28	7.01	7.11	--	--	--	--	--	--	--	--	--	--
GAF 15 D	*	9.96	46.0	8.0	3.07	3.29	3.19	3.13	--	--	--	--	--	--	--	--	--	--
GAF 16 S	*	9.75	12.0	7.3	5.96	6.30	6.01	6.07	--	--	--	--	--	--	--	--	--	--
GAF 16 D	*	9.43	51.5	7.5	4.45	4.59	4.47	4.44	--	--	--	--	--	--	--	--	--	--
GAF 17 S		9.47	10.0	6.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 17 D		8.96	52.0	6.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 18 S		13.08	12.0	10.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 19 S		12.57	12.0	9.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 20 S		13.22	10.0	10.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 21 S		10.38	10.0	7.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 22 S		10.28	12.0	7.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 23 S		8.79	5.0	8.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 24 S		12.56	11.5	10.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 25 S		9.63	11.5	7.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 26 S		9.26	11.5	7.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 27 S		10.95	12.5	10.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 28 S	*	9.70	11.5	7.7	5.74	5.68	5.63	5.55	--	--	--	--	--	--	--	--	--	--

WATER LEVEL ELEVATION DATA

GAF Chemicals Corp., Linden, New Jersey

(Feet above mean sea level)

Location Number		Reference Elevation (ft. msl)	Well Depth (ft)	Ground Surface Elevation (ft. msl)	03/11/91	03/18/91	03/25/91	04/01/91	04/08/91	04/15/91									
GAF 29 S		7.31	9.5	7.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAF 30 S		7.84	12.5	7.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WT 1	**	7.92	5.0	6.3	5.10	5.35	5.09	5.15	--	--	--	--	--	--	--	--	--	--	--
WT 2	**	9.15	5.0	7.1	5.16	5.26	5.13	5.17	--	--	--	--	--	--	--	--	--	--	--
WT 3	**	8.25	5.0	6.4	5.07	5.20	5.03	5.08	--	--	--	--	--	--	--	--	--	--	--
WT 4	**	8.14	5.0	6.4	5.37	5.68	5.33	5.38	--	--	--	--	--	--	--	--	--	--	--
WT 5	**	9.07	5.0	7.5	5.95	6.27	6.02	6.02	--	--	--	--	--	--	--	--	--	--	--
WT 6	**	8.76	5.0	7.4	5.13	5.37	4.98	4.93	--	--	--	--	--	--	--	--	--	--	--
WT 7	**	7.82	5.0	6.3	5.25	5.50	5.31	5.31	--	--	--	--	--	--	--	--	--	--	--
TC 1 N	**	9.17	71.0	7.1	3.08	3.35	3.37	3.24	--	--	--	--	--	--	--	--	--	--	--
TC 1 E	**	9.01	58.0	7.1	3.09	3.40	3.28	3.21	--	--	--	--	--	--	--	--	--	--	--
TC 1 S	**	8.75	57.5	7.1	3.12	3.43	3.31	3.23	--	--	--	--	--	--	--	--	--	--	--
TC 1 W	**	8.98	25.5	7.2	-10.72	1.76	1.77	1.70	--	--	--	--	--	--	--	--	--	--	--
TC 3 N	**	7.90	59.0	6.4	2.76	3.20	3.00	2.96	--	--	--	--	--	--	--	--	--	--	--
TC 3 E	**	7.65	59.0	6.2	2.73	3.19	3.05	2.96	--	--	--	--	--	--	--	--	--	--	--
TC 3 S	**	7.46	59.0	6.3	2.72	3.17	2.98	2.94	--	--	--	--	--	--	--	--	--	--	--
TC 3 W	**	8.11	24.5	6.4	3.77	3.90	3.85	3.81	--	--	--	--	--	--	--	--	--	--	--

Printed 04/15/91

Notes:

* indicates well located in or adjacent to 950' x 950' incinerator area.

** indicates well installed by City of Linden MSSS contractor (Killam)

APPENDIX E

SURVEY DATA

BOREHOLE SURVEY DATABASE
GAF CHEMICALS CORPORATION
LINDEN, NEW JERSEY
COMPILED 01/17/91

Location Number		Ground Surface Elevation (units in feet above MSL)	N.J. State Plane Coord. North	East
JB	1	7.8	648835	2124842
JB	2	10.5	648634	2124654
JB	3	9.3	648413	2124027
JB	4	10.3	648534	2124778
JB	5	12.4	648674	2125045
JB	6	7.3	648649	2125361
JB	7	8.3	648676	2125470
JB	8	8.6	648655	2125695
JB	9	8.2	648568	2125960
JB	10	6.8	648795	2126077
JB	11	5.9	648557	2126137
JB	12	5.7	649075	2126428
JB	13	6.5	648795	2126444
JB	14	7.6	648594	2126435
JB	15	8.9	648388	2123925
JB	16	8.7	648313	2123962
JB	17	11.2	648442	2124473
JB	18	9.2	648292	2124352
JB	19	11.5	648073	2124246
JB	20	10.0	648317	2124569
JB	21	8.9	648273	2124829
JB	22	12.4	648437	2124987
JB	23	6.0	648080	2124836
JB	24	8.9	648443	2125357
JB	25	7.0	648050	2125041
JB	26	6.8	647990	2125307
JB	27	7.0	648103	2125469
JB	28	10.9	648225	2125520
JB	29	8.5	648451	2125544
JB	30	8.0	648415	2125700
JB	31	---	648359	2125562
JB	32	10.9	648220	2125615
JB	33	7.0	647968	2125490
JB	34	7.6	648084	2125794
JB	35	9.3	648015	2125917
JB	36	8.6	648347	2125982

BOREHOLE SURVEY DATABASE
GAF CHEMICALS CORPORATION
LINDEN, NEW JERSEY
COMPILED 01/17/91

Location Number		Ground Surface Elevation (units in feet above MSL)	N.J. State Plane Coord. North	East
JB	37	7.3	647997	2126079
JB	38	6.3	648362	2126159
JB	39	7.7	648464	2126470
JB	40	6.1	648343	2126505
JB	41	10.7	647911	2124407
JB	42	12.5	648022	2124641
JB	43	10.2	647812	2124743
JB	44	10.7	647818	2124656
JB	45	9.8	647779	2124736
JB	46	8.7	647697	2124750
JB	47	9.2	647602	2125026
JB	48	11.6	647770	2125029
JB	49	—	647795	2125492
JB	50	—	647714	2125460
JB	51	—	647554	2125382
JB	52	6.2	647749	2125683
JB	53	7.2	647940	2125768
JB	54	—	647845	2125824
JB	55	7.9	647602	2125873
JB	56	10.8	647793	2125931
JB	57	10.7	647795	2126022
JB	58	6.9	647557	2126008
JB	59	6.5	647987	2126508
JB	60	7.0	647845	2126477
JB	61	9.7	647797	2126330
JB	62	6.6	647669	2126286
JB	63	6.2	647590	2126370
JB	64	10.7	647542	2126273
JB	65	—	647453	2125466
JB	66	7.3	647362	2125241
JB	67	7.3	647320	2125373
JB	68	8.5	647221	2125496
JB	69	6.9	647444	2125651
JB	70	6.9	647395	2125734
JB	71	6.1	647317	2126321
JB	72	5.5	647289	2126423

BOREHOLE SURVEY DATABASE
GAF CHEMICALS CORPORATION
LINDEN, NEW JERSEY
COMPILED 01/17/91

Location Number		Ground Surface Elevation (units in feet above MSL)	N.J. State Plane Coord. North	East
JB	73	7.8	647018	2126985
JB	74	7.2	647111	2127387
JB	75	9.0	647104	2127559
JB	76	10.1	647180	2127648
JB	77	9.4	648683	2124047
JB	78	6.6	649047	2126319
JB	79	6.5	648874	2126590
JB	80	—	648544	2126534
JB	81	6.8	649047	2126311
JB	82	6.5	649062	2126312
JB	83	6.9	649046	2126302
JB	84	6.7	649032	2126312
JS	1	—	648768	2124006
JS	2	—	647266	2126530
JS	3	—	648715	2125224
JS	4	—	648783	2125888
JS	5	—	648766	2125967
JS	6	—	648738	2125907
JS	7	—	647238	2126543
JS	8	—	648649	2126016
JS	9	—	648646	2126107
JS	10	—	648635	2126194
JS	11	—	648704	2126393
JS	12	—	647353	2127126
JS	13	—	648568	2126649
JS	14	—	648484	2123695
JS	15	—	648268	2124897
JS	16	—	648436	2125288
JS	17	—	648312	2125300
JS	18	—	648271	2125329
JS	19	—	648057	2125418
JS	20	—	648517	2125670
JS	21	—	648478	2125896
JS	22	—	648397	2125888
JS	23	—	648301	2125851

BOREHOLE SURVEY DATABASE
GAF CHEMICALS CORPORATION
LINDEN, NEW JERSEY
COMPILED 01/17/91

Location Number		Ground Surface Elevation (units in feet above MSL)	N.J. State Plane Coord. North	East
JS	25	—	648087	2125740
JS	26	—	648088	2125643
JS	27	—	648452	2126273
JS	28	—	648489	2126388
JS	29	—	648082	2126102
JS	30	—	648035	2126278
JS	31	—	648492	2126654
JS	32	—	648342	2126679
JS	33	—	648271	2126620
JS	34	—	647392	2127272
JS	35	—	647954	2125940
JS	36	—	647867	2125960
JS	37	—	647674	2125689
JS	38	—	647473	2127451
JS	39	—	647556	2125683
JS	40	—	647972	2126304
JS	41	—	647968	2126414
JS	42	—	647849	2126264
JS	43	—	647778	2126195
JS	44	—	647726	2126413
JS	45	—	647641	2126177
JS	46	—	647541	2126149
JS	47	—	647552	2126365
JS	48	—	647909	2126622
JS	49	—	647719	2126577
JS	50	—	647488	2127752
JS	51	—	647398	2125598
JS	52	—	647490	2125754
JS	53	—	647489	2126001
JS	54	—	647368	2125857
JS	55	—	647357	2126020
JS	56	—	647358	2126070
JS	57	—	647456	2126282
JS	58	—	647430	2126377
JS	59	—	647489	2126463
JS	60	—	647166	2126006

BOREHOLE SURVEY DATABASE
GAF CHEMICALS CORPORATION
LINDEN, NEW JERSEY
COMPILED 01/17/91

Location Number		Ground Surface Elevation (units in feet above MSL)	N.J. State Plane Coord. North	N.J. State Plane Coord. East
JS	61	—	647492	2126514
JS	62	—	647460	2126565
RB	1	6.3	649025	2125416
RB	2	6.3	649072	2125560
RB	3	7.9	647301	2124753
RB	4	6.4	649138	2126343
RB	5	5.8	649086	2126464
RB	6	8.4	648532	2123733
RB	7	9.0	647379	2124780
RB	8	8.0	647109	2126650
RB	9	7.9	648526	2125716
RB	10	7.4	647330	2126541
RB	11	11.2	648200	2123477
RB	12	9.5	648121	2123576
RB	13	10.6	647980	2123970
RB	14	9.2	647672	2124536
RB	15	10.7	647807	2124092
RB	16	5.7	647962	2126612
RB	17	6.4	647870	2126557
RS	1	—	649021	2125667
RS	2	—	649121	2126056
RS	3	—	648574	2125366
RS	4	—	648090	2123978
RS	5	—	648376	2124502
RS	6	—	648377	2124364
RS	7	—	647862	2124148
RS	8	—	647990	2124004
RS	9	—	647215	2124987
RS	10	—	647280	2125257
RS	11	—	648777	2124271
RS	12	—	648817	2124759
RS	13	—	648403	2124570
TCDD 1		—	648690	2125374

BOREHOLE SURVEY DATABASE
GAF CHEMICALS CORPORATION
LINDEN, NEW JERSEY
COMPILED 01/17/91

Location Number	Ground Surface Elevation (units in feet above MSL)	N.J. State Plane Coord. North	East
TCDD 2	—	648507	2125417
TCDD 3	—	648561	2125970
TCDD 4	—	648058	2126154
TCDD 5	—	648109	2125839
1(69)	—	648020 *	2124120
2(69)	—	648670 *	2125260
3(69)	—	648090 *	2125200
4(69)	—	647720 *	2125350
5(69)	—	648160 *	2125770
6(69)	—	647910 *	2125320
7(69)	—	648860 *	2126310
8(69)	—	648520 *	2126270
9(69)	—	648110 *	2126250
10(69)	—	647950 *	2126030
11(69)	—	647780 *	2126200
12(69)	—	647440 *	2126170
13(69)	—	647610 *	2126660
14(69)	—	647130 *	2126920
15(69)	—	647560 *	2127200
16(69)	—	647240 *	2127410
17(69)	—	647300 *	2127630
18(69)	—	647400 *	2127720
19(69)	—	647260 *	2127710
20(69)	—	647220 *	2127700
21(69)	—	647260 *	2127640
22(69)	—	647310 *	2127780
23(69)	—	647340 *	2127940
24(69)	—	647340 *	2127990
25(69)	—	647180 *	2127920
26(69)	—	647170 *	2127980
27(69)	—	647030 *	2127910
28(69)	—	647030 *	2127960
29(69)	—	648550 *	2125670
30(69)	—	647730 *	2125800
31(69)	—	647960 *	2124770

BOREHOLE SURVEY DATABASE
GAF CHEMICALS CORPORATION
LINDEN, NEW JERSEY
COMPILED 01/17/91

Location Number	Ground Surface Elevation (units in feet above MSL)	N.J. State Plane Coord. North		N.J. State Plane Coord. East
1(54)	—	648670	*	2125140
2(54)	—	648680	*	2125040
3(54)	—	648690	*	2124940
4(54)	—	648590	*	2124930
5(54)	—	648580	*	2125030
6(54)	—	648570	*	2125130
7(54)	—	648470	*	2125120
8(54)	—	648480	*	2125020
9(54)	—	648490	*	2124920
10(54)	—	648390	*	2124910
11(54)	—	648380	*	2125010
12(54)	—	648370	*	2125110

* Coordinate Location Estimated

WELL SURVEY DATABASE
GAF CHEMICALS CORPORATION
LINDEN, NEW JERSEY
COMPILED 01/17/91

Location Number	Steel Elevation	PVC Elevation	Ground Surface Elevation	Permit Number	N.J. State Plane Coord. North	N.J. State Plane Coord. East
	(units in feet above MSL)					
SG 1	—	7.06	NA		648,182.94	2,124,264.32
SG 2	10.46	—	NA		649,137.93	2,124,384.42
SG 3	9.76	—	NA		648,229.44	2,124,670.82
SG 4	9.68	—	NA		648,197.06	2,124,668.10
SG 5	—	6.37	NA		647,917.94	2,125,142.94
SG 6	—	6.33	NA		648,125.67	2,125,248.86
SG 7	—	7.54	NA		647,309.67	2,125,598.55
SG 8	—	7.06	NA		647,296.07	2,125,654.09
SG 9	7.39	—	NA		647,670.79	2,126,159.74
SG 10	7.47	—	NA		647,255.26	2,126,062.88
SG 11	9.48	—	NA		647,480.93	2,127,958.43
SG 12	5.92	—	NA		647,559.95	2,127,591.18
SG 13	6.04	—	NA		647,600.82	2,127,226.75
ST A	11.45	—	9.8		647,785.54	2,124,736.39
ST B	11.79	—	10.5		647808	2124697
ST C	11.92	—	10.4		647822	2124646
ST D	13.63	—	11.4		647849	2124695
WP 1	—	10.79	8.7		647959	2124057
WP 2	—	13.55	11.4		648133	2124237
WP 3	—	13.02	11.6		648429	2124486
WP 4	—	9.14	7.4		648849	2124310
WP 5	—	9.41	7.1		648906	2124933
WP 6	—	14.23	12.4		647933	2124795
WP 7	—	10.64	8.4		647461	2124937
WP 8	—	8.67	6.8		648142	2124919
WP 9	6.96	6.50	6.9		648080	2125636
WP 10	—	8.69	6.7		647738	2125678
WP 11	—	10.41	8.4		647216	2125499
WP 12	—	9.85	8.0		647207	2126053
WP 13	—	9.35	7.2		647599	2125953
WP 14	—	7.74	6.0		647858	2126007
WP 15	—	9.45	7.4		647787	2126465
WP 16	—	7.98	6.0		647516	2126359
WP 17 S	—	8.58	6.7		648155 *	2126574

WELL SURVEY DATABASE
GAF CHEMICALS CORPORATION
LINDEN, NEW JERSEY
COMPILED 01/17/91

Location Number	Steel Elevation	PVC Elevation	Ground Surface Elevation	Permit Number	N.J. State Plane Coord. North	N.J. State Plane Coord. East
	(units in feet above MSL)					
WP 17 D	—	8.85	6.9		648141 *	2126572
WP 18 S	—	8.69	7.1		647905 *	2125771
WP 18 D	—	9.12	7.3		647905 *	2125788
WP 19 S	—	9.29	—		647564 *	2125154
WP 19 D	—	9.63	—		647539 *	2125152
WP 20 S	—	9.83	—		648269 *	2125078
WP 20 D	—	9.76	—		648289 *	2125078
WP 21	—	8.08	7.8		648014	2126115
WP 22	—	9.40	6.5		648043	2126352
WP 23	—	8.77	6.8		647935	2126458
WP 24	6.61	5.93	6.5		647731	2126132
WP 25	7.49	7.33	7.4		647602	2125805
WP 26	—	10.91	8.4		647377	2125929
WP 27	—	9.13	6.2		647381	2126427
WP 28	—	9.47	7.6		648205	2125813
WP 29	—	6.37	6.3		649103	2126058
WP 30	—	6.22	6.2		648801	2126261
WP 31	—	6.59	6.6		648848	2126552
WP 32	—	10.05	7.2		648708	2125977
WP 33	6.46	6.02	6.4		648402	2126160
WP 34	—	10.88	7.0		648343	2126405
WP 35	—	9.30	6.3		649023	2125500
WP 36	—	10.95	8.2		648719	2125784
WP 37	—	10.28	7.5		648334	2125425
WP 38	7.46	7.07	7.5		647628	2126115
WP 39	9.62	8.98	7.4		647451	2126166
WP 40	8.49	8.20	8.5		647444	2126036
WP 41	8.07	7.74	8.1		647452	2126101
GAF 1 S	11.95	—	9.0		648188	2123686
GAF 1 D	11.25	—	9.1		648186	2123695
GAF 2 S	9.76	—	7.3		648958	2124582
GAF 3 S	12.19	—	9.0		648283	2124831
GAF 4 S	7.15	—	7.1		647723	2125128
GAF 5 S	9.51	—	7.6		647435	2125112
GAF 6 S	8.95	8.62	7.0		647466	2125660

WELL SURVEY DATABASE
GAF CHEMICALS CORPORATION
LINDEN, NEW JERSEY
COMPILED 01/17/91

Location Number	Steel Elevation	PVC Elevation	Ground Surface Elevation	Permit Number	N.J. State Plane Coord. North	N.J. State Plane Coord. East
	(units in feet above MSL)					
GAF 6 D	9.05	8.88	6.7		647452	2125653
GAF 7 S	12.70	—	9.7		647656	2124559
GAF 7 D	11.36	—	9.5		647651	2124566
GAF 8 S	8.21	—	6.1		649024	2126489
GAF 8 D	8.46	—	6.2		649021	2126494
GAF 9 S	8.50	8.47	5.7		647978	2126615
GAF 9 D	8.31	8.29	5.6		647967	2126614
GAF 10 S	8.74	8.73	6.0		647262	2126538
GAF 10 D	7.79	7.74	5.9		647275	2126537
GAF 11 S	5.50	—	—		647236	2127418
GAF 11 D	5.30	—	—		647245	2127418
GAF 12 S	9.85	9.47	7.3		648447	2126329
GAF 13 S	12.43	—	8.9		648628	2123945
GAF 13 D	10.97	—	8.6		648627	2123959
GAF 14 S	11.84	—	9.0		648576	2124892
GAF 14 D	9.15	—	7.0		648919	2124933
GAF 15 S	10.05	9.80	8.0		647483	2125898
GAF 15 D	9.96	9.63	8.0		647491	2125899
GAF 16 S	9.75	9.53	7.4		648402	2125758
GAF 16 D	9.43	9.45	7.5		648411	2125756
GAF 17 S	9.47	—	6.8		649088	2125725
GAF 17 D	8.96	—	6.8		649083	2125730
GAF 18 S	13.08	—	10.4		647819	2124744
GAF 19 S	12.57	—	9.8		647781	2124730
GAF 20 S	13.22	—	10.3		647815	2124648
GAF 21 S	10.38	—	7.9		647551	2125541
GAF 22 S	10.28	—	7.3		647366	2125244
GAF 23 S	8.79	8.51	8.7		648448	2125363
GAF 24 S	12.56	12.26	10.5		647908	2124414
GAF 25 S	9.63	9.55	7.6		648650	2125368
GAF 26 S	9.26	8.79	7.2		648001	2125309
GAF 27 S	10.95	10.41	10.9		648221	2125618
GAF 28 S	9.70	9.41	7.8		647562	2125992
GAF 29 S	7.31	6.79	7.3		648622	2126412
GAF 30 S	7.84	7.33	7.8		647581	2127291

WELL SURVEY DATABASE
GAF CHEMICALS CORPORATION
LINDEN, NEW JERSEY
COMPILED 01/17/91

Location Number	Steel Elevation	PVC Elevation	Ground Surface Elevation	Permit Number	N.J. State Plane Coord. North	N.J. State Plane Coord. East
	(units in feet above MSL)					
WT 1	—	7.92	6.3		648233	2126050
WT 2	—	9.15	7.1		648156	2125929
WT 3	—	8.25	6.4		648114	2126030
WT 4	—	8.14	6.4		647959	2126046
WT 5	—	9.07	7.5		648068	2125797
WT 6	—	8.76	7.4		647839	2126401
WT 7	—	7.82	6.3		647444	2126278
TC 1 N	9.75	9.17	7.1		647862	2126471
TC 1 E	9.47	9.01	7.1		647852	2126482
TC 1 S	9.25	8.75	7.1		647833	2126474
TC 1 W	9.33	8.98	7.2		647850	2126462
TC 3 N	8.61	7.90	6.4		647440	2126343
TC 3 E	8.36	7.65	6.2		647427	2126348
TC 3 S	8.25	7.46	6.3		647419	2126337
TC 3 W	8.53	8.11	6.4		647433	2126330

* Coordinate Location Estimated

APPENDIX F

VARIABLE HEAD HYDRAULIC CONDUCTIVITY DATA

APPENDIX F-1

RI DATA

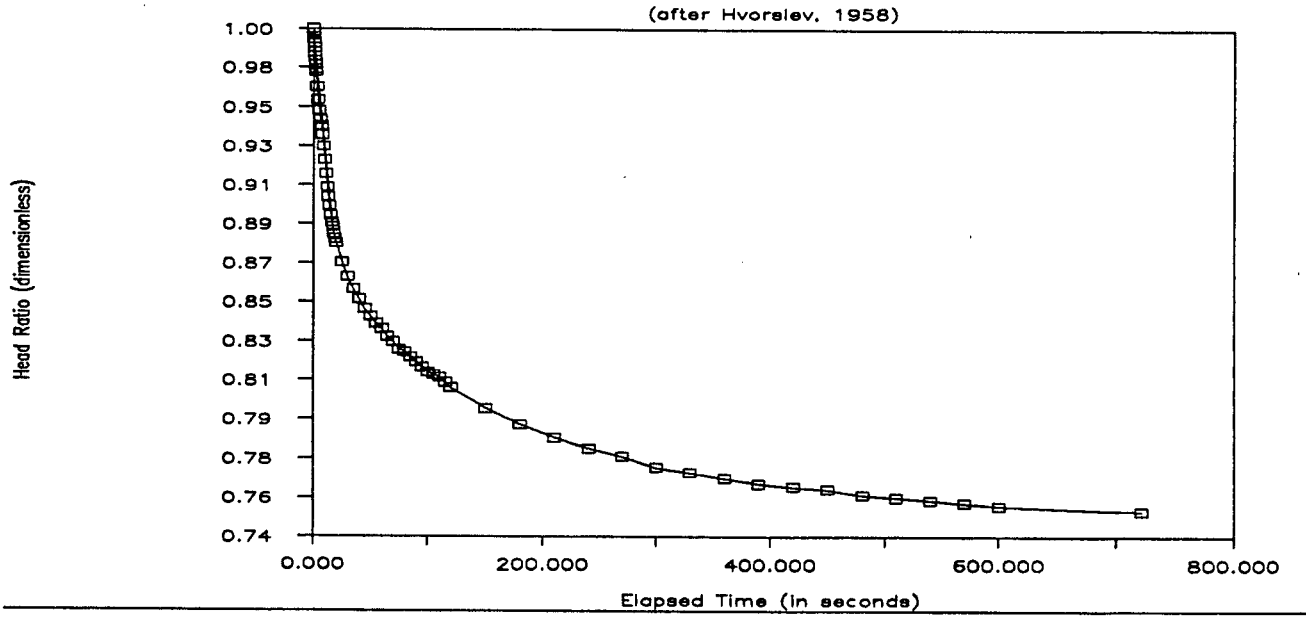
ECKENFELDER INC.

WELL NO: GAF-1S

VARIABLE HEAD HYDRAULIC CONDUCTIVITY TEST

PROJECT NO:	6070	GEOLOGIC UNIT:	FILL
CLIENT:	GAF Chemicals Corp. Linden, NJ	GEOLOGIC CLASSIFICATION:	
TESTED BY:	HBB/DJS		
DATE OF TEST:	18-Oct-90		

GRAPHICAL ANALYSIS
(after Hvorslev, 1958)



METHOD:

$$k = \frac{r2 \ln (L/R)}{2 L (t2 - t1)} \ln (H1 / H2)$$

Where:

K = 2.9E-04 cm/sec

k = hydraulic conductivity (cm/sec)	
r = well radius (cm)	2.5
R = bore radius (cm)	10
L = screen length (cm)	244
H1 = head ratio at t1	0.99
t1 = elapsed time at H1	0.59
H2 = head ratio at t2	0.89
t2 = elapsed time at H2	16.00

SLUG TEST DATA FOR WELL GAF-1S

Elapsed Time (minutes)	Recovery (feet)	Elapsed Time (minutes)	Recovery (feet)
0.000	8.08	1.25	6.69
0.003	8.06	1.33	6.68
0.007	8.03	1.42	6.66
0.010	8.01	1.50	6.64
0.013	7.99	1.58	6.62
0.017	7.97	1.67	6.60
0.020	7.95	1.75	6.59
0.023	7.93	1.83	6.58
0.027	7.91	1.92	6.56
0.030	7.89	2.00	6.54
0.033	7.88	2.50	6.46
0.050	7.81	3.00	6.40
0.067	7.75	3.50	6.35
0.083	7.70	4.00	6.31
0.10	7.66	4.50	6.28
0.12	7.63	5.00	6.24
0.13	7.59	5.50	6.22
0.15	7.54	6.00	6.20
0.17	7.48	6.50	6.18
0.18	7.42	7.00	6.17
0.20	7.36	7.50	6.16
0.22	7.32	8.00	6.14
0.23	7.28	8.50	6.13
0.25	7.24	9.00	6.12
0.27	7.21	9.50	6.11
0.28	7.19	10.00	6.10
0.30	7.16	12.00	6.08
0.32	7.14	14.00	6.06
0.33	7.12	16.00	6.04
0.42	7.04	18.00	6.03
0.50	6.98	20.00	6.02
0.58	6.93	22.00	6.01
0.67	6.89	24.00	6.00
0.75	6.85	26.00	5.99
0.83	6.82	28.00	5.98
0.92	6.79	30.00	5.97
1.00	6.77	32.00	5.97
1.08	6.74	34.00	5.96
1.17	6.72		

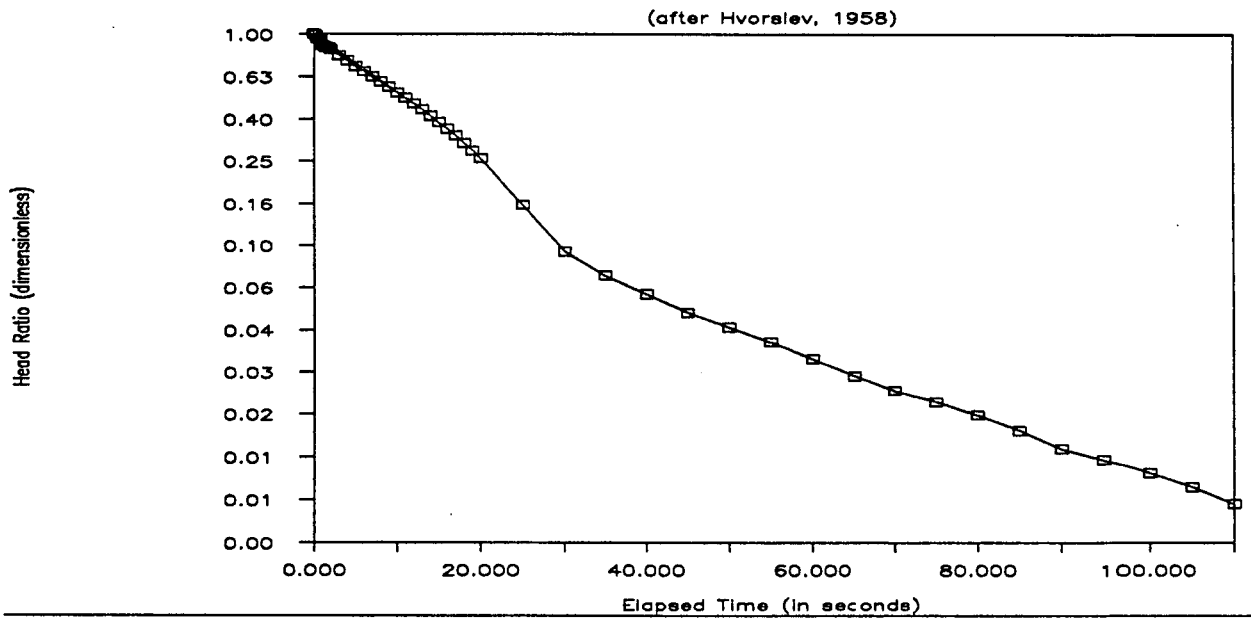
ECKENFELDER INC.

WELL NO: GAF-2S

VARIABLE HEAD HYDRAULIC CONDUCTIVITY TEST

PROJECT NO:	6070	GEOLOGIC UNIT:	FILL
CLIENT:	GAF Chemicals Corp. Linden, NJ	GEOLOGIC CLASSIFICATION:	
TESTED BY:	HBB/DJS		
DATE OF TEST:	17-Oct-90		

GRAPHICAL ANALYSIS
(after Hvorslev, 1958)



METHOD:

$$k = \frac{r2 \ln (L/R)}{2 L (t2 - t1)} \ln (H1 / H2)$$

Where:

K = 2.1E-03 cm/sec

k = hydraulic conductivity (cm/sec)	
r = well radius (cm)	2.5
R = bore radius (cm)	10
L = screen length (cm)	335
H1 = head ratio at t1	1.00
t1 = elapsed time at H1	0.00
H2 = head ratio at t2	0.50
t2 = elapsed time at H2	11.00

SLUG TEST DATA FOR WELL GAF-2S

Elapsed Time (minutes)	Recovery (feet)	Elapsed Time (minutes)	Recovery (feet)
0.000	8.30	0.75	0.40
0.003	8.19	0.83	0.34
0.007	7.90	0.92	0.29
0.010	7.98	1.00	0.24
0.013	7.80	1.08	0.20
0.017	7.41	1.17	0.17
0.020	7.31	1.25	0.15
0.023	7.16	1.33	0.13
0.027	7.24	1.42	0.11
0.030	7.18	1.50	0.09
0.033	7.03	1.58	0.08
0.050	6.61	1.67	0.07
0.067	6.24	1.75	0.06
0.083	5.87	1.83	0.05
0.10	5.56	1.92	0.04
0.12	5.25	2.00	0.04
0.13	4.97	2.50	0.02
0.15	4.69	3.00	0.01
0.17	4.43	3.50	0.00
0.18	4.17	4.00	0.00
0.20	3.92	4.50	0.00
0.22	3.68	5.00	0.00
0.23	3.44	5.50	0.00
0.25	3.21	6.00	0.00
0.27	2.98	6.50	0.00
0.28	2.77	7.00	0.00
0.30	2.55	7.50	0.00
0.32	2.35	8.00	0.00
0.33	2.15	8.50	0.00
0.42	1.30	9.00	0.00
0.50	0.78	9.50	0.00
0.58	0.60	10.00	0.00
0.67	0.49		

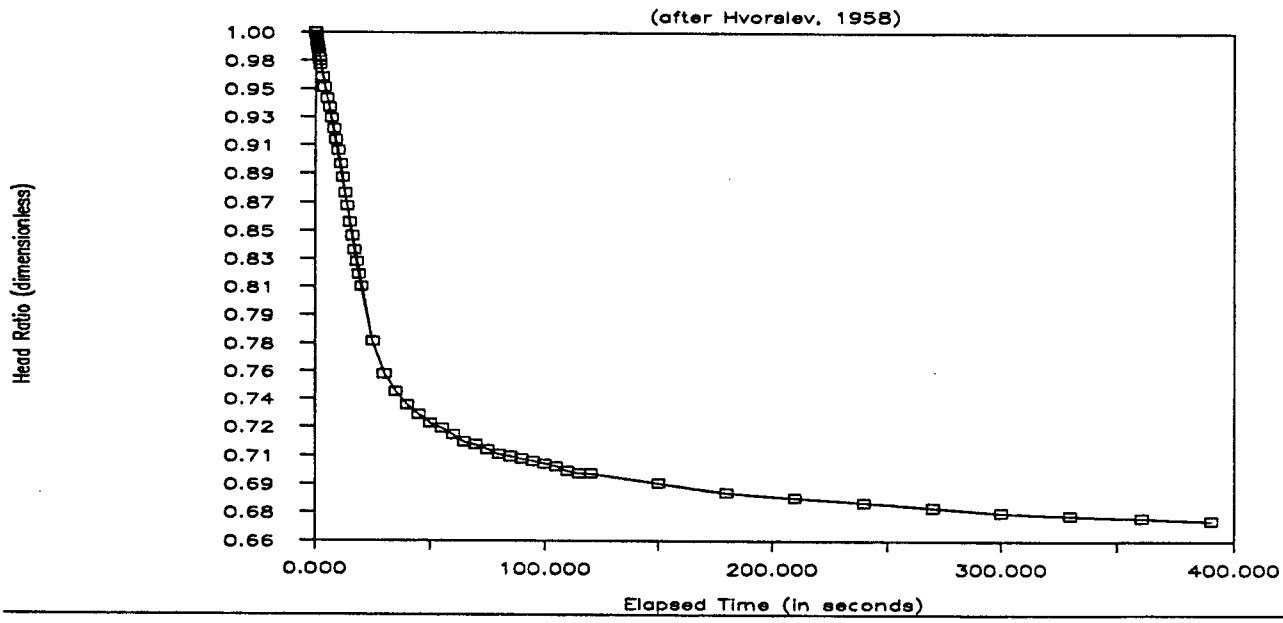
ECKENFELDER INC.

WELL NO: GAF-3S

VARIABLE HEAD HYDRAULIC CONDUCTIVITY TEST

PROJECT NO:	6070	GEOLOGIC UNIT:	FILL
CLIENT:	GAF Chemicals Corp. Linden, NJ	GEOLOGIC CLASSIFICATION:	
TESTED BY:	HBB/DJS		
DATE OF TEST:	17-Oct-90		

GRAPHICAL ANALYSIS
(after Hvorslev, 1958)



METHOD:

$$k = \frac{r2 \ln (L/R)}{2 L (t2 - t1)} \ln (H1 / H2)$$

Where:

K = 4.6E-04 cm/sec

k = hydraulic conductivity (cm/sec)	
r = well radius (cm)	2.5
R = bore radius (cm)	8
L = screen length (cm)	244
H1 = head ratio at t1	0.99
t1 = elapsed time at H1	0.59
H2 = head ratio at t2	0.78
t2 = elapsed time at H2	25.00

SLUG TEST DATA FOR WELL GAF-3S

Elapsed Time (minutes)	Recovery (feet)	Elapsed Time (minutes)	Recovery (feet)
0.000	7.28	0.83	5.29
0.003	7.26	0.92	5.27
0.007	7.24	1.00	5.24
0.010	7.22	1.08	5.21
0.013	7.20	1.17	5.20
0.017	7.18	1.25	5.18
0.020	7.16	1.33	5.16
0.023	7.14	1.42	5.15
0.027	7.13	1.50	5.14
0.030	7.11	1.58	5.13
0.033	7.09	1.67	5.12
0.050	7.02	1.75	5.11
0.067	6.96	1.83	5.09
0.083	6.90	1.92	5.08
0.10	6.85	2.00	5.08
0.12	6.79	2.50	5.04
0.13	6.73	3.00	5.00
0.15	6.67	3.50	4.98
0.17	6.61	4.00	4.96
0.18	6.54	4.50	4.94
0.20	6.47	5.00	4.92
0.22	6.39	5.50	4.91
0.23	6.32	6.00	4.90
0.25	6.24	6.50	4.89
0.27	6.17	7.00	4.88
0.28	6.10	7.50	4.87
0.30	6.04	8.00	4.86
0.32	5.98	8.50	4.85
0.33	5.92	9.00	4.85
0.42	5.66	9.50	4.84
0.50	5.51	10.00	4.83
0.58	5.43	12.00	4.82
0.67	5.37	14.00	4.80
0.75	5.33		

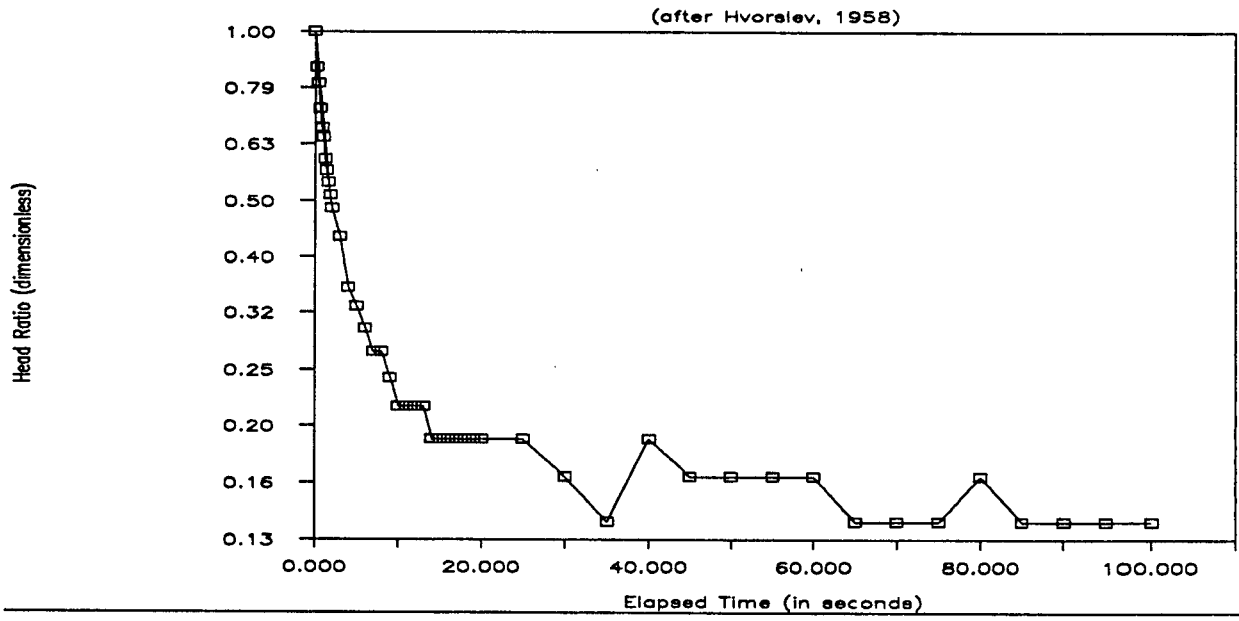
ECKENFELDER INC.

WELL NO: GAF-BS

VARIABLE HEAD HYDRAULIC CONDUCTIVITY TEST

PROJECT NO:	6070	GEOLOGIC UNIT:	FILL
CLIENT:	GAF Chemicals Corp. Linden, NJ	GEOLOGIC CLASSIFICATION:	
TESTED BY:	HBB/DJS		
DATE OF TEST:	18-Oct-90		

GRAPHICAL ANALYSIS
(after Hvorslev, 1958)



METHOD:

$$k = \frac{r2 \ln (L/R)}{2 L (t2 - t1)} \ln (H1 / H2)$$

Where:

K = 1.9E-02 cm/sec

k = hydraulic conductivity (cm/sec)	
r = well radius (cm)	2.5
R = bore radius (cm)	10
L = screen length (cm)	183
H1 = head ratio at t1	1.00
t1 = elapsed time at H1	0.00
H2 = head ratio at t2	0.51
t2 = elapsed time at H2	1.80

SLUG TEST DATA FOR WELL GAF-8S

Elapsed Time (minutes)	Recovery (feet)	Elapsed Time (minutes)	Recovery (feet)
0.000	0.37	0.75	0.06
0.003	0.32	0.83	0.06
0.007	0.30	0.92	0.06
0.010	0.27	1.00	0.06
0.013	0.25	1.08	0.05
0.017	0.24	1.17	0.05
0.020	0.22	1.25	0.05
0.023	0.21	1.33	0.06
0.027	0.20	1.42	0.05
0.030	0.19	1.50	0.05
0.033	0.18	1.58	0.05
0.050	0.16	1.67	0.05
0.067	0.13	1.75	0.05
0.083	0.12	1.83	0.05
0.10	0.11	1.92	0.06
0.12	0.10	2.00	0.06
0.13	0.10	2.50	0.05
0.15	0.09	3.00	0.05
0.17	0.08	3.50	0.05
0.18	0.08	4.00	0.05
0.20	0.08	4.50	0.05
0.22	0.08	5.00	0.06
0.23	0.07	5.50	0.05
0.25	0.07	6.00	0.05
0.27	0.07	6.50	0.05
0.28	0.07	7.00	0.05
0.30	0.07	7.50	0.05
0.32	0.07	8.00	0.05
0.33	0.07	8.50	0.05
0.42	0.07	9.00	0.05
0.50	0.06	9.50	0.05
0.58	0.05	10.00	0.05
0.67	0.07	12.00	0.05

SLUG TEST DATA FOR WELL GAF-8S

Elapsed Time (minutes)	Recovery (feet)	Elapsed Time (minutes)	Recovery (feet)
0.000	0.37	0.75	0.06
0.003	0.32	0.83	0.06
0.007	0.30	0.92	0.06
0.010	0.27	1.00	0.06
0.013	0.25	1.08	0.05
0.017	0.24	1.17	0.05
0.020	0.22	1.25	0.05
0.023	0.21	1.33	0.06
0.027	0.20	1.42	0.05
0.030	0.19	1.50	0.05
0.033	0.18	1.58	0.05
0.050	0.16	1.67	0.05
0.067	0.13	1.75	0.05
0.083	0.12	1.83	0.05
0.10	0.11	1.92	0.06
0.12	0.10	2.00	0.06
0.13	0.10	2.50	0.05
0.15	0.09	3.00	0.05
0.17	0.08	3.50	0.05
0.18	0.08	4.00	0.05
0.20	0.08	4.50	0.05
0.22	0.08	5.00	0.06
0.23	0.07	5.50	0.05
0.25	0.07	6.00	0.05
0.27	0.07	6.50	0.05
0.28	0.07	7.00	0.05
0.30	0.07	7.50	0.05
0.32	0.07	8.00	0.05
0.33	0.07	8.50	0.05
0.42	0.07	9.00	0.05
0.50	0.06	9.50	0.05
0.58	0.05	10.00	0.05
0.67	0.07	12.00	0.05

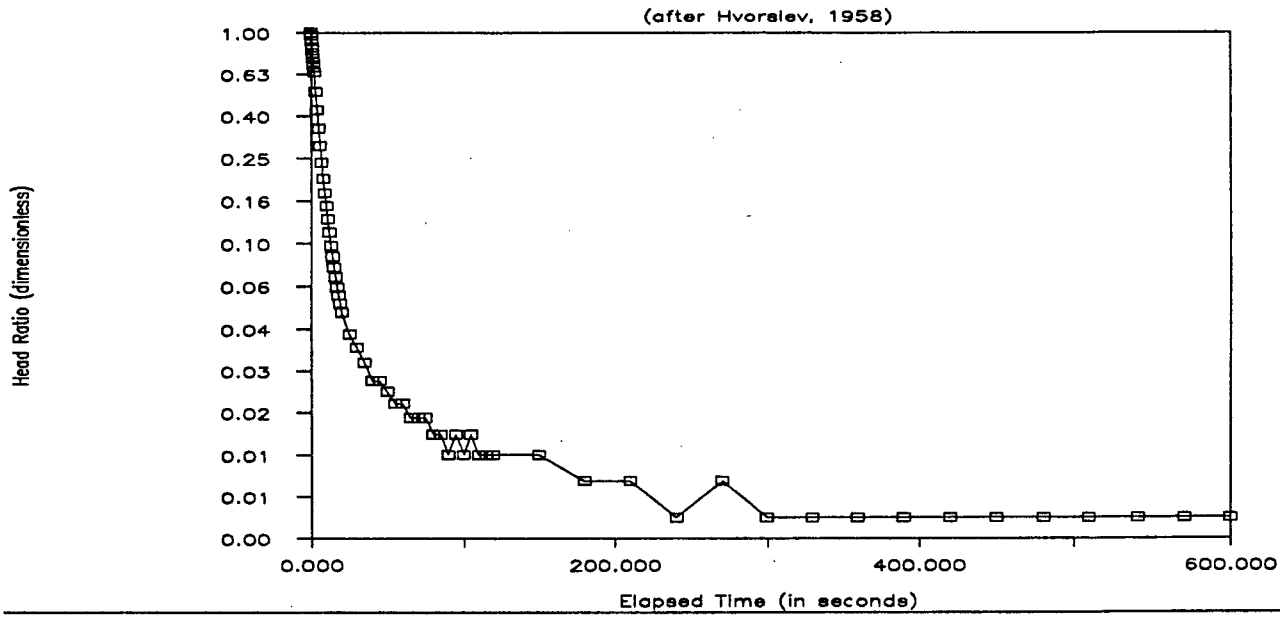
ECKENFELDER INC.

WELL NO: GAF-11S

VARIABLE HEAD
HYDRAULIC CONDUCTIVITY TEST

PROJECT NO:	6070	GEOLOGIC UNIT:	Fill
CLIENT:	GAF Chemicals Corp. Linden, NJ	GEOLOGIC CLASSIFICATION:	
TESTED BY:	HBB/DJS		
DATE OF TEST:	17-Oct-90		

GRAPHICAL ANALYSIS
(after Hvorslev, 1958)



METHOD:

$$k = \frac{r2 \ln (L/R)}{2 L (t2 - t1)} \ln (H1 / H2)$$

Where:

K = 7.8E-03 cm/sec

k = hydraulic conductivity (cm/sec)	
r = well radius (cm)	2.5
R = bore radius (cm)	10
L = screen length (cm)	335
H1 = head ratio at t1	1.00
t1 = elapsed time at H1	0.00
H2 = head ratio at t2	0.52
t2 = elapsed time at H2	2.80

SLUG TEST DATA FOR WELL GAF-11S

Elapsed Time (minutes)	Recovery (feet)	Elapsed Time (minutes)	Recovery (feet)
0.000	3.99	1.08	0.06
0.003	3.99	1.17	0.06
0.007	3.88	1.25	0.06
0.010	3.66	1.33	0.05
0.013	3.41	1.42	0.05
0.017	3.19	1.50	0.04
0.020	3.08	1.58	0.05
0.023	3.00	1.67	0.04
0.027	2.88	1.75	0.05
0.030	2.72	1.83	0.04
0.033	2.58	1.92	0.04
0.050	2.08	2.00	0.04
0.067	1.70	2.50	0.04
0.083	1.39	3.00	0.03
0.10	1.15	3.50	0.03
0.12	0.96	4.00	0.02
0.13	0.81	4.50	0.03
0.15	0.69	5.00	0.02
0.17	0.60	5.50	0.02
0.18	0.52	6.00	0.02
0.20	0.45	6.50	0.02
0.22	0.39	7.00	0.02
0.23	0.35	7.50	0.02
0.25	0.31	8.00	0.02
0.27	0.28	8.50	0.02
0.28	0.25	9.00	0.02
0.30	0.23	9.50	0.02
0.32	0.21	10.00	0.02
0.33	0.19	12.00	0.01
0.42	0.15	14.00	0.01
0.50	0.13	16.00	0.01
0.58	0.11	18.00	0.01
0.67	0.09	20.00	0.01
0.75	0.09	22.00	0.00
0.83	0.08	24.00	0.00
0.92	0.07	26.00	0.00
1.00	0.07		

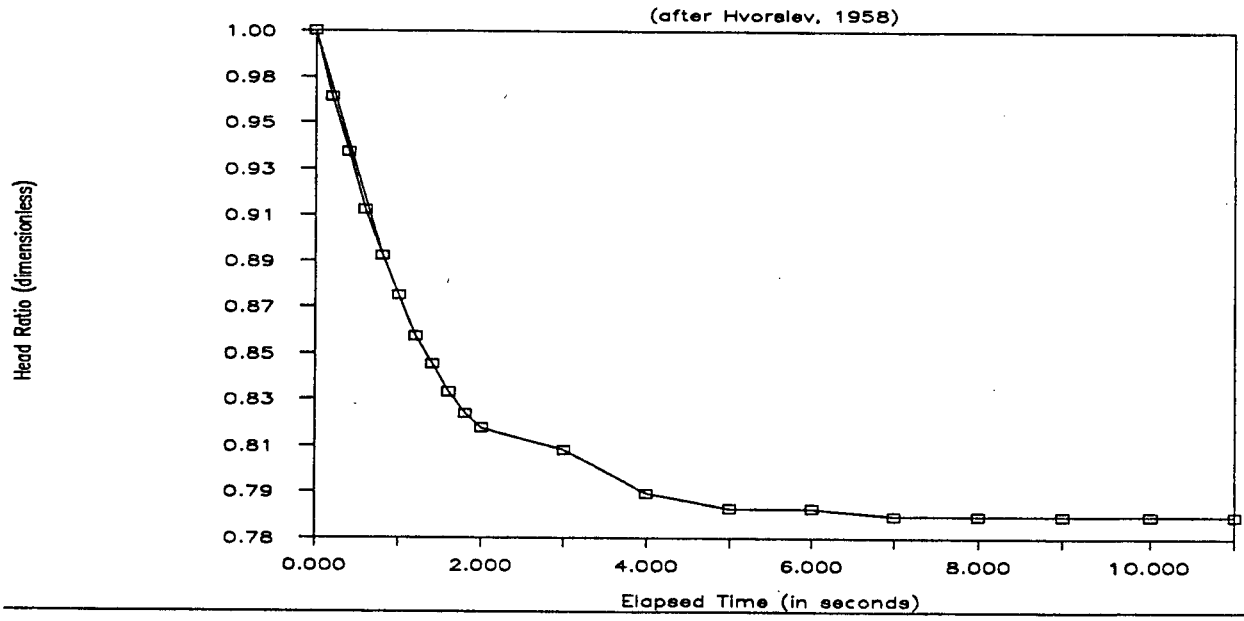
ECKENFELDER INC.

WELL NO: GAF-12S

VARIABLE HEAD
HYDRAULIC CONDUCTIVITY TEST

PROJECT NO:	6070	GEOLOGIC UNIT:	FILL
CLIENT:	GAF Chemicals Corp. Linden, NJ	GEOLOGIC CLASSIFICATION:	
TESTED BY:	HBB/DJS		
DATE OF TEST:	17-Oct-90		

GRAPHICAL ANALYSIS
(after Hvorslev, 1958)



METHOD:

$$k = \frac{r2 \ln (L/R)}{2 L (t2 - t1)} \ln (H1 / H2)$$

Where:

K = 5.9E-03 cm/sec

k = hydraulic conductivity (cm/sec)	
r = well radius (cm)	2.5
R = bore radius (cm)	10
L = screen length (cm)	244
H1 = head ratio at t1	1.00
t1 = elapsed time at H1	0.00
H2 = head ratio at t2	0.89
t2 = elapsed time at H2	0.80

SLUG TEST DATA FOR WELL GAF-12S

Elapsed Time (minutes)	Recovery (feet)	Elapsed Time (minutes)	Recovery (feet)
0.000	5.11	0.75	2.66
0.003	5.11	0.83	2.66
0.007	5.11	0.92	2.66
0.010	5.11	1.00	2.66
0.013	5.11	1.08	2.66
0.017	5.11	1.17	2.66
0.020	5.11	1.25	2.66
0.023	5.11	1.33	2.66
0.027	5.11	1.42	2.65
0.030	5.11	1.50	2.65
0.033	4.89	1.58	2.66
0.050	4.48	1.67	2.65
0.067	4.24	1.75	2.65
0.083	4.02	1.83	2.65
0.10	3.83	1.92	2.65
0.12	3.67	2.00	2.65
0.13	3.52	2.50	2.65
0.15	3.39	3.00	2.66
0.17	3.28	3.50	2.65
0.18	3.19	4.00	2.66
0.20	3.10	4.50	2.65
0.22	3.03	5.00	2.65
0.23	2.97	5.50	2.65
0.25	2.91	6.00	2.65
0.27	2.87	6.50	2.65
0.28	2.83	7.00	2.65
0.30	2.80	7.50	2.65
0.32	2.78	8.00	2.65
0.33	2.75	8.50	2.65
0.42	2.69	9.00	2.65
0.50	2.67	9.50	2.65
0.58	2.67	10.00	2.65
0.67	2.66	12.00	2.65

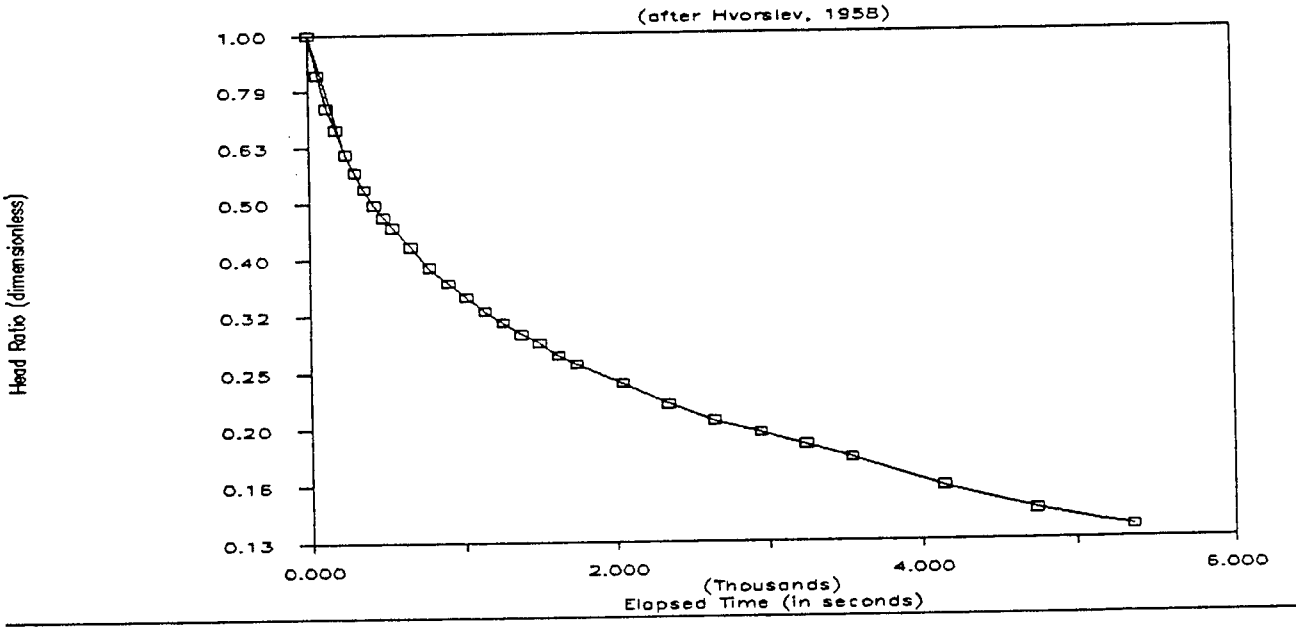
ECKENFELDER INC.

WELL NO: GAF-15S

VARIABLE HEAD
HYDRAULIC CONDUCTIVITY TEST

PROJECT NO:	6070	GEOLOGIC UNIT:	Fill
CLIENT:	GAF Chemicals Corp. Linden, NJ	GEOLOGIC CLASSIFICATION:	
TESTED BY:	HBB		
DATE OF TEST:	16-Apr-90		

GRAPHICAL ANALYSIS
(after Hvorslev, 1958)



METHOD:

$$k = \frac{r2 \ln (L/R)}{2 L (t2 - t1)} \ln (H1 / H2)$$

Where:

K = 3.7E-04 cm/sec

k = hydraulic conductivity (cm/sec)	
r = well radius (cm)	5.1
R = bore radius (cm)	10
L = screen length (cm)	213
H1 = head ratio at t1	1.00
t1 = elapsed time at H1	0.00
H2 = head ratio at t2	0.61
t2 = elapsed time at H2	240.00

SLUG TEST DATA FOR WELL GAF-15S

Elapsed Time (minutes)	Recovery (feet)	Elapsed Time (minutes)	Recovery (feet)
1.00	4.72	22.00	3.30
2.00	4.41	24.00	3.27
3.00	4.19	26.00	3.25
4.00	4.06	28.00	3.22
5.00	3.93	30.00	3.20
6.00	3.84	35.00	3.16
7.00	3.76	40.00	3.12
8.00	3.69	45.00	3.09
9.00	3.64	50.00	3.07
10.00	3.60	55.00	3.05
12.00	3.53	60.00	3.03
14.00	3.46	70.00	2.99
16.00	3.41	80.00	2.96
18.00	3.37	90.00	2.94
20.00	3.33		

Static Water Level: 2.67 feet below top of PVC casing

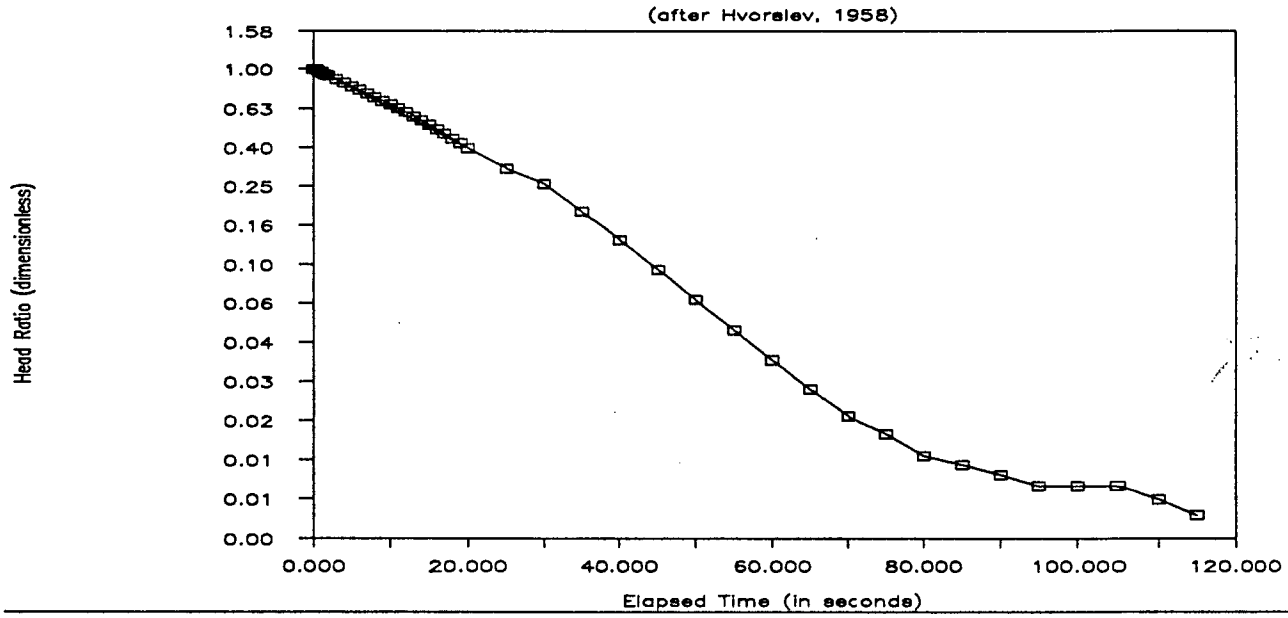
ECKENFELDER INC.

WELL NO: GAF-16S

VARIABLE HEAD HYDRAULIC CONDUCTIVITY TEST

PROJECT NO:	6070	GEOLOGIC UNIT:	FILL
CLIENT:	GAF Chemicals Corp. Linden, NJ	GEOLOGIC CLASSIFICATION:	
TESTED BY:	HBB/DJS		
DATE OF TEST:	17-Oct-90		

GRAPHICAL ANALYSIS
(after Hvorslev, 1958)



METHOD:

$$k = \frac{r2 \ln (L/R)}{2 L (t2 - t1)} \ln (H1 / H2)$$

Where:

K = 1.8E-03 cm/sec

k = hydraulic conductivity (cm/sec)	
r = well radius (cm)	2.5
R = bore radius (cm)	10
L = screen length (cm)	274
H1 = head ratio at t1	1.00
t1 = elapsed time at H1	0.40
H2 = head ratio at t2	0.40
t2 = elapsed time at H2	20.00

SLUG TEST DATA FOR WELL GAF-16S

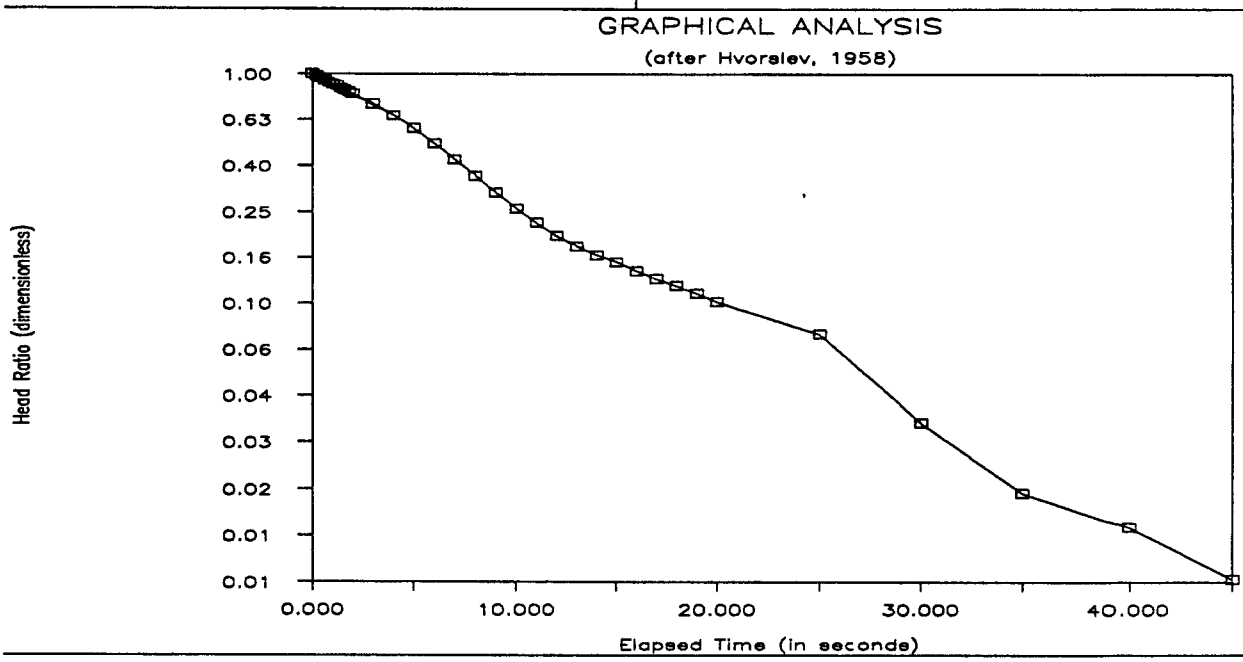
Elapsed Time (minutes)	Recovery (feet)	Elapsed Time (minutes)	Recovery (feet)
0.000	9.60	0.75	0.90
0.003	9.60	0.83	0.63
0.007	9.60	0.92	0.44
0.010	9.48	1.00	0.31
0.013	9.39	1.08	0.22
0.017	9.31	1.17	0.16
0.020	9.22	1.25	0.13
0.023	9.07	1.33	0.10
0.027	9.02	1.42	0.09
0.030	8.95	1.50	0.08
0.033	8.89	1.58	0.07
0.050	8.55	1.67	0.07
0.067	8.19	1.75	0.07
0.083	7.85	1.83	0.06
0.10	7.54	1.92	0.05
0.12	7.22	2.00	0.04
0.13	6.92	2.50	0.02
0.15	6.62	3.00	0.00
0.17	6.35	3.50	0.00
0.18	6.07	4.00	0.00
0.20	5.79	4.50	0.00
0.22	5.52	5.00	0.00
0.23	5.26	5.50	0.00
0.25	5.00	6.00	0.00
0.27	4.75	6.50	0.00
0.28	4.50	7.00	0.00
0.30	4.25	7.50	0.00
0.32	4.01	8.00	0.00
0.33	3.79	8.50	0.00
0.42	2.98	9.00	0.00
0.50	2.48	9.50	0.00
0.58	1.79	10.00	0.00
0.67	1.28	12.00	0.00

ECKENFELDER INC.

WELL NO: GAF-17S

VARIABLE HEAD
HYDRAULIC CONDUCTIVITY TEST

PROJECT NO:	6070	GEOLOGIC UNIT:	FILL
CLIENT:	GAF Chemicals Corp. Linden, NJ	GEOLOGIC CLASSIFICATION:	
TESTED BY:	HBB/DJS		
DATE OF TEST:	18-Oct-90		



METHOD:

$$k = \frac{r2 \ln (L/R)}{2 L (t2 - t1)} \ln (H1 / H2)$$

Where:

K = 4.4E-03 cm/sec

k = hydraulic conductivity (cm/sec)	
r = well radius (cm)	2.5
R = bore radius (cm)	10
L = screen length (cm)	244
H1 = head ratio at t1	1.00
t1 = elapsed time at H1	0.00
H2 = head ratio at t2	0.66
t2 = elapsed time at H2	4.00

SLUG TEST DATA FOR WELL GAF-17S

Elapsed Time (minutes)	Recovery (feet)	Elapsed Time (minutes)	Recovery (feet)
0.000	4.62	0.75	0.03
0.003	4.53	0.83	0.03
0.007	4.44	0.92	0.02
0.010	4.35	1.00	0.02
0.013	4.26	1.08	0.02
0.017	4.18	1.17	0.01
0.020	4.11	1.25	0.02
0.023	4.02	1.33	0.01
0.027	3.94	1.42	0.01
0.030	3.87	1.50	0.01
0.033	3.79	1.58	0.01
0.050	3.42	1.67	0.01
0.067	3.04	1.75	0.01
0.083	2.67	1.83	0.01
0.10	2.30	1.92	0.01
0.12	1.96	2.00	0.00
0.13	1.66	2.50	0.00
0.15	1.41	3.00	0.00
0.17	1.20	3.50	0.00
0.18	1.04	4.00	0.00
0.20	0.91	4.50	0.00
0.22	0.82	5.00	0.00
0.23	0.75	5.50	0.00
0.25	0.70	6.00	0.00
0.27	0.64	6.50	0.00
0.28	0.59	7.00	0.00
0.30	0.55	7.50	0.00
0.32	0.51	8.00	0.00
0.33	0.47	8.50	0.00
0.42	0.34	9.00	0.00
0.50	0.14	9.50	0.00
0.58	0.07	10.00	0.00
0.67	0.05		

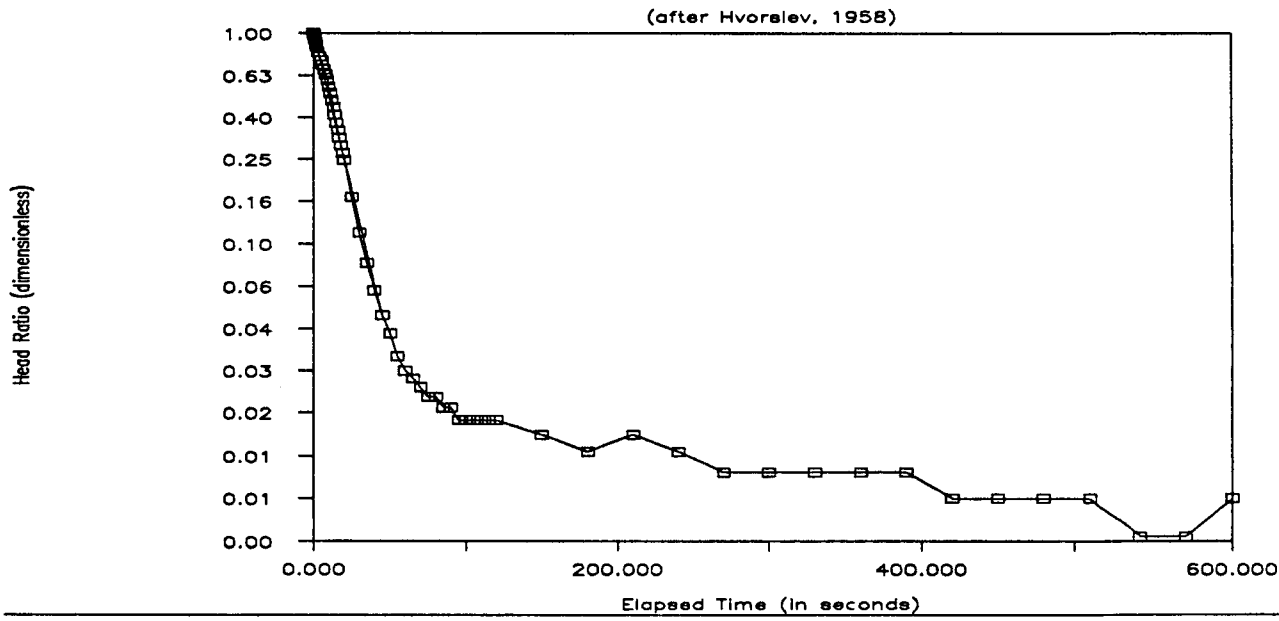
ECKENFELDER INC.

WELL NO: GAF-20S

VARIABLE HEAD HYDRAULIC CONDUCTIVITY TEST

PROJECT NO:	6070	GEOLOGIC UNIT:	FILL
CLIENT:	GAF Chemicals Corp. Linden, NJ	GEOLOGIC CLASSIFICATION:	
TESTED BY:	HBB/DJS		
DATE OF TEST:	16-Oct-90		

GRAPHICAL ANALYSIS
(after Hvorslev, 1958)



METHOD:

$$k = \frac{r^2 \ln (L/R)}{2L(t_2 - t_1)} \ln (H_1 / H_2)$$

Where:

K = 3.5E-03 cm/sec

k = hydraulic conductivity (cm/sec)	
r = well radius (cm)	2.5
R = bore radius (cm)	10
L = screen length (cm)	183
H1 = head ratio at t1	1.00
t1 = elapsed time at H1	0.00
H2 = head ratio at t2	0.05
t2 = elapsed time at H2	45.00

SLUG TEST DATA FOR WELL GAF-20S

Elapsed Time (minutes)	Recovery (feet)	Elapsed Time (minutes)	Recovery (feet)
0.000	4.78	0.75	0.22
0.003	4.73	0.83	0.18
0.007	4.66	0.92	0.14
0.010	4.59	1.00	0.12
0.013	4.52	1.08	0.11
0.017	4.46	1.17	0.10
0.020	4.40	1.25	0.09
0.023	4.32	1.33	0.09
0.027	4.27	1.42	0.08
0.030	4.20	1.50	0.08
0.033	4.15	1.58	0.07
0.050	3.89	1.67	0.07
0.067	3.71	1.75	0.07
0.083	3.55	1.83	0.07
0.10	3.39	1.92	0.07
0.12	3.22	2.00	0.07
0.13	3.04	2.50	0.06
0.15	2.87	3.00	0.05
0.17	2.68	3.50	0.06
0.18	2.50	4.00	0.05
0.20	2.31	4.50	0.04
0.22	2.14	5.00	0.04
0.23	1.96	5.50	0.04
0.25	1.80	6.00	0.04
0.27	1.65	6.50	0.04
0.28	1.52	7.00	0.03
0.30	1.40	7.50	0.03
0.32	1.29	8.00	0.03
0.33	1.19	8.50	0.03
0.42	0.79	9.00	0.02
0.50	0.54	9.50	0.02
0.58	0.39	10.00	0.03
0.67	0.29		

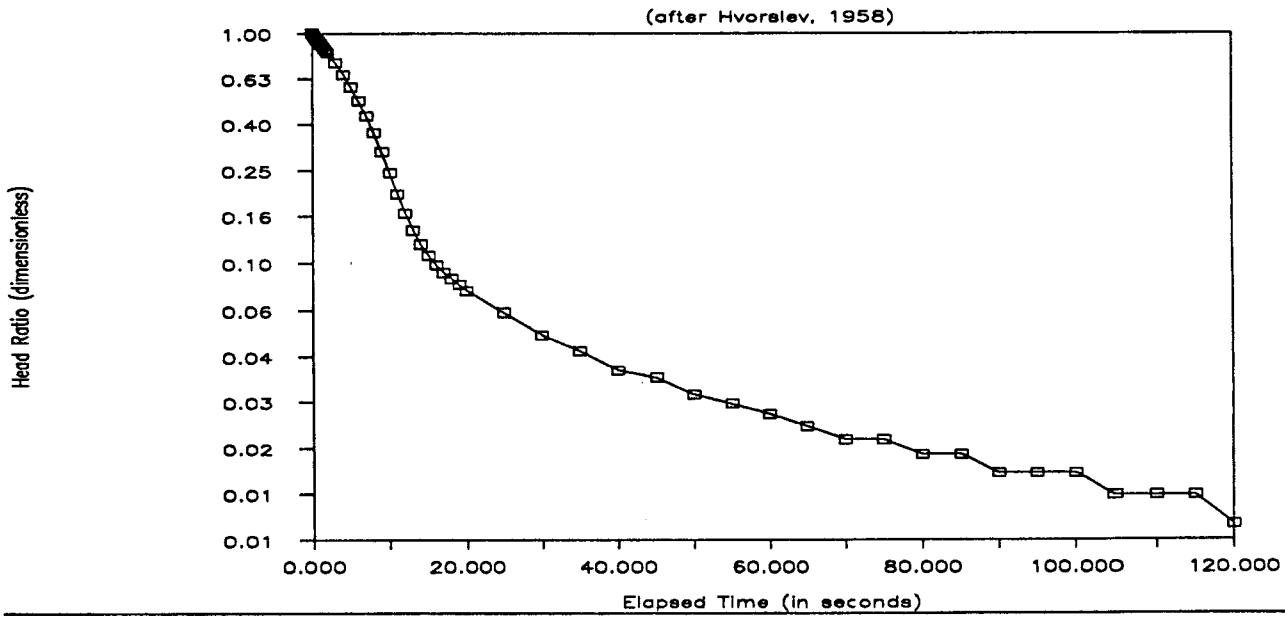
ECKENFELDER INC.

WELL NO: GAF-21S

VARIABLE HEAD HYDRAULIC CONDUCTIVITY TEST

PROJECT NO:	6070	GEOLOGIC UNIT:	FILL
CLIENT:	GAF Chemicals Corp. Linden, NJ	GEOLOGIC CLASSIFICATION:	
TESTED BY:	HBB/DJS		
DATE OF TEST:	17-Oct-90		

GRAPHICAL ANALYSIS
(after Hvorslev, 1958)



METHOD:

$$k = \frac{r2 \ln (L/R)}{2 L (t2 - t1)} \ln (H1 / H2)$$

Where:

K = 7.1E-03 cm/sec

k = hydraulic conductivity (cm/sec)	
r = well radius (cm)	2.5
R = bore radius (cm)	8
L = screen length (cm)	335
H1 = head ratio at t1	0.43
t1 = elapsed time at H1	7.00
H2 = head ratio at t2	0.16
t2 = elapsed time at H2	12.00

SLUG TEST DATA FOR WELL GAF-21S

Elapsed Time (minutes)	Recovery (feet)	Elapsed Time (minutes)	Recovery (feet)
0.000	4.05	0.75	0.13
0.003	3.96	0.83	0.11
0.007	3.88	0.92	0.10
0.010	3.80	1.00	0.09
0.013	3.75	1.08	0.08
0.017	3.69	1.17	0.07
0.020	3.61	1.25	0.07
0.023	3.54	1.33	0.06
0.027	3.46	1.42	0.06
0.030	3.38	1.50	0.05
0.033	3.33	1.58	0.05
0.050	3.00	1.67	0.05
0.067	2.67	1.75	0.04
0.083	2.36	1.83	0.04
0.10	2.05	1.92	0.04
0.12	1.76	2.00	0.03
0.13	1.48	2.50	0.02
0.15	1.22	3.00	0.01
0.17	0.99	3.50	0.01
0.18	0.80	4.00	0.01
0.20	0.66	4.50	0.00
0.22	0.56	5.00	0.00
0.23	0.49	5.50	0.00
0.25	0.44	6.00	0.00
0.27	0.40	6.50	0.00
0.28	0.37	7.00	0.00
0.30	0.35	7.50	0.00
0.32	0.33	8.00	0.00
0.33	0.31	8.50	0.00
0.42	0.25	9.00	0.00
0.50	0.20	9.50	0.00
0.58	0.17	10.00	0.00
0.67	0.14		

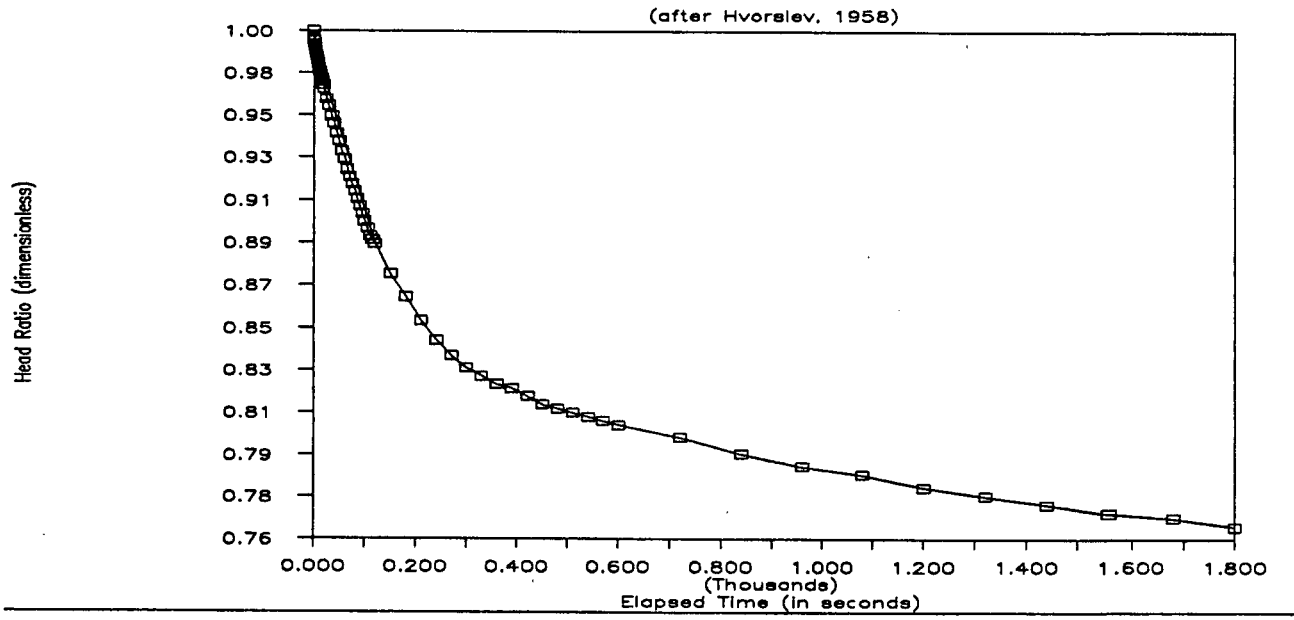
ECKENFELDER INC.

WELL NO: GAF-23S

VARIABLE HEAD
HYDRAULIC CONDUCTIVITY TEST

PROJECT NO:	6070	GEOLOGIC UNIT:	FILL
CLIENT:	GAF Chemicals Corp. Linden, NJ	GEOLOGIC CLASSIFICATION:	
TESTED BY:	HBB/DJS		
DATE OF TEST:	17-Oct-90		

GRAPHICAL ANALYSIS
(after Hvorslev, 1958)



METHOD:

$$k = \frac{r^2 \ln (L/R)}{2L(t_2 - t_1)} \ln (H_1 / H_2)$$

Where:

K = 5.2E-05 cm/sec

k = hydraulic conductivity (cm/sec)	
r = well radius (cm)	2.5
R = bore radius (cm)	10
L = screen length (cm)	152
H1 = head ratio at t1	0.99
t1 = elapsed time at H1	2.00
H2 = head ratio at t2	0.89
t2 = elapsed time at H2	120.00

SLUG TEST DATA FOR WELL GAF-23S

Elapsed Time (minutes)	Recovery (feet)	Elapsed Time (minutes)	Recovery (feet)
0.000	5.50	1.17	5.08
0.003	5.47	1.25	5.06
0.007	5.48	1.33	5.04
0.010	5.47	1.42	5.02
0.013	5.47	1.50	5.00
0.017	5.47	1.58	4.98
0.020	5.46	1.67	4.96
0.023	5.46	1.75	4.94
0.027	5.46	1.83	4.92
0.030	5.46	1.92	4.91
0.033	5.45	2.00	4.90
0.050	5.44	2.50	4.82
0.067	5.43	3.00	4.76
0.083	5.43	3.50	4.70
0.10	5.42	4.00	4.65
0.12	5.41	4.50	4.61
0.13	5.40	5.00	4.58
0.15	5.40	5.50	4.56
0.17	5.39	6.00	4.54
0.18	5.38	6.50	4.53
0.20	5.38	7.00	4.51
0.22	5.37	7.50	4.49
0.23	5.36	8.00	4.48
0.25	5.36	8.50	4.47
0.27	5.35	9.00	4.46
0.28	5.35	9.50	4.45
0.30	5.34	10.00	4.44
0.32	5.34	12.00	4.41
0.33	5.33	14.00	4.37
0.42	5.30	16.00	4.34
0.50	5.28	18.00	4.32
0.58	5.25	20.00	4.29
0.67	5.23	22.00	4.27
0.75	5.20	24.00	4.25
0.83	5.18	26.00	4.23
0.92	5.15	28.00	4.22
1.00	5.13	30.00	4.20
1.08	5.10		

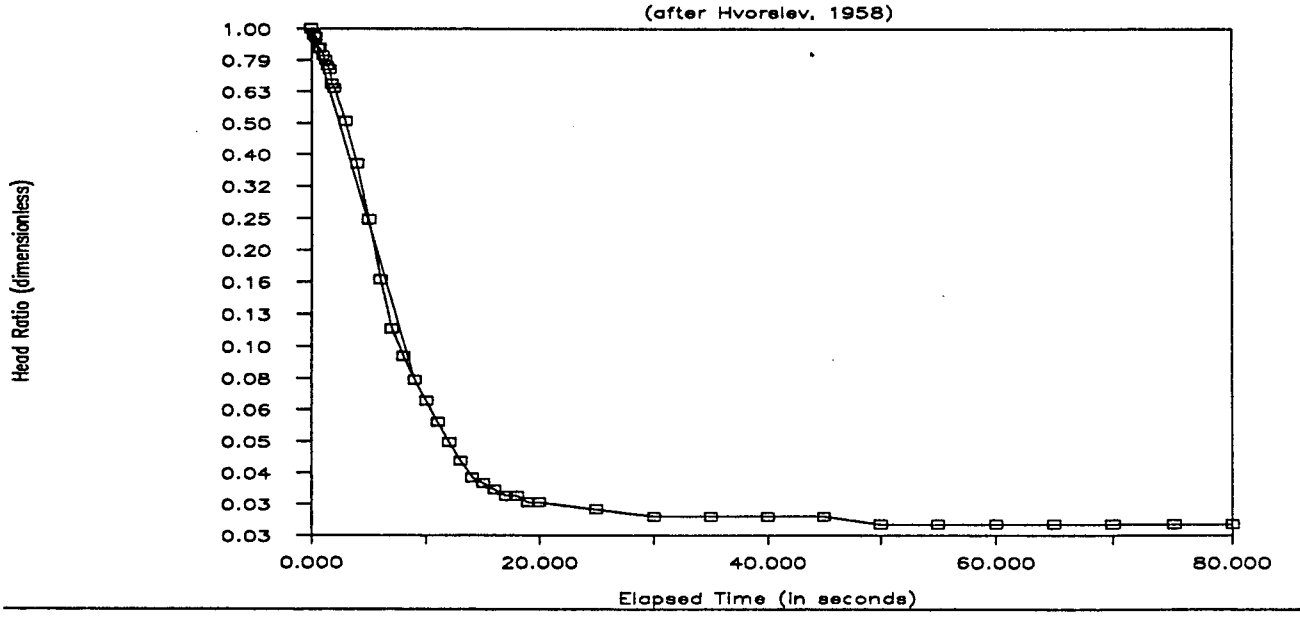
ECKENFELDER INC.

WELL NO: GAF-24S

VARIABLE HEAD
HYDRAULIC CONDUCTIVITY TEST

PROJECT NO:	6070	GEOLOGIC UNIT:	FILL
CLIENT:	GAF Chemicals Corp. Linden, NJ	GEOLOGIC CLASSIFICATION:	
TESTED BY:	HBB/DJS		
DATE OF TEST:	16-Oct-90		

GRAPHICAL ANALYSIS
(after Hvorslev, 1958)



METHOD:

$$k = \frac{r2 \ln (L/R)}{2 L (t2 - t1)} \ln (H1 / H2)$$

Where:

K = 9.5E-03 cm/sec

k = hydraulic conductivity (cm/sec)	
r = well radius (cm)	2.5
R = bore radius (cm)	10
L = screen length (cm)	335
H1 = head ratio at t1	1.00
t1 = elapsed time at H1	0.00
H2 = head ratio at t2	0.08
t2 = elapsed time at H2	9.00

SLUG TEST DATA FOR WELL GAF-24S

Elapsed Time (minutes)	Recovery (feet)	Elapsed Time (minutes)	Recovery (feet)
0.000	6.24	0.75	0.18
0.003	5.96	0.83	0.17
0.007	5.89	0.92	0.17
0.010	5.40	1.00	0.17
0.013	5.43	1.08	0.17
0.017	5.14	1.17	0.17
0.020	4.97	1.25	0.17
0.023	4.76	1.33	0.17
0.027	4.63	1.42	0.17
0.030	4.17	1.50	0.17
0.033	4.05	1.58	0.17
0.050	3.17	1.67	0.17
0.067	2.33	1.75	0.17
0.083	1.56	1.83	0.17
0.10	1.01	1.92	0.17
0.12	0.71	2.00	0.16
0.13	0.58	2.50	0.16
0.15	0.49	3.00	0.16
0.17	0.42	3.50	0.16
0.18	0.36	4.00	0.16
0.20	0.31	4.50	0.16
0.22	0.27	5.00	0.16
0.23	0.24	5.50	0.16
0.25	0.23	6.00	0.16
0.27	0.22	6.50	0.16
0.28	0.21	7.00	0.16
0.30	0.21	7.50	0.16
0.32	0.20	8.00	0.16
0.33	0.20	8.50	0.16
0.42	0.19	9.00	0.16
0.50	0.18	9.50	0.16
0.58	0.18	10.00	0.16
0.67	0.18	12.00	0.16

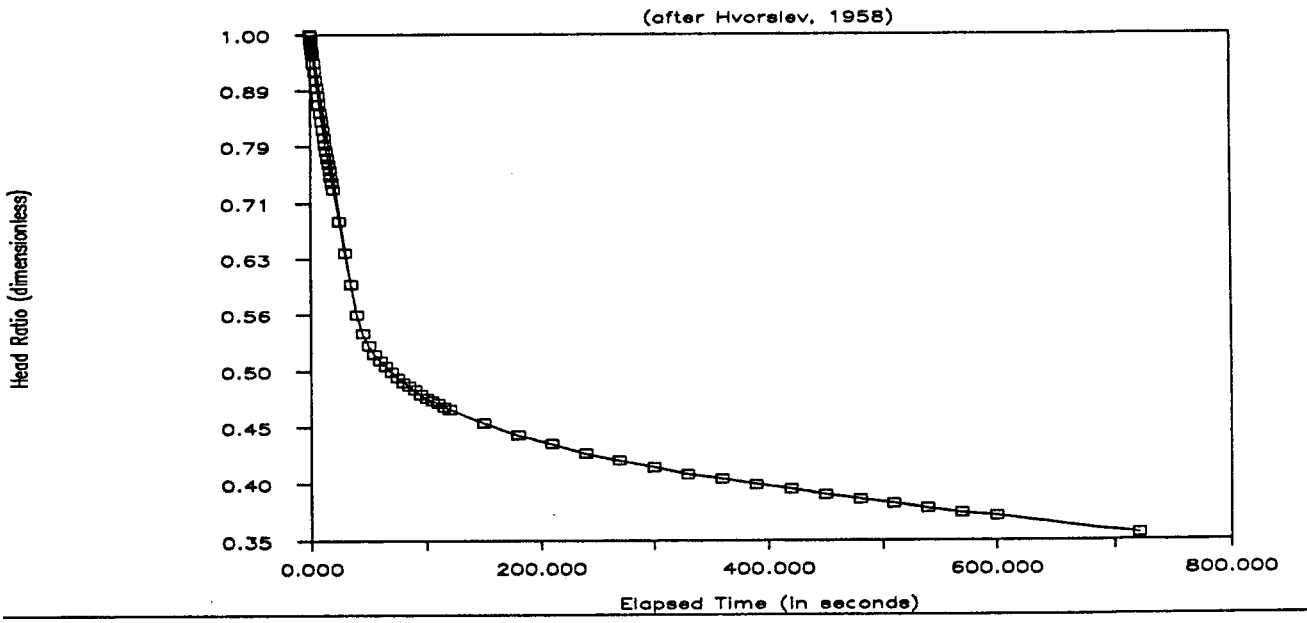
ECKENFELDER INC.

WELL NO: GAF-25S

VARIABLE HEAD
HYDRAULIC CONDUCTIVITY TEST

PROJECT NO:	6070	GEOLOGIC UNIT:	FILL
CLIENT:	GAF Chemicals Corp. Linden, NJ	GEOLOGIC CLASSIFICATION:	
TESTED BY:	HBB/DJS		
DATE OF TEST:	16-Oct-90		

GRAPHICAL ANALYSIS
(after Hvorslev, 1958)



METHOD:

$$k = \frac{r2 \ln (L/R)}{2 L (t2 - t1)} \ln (H1 / H2)$$

Where:

K = 4.9E-04 cm/sec

k = hydraulic conductivity (cm/sec)	
r = well radius (cm)	2.5
R = bore radius (cm)	10
L = screen length (cm)	335
H1 = head ratio at t1	1.00
t1 = elapsed time at H1	0.20
H2 = head ratio at t2	0.60
t2 = elapsed time at H2	35.00

SLUG TEST DATA FOR WELL GAF-25S

Elapsed Time (minutes)	Recovery (feet)	Elapsed Time (minutes)	Recovery (feet)
0.000	8.48	0.92	4.40
0.003	8.46	1.00	4.34
0.007	8.35	1.08	4.29
0.010	8.37	1.17	4.24
0.013	8.33	1.25	4.19
0.017	8.29	1.33	4.15
0.020	8.26	1.42	4.12
0.023	8.23	1.50	4.09
0.027	8.19	1.58	4.05
0.030	8.17	1.67	4.02
0.033	8.13	1.75	4.00
0.050	7.99	1.83	3.98
0.067	7.85	1.92	3.95
0.083	7.71	2.00	3.93
0.10	7.59	2.50	3.82
0.12	7.47	3.00	3.73
0.13	7.34	3.50	3.66
0.15	7.21	4.00	3.59
0.17	7.09	4.50	3.54
0.18	6.97	5.00	3.49
0.20	6.86	5.50	3.44
0.22	6.76	6.00	3.41
0.23	6.67	6.50	3.37
0.25	6.58	7.00	3.34
0.27	6.50	7.50	3.30
0.28	6.42	8.00	3.27
0.30	6.34	8.50	3.24
0.32	6.26	9.00	3.21
0.33	6.17	9.50	3.18
0.42	5.78	10.00	3.16
0.50	5.42	12.00	3.05
0.58	5.08	14.00	2.97
0.67	4.77	16.00	2.89
0.75	4.59	18.00	2.83
0.83	4.48	20.00	2.75

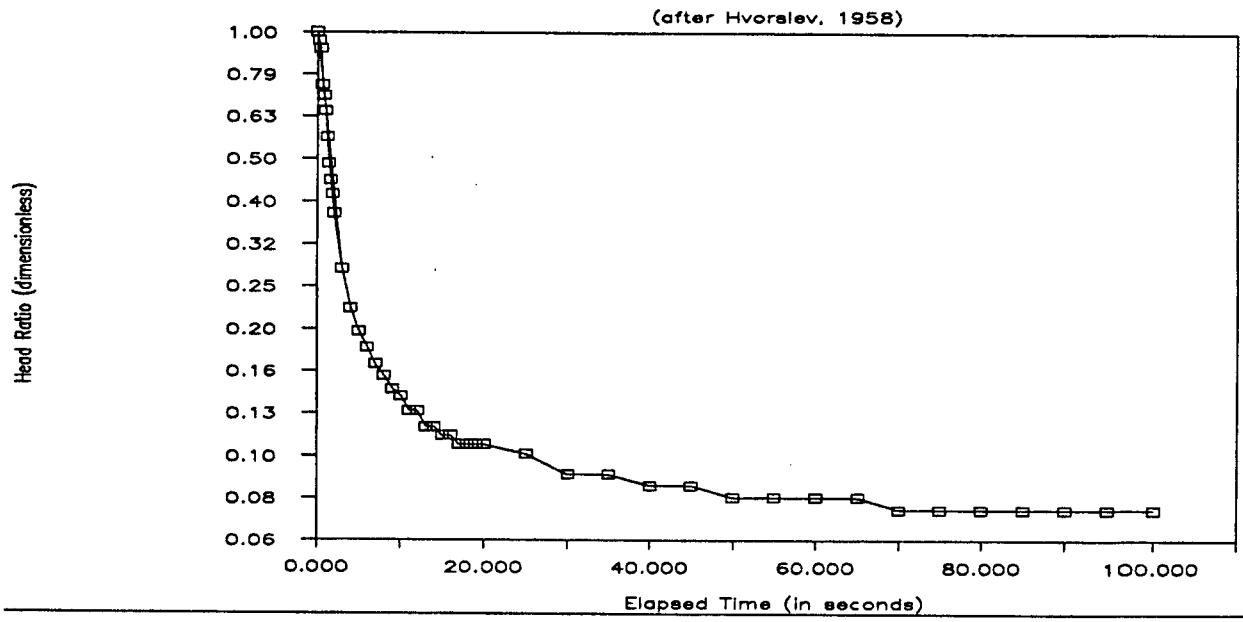
ECKENFELDER INC.

WELL NO: GAF-26S

VARIABLE HEAD HYDRAULIC CONDUCTIVITY TEST

PROJECT NO:	6070	GEOLOGIC UNIT:	FILL
CLIENT:	GAF Chemicals Corp. Linden, NJ	GEOLOGIC CLASSIFICATION:	
TESTED BY:	HBB/DJS		
DATE OF TEST:	16-Oct-90		

GRAPHICAL ANALYSIS
(after Hvorslev, 1958)



METHOD:

$$k = \frac{r2 \ln (L/R)}{2 L (t2 - t1)} \ln (H1 / H2)$$

Where:

K = 1.4E-02 cm/sec

k = hydraulic conductivity (cm/sec)	
r = well radius (cm)	2.5
R = bore radius (cm)	10
L = screen length (cm)	335
H1 = head ratio at t1	1.00
t1 = elapsed time at H1	0.00
H2 = head ratio at t2	0.28
t2 = elapsed time at H2	3.00

SLUG TEST DATA FOR WELL GAF-26S

Elapsed Time (minutes)	Recovery (feet)	Elapsed Time (minutes)	Recovery (feet)
0.000	1.88	0.75	0.16
0.003	2.05	0.83	0.15
0.007	1.72	0.92	0.15
0.010	1.41	1.00	0.15
0.013	1.33	1.08	0.15
0.017	1.22	1.17	0.14
0.020	1.06	1.25	0.14
0.023	0.92	1.33	0.14
0.027	0.84	1.42	0.14
0.030	0.78	1.50	0.14
0.033	0.70	1.58	0.14
0.050	0.52	1.67	0.14
0.067	0.42	1.75	0.13
0.083	0.37	1.83	0.13
0.10	0.34	1.92	0.13
0.12	0.31	2.00	0.13
0.13	0.29	2.50	0.12
0.15	0.27	3.00	0.12
0.17	0.26	3.50	0.11
0.18	0.24	4.00	0.11
0.20	0.24	4.50	0.11
0.22	0.22	5.00	0.11
0.23	0.22	5.50	0.11
0.25	0.21	6.00	0.10
0.27	0.21	6.50	0.10
0.28	0.20	7.00	0.10
0.30	0.20	7.50	0.10
0.32	0.20	8.00	0.10
0.33	0.20	8.50	0.09
0.42	0.19	9.00	0.10
0.50	0.17	9.50	0.10
0.58	0.17	10.00	0.10
0.67	0.16		

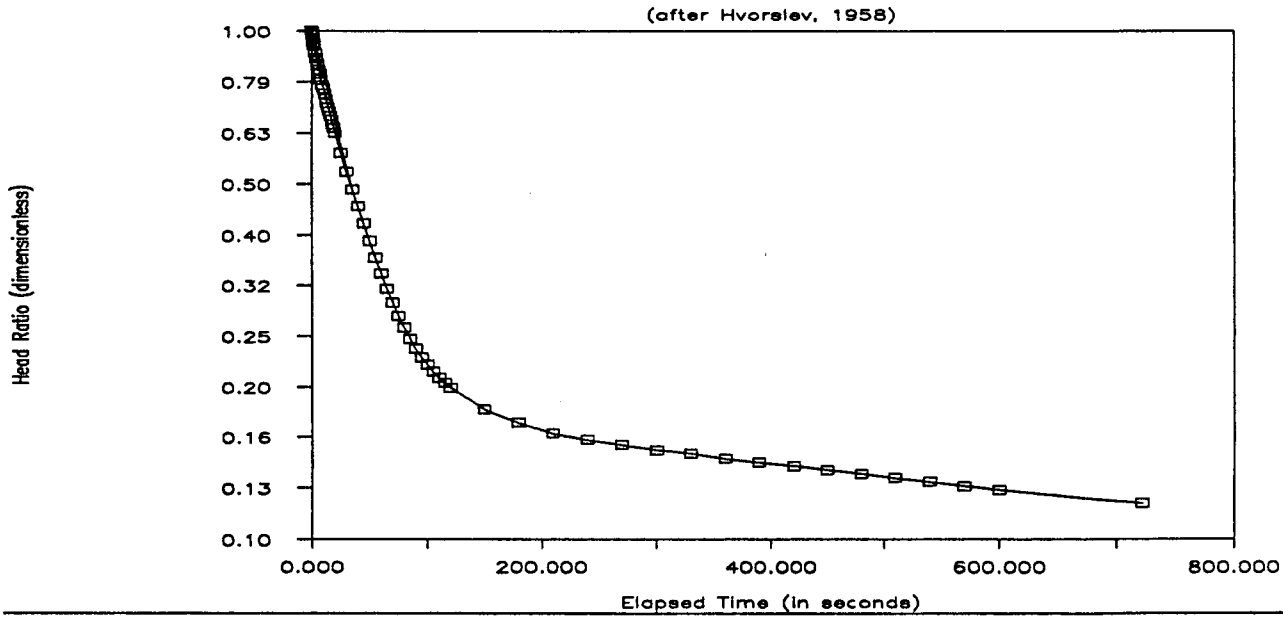
ECKENFELDER INC.

WELL NO: GAF-27S

VARIABLE HEAD HYDRAULIC CONDUCTIVITY TEST

PROJECT NO:	6070	GEOLOGIC UNIT:	FILL
CLIENT:	GAF Chemicals Corp. Linden, NJ	GEOLOGIC CLASSIFICATION:	
TESTED BY:	HBB/DJS		
DATE OF TEST:	16-Oct-90		

GRAPHICAL ANALYSIS
(after Hvorslev, 1958)



METHOD:

$$k = \frac{r2 \ln (L/R)}{2 L (t2 - t1)} \ln (H1 / H2)$$

Where:

K = 6.9E-04 cm/sec

k = hydraulic conductivity (cm/sec)	
r = well radius (cm)	2.5
R = bore radius (cm)	10
L = screen length (cm)	335
H1 = head ratio at t1	1.00
t1 = elapsed time at H1	0.20
H2 = head ratio at t2	0.49
t2 = elapsed time at H2	35.00

SLUG TEST DATA FOR WELL GAF-27S

Elapsed Time (minutes)	Recovery (feet)	Elapsed Time (minutes)	Recovery (feet)
0.000	8.51	1.33	2.22
0.003	8.47	1.42	2.11
0.007	8.39	1.50	2.02
0.010	8.35	1.58	1.94
0.013	8.25	1.67	1.88
0.017	8.22	1.75	1.82
0.020	8.16	1.83	1.77
0.023	8.07	1.92	1.73
0.027	7.97	2.00	1.69
0.030	8.01	2.50	1.53
0.033	7.96	3.00	1.44
0.050	7.70	3.50	1.37
0.067	7.52	4.00	1.33
0.083	7.32	4.50	1.30
0.10	7.14	5.00	1.27
0.12	7.01	5.50	1.25
0.13	6.84	6.00	1.22
0.15	6.66	6.50	1.20
0.17	6.56	7.00	1.18
0.18	6.41	7.50	1.16
0.20	6.26	8.00	1.14
0.22	6.14	8.50	1.12
0.23	6.02	9.00	1.10
0.25	5.91	9.50	1.08
0.27	5.80	10.00	1.06
0.28	5.70	12.00	1.00
0.30	5.58	14.00	0.94
0.32	5.49	16.00	0.89
0.33	5.37	18.00	0.84
0.42	4.91	20.00	0.81
0.50	4.52	22.00	0.77
0.58	4.17	24.00	0.73
0.67	3.86	26.00	0.70
0.75	3.57	28.00	0.67
0.83	3.30	30.00	0.65
0.92	3.06	32.00	0.62
1.00	2.84	34.00	0.60
1.08	2.65	36.00	0.58
1.17	2.49	38.00	0.57
1.25	2.34		

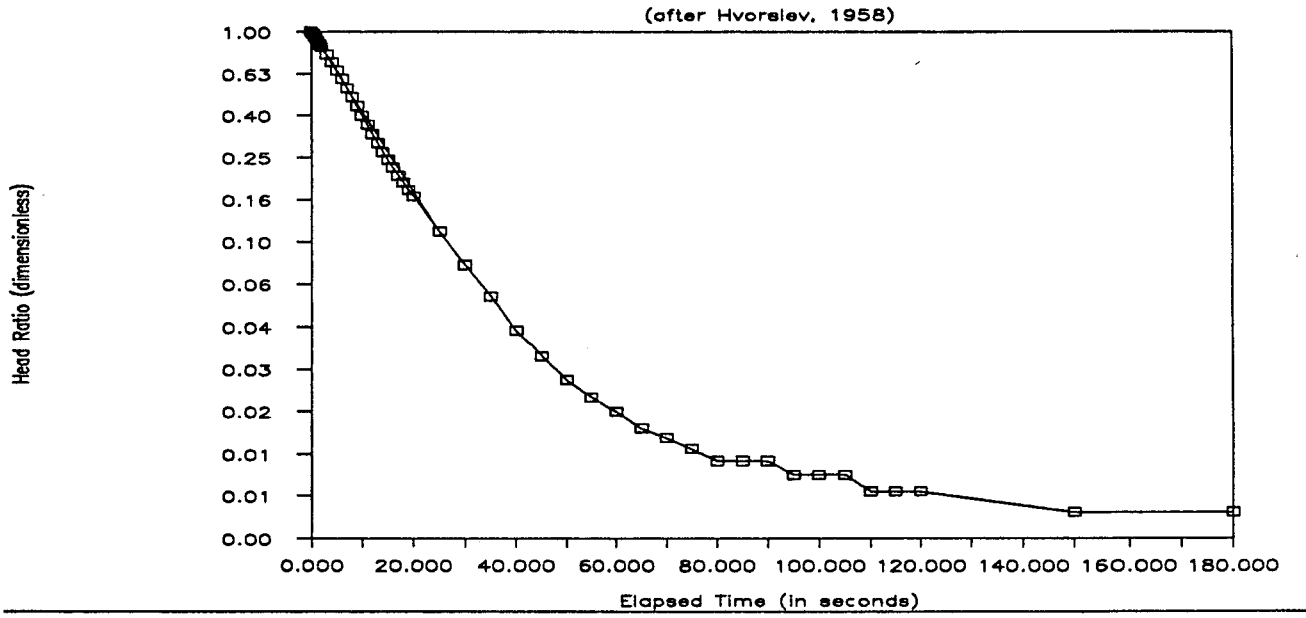
ECKENFELDER INC.

WELL NO: GAF-28S

VARIABLE HEAD
HYDRAULIC CONDUCTIVITY TEST

PROJECT NO:	6070	GEOLOGIC UNIT:	FILL
CLIENT:	GAF Chemicals Corp. Linden, NJ	GEOLOGIC CLASSIFICATION:	
TESTED BY:	HBB/DJS		
DATE OF TEST:	16-Oct-90		

GRAPHICAL ANALYSIS
(after Hvorslev, 1958)



METHOD:

$$k = \frac{r2 \ln (L/R)}{2 L (t2 - t1)} \ln (H1 / H2)$$

Where:

K = 2.9E-03 cm/sec

k = hydraulic conductivity (cm/sec)	
r = well radius (cm)	2.5
R = bore radius (cm)	10
L = screen length (cm)	335
H1 = head ratio at t1	1.00
t1 = elapsed time at H1	0.00
H2 = head ratio at t2	0.11
t2 = elapsed time at H2	25.00

SLUG TEST DATA FOR WELL GAF-28S

Elapsed Time (minutes)	Recovery (feet)	Elapsed Time (minutes)	Recovery (feet)
0.000	7.58	0.75	0.22
0.003	7.42	0.83	0.17
0.007	7.35	0.92	0.14
0.010	7.23	1.00	0.12
0.013	7.13	1.08	0.10
0.017	6.99	1.17	0.09
0.020	6.87	1.25	0.08
0.023	6.73	1.33	0.07
0.027	6.64	1.42	0.07
0.030	6.55	1.50	0.07
0.033	6.43	1.58	0.06
0.050	5.91	1.67	0.06
0.067	5.43	1.75	0.06
0.083	4.97	1.83	0.05
0.10	4.52	1.92	0.05
0.12	4.10	2.00	0.05
0.13	3.71	2.50	0.04
0.15	3.35	3.00	0.04
0.17	3.02	3.50	0.03
0.18	2.73	4.00	0.03
0.20	2.46	4.50	0.03
0.22	2.23	5.00	0.03
0.23	2.03	5.50	0.02
0.25	1.86	6.00	0.02
0.27	1.71	6.50	0.02
0.28	1.57	7.00	0.02
0.30	1.45	7.50	0.02
0.32	1.34	8.00	0.02
0.33	1.25	8.50	0.02
0.42	0.85	9.00	0.02
0.50	0.59	9.50	0.02
0.58	0.42	10.00	0.02
0.67	0.29		

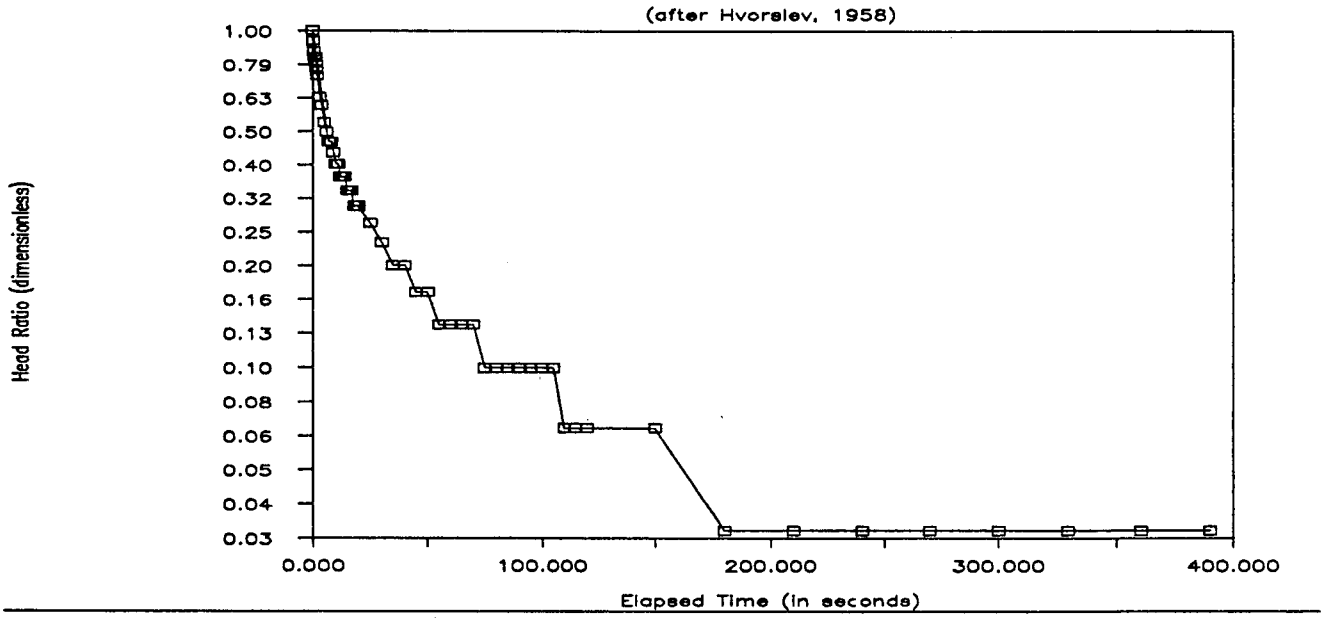
ECKENFELDER INC.

WELL NO: GAF-29S

VARIABLE HEAD HYDRAULIC CONDUCTIVITY TEST

PROJECT NO:	6070	GEOLOGIC UNIT:	FILL
CLIENT:	GAF Chemicals Corp. Linden, NJ	GEOLOGIC CLASSIFICATION:	
TESTED BY:	HBB/DJS		
DATE OF TEST:	16-Oct-90		

GRAPHICAL ANALYSIS
(after Hvorslev, 1958)



METHOD:

$$k = \frac{r2 \ln (L/R)}{2 L (t2 - t1)} \ln (H1 / H2)$$

Where:

K = 3.9E-03 cm/sec

k = hydraulic conductivity (cm/sec)	
r = well radius (cm)	2.5
R = bore radius (cm)	10
L = screen length (cm)	335
H1 = head ratio at t1	1.00
t1 = elapsed time at H1	0.00
H2 = head ratio at t2	0.50
t2 = elapsed time at H2	6.00

SLUG TEST DATA FOR WELL GAF-29S

Elapsed Time (minutes)	Recovery (feet)	Elapsed Time (minutes)	Recovery (feet)
0.000	0.30	0.75	0.05
0.003	0.28	0.83	0.05
0.007	0.26	0.92	0.04
0.010	0.26	1.00	0.04
0.013	0.25	1.08	0.04
0.017	0.25	1.17	0.04
0.020	0.25	1.25	0.03
0.023	0.24	1.33	0.03
0.027	0.23	1.42	0.03
0.030	0.22	1.50	0.03
0.033	0.22	1.58	0.03
0.050	0.19	1.67	0.03
0.067	0.18	1.75	0.03
0.083	0.16	1.83	0.02
0.10	0.15	1.92	0.02
0.12	0.14	2.00	0.02
0.13	0.14	2.50	0.02
0.15	0.13	3.00	0.01
0.17	0.12	3.50	0.01
0.18	0.12	4.00	0.01
0.20	0.11	4.50	0.01
0.22	0.11	5.00	0.01
0.23	0.11	5.50	0.01
0.25	0.10	6.00	0.01
0.27	0.10	6.50	0.01
0.28	0.10	7.00	0.00
0.30	0.09	7.50	0.00
0.32	0.09	8.00	0.00
0.33	0.09	8.50	0.00
0.42	0.08	9.00	0.00
0.50	0.07	9.50	0.00
0.58	0.06	10.00	0.00
0.67	0.06	12.00	0.01

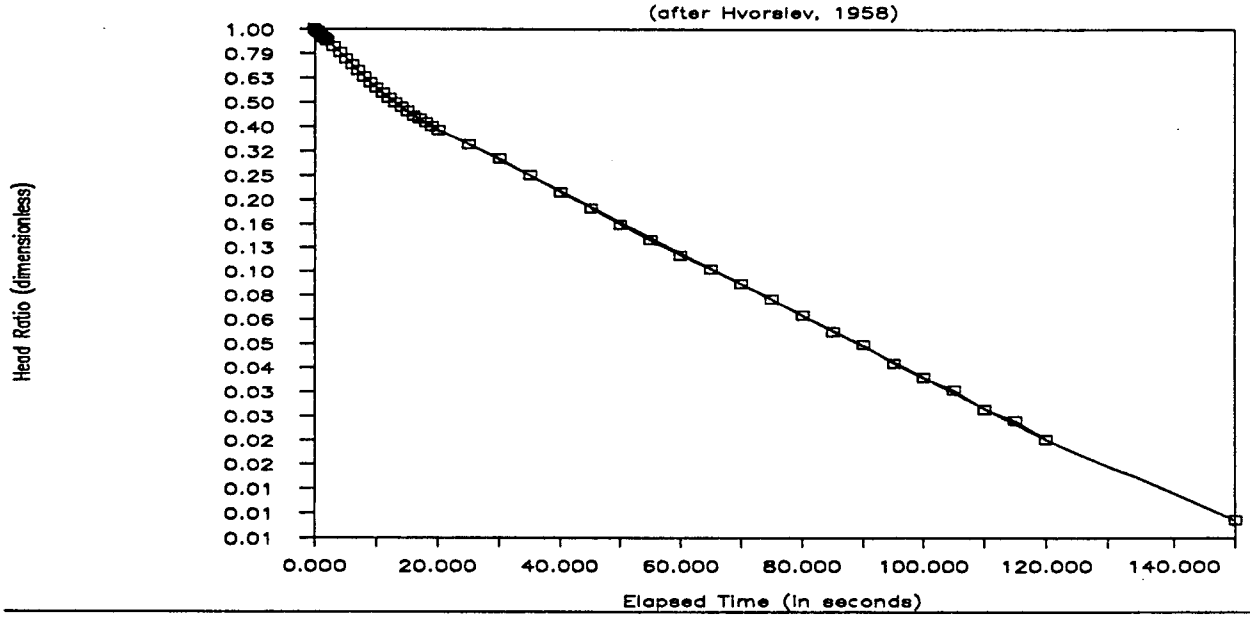
ECKENFELDER INC.

WELL NO: GAF-30S

VARIABLE HEAD HYDRAULIC CONDUCTIVITY TEST

PROJECT NO:	6070	GEOLOGIC UNIT:	FILL
CLIENT:	GAF Chemicals Corp. Linden, NJ	GEOLOGIC CLASSIFICATION:	
TESTED BY:	HBB/DJS		
DATE OF TEST:	16-Oct-90		

GRAPHICAL ANALYSIS
(after Hvorslev, 1958)



METHOD:

$$k = \frac{r2 \ln (L/R)}{2 L (t2 - t1)} \ln (H1 / H2)$$

Where:

K = 1.0E-03 cm/sec

k = hydraulic conductivity (cm/sec)	
r = well radius (cm)	2.5
R = bore radius (cm)	10
L = screen length (cm)	335
H1 = head ratio at t1	0.34
t1 = elapsed time at H1	25.00
H2 = head ratio at t2	0.02
t2 = elapsed time at H2	120.00

SLUG TEST DATA FOR WELL GAF-30S

Elapsed Time (minutes)	Recovery (feet)	Elapsed Time (minutes)	Recovery (feet)
0.000	7.46	0.75	1.37
0.003	7.36	0.83	1.17
0.007	7.26	0.92	1.01
0.010	7.26	1.00	0.87
0.013	7.14	1.08	0.76
0.017	7.06	1.17	0.66
0.020	6.98	1.25	0.57
0.023	6.90	1.33	0.49
0.027	6.83	1.42	0.42
0.030	6.76	1.50	0.37
0.033	6.67	1.58	0.31
0.050	6.34	1.67	0.27
0.067	6.00	1.75	0.24
0.083	5.66	1.83	0.20
0.10	5.35	1.92	0.18
0.12	5.05	2.00	0.15
0.13	4.77	2.50	0.07
0.15	4.52	3.00	0.03
0.17	4.29	3.50	0.03
0.18	4.09	4.00	0.03
0.20	3.89	4.50	0.02
0.22	3.74	5.00	0.02
0.23	3.59	5.50	0.02
0.25	3.44	6.00	0.02
0.27	3.29	6.50	0.02
0.28	3.20	7.00	0.02
0.30	3.09	7.50	0.02
0.32	2.98	8.00	0.02
0.33	2.88	8.50	0.02
0.42	2.52	9.00	0.02
0.50	2.20	9.50	0.02
0.58	1.88	10.00	0.02
0.67	1.60		

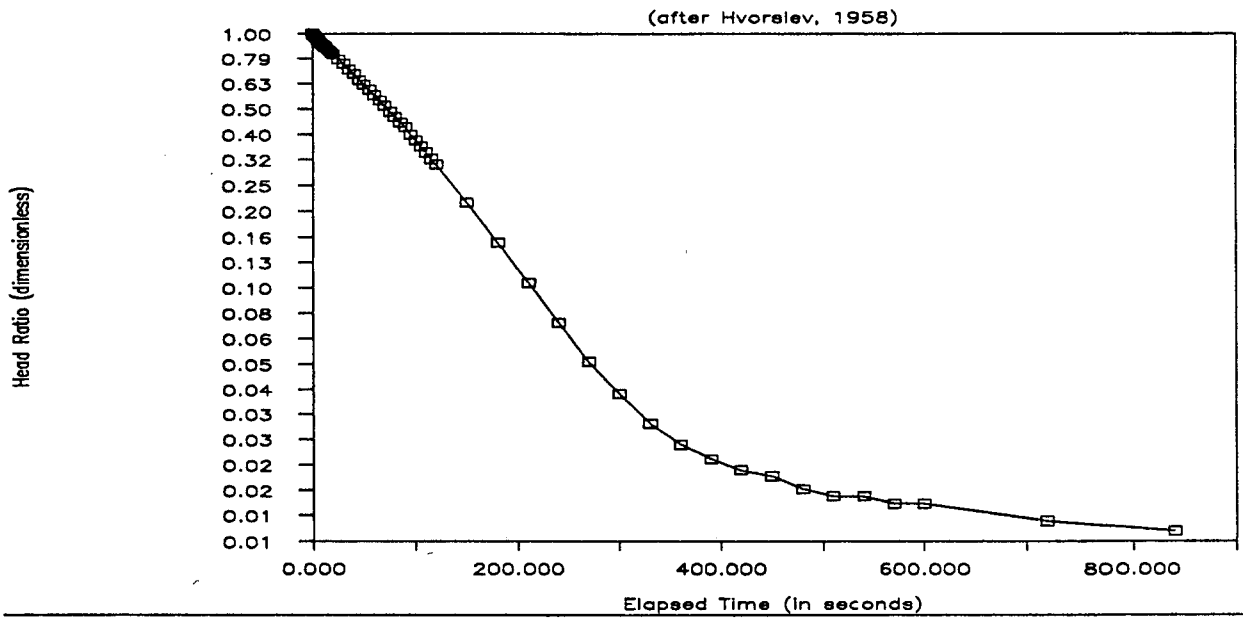
ECKENFELDER INC.

WELL NO: GAF-1D

VARIABLE HEAD
HYDRAULIC CONDUCTIVITY TEST

PROJECT NO:	6070	GEOLOGIC UNIT:	Passaic Formation
CLIENT:	GAF Chemicals Corp. Linden, NJ	GEOLOGIC CLASSIFICATION:	Siltstone
TESTED BY:	HBB/DJS		
DATE OF TEST:	18-Oct-90		

GRAPHICAL ANALYSIS
(after Hvorslev, 1958)



METHOD:

$$k = \frac{r2 \ln (L/R)}{2 L (t2 - t1)} \ln (H1 / H2)$$

Where:

K = 3.4E-04 cm/sec

k = hydraulic conductivity (cm/sec)	
r = well radius (cm)	2.5
R = bore radius (cm)	8
L = screen length (cm)	335
H1 = head ratio at t1	0.99
t1 = elapsed time at H1	0.80
H2 = head ratio at t2	0.52
t2 = elapsed time at H2	70.00

SLUG TEST DATA FOR WELL GAF-1D

Elapsed Time (minutes)	Recovery (feet)	Elapsed Time (minutes)	Recovery (feet)
0.000	10.02	0.83	6.29
0.003	9.99	0.92	5.98
0.007	9.97	1.00	5.70
0.010	9.94	1.08	5.43
0.013	9.92	1.17	5.17
0.017	9.90	1.25	4.89
0.020	9.88	1.33	4.67
0.023	9.85	1.42	4.43
0.027	9.83	1.50	4.25
0.030	9.81	1.58	3.98
0.033	9.79	1.67	3.77
0.050	9.69	1.75	3.57
0.067	9.59	1.83	3.39
0.083	9.49	1.92	3.20
0.10	9.40	2.00	3.04
0.12	9.31	2.50	2.16
0.13	9.23	3.00	1.51
0.15	9.15	3.50	1.05
0.17	9.07	4.00	0.73
0.18	8.99	4.50	0.51
0.20	8.91	5.00	0.38
0.22	8.83	5.50	0.29
0.23	8.75	6.00	0.24
0.25	8.67	6.50	0.21
0.27	8.60	7.00	0.19
0.28	8.52	7.50	0.18
0.30	8.45	8.00	0.16
0.32	8.37	8.50	0.15
0.33	8.29	9.00	0.15
0.42	7.93	9.50	0.14
0.50	7.57	10.00	0.14
0.58	7.21	12.00	0.12
0.67	6.90	14.00	0.11
0.75	6.54		

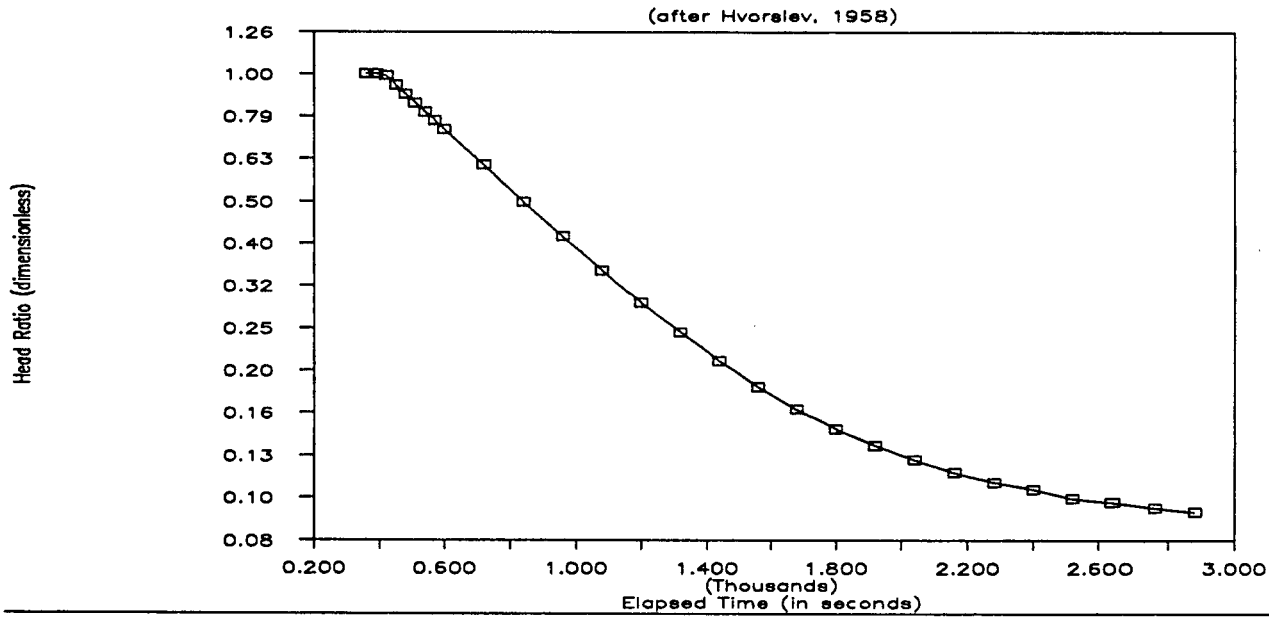
ECKENFELDER INC.

WELL NO: GAF-6D

VARIABLE HEAD HYDRAULIC CONDUCTIVITY TEST

PROJECT NO:	6070	GEOLOGIC UNIT:	Passaic Formation
CLIENT:	GAF Chemicals Corp. Linden, NJ	GEOLOGIC CLASSIFICATION:	Siltstone
TESTED BY:	HBB/DJS		
DATE OF TEST:	18-Oct-90		

GRAPHICAL ANALYSIS
(after Hvorslev, 1958)



METHOD:

$$k = \frac{r2 \ln (L/R)}{2 L (t2 - t1)} \ln (H1 / H2)$$

Where:

K = 5.6E-05 cm/sec

k = hydraulic conductivity (cm/sec)	
r = well radius (cm)	2.5
R = bore radius (cm)	8
L = screen length (cm)	335
H1 = head ratio at t1	1.00
t1 = elapsed time at H1	390.00
H2 = head ratio at t2	0.50
t2 = elapsed time at H2	840.00

SLUG TEST DATA FOR WELL GAF-6D

Elapsed Time (minutes)	Recovery (feet)	Elapsed Time (minutes)	Recovery (feet)
0.000	9.85	1.50	9.87
0.003	9.87	1.58	9.88
0.007	9.87	1.67	9.87
0.010	9.90	1.75	9.87
0.013	9.89	1.83	9.87
0.017	9.85	1.92	9.87
0.020	9.86	2.00	9.87
0.023	9.86	2.50	9.87
0.027	9.85	3.00	9.87
0.030	9.82	3.50	9.87
0.033	9.83	4.00	9.88
0.050	9.83	4.50	9.87
0.067	9.82	5.00	9.87
0.083	9.82	5.50	9.87
0.10	9.84	6.00	9.87
0.12	9.82	6.50	9.87
0.13	9.84	7.00	9.75
0.15	9.85	7.50	9.26
0.17	9.85	8.00	8.83
0.18	9.85	8.50	8.41
0.20	9.85	9.00	8.02
0.22	9.85	9.50	7.65
0.23	9.85	10.00	7.29
0.25	9.85	12.00	6.02
0.27	9.86	14.00	4.92
0.28	9.85	16.00	4.08
0.30	9.86	18.00	3.39
0.32	9.87	20.00	2.84
0.33	9.86	22.00	2.42
0.42	9.86	24.00	2.07
0.50	9.87	26.00	1.80
0.58	9.87	28.00	1.59
0.67	9.87	30.00	1.43
0.75	9.87	32.00	1.31
0.83	9.87	34.00	1.21
0.92	9.88	36.00	1.13
1.00	9.87	38.00	1.07
1.08	9.87	40.00	1.03
1.17	9.88	42.00	0.98
1.25	9.87	44.00	0.96
1.33	9.87	46.00	0.93
1.42	9.87	48.00	0.91

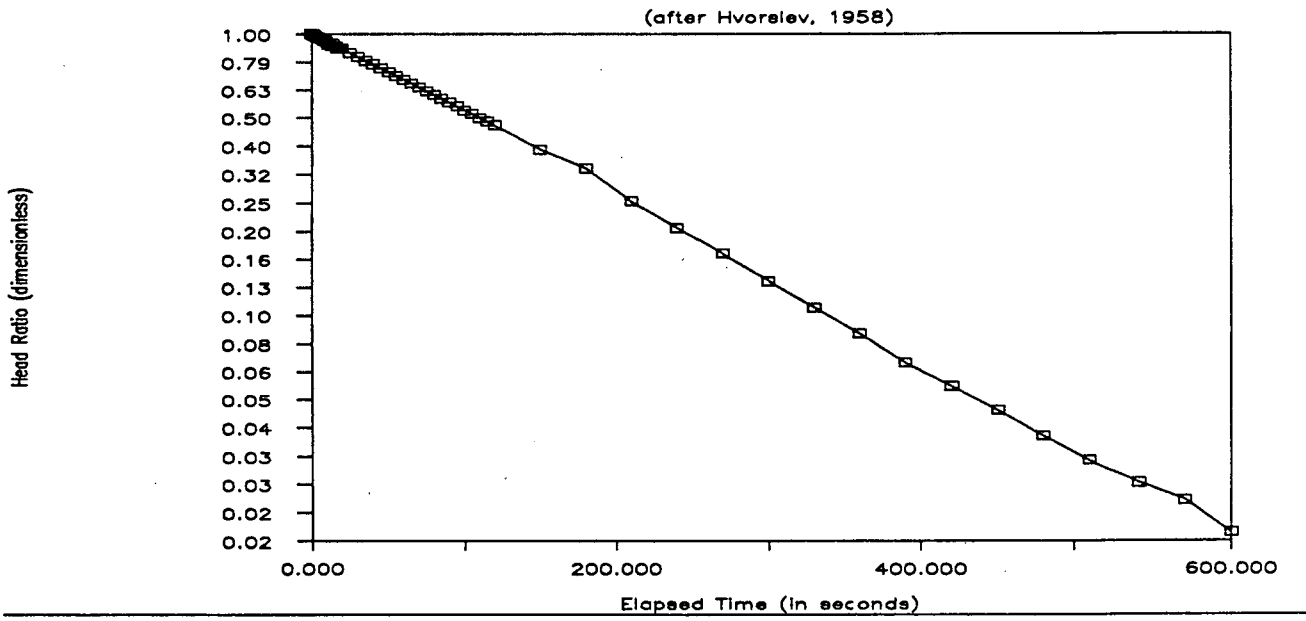
ECKENFELDER INC.

WELL NO: GAF-BD

VARIABLE HEAD
HYDRAULIC CONDUCTIVITY TEST

PROJECT NO:	6070	GEOLOGIC UNIT:	Passaic Formation
CLIENT:	GAF Chemicals Corp. Linden, NJ	GEOLOGIC CLASSIFICATION:	Siltstone
TESTED BY:	HBB/DJS		
DATE OF TEST:	18-Oct-90		

GRAPHICAL ANALYSIS
(after Hvorslev, 1958)



METHOD:

$$k = \frac{r2 \ln (L/R)}{2 L (t2 - t1)} \ln (H1 / H2)$$

Where:

K = 2.3E-04 cm/sec

k = hydraulic conductivity (cm/sec)	
r = well radius (cm)	2.5
R = bore radius (cm)	8
L = screen length (cm)	335
H1 = head ratio at t1	0.99
t1 = elapsed time at H1	1.60
H2 = head ratio at t2	0.50
t2 = elapsed time at H2	110.00

SLUG TEST DATA FOR WELL GAF-8D

Elapsed Time (minutes)	Recovery (feet)	Elapsed Time (minutes)	Recovery (feet)
0.000	5.89	0.75	4.44
0.003	5.89	0.83	4.31
0.007	5.88	0.92	4.17
0.010	5.87	1.00	4.04
0.013	5.86	1.08	3.92
0.017	5.85	1.17	3.80
0.020	5.85	1.25	3.68
0.023	5.84	1.33	3.57
0.027	5.83	1.42	3.46
0.030	5.82	1.50	3.35
0.033	5.81	1.58	3.25
0.050	5.78	1.67	3.14
0.067	5.74	1.75	3.05
0.083	5.71	1.83	2.95
0.10	5.67	1.92	2.86
0.12	5.63	2.00	2.77
0.13	5.60	2.50	2.28
0.15	5.57	3.00	1.96
0.17	5.53	3.50	1.50
0.18	5.38	4.00	1.21
0.20	5.45	4.50	0.98
0.22	5.32	5.00	0.78
0.23	5.47	5.50	0.63
0.25	5.36	6.00	0.51
0.27	5.34	6.50	0.40
0.28	5.24	7.00	0.33
0.30	5.23	7.50	0.27
0.32	5.24	8.00	0.22
0.33	5.22	8.50	0.18
0.42	5.04	9.00	0.15
0.50	4.88	9.50	0.13
0.58	4.73	10.00	0.10
0.67	4.59		

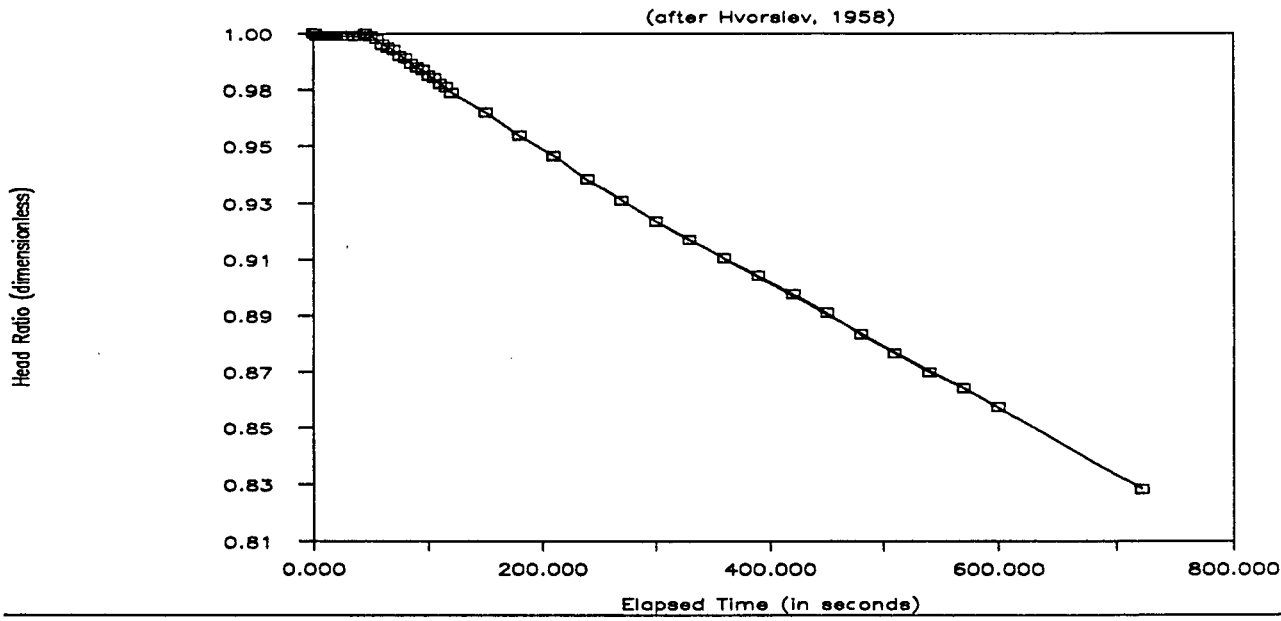
ECKENFELDER INC.

WELL NO: GAF-11D

VARIABLE HEAD HYDRAULIC CONDUCTIVITY TEST

PROJECT NO:	6070	GEOLOGIC UNIT:	Passaic Formation
CLIENT:	GAF Chemicals Corp. Linden, NJ	GEOLOGIC CLASSIFICATION:	Siltstone
TESTED BY:	HBB/DJS		
DATE OF TEST:	18-Oct-90		

GRAPHICAL ANALYSIS
(after Hvorslev, 1958)



METHOD:

$$k = \frac{r2 \ln (L/R)}{2 L (t2 - t1)} \ln (H1 / H2)$$

Where:

K = 9.2E-06 cm/sec

k = hydraulic conductivity (cm/sec)	
r = well radius (cm)	2.5
R = bore radius (cm)	8
L = screen length (cm)	335
H1 = head ratio at t1	0.93
t1 = elapsed time at H1	300.00
H2 = head ratio at t2	0.86
t2 = elapsed time at H2	600.00

SLUG TEST DATA FOR WELL GAF-11D

Elapsed Time (minutes)	Recovery (feet)	Elapsed Time (minutes)	Recovery (feet)
0.000	8.83	1.08	8.78
0.003	8.83	1.17	8.77
0.007	8.83	1.25	8.75
0.010	8.83	1.33	8.74
0.013	8.83	1.42	8.72
0.017	8.83	1.50	8.71
0.020	8.83	1.58	8.70
0.023	8.83	1.67	8.68
0.027	8.83	1.75	8.67
0.030	8.83	1.83	8.65
0.033	8.83	1.92	8.64
0.050	8.82	2.00	8.62
0.067	8.82	2.50	8.55
0.083	8.82	3.00	8.47
0.10	8.82	3.50	8.40
0.12	8.82	4.00	8.32
0.13	8.82	4.50	8.25
0.15	8.82	5.00	8.18
0.17	8.82	5.50	8.12
0.18	8.82	6.00	8.06
0.20	8.82	6.50	8.00
0.22	8.82	7.00	7.94
0.23	8.82	7.50	7.88
0.25	8.82	8.00	7.81
0.27	8.82	8.50	7.75
0.28	8.82	9.00	7.69
0.30	8.82	9.50	7.64
0.32	8.82	10.00	7.58
0.33	8.82	12.00	7.33
0.42	8.82	14.00	7.12
0.50	8.82	16.00	6.89
0.58	8.82	18.00	6.68
0.67	8.82	20.00	6.46
0.75	8.83	22.00	6.24
0.83	8.82	24.00	6.05
0.92	8.81	26.00	5.86
1.00	8.79		

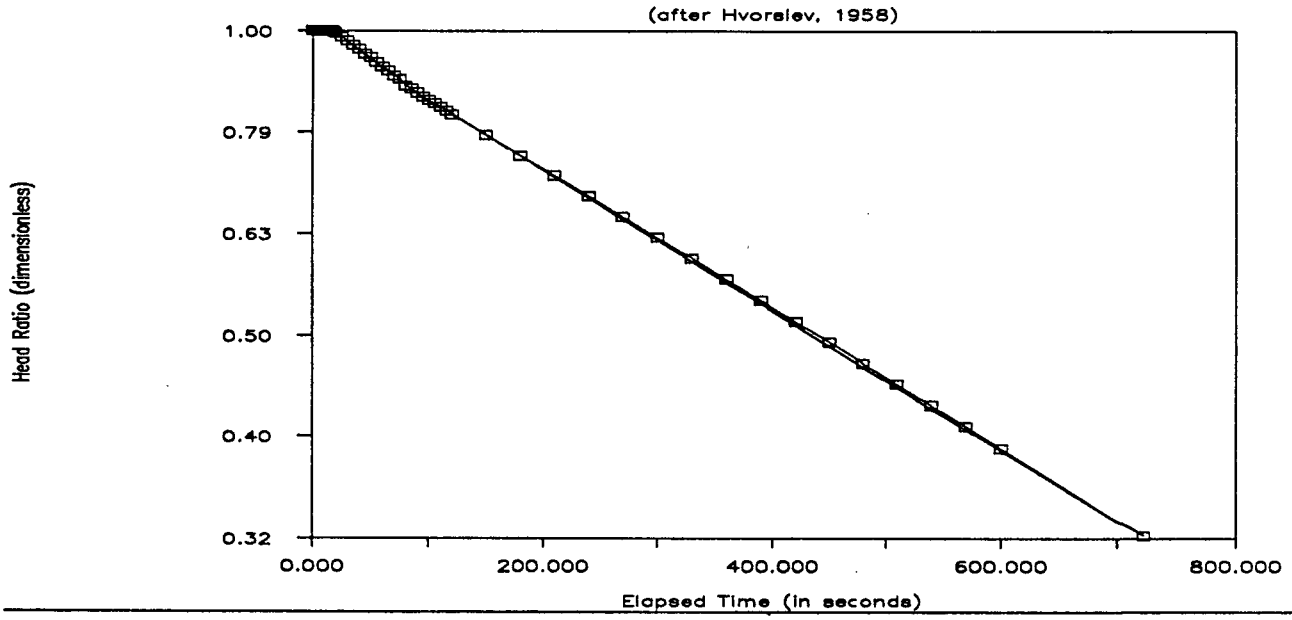
ECKENFELDER INC.

WELL NO: GAF-16D

VARIABLE HEAD HYDRAULIC CONDUCTIVITY TEST

PROJECT NO:	6070	GEOLOGIC UNIT:	Passaic Formation
CLIENT:	GAF Chemicals Corp. Linden, NJ	GEOLOGIC CLASSIFICATION:	Siltstone
TESTED BY:	HBB/DJS		
DATE OF TEST:	18-Oct-90		

GRAPHICAL ANALYSIS
(after Hvorslev, 1958)



METHOD:

$$k = \frac{r2 \ln (L/R)}{2 L (t2 - t1)} \ln (H1 / H2)$$

Where:

K = 5.8E-05 cm/sec

k = hydraulic conductivity (cm/sec)	
r = well radius (cm)	2.5
R = bore radius (cm)	8
L = screen length (cm)	335
H1 = head ratio at t1	0.84
t1 = elapsed time at H1	110.00
H2 = head ratio at t2	0.32
t2 = elapsed time at H2	720.00

SLUG TEST DATA FOR WELL GAF-16D

Elapsed Time (minutes)	Recovery (feet)	Elapsed Time (minutes)	Recovery (feet)
0.000	9.45	1.42	8.28
0.003	9.45	1.50	8.21
0.007	9.45	1.58	8.13
0.010	9.45	1.67	8.07
0.013	9.45	1.75	8.01
0.017	9.45	1.83	7.95
0.020	9.45	1.92	7.88
0.023	9.45	2.00	7.81
0.027	9.45	2.50	7.46
0.030	9.45	3.00	7.12
0.033	9.45	3.50	6.80
0.050	9.45	4.00	6.49
0.067	9.45	4.50	6.19
0.083	9.45	5.00	5.91
0.10	9.44	5.50	5.64
0.12	9.45	6.00	5.38
0.13	9.44	6.50	5.13
0.15	9.44	7.00	4.89
0.17	9.44	7.50	4.67
0.18	9.44	8.00	4.45
0.20	9.44	8.50	4.24
0.22	9.45	9.00	4.04
0.23	9.45	9.50	3.85
0.25	9.45	10.00	3.66
0.27	9.45	12.00	3.01
0.28	9.45	14.00	2.46
0.30	9.44	16.00	2.01
0.32	9.42	18.00	1.62
0.33	9.40	20.00	1.33
0.42	9.32	22.00	1.08
0.50	9.23	24.00	0.89
0.58	9.14	26.00	0.72
0.67	9.06	28.00	0.59
0.75	8.96	30.00	0.48
0.83	8.89	32.00	0.40
0.92	8.79	34.00	0.32
1.00	8.70	36.00	0.26
1.08	8.63	38.00	0.22
1.17	8.53	40.00	0.18
1.25	8.47	42.00	0.14
1.33	8.34		

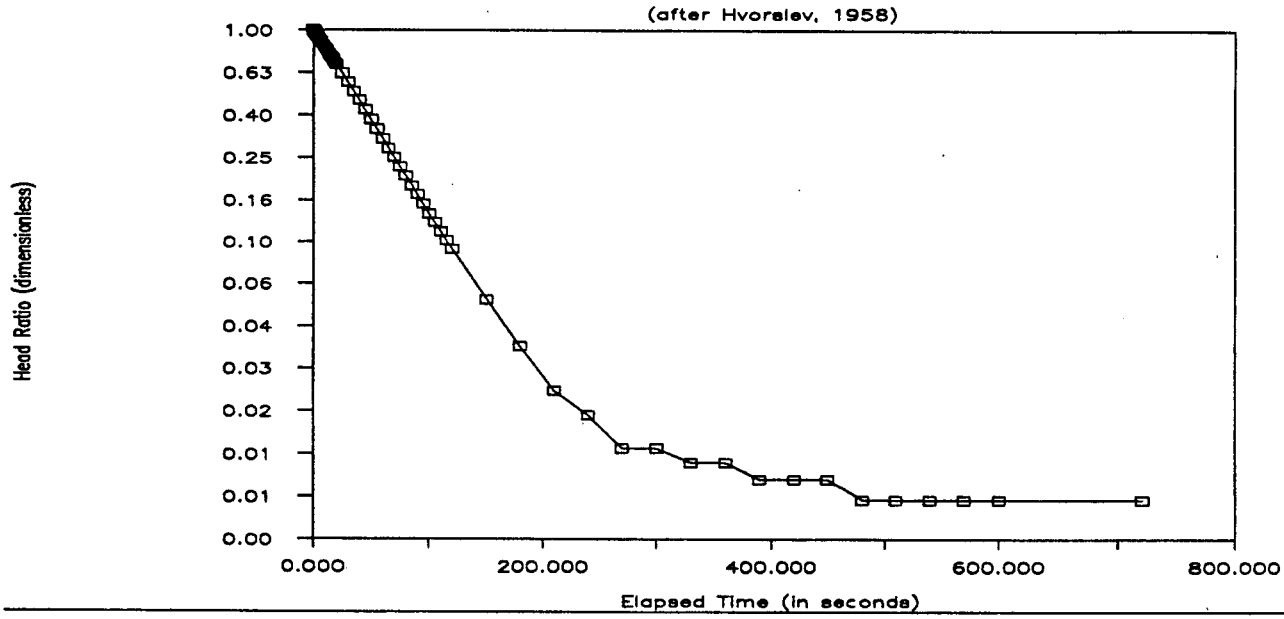
ECKENFELDER INC.

WELL NO: GAF-17D

VARIABLE HEAD HYDRAULIC CONDUCTIVITY TEST

PROJECT NO:	6070	GEOLOGIC UNIT:	Passaic Formation
CLIENT:	GAF Chemicals Corp. Linden, NJ	GEOLOGIC CLASSIFICATION:	Siltstone
TESTED BY:	HBB/DJS		
DATE OF TEST:	18-Oct-90		

GRAPHICAL ANALYSIS
(after Hvorslev, 1958)



METHOD:

$$k = \frac{r2 \ln (L/R)}{2 L (t2 - t1)} \ln (H1 / H2)$$

Where:

K = 7.0E-04 cm/sec

k = hydraulic conductivity (cm/sec)	
r = well radius (cm)	2.5
R = bore radius (cm)	8
L = screen length (cm)	335
H1 = head ratio at t1	0.99
t1 = elapsed time at H1	0.59
H2 = head ratio at t2	0.52
t2 = elapsed time at H2	35.00

SLUG TEST DATA FOR WELL GAF-17D

Elapsed Time (minutes)	Recovery (feet)	Elapsed Time (minutes)	Recovery (feet)
0.000	6.58	0.75	2.78
0.003	6.56	0.83	2.50
0.007	6.56	0.92	2.25
0.010	6.54	1.00	2.03
0.013	6.51	1.08	1.84
0.017	6.48	1.17	1.66
0.020	6.46	1.25	1.50
0.023	6.43	1.33	1.36
0.027	6.41	1.42	1.22
0.030	6.38	1.50	1.11
0.033	6.36	1.58	1.00
0.050	6.24	1.67	0.90
0.067	6.12	1.75	0.82
0.083	6.01	1.83	0.74
0.10	5.90	1.92	0.67
0.12	5.79	2.00	0.61
0.13	5.68	2.50	0.35
0.15	5.58	3.00	0.21
0.17	5.48	3.50	0.13
0.18	5.37	4.00	0.10
0.20	5.27	4.50	0.07
0.22	5.18	5.00	0.07
0.23	5.08	5.50	0.06
0.25	4.98	6.00	0.06
0.27	4.89	6.50	0.05
0.28	4.80	7.00	0.05
0.30	4.71	7.50	0.05
0.32	4.62	8.00	0.04
0.33	4.54	8.50	0.04
0.42	4.12	9.00	0.04
0.50	3.74	9.50	0.04
0.58	3.39	10.00	0.04
0.67	3.09	12.00	0.04

APPENDIX F-2

EXISTING DATA

AWARE, INC.

IN SITU VARIABLE HEAD
HYDRAULIC CONDUCTIVITY TEST

PIEZOMETER NO. W-4
TEST NO. 1

PROJECT NO: 6106

CLIENT: GAF

GEOLOGIC UNIT:

SOIL CLASSIFICATION: Till/ Marine tidal marsh

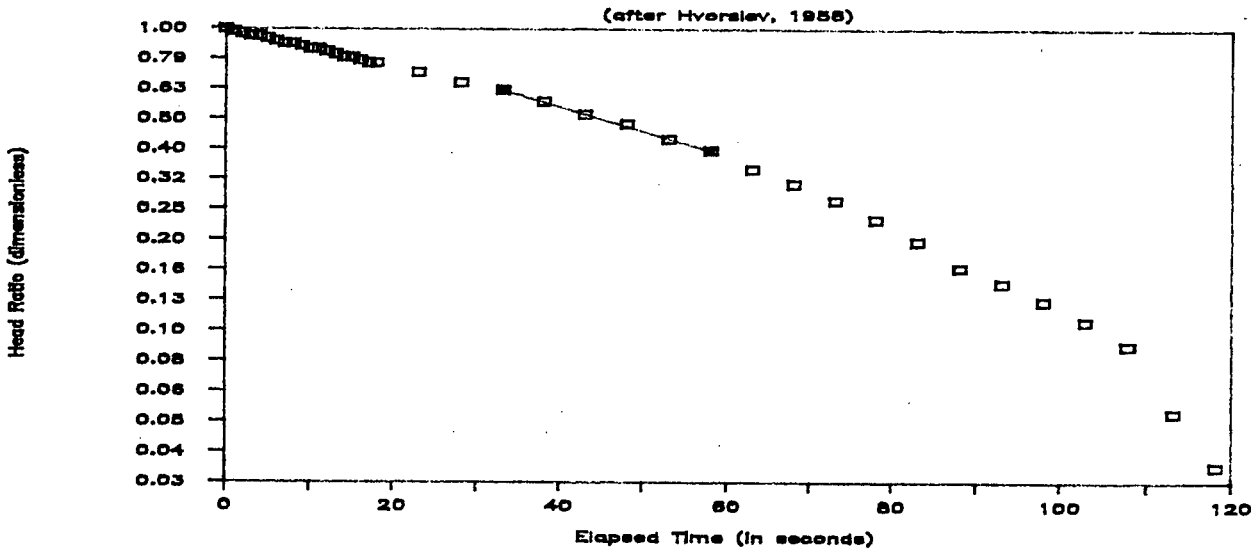
TESTED BY: CAM

DATE OF TEST: August 9, 1988

TEST DATA (PARTIAL LIST)

ELAPSED TIME	HEAD RATIO
0.0	1.000
2.0	0.964
4.0	0.946
6.0	0.911
8.0	0.893
10.0	0.857
12.0	0.839
14.0	0.804
16.0	0.786
18.0	0.768
28.0	0.661
38.0	0.571
48.0	0.482
58.0	0.393

GRAPHICAL ANALYSIS
(after Hvorslev, 1958)



METHOD:

$$k = \frac{r^2}{2L(t_2 - t_1)} \ln(L/R) \ln(H_1/H_2)$$

k = hydraulic conductivity in cm/sec

k = 6.5E-04 cm/sec

r = well radius in cm 2.54
R = bore radius in cm 10.16
L = effective length in cm 320.04

H1 = head ratio at t1 0.625
t1 = elapsed time at H1 33.0 sec
H2 = head ratio at t2 0.393
t2 = elapsed time at H2 58.0 sec

AWARE, INC.

IN SITU VARIABLE HEAD
HYDRAULIC CONDUCTIVITY TEST

PIEZOMETER NO. W-5
TEST NO. 1

PROJECT NO: 6106

CLIENT: GAF

GEOLOGIC UNIT:

SOIL CLASSIFICATION: Fill

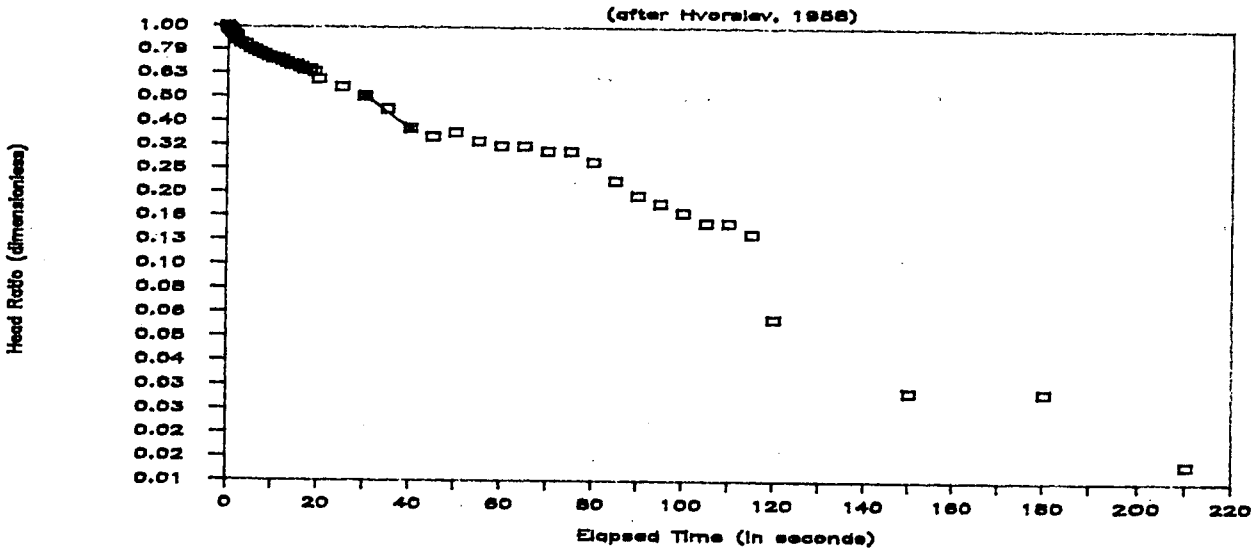
TESTED BY: CAM

DATE OF TEST: August 9, 1988

TEST DATA (PARTIAL LIST)

ELAPSED TIME	HEAD RATIO
0.0	1.000
0.6	0.970
1.2	0.940
1.8	0.910
4.0	0.836
7.0	0.776
10.0	0.731
13.0	0.701
16.0	0.672
19.0	0.642
30.0	0.507
45.0	0.343
60.0	0.313
75.0	0.299

GRAPHICAL ANALYSIS
(after Hvorslev, 1958)



METHOD:

$$k = \frac{r^2}{2L(t_2 - t_1)} \ln(L/R) \ln(H_1/H_2)$$

k = hydraulic conductivity in cm/sec — k = 9.4E-04 cm/sec

r = well radius in cm 2.54
R = bore radius in cm 10.16
L = effective length in cm 381

H1 = head ratio at t1 0.507
t1 = elapsed time at H1 30.0 sec
H2 = head ratio at t2 0.373
t2 = elapsed time at H2 40.0 sec

AWARE, INC.

IN SITU VARIABLE HEAD
HYDRAULIC CONDUCTIVITY TEST

PIEZOMETER NO. W-6
TEST NO. 1

PROJECT NO: 6106

CLIENT: GAF

GEOLOGIC UNIT:

SOIL CLASSIFICATION: Fill

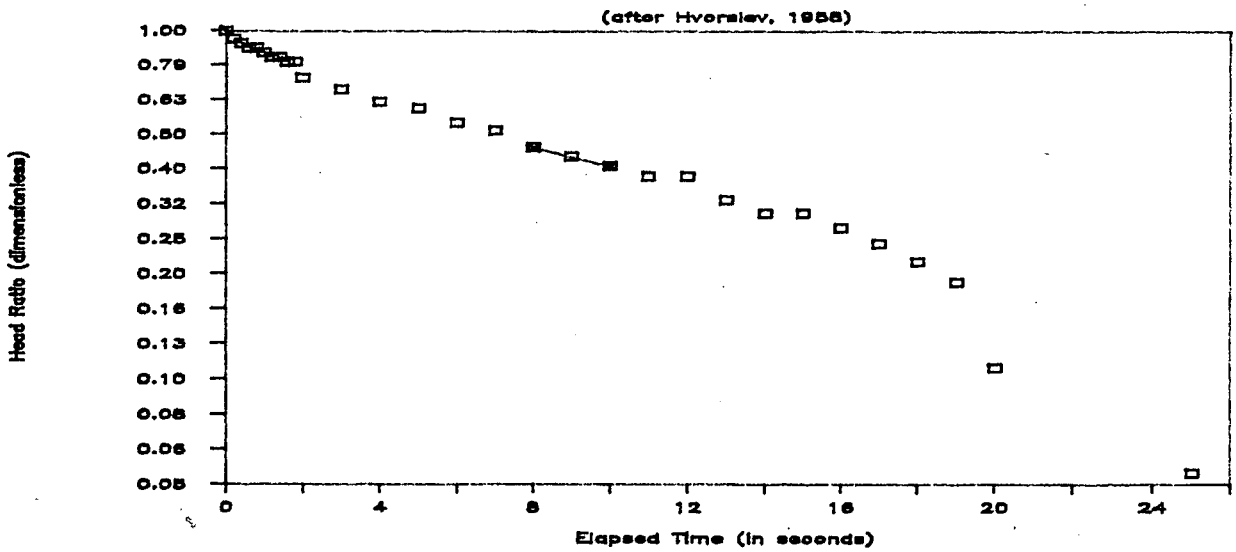
TESTED BY: CAM

DATE OF TEST: August 9, 1988

TEST DATA (PARTIAL LIST)

ELAPSED TIME	HEAD RATIO
0.0	1.000
0.4	0.919
0.8	0.892
1.2	0.838
1.6	0.811
2.0	0.730
4.0	0.622
6.0	0.541
8.0	0.459
10.0	0.405
12.0	0.378
14.0	0.297
16.0	0.270
18.0	0.216

GRAPHICAL ANALYSIS
(after Hvorslev, 1988)



METHOD:

$$k = \frac{r^2}{2L(t_2 - t_1)} \ln(L/R) \ln(H_1/H_2)$$

k = hydraulic conductivity in cm/sec

k = 2.2E-03 cm/sec

r = well radius	in cm	2.54
R = bore radius	in cm	10.16
L = effective length	in cm	304.8

H1 = head ratio at t1		0.459
t1 = elapsed time at H1		8.0 sec
H2 = head ratio at t2		0.405
t2 = elapsed time at H2		10.0 sec

AWARE, INC.

IN SITU VARIABLE HEAD
HYDRAULIC CONDUCTIVITY TEST

PIEZOMETER NO. GAF-7S
TEST NO. 1

PROJECT NO: 6106

CLIENT: GAF-Linden

GEOLOGIC UNIT: Fill/Qtm

SOIL CLASSIFICATION: Sand

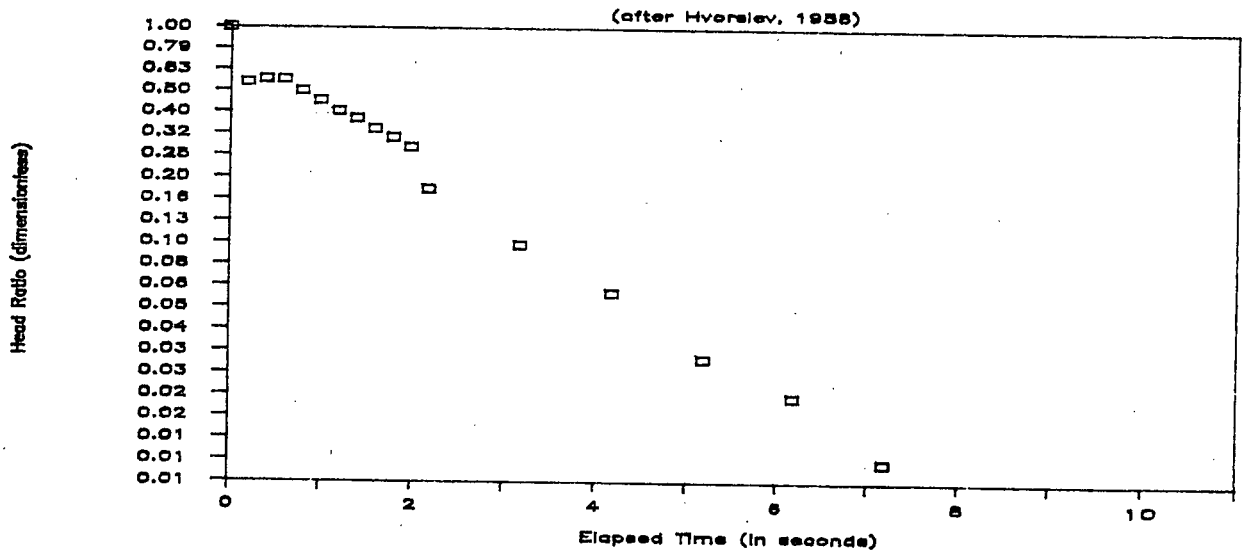
TESTED BY: MJS

DATE OF TEST: May 10, 1988

TEST DATA (PARTIAL LIST)

ELAPSED TIME	HEAD RATIO
0.0	1.000
0.2	0.549
0.4	0.569
0.6	0.569
0.8	0.500
1.0	0.451
1.2	0.402
1.4	0.373
1.6	0.333
1.8	0.304
2.0	0.275
2.2	0.176
3.2	0.098
4.2	0.059

GRAPHICAL ANALYSIS
(after Hvorslev, 1988)



METHOD:

$$k = \frac{r^2}{2L(t_2 - t_1)} \ln(L/R) \ln(H_1/H_2)$$

k = hydraulic conductivity in cm/sec

k = 9.7E-02 cm/sec

r = well radius in cm 5.08
R = bore radius in cm 10.16
L = effective length in cm 365.76

H1 = head ratio at t1 1.000
t1 = elapsed time at H1 0.0 sec
H2 = head ratio at t2 0.402
t2 = elapsed time at H2 1.2 sec

AWARE, INC.

IN SITU VARIABLE HEAD
HYDRAULIC CONDUCTIVITY TEST

PIEZOMETER NO. GAF-7S
TEST NO. 2

PROJECT NO: 6106

CLIENT: GAF-Linden

GEOLOGIC UNIT: Fill/Qtm

SOIL CLASSIFICATION: Sand

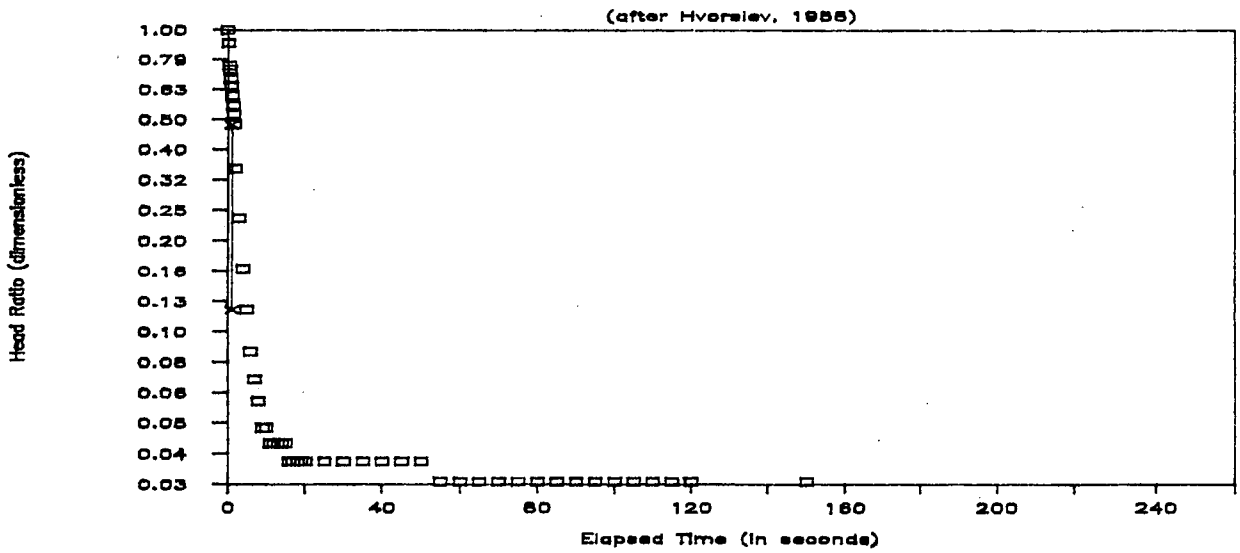
TESTED BY: MJS

DATE OF TEST: May 11, 1988

TEST DATA (PARTIAL LIST)

ELAPSED TIME	HEAD RATIO
0.0	1.000
0.6	0.737
1.2	0.602
1.8	0.484
4.0	0.161
7.0	0.070
10.0	0.048
13.0	0.043
16.0	0.038
19.0	0.038
30.0	0.038
45.0	0.038
60.0	0.032
75.0	0.032

GRAPHICAL ANALYSIS
(after Hvorslev, 1956)



METHOD:

$$k = \frac{r^2}{2L(t_2 - t_1)} \ln(L/R) \ln(H_1/H_2)$$

k = hydraulic conductivity in cm/sec k = 5.6E-02 cm/sec

r = well radius in cm 5.08
R = bore radius in cm 10.16
L = effective length in cm 365.76

H1 = head ratio at t1 0.484
t1 = elapsed time at H1 1.8 sec
H2 = head ratio at t2 0.118
t2 = elapsed time at H2 5.0 sec

AWARE, INC.

IN SITU VARIABLE HEAD
HYDRAULIC CONDUCTIVITY TEST

PIEZOMETER NO. GAF-9S
TEST NO. 1

PROJECT NO: 6106

CLIENT: GAF-Linden

GEOLOGIC UNIT: Fill/Qtm

SOIL CLASSIFICATION: Sand

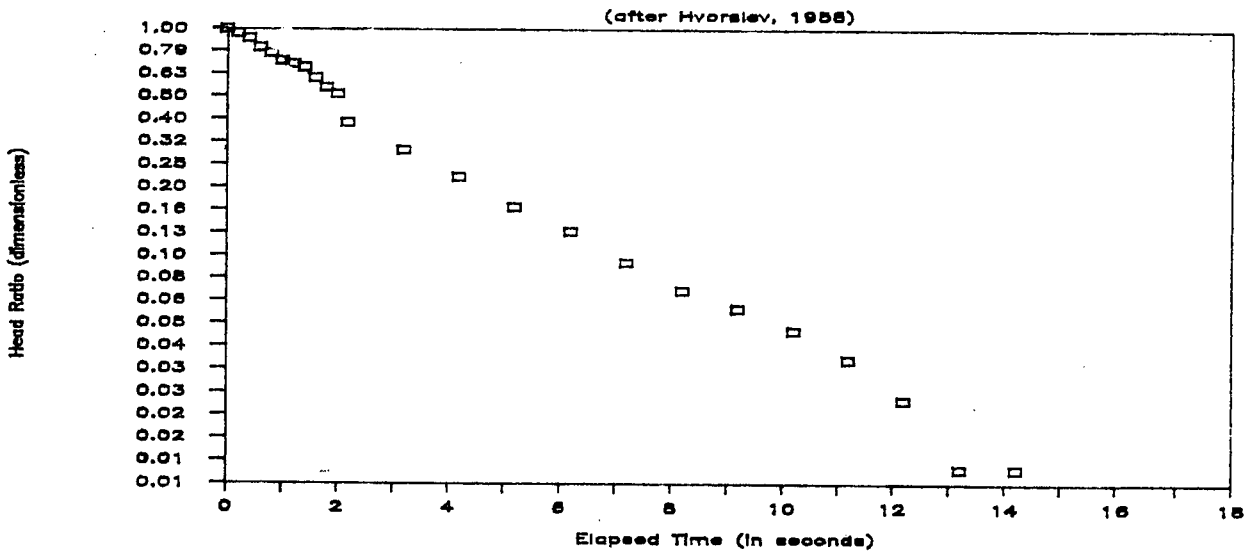
TESTED BY: MJS

DATE OF TEST: May 17,1988

TEST DATA (PARTIAL LIST)

ELAPSED TIME	HEAD RATIO
0.0	1.000
0.2	0.953
0.4	0.907
0.6	0.826
0.8	0.779
1.0	0.721
1.2	0.698
1.4	0.674
1.6	0.605
1.8	0.547
2.0	0.512
2.2	0.384
3.2	0.291
4.2	0.221

GRAPHICAL ANALYSIS
(after Hvorslev, 1958)



METHOD:

$$k = \frac{r^2}{2L(t_2 - t_1)} \ln(L/R) \ln(H_1/H_2)$$

k = hydraulic conductivity in cm/sec — k = 5.2E-02 cm/sec

r = well radius in cm 5.08
R = bore radius in cm 10.16
L = effective length in cm 365.76

H1 = head ratio at t1 0.907
t1 = elapsed time at H1 0.4 sec
H2 = head ratio at t2 0.291
t2 = elapsed time at H2 3.2 sec

AWARE, INC.

IN SITU VARIABLE HEAD
HYDRAULIC CONDUCTIVITY TEST

PIEZOMETER NO. GAF-10S
TEST NO. 1

PROJECT NO:

CLIENT:

GEOLOGIC UNIT: Fill/Qtm

SOIL CLASSIFICATION: Soil

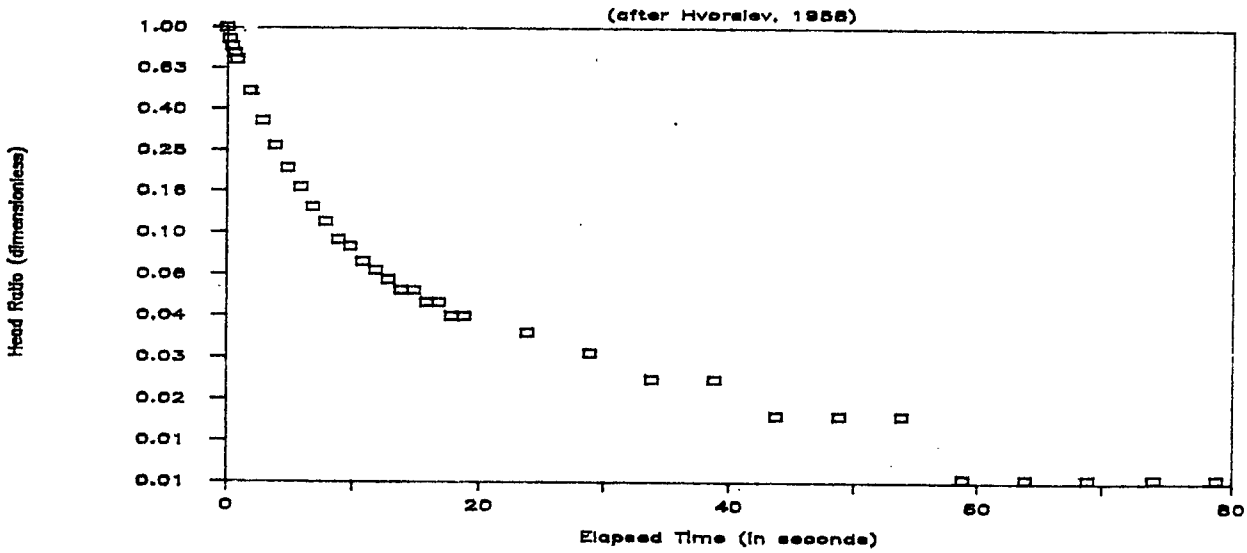
TESTED BY:

DATE OF TEST: May 18,1988

TEST DATA (PARTIAL LIST)

ELAPSED TIME	HEAD RATIO
0.0	1.000
0.4	0.808
0.8	0.695
2.8	0.351
4.8	0.205
6.8	0.132
8.8	0.093
10.8	0.073
12.8	0.060
14.8	0.053
16.8	0.046
18.8	0.040
28.8	0.026
38.8	0.020

GRAPHICAL ANALYSIS
(after Hvorslev, 1958)



METHOD:

$$k = \frac{r^2}{2L(t_2 - t_1)} \ln(L/R) \ln(H_1/H_2)$$

k = hydraulic conductivity in cm/sec — k = 5.0E-02 cm/sec

r = well radius in cm 5.08
R = bore radius in cm 10.16
L = effective length in cm 365.76

H1 = head ratio at t1 1.000
t1 = elapsed time at H1 0.0 sec
H2 = head ratio at t2 0.490
t2 = elapsed time at H2 1.8 sec

AWARE, INC.

IN SITU VARIABLE HEAD
HYDRAULIC CONDUCTIVITY TEST

PIEZOMETER NO. 13S
TEST NO. 1

PROJECT NO: 6106

CLIENT: GAF-Linden

GEOLOGIC UNIT: FILL/QTM

SOIL CLASSIFICATION: Sand

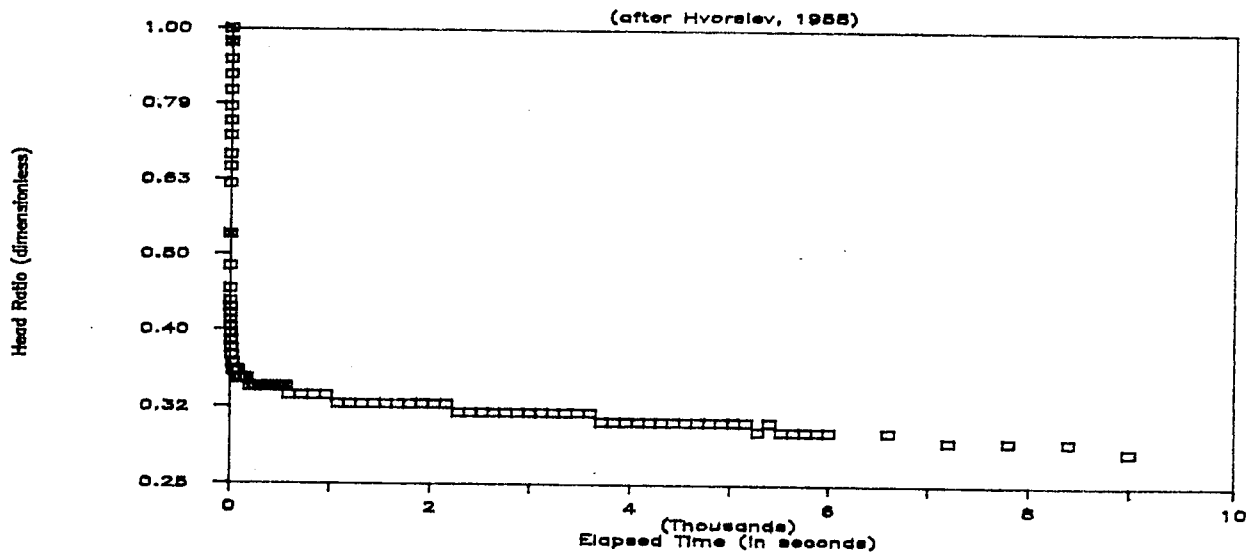
TESTED BY: MJS

DATE OF TEST: MAY 10, 1988

TEST DATA (PARTIAL LIST)

ELAPSED TIME	HEAD RATIO
0.0	1.000
1.6	0.680
7.2	0.418
15.2	0.385
35.2	0.361
75.2	0.352
115.2	0.344
330.2	0.336
570.2	0.336
1440.2	0.320
2400.2	0.311
3360.2	0.311
4320.2	0.303
5280.2	0.295

GRAPHICAL ANALYSIS
(after Hvorslev, 1988)



METHOD:

$$k = \frac{r^2}{2L(t_2 - t_1)} \ln(L/R) \ln(H_1/H_2)$$

k = hydraulic conductivity in cm/sec

k = 3.8E-02 cm/sec

r = well radius in cm 5.08
R = bore radius in cm 10.16
L = effective length in cm 365.76

H1 = head ratio at t1 0.959
t1 = elapsed time at H1 0.2 sec
H2 = head ratio at t2 0.533
t2 = elapsed time at H2 2.2 sec

AWARE, INC.

IN SITU VARIABLE HEAD
HYDRAULIC CONDUCTIVITY TEST

PIEZOMETER NO. GAF-14S
TEST NO. 1

PROJECT NO: GAF-Linden

CLIENT: GAF Corp.

GEOLOGIC UNIT: Fill/Qtm

SOIL CLASSIFICATION:

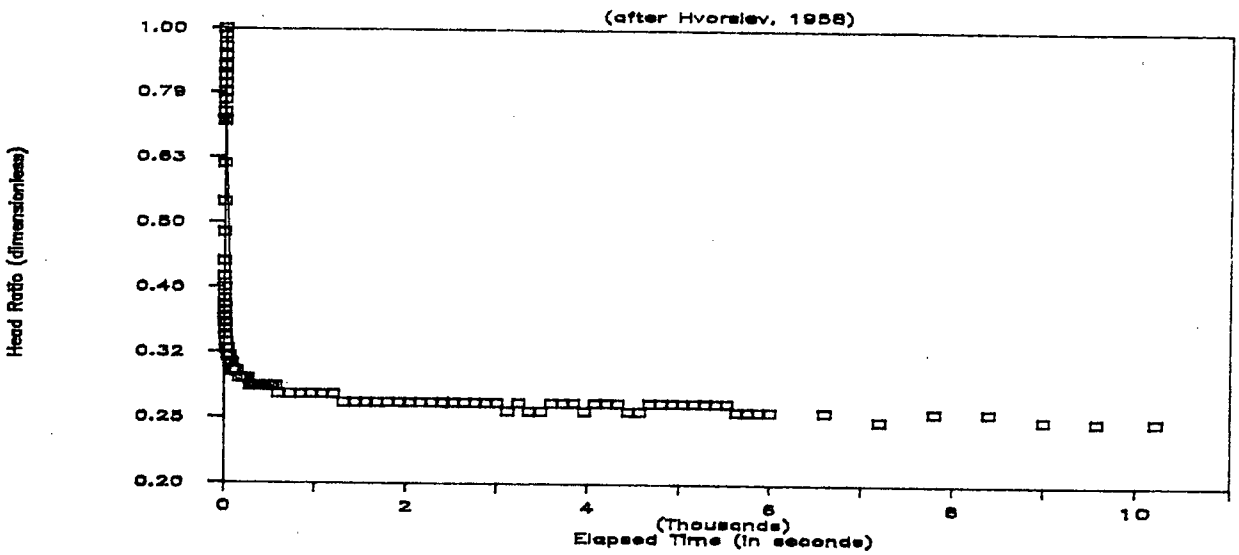
TESTED BY: MJS

DATE OF TEST: May 10, 1988

TEST DATA (PARTIAL LIST)

ELAPSED TIME	HEAD RATIO
0.0	1.000
1.6	0.773
7.2	0.398
15.2	0.352
35.2	0.320
75.2	0.305
115.2	0.297
330.2	0.281
570.2	0.281
1440.2	0.266
2400.2	0.266
3360.2	0.258
4320.2	0.266
5280.2	0.266

GRAPHICAL ANALYSIS
(after Hvorslev, 1958)



METHOD:

$$k = \frac{r^2}{2L(t_2 - t_1)} \ln(L/R) \ln(H_1/H_2)$$

k = hydraulic conductivity in cm/sec — k = 1.2E-03 cm/sec

r = well radius in cm 5.08
R = bore radius in cm 10.16
L = effective length in cm 365.76

H1 = head ratio at t1 0.719
t1 = elapsed time at H1 2.0 sec
H2 = head ratio at t2 0.305
t2 = elapsed time at H2 95.2 sec

AWARE, INC.

IN SITU VARIABLE HEAD
HYDRAULIC CONDUCTIVITY TEST

PIEZOMETER NO. GAF-7D
TEST NO. 1

PROJECT NO: 6106

CLIENT: GAF

GEOLOGIC UNIT: Brunswick Shale

SOIL CLASSIFICATION: Bedrock

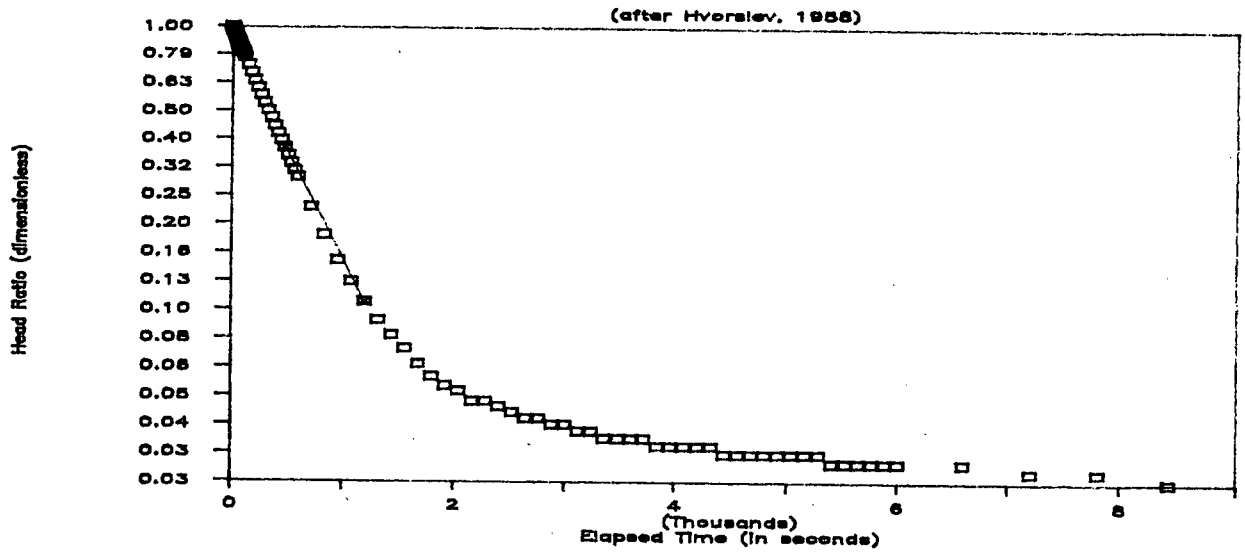
TESTED BY: CAM

DATE OF TEST: AUGUST 9, 1988

TEST DATA (PARTIAL LIST)

ELAPSED TIME	HEAD RATIO
0.0	1.000
2.2	0.996
9.2	0.979
16.2	0.964
39.2	0.918
74.2	0.853
109.2	0.794
269.2	0.571
479.2	0.372
959.2	0.149
1799.2	0.059
2639.2	0.042
3479.2	0.036
4319.2	0.034

GRAPHICAL ANALYSIS
(after Hvorslev, 1958)



METHOD:

$$k = \frac{r^2}{2L(t_2 - t_1)} \ln(L/R) \ln(H_1/H_2)$$

k = hydraulic conductivity in cm/sec — k = 2.4E-04 cm/sec

r = well radius in cm 5.08
R = bore radius in cm 7.62
L = effective length in cm 365.76

H1 = head ratio at t1 0.372
t1 = elapsed time at H1 479.2 sec
H2 = head ratio at t2 0.107
t2 = elapsed time at H2 1199.2 sec

AWARE, INC.

IN SITU VARIABLE HEAD
HYDRAULIC CONDUCTIVITY TEST

PIEZOMETER NO. GAF-9D
TEST NO. 1

PROJECT NO: 6106

CLIENT: GAF

GEOLOGIC UNIT: Brunswick Shale

SOIL CLASSIFICATION: Bedrock

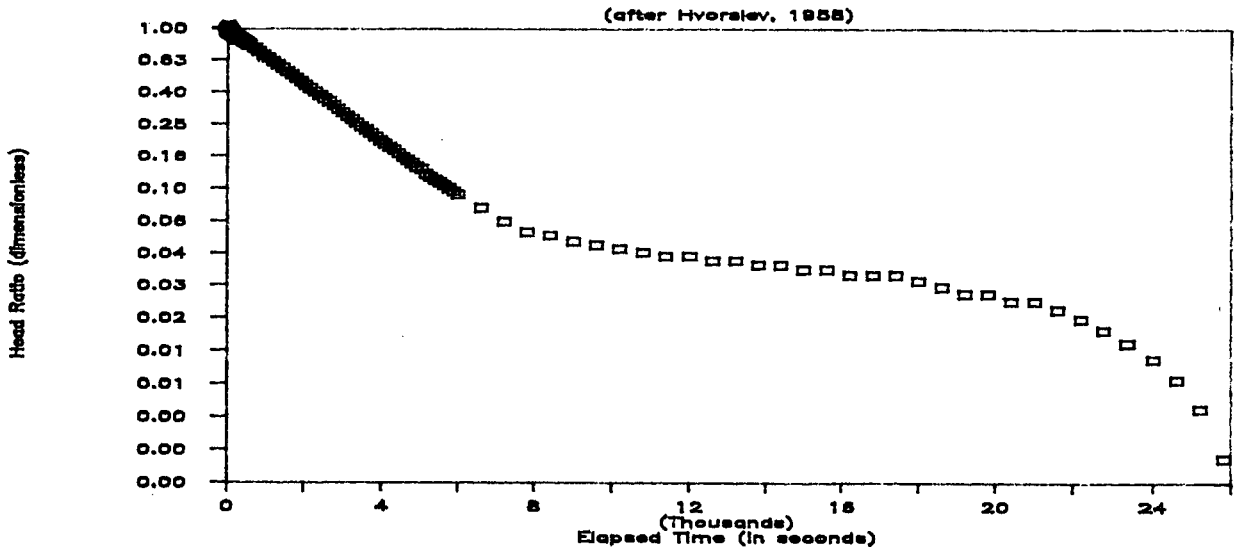
TESTED BY: CAM

DATE OF TEST: August 8, 1988

TEST DATA (PARTIAL LIST)

ELAPSED TIME	HEAD RATIO
0.0	1.000
9.0	0.993
18.0	0.989
63.0	0.971
108.1	0.955
328.1	0.879
598.1	0.791
1678.1	0.516
2758.1	0.332
3838.1	0.211
4918.1	0.137
5998.1	0.092
11398.1	0.038
16798.1	0.029

GRAPHICAL ANALYSIS
(after Hvorslev, 1958)



METHOD:

$$k = \frac{r^2}{2L(t_2 - t_1)} \ln(L/R) \ln(H_1/H_2)$$

k = hydraulic conductivity in cm/sec — k = 5.4E-05 cm/sec

r = well radius	in cm	5.08
R = bore radius	in cm	7.62
L = effective length	in cm	365.76

H1 = head ratio at t1	0.383
t1 = elapsed time at H1	2398.1 sec
H2 = head ratio at t2	0.101
t2 = elapsed time at H2	5758.1 sec

AWARE, INC.

IN SITU VARIABLE HEAD
HYDRAULIC CONDUCTIVITY TEST

PIEZOMETER NO. GAF-10D
TEST NO. 1

PROJECT NO: 6106

CLIENT: GAF

GEOLOGIC UNIT: Brunswick Shale

SOIL CLASSIFICATION: Bedrock

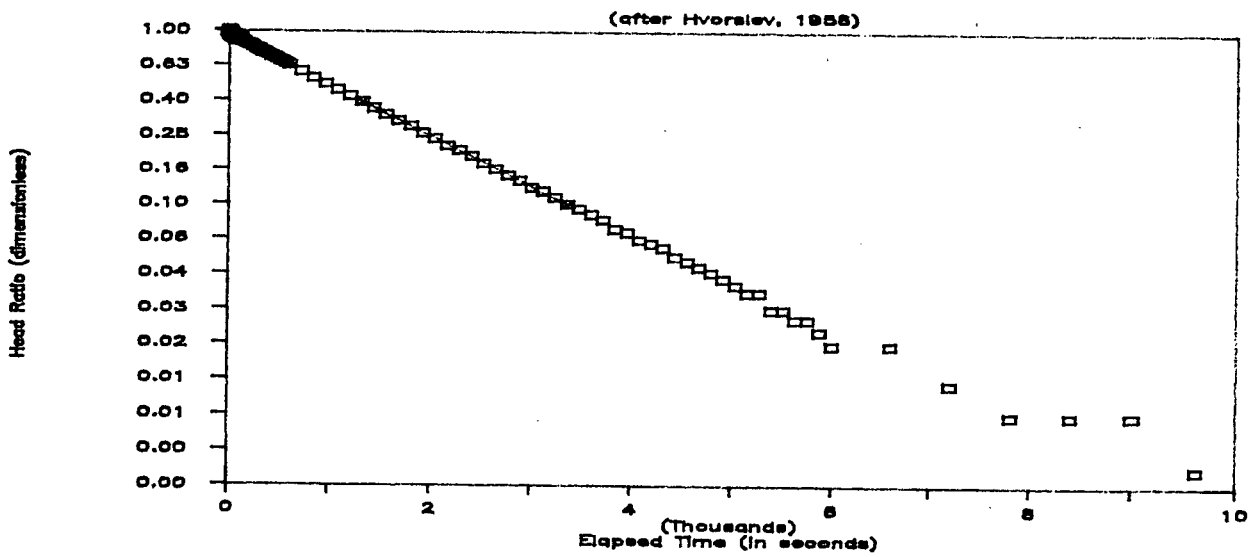
TESTED BY: CAM

DATE OF TEST: August 6, 1988

TEST DATA (PARTIAL LIST)

ELAPSED TIME	HEAD RATIO
0.0	1.000
4.6	0.969
11.6	0.963
18.6	0.956
53.6	0.928
88.6	0.906
148.6	0.869
358.6	0.753
568.6	0.653
1318.6	0.391
2158.6	0.219
2998.6	0.125
3838.6	0.072
4678.6	0.044

GRAPHICAL ANALYSIS



METHOD:

$$k = \frac{r^2}{2L(t_2 - t_1)} \ln(L/R) \ln(H_1/H_2)$$

k = hydraulic conductivity in cm/sec

k = 9.1E-05 cm/sec

r = well radius	in cm	5.08
R = bore radius	in cm	7.62
L = effective length	in cm	365.76

H1 = head ratio at t1	0.391
t1 = elapsed time at H1	1318.6 sec
H2 = head ratio at t2	0.100
t2 = elapsed time at H2	3358.6 sec

AWARE, INC.

IN SITU VARIABLE HEAD
HYDRAULIC CONDUCTIVITY TEST

PIEZOMETER NO. GAF-13D
TEST NO. 1

PROJECT NO: 6106

CLIENT: GAF

GEOLOGIC UNIT: Brunswick Shale

SOIL CLASSIFICATION: Bedrock

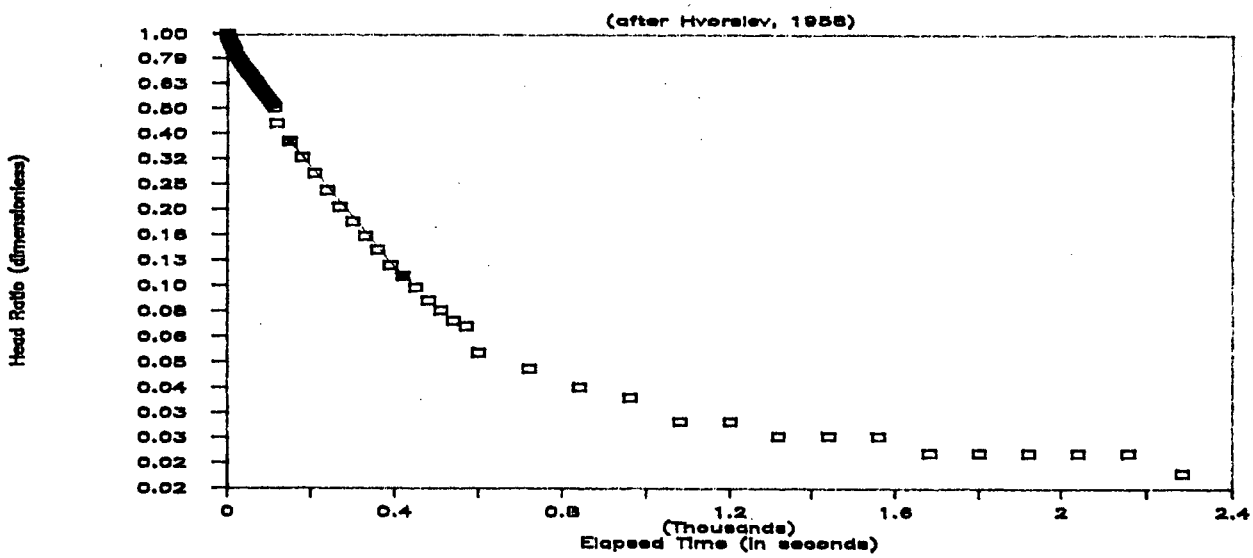
TESTED BY: CAM

DATE OF TEST: August 8, 1988

TEST DATA (PARTIAL LIST)

ELAPSED TIME	HEAD RATIO
0.0	1.000
1.0	0.989
3.6	0.949
8.6	0.912
13.6	0.883
18.6	0.854
39.6	0.741
64.6	0.653
89.6	0.577
114.6	0.507
239.6	0.237
389.6	0.120
539.6	0.073
959.6	0.036

GRAPHICAL ANALYSIS
(after Hvorslev, 1958)



METHOD:

$$k = \frac{r^2}{2L(t_2 - t_1)} \ln(L/R) \ln(H_1/H_2)$$

k = hydraulic conductivity in cm/sec

k = 6.2E-04 cm/sec

r = well radius in cm 5.08
R = bore radius in cm 7.62
L = effective length in cm 365.76

H1 = head ratio at t1 0.372
t1 = elapsed time at H1 149.6 sec
H2 = head ratio at t2 0.109
t2 = elapsed time at H2 419.6 sec

AWARE, INC.

IN SITU VARIABLE HEAD
HYDRAULIC CONDUCTIVITY TEST

PIEZOMETER NO. GAF-14D
TEST NO. 1

PROJECT NO: 6106

CLIENT: GAF

GEOLOGIC UNIT: Brunswick Shale

SOIL CLASSIFICATION: Bedrock

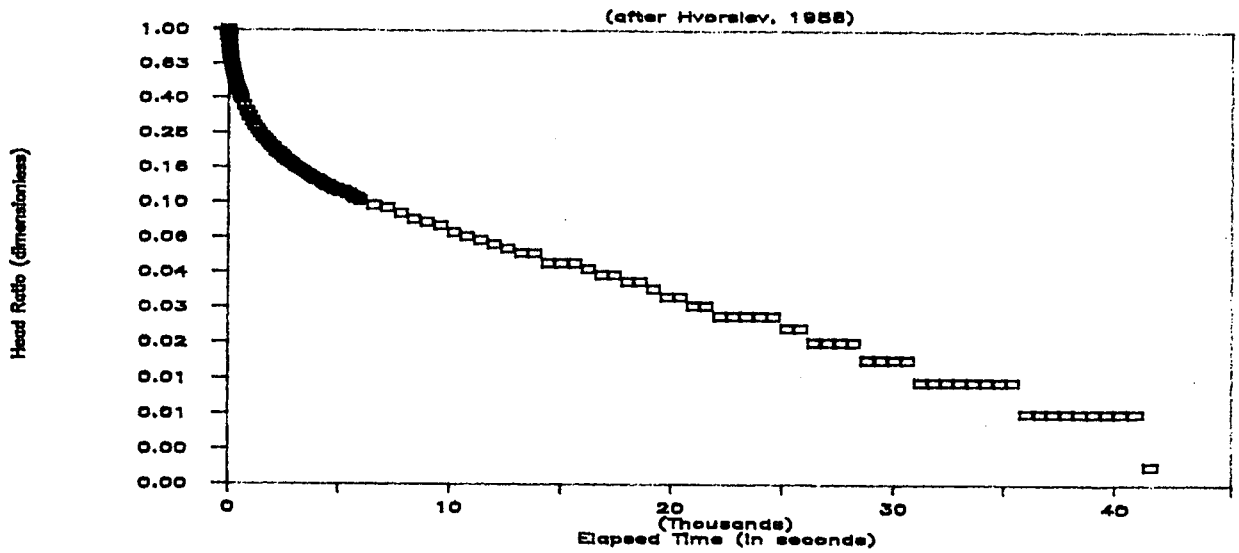
TESTED BY: CAM

DATE OF TEST: August 8, 1988

TEST DATA (PARTIAL LIST)

ELAPSED TIME	HEAD RATIO
0.0	1.000
11.0	0.929
38.0	0.832
93.1	0.710
298.1	0.519
718.1	0.361
2038.1	0.206
3358.1	0.152
4678.1	0.123
5998.1	0.103
12598.1	0.055
19198.1	0.032
25798.1	0.019
32398.1	0.010

GRAPHICAL ANALYSIS
(after Hvorslev, 1958)



METHOD:

$$k = \frac{r^2}{2L(t_2 - t_1)} \ln(L/R) \ln(H_1/H_2)$$

k = hydraulic conductivity in cm/sec — k = 1.2E-04 cm/sec

r = well radius in cm 5.08
R = bore radius in cm 7.62
L = effective length in cm 365.76

H1 = head ratio at t1 0.606
t1 = elapsed time at H1 178.1 sec
H2 = head ratio at t2 0.313
t2 = elapsed time at H2 958.1 sec

AWARE, INC.

VARIABLE HEAD
PERMEABILITY TEST

PIEZOMETER NO. GAF-15D

PROJECT NO: 6249

CLIENT: GAF

GEOLOGIC UNIT: Brunswick Formation

SOIL CLASSIFICATION: Bedrock Siltstone

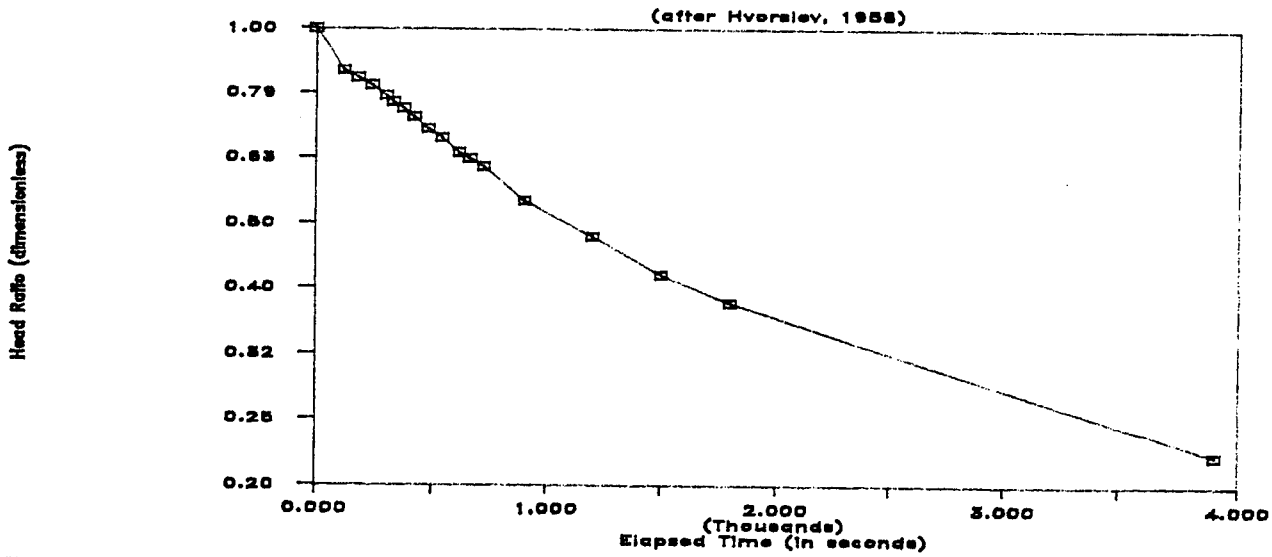
TESTED BY: CAM

DATE OF TEST: March 3, 1989

TEST DATA (PARTIAL LIST)

ELAPSED TIME	HEAD RATIO
0.0	1.00
120.0	0.86
180.0	0.84
240.0	0.82
300.0	0.79
330.0	0.77

GRAPHICAL ANALYSIS
(after Hvorslev, 1958)



METHOD:

$$k = \frac{r^2}{2L(t_2 - t_1)} \ln(L/R) \ln(H_1/H_2)$$

Where:

K = hydraulic cond	(cm/sec)		K =	8.1E-05	cm/sec
r = well radius	(cm)	5.1			
R = bore radius	(cm)	10			
L = effect. length	(cm)	396			

H1 = head ratio at t1	1.00
t1 = elapsed time at H1	0.00
H2 = head ratio at t2	0.61
t2 = elapsed time at H2	720.00