CWM CHEMICAL SERVICES, INC.

CHICAGO INCINERATOR FACILITY
CHICAGO, ILLINOIS

FINAL
RCRA FACILITY INVESTIGATION REPORT

APPENDICES A - M

VOLUME 2 OF 5
FEBRUARY 1995

CWM CHEMICAL SERVICES, INC.
CHICAGO INCINERATOR FACILITY
FINAL RCRA FACILITY INVESTIGATION REPORT
February 1995

TABLE OF CONTENTS

VOLUME I	Part 1	Facility Investigation
	Part 2	Evaluation of Corrective Measure Technologies
	Part 3	Investigation Analysis
VOLUME II	Appendix A:	Boring Logs, Phase I
	Appendix B:	Boring Logs, Phase II
	Appendix C:	Well Logs Within One Mile Radius
	Appendix D:	Well Construction, Phase I
	Appendix E:	Well Construction, Phase II
	Appendix F:	Slug Test Results for RFI Wells
	Appendix G:	Bail Recovery/Slug Tests for Temporary Piezometers
	Appendix H:	Lab Permeability Results
	Appendix I:	Soil Lab Data
	Appendix J:	ISGS Methane Gas Report
	Appendix K:	Laboratory Reports
	Appendix L:	Isoconcentration Maps
	Appendix M:	MODFLOW Data
VOLUME III	Appendix N:	Data Validation Reports
	Appendix O:	RFI Baseline Human Health Risk Assessment
	Appendix P:	Final Ecological Risk Assessment
VOLUME IV	Appendix Q:	Sampling for Air Emissions from Ground Surfaces
VOLUME V	Appendix R:	Responses to USEPA Comments

RECEIVED
FEB 28 1995
OFFICE OF RCRA
Waste Management Divis

Manufactured By EconoPrint, Inc., Madison, WI

Printed On Recycled Paper

FEB 28 1995

APPENDIX A
BORING LOGS, PHASE I

RECEIVED
FEB 28 1995
OFFICE OF RCRA
Waste Management Division

SOIL BOREHOLE LOG

SITE NAME AND LOCATION CWM Incinerator Chicago, IL	DRILLING METHOD: Sediment Sample	BORING NO. S-1
		SHEET 1 OF 1
	SAMPLING METHOD: Long Arm Sampler Core - Sludge Judge	DRILLING START: TIME 0930, DATE 10/12/89 FINISH: TIME 0950, DATE 10/12/89
	WATER LEVEL / TIME / DATE / CASING DEPTH	
DATUM ELEVATION		
DRILL RIG	SURFACE CONDITIONS Water Depth = 2'9"	
ANGLE BEARING		
SAMPLE HAMMER TORQUE FT.-LBS		

ATEC

DRILLING CONTR

DEPTH IN FEET (ELEVATION)	BLOWS/ 6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
1			Dark gray to brown silty CLAY to clayey SILT; soft; no odor (ML-CL)								
2											
3											
4											
5											
6											
7			Silty SAND; some gravel (SM)								
8			Gray CLAY; hard; plastic to very plastic; organic								
9											
10			Core recovery = 10 inches								

LOGGED BY Tina Hartin

DATE 10/12/89

CHK'D BY J. Sicinar

Printed on recycled paper.

SOIL BOREHOLE LOG

SITE NAME AND LOCATION
CWM Incinerator
Chicago, IL

DRILLING METHOD: Sediment Sample

SAMPLING METHOD: Long Arm Sampler / Core - Sludge Judge

BORING NO. S-2

SHEET 1 OF 1

					DRILLING START	DRILLING FINISH
WATER LEVEL						
TIME					0950	1015
DATE					10/12/89	10/12/89
CASING DEPTH						

DATUM ELEVATION

DRILL RIG

ANGLE BEARING

SAMPLE HAMMER TORQUE FT.-LBS

SURFACE CONDITIONS

ATEC

DRILLING CONTR

DEPTH IN FEET (ELEVATION)	BLOWS/ 6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
5			Gray to brown silty CLAY; some sand; soft (CL-ML)								
10			Dark brown silty SAND (SM)								
			Gray CLAY; hard; plastic (CL)								
15			Core recovery = 14 inches								

LOGGED BY Tina Harin

DATE 10/12/89

CHK'D BY J. Steiner

DATE

Printed on recycled paper

SOIL BOREHOLE LOG

SITE NAME AND LOCATION CWM Incinerator Chicago, IL	DRILLING METHOD: Sediment Sample	BORING NO. S-3
		SHEET 1 OF 1
	SAMPLING METHOD: Long Arm Sampler Core - Sludge Judge	DRILLING START: TIME 1115, DATE 10/12/89 FINISH: TIME 1145, DATE 10/12/89
	WATER LEVEL TIME DATE CASING DEPTH	
DATUM ELEVATION		
DRILL RIG	SURFACE CONDITIONS	
ANGLE BEARING	Water Depth = 2'8"	
SAMPLE HAMMER TORQUE FT.-LBS		

ATEC

DRILLING CONTR

DEPTH IN FEET (ELEVATION)	BLOWS/ 6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
5			Gray silty CLAY; soft; slightly plastic; no odor (CL)								
			Silty SAND; fine grained; angular (SM)								
10			Gray CLAY; black shale fragments (CL)								
			Core recovery = 11 inches								

LOGGED BY Tina Hariu

DATE 10/12/89 CHK'D BY J. Sicinc

Printed on recycled paper.

SOIL BOREHOLE LOG

SITE NAME AND LOCATION CWM Incinerator Chicago, IL	DRILLING METHOD: Sediment Sample	BORING NO. S-4
		SHEET 1 OF 1
	SAMPLING METHOD: Long Arm Sampler Core - Sludge Judge	DRILLING START: TIME 1155, DATE 10/12/89 FINISH: TIME 1210, DATE 10/12/89
	WATER LEVEL TIME DATE CASING DEPTH	
DATUM ELEVATION		
DRILL RIG	SURFACE CONDITIONS	
ANGLE BEARING	Water Depth = 3'2"	
SAMPLE HAMMER TORQUE FT.-LBS		

DEPTH IN FEET (ELEVATION)	BLOWS/ 6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
1			Silty SAND; black shale fragments; very loose (SM)								
2											
3											
4			Gray CLAY; plastic (CL)								
			Core recovery = 4 inches								

DRILLING CONTR ATEC

LOGGED BY Tina Hariu

ATE 10/12/89 CHK'D BY J. Steiner

Printed on recycled paper.

SOIL BOREHOLE LOG

SITE NAME AND LOCATION CWM Incinerator Chicago, IL	DRILLING METHOD: Sediment Sample	BORING NO. S-5
		SHEET 1 OF 1
	SAMPLING METHOD: Long Arm Sampler	DRILLING
	Core - Sludge Judge	START / FINISH
	WATER LEVEL / TIME / DATE / CASING DEPTH	TIME 1440 / TIME 1455 DATE 10/12/89 / DATE 10/12/89
DATUM ELEVATION		
DRILL RIG	SURFACE CONDITIONS	
ANGLE BEARING	Water Depth = 3'4"	
SAMPLE HAMMER TORQUE FT.-LBS		

ATEC

DRILLING CONTR.

DEPTH IN FEET (ELEVATION)	BLOWS/ 6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
1			Brown silty SAND (SM)								
4			Gray CLAY (CL)								
5			Core recovery = 5 inches								

LOGGED BY Tina Hariu

DATE 10/12/89 CHK'D BY J. Steiner

Printed on recycled paper.

SOIL BOREHOLE LOG

SITE NAME AND LOCATION CWM Incinerator Chicago, IL	DRILLING METHOD: Sediment Sample	BORING NO. S-6
		SHEET 1 OF 1
	SAMPLING METHOD: 3" split-spoon	DRILLING START TIME: 1445 / FINISH TIME: 1500
	WATER LEVEL / TIME / DATE / CASING DEPTH	DRILLING START DATE: 10/10/89 / FINISH DATE: 10/10/89
DATUM ELEVATION		
DRILL RIG	SURFACE CONDITIONS	
ANGLE BEARING	Water Depth = 3'10"	
SAMPLE HAMMER TORQUE FT.-LBS		

ATEC

DRILLING CONTR

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
2			Gray CLAY; trace gravel (CL)								
4											
8											
10											
12											
14			Core recovery = 14 inches								

LOGGED BY Julie Galbraith

DATE 10/10/89

CHK'D BY J. Steiner

Printed on recycled paper.

SOIL BOREHOLE LOG

SITE NAME AND LOCATION CWM Incinerator Chicago, IL	DRILLING METHOD: Sediment Sample	BORING NO. S-7
		SHEET 1 OF 1
	SAMPLING METHOD: Long Arm Sampler	DRILLING
	Core - Sludge Judge	START TIME: 1220 / FINISH TIME: 1240
	WATER LEVEL / TIME / DATE / CASING DEPTH	START DATE: 10/12/89 / FINISH DATE: 10/12/89
DATUM ELEVATION		
DRILL RIG	SURFACE CONDITIONS	
ANGLE BEARING	Water Depth = 3'7"	
SAMPLE HAMMER TORQUE FT.-LBS		

ATEC

DRILLING CONTR

DEPTH IN FEET (ELEVATION)	BLOWS/ 6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
1			Brown silty SAND; trace gravel; trace gray shale fragments (SM)								
2			Gray CLAY; hard; plastic (CL)								
4											
5			Core recovery = 5 inches								

LOGGED BY Tina Hariu

DATE 10/12/89 CHK'D BY J. Sicinor

Printed on recycled paper.

SOIL BOREHOLE LOG

SITE NAME AND LOCATION
CWM Incinerator
Chicago, IL

DRILLING METHOD:
Sediment Sample

SAMPLING METHOD:
Long Arm Sampler

BORING NO.
S-8

SHEET
1 OF 1

DRILLING

	START	FINISH
TIME	1345	1410
DATE	10/11/89	10/11/89

WATER LEVEL				
TIME				
DATE				
CASING DEPTH				

DATUM ELEVATION

DRILL RIG

SURFACE CONDITIONS
Water Depth = 2'7"

ANGLE BEARING

SAMPLE HAMMER TORQUE FT.-LBS

ATEC

DRILLING CONTR

DEPTH IN FEET (ELEVATION)	BLOWS/ 6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPCIFIC GRAVITY	OTHER TESTS
			Silty SAND (SM)								
2			Silty CLAY; some sand (CL)								
4											
8			Core recovery = 8 inches								

LOGGED BY Tina Hartin

DATE 10/11/89

CHK'D BY J. Steiner

Printed on recycled paper.

SOIL BOREHOLE LOG

SITE NAME AND LOCATION
CWM Incinerator
Chicago, IL

DRILLING METHOD: Sediment Sample

SAMPLING METHOD: Long Arm Sampler

Core - Sludge Judge

BORING NO. S-9

SHEET 1 OF 1

					DRILLING START	DRILLING FINISH
WATER LEVEL					TIME	TIME
TIME					1110	1125
DATE					DATE	DATE
CASING DEPTH					10/18/89	10/18/89

DATUM ELEVATION

DRILL RIG

ANGLE BEARING

SAMPLE HAMMER TORQUE FT.-LBS

SURFACE CONDITIONS
Water Depth = 3'2"

ATEC

DRILLING CONTR

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
5			Grayish-brown CLAY; trace silt; soft (CL)								
10			Gray CLAY; hard; very plastic (CH)								
			Core recovery = 14 inches								

LOGGED BY Tina Hariu

DATE 10/18/89 CHK'D BY J. Steiner

Printed on recycled paper.

SOIL BOREHOLE LOG

SITE NAME AND LOCATION CWM Incinerator Chicago, IL	DRILLING METHOD: Sediment Sample	BORING NO. S-10
		SHEET 1 OF 1
	SAMPLING METHOD: Long Arm Sampler Core - Sludge Judge	DRILLING START TIME: 1430 DATE: 10/18/89 DRILLING FINISH TIME: 1455 DATE: 10/18/89
DATUM ELEVATION	WATER LEVEL / TIME / DATE / CASING DEPTH	
DRILL RIG	SURFACE CONDITIONS	
ANGLE BEARING	Water Depth = 4'10"	
SAMPLE HAMMER TORQUE FT.-LBS		

ATEC

DRILLING CONTR

DEPTH IN FEET (ELEVATION)	BLOWS/ 6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
5			Gray silty CLAY; soft (CL)								
10			Gray CLAY; very plastic (CH)								
20			Core recovery = 18.5 inches								

LOGGED BY Tina Hariu

DATE 10/18/89 CHK'D BY J. Steiner

Printed on recycled paper.

SOIL BOREHOLE LOG

SITE NAME AND LOCATION CWM Incinerator Chicago, IL	DRILLING METHOD: Sediment Sample	BORING NO. S-11
		SHEET 1 OF 1
	SAMPLING METHOD: Long Arm Sampler Core - Sludge Judge	DRILLING START TIME: 1510 DATE: 10/18/89 FINISH TIME: 1525 DATE: 10/18/89
	WATER LEVEL / TIME / DATE / CASING DEPTH	
DATUM ELEVATION		
DRILL RIG	SURFACE CONDITIONS	
ANGLE BEARING	Water Depth = 4'0"	
SAMPLE HAMMER TORQUE FT.-LBS		

ATEC

DRILLING CONTR

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
1			Brown silty SAND; trace black fragments; very loose (SM)								
2											
4			Gray CLAY; plastic (CL)								
5			Core recovery = 5 inches								

LOGGED BY Tina Harin

DATE 10/18/89 CHK'D BY J. Steiner

Printed on recycled paper.

SOIL BOREHOLE LOG

SITE NAME AND LOCATION CWM Incinerator Chicago, IL	DRILLING METHOD: Sediment Sample	BORING NO. S-12
		SHEET 1 OF 1
	SAMPLING METHOD: Long Arm Sampler Core - Sludge Judge	DRILLING START TIME: 1535 DATE: 10/18/89 DRILLING FINISH TIME: 1600 DATE: 10/18/89
DATUM ELEVATION	WATER LEVEL / TIME / DATE / CASING DEPTH	
DRILL RIG	SURFACE CONDITIONS	
ANGLE BEARING	Water Depth = 4'0"	
SAMPLE HAMMER TORQUE FT.-LBS		

DRILLING CONTR ATEC

DEPTH IN FEET (ELEVATION)	BLOWS/ 6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
2			Gray silty CLAY; soft (CL)								
4											
8											
10			Gray CLAY; hard; plastic (CH)								
12			Core recovery = 12 inches								

LOGGED BY Tina Hariu

DATE 10/18/89 CHK'D BY J. Steiner

Printed on recycled paper.

SOIL BOREHOLE LOG

SITE NAME AND LOCATION CWM Incinerator Chicago, IL	DRILLING METHOD: Sediment Sample	BORING NO. S-13
		SHEET 1 OF 1
	SAMPLING METHOD: Long Arm Sampler Core - Sludge Judge	DRILLING START TIME 1600 DATE 10/18/89; FINISH TIME 1625 DATE 10/18/89
	WATER LEVEL / TIME / DATE / CASING DEPTH	
DATUM ELEVATION		
DRILL RIG	SURFACE CONDITIONS	
ANGLE BEARING	Water Depth = 3'9"	
SAMPLE HAMMER TORQUE FT.-LBS		

DEPTH IN FEET (ELEVATION)	BLOWS/ 6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
2			Grayish-brown clayey SAND; some silt; very loose (SC)								
4											
8			Gray CLAY; hard; slightly plastic (CL)								
10			Core recovery = 9 inches								

ATEC

DRILLING CONTR

LOGGED BY Tina Hariu

DATE 10/18/89 CHK'D BY J. Steiner

Printed on recycled paper.

SOIL BOREHOLE LOG

SITE NAME AND LOCATION CWM Incinerator Chicago, IL	DRILLING METHOD: Sediment Sample	BORING NO. S-14
		SHEET 1 OF 1
	SAMPLING METHOD: Long Arm Sampler Core - Sludge Judge	DRILLING START TIME: 1645 DATE: 10/18/89 FINISH TIME: 1700 DATE: 10/18/89
	WATER LEVEL / TIME / DATE / CASING DEPTH	
DATUM ELEVATION		
DRILL RIG	SURFACE CONDITIONS Water Depth = 4'0"	
ANGLE BEARING		
SAMPLE HAMMER TORQUE FT.-LBS		

ATEC

DRILLING CONTR

DEPTH IN FEET (ELEVATION)	BLOWS/ 6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
2			Grayish-brown clayey SAND; some silt; very loose (SC)								
4											
8			Gray CLAY; hard; plastic (CH)								
10			Core recovery = 8.5 inches								

LOGGED BY Tina Hariu

DATE 10/18/89 CHK'D BY J. Steiner

Printed on recycled paper.

SOIL BOREHOLE LOG

SITE NAME AND LOCATION CWM Incinerator Chicago, IL	DRILLING METHOD: Sediment Sample	BORING NO. S-15
		SHEET 1 OF 1
	SAMPLING METHOD: Long Arm Sampler Core - Sludge Judge	DRILLING
		START TIME: 1715 DATE: 10/18/89
		FINISH TIME: 1730 DATE: 10/18/89
DATUM ELEVATION	WATER LEVEL / TIME / DATE / CASING DEPTH	
DRILL RIG	SURFACE CONDITIONS	
ANGLE BEARING	Water Depth = 3'5"	
SAMPLE HAMMER TORQUE FT.-LBS		

ATEC

DRILLING CONTR

DEPTH IN FEET (ELEVATION)	BLOWS/ 6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
5			Grayish-brown silty CLAY; soft (CL)								
10											
5			Gray CLAY; dense; plastic (CH)								
			Core recovery = 15.5 inches								

LOGGED BY Tina Hariu

DATE 10/18/89 CHK'D BY J. Steiner

Printed on recycled paper.

SOIL BOREHOLE LOG

SITE NAME AND LOCATION CWM Incinerator Chicago, IL	DRILLING METHOD: Sediment Sample	BORING NO. S-16
		SHEET 1 OF 1
	SAMPLING METHOD: Long Arm Sampler Core - Sludge Judge	DRILLING START: TIME 1035, DATE 10/18/89 FINISH: TIME 1100, DATE 10/18/89
DATUM ELEVATION	WATER LEVEL / TIME / DATE / CASING DEPTH	
DRILL RIG	SURFACE CONDITIONS	
ANGLE BEARING	Water Depth = 4'0"	
SAMPLE HAMMER TORQUE FT.-LBS		

ATEC

DRILLING CONTR

DEPTH IN FEET (ELEVATION)	BLOWS/ 6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
1			Brown silty SAND; trace black minerals; very loose (SM)								
2											
4			CLAY; slightly plastic (CL)								
			Core recovery = 4.5 inches								

LOGGED BY Tina Harin

DATE 10/18/89

CHK'D BY J. Sicinc

Printed on recycled paper.

SOIL BOREHOLE LOG

SITE NAME AND LOCATION CWM Incinerator Chicago, IL	DRILLING METHOD: Sediment Sample	BORING NO. S-17
		SHEET 1 OF 1
	SAMPLING METHOD: Long Arm Sampler	DRILLING
	Core - Sludge Judge	START / FINISH
	WATER LEVEL	TIME / TIME
	TIME	1500 / 1525
	DATE	DATE / DATE
DATUM ELEVATION	CASING DEPTH	10/12/89 / 10/12/89
DRILL RIG	SURFACE CONDITIONS	
ANGLE BEARING	Water Depth = 2'9"	
SAMPLE HAMMER TORQUE FT.-LBS		

DRILLING CONTR ATEC

DEPTH IN FEET (ELEVATION)	BLOWS/ 6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
2			Dark brown silty CLAY; very loose (CL-ML)								
4											
8			SAND								
10			CLAY; slightly plastic (CL)								
12											
14			Core recovery = 13 inches								
16											

LOGGED BY Tina Hariu

DATE 10/12/89 CHK'D BY J. Sicinc

Printed on recycled paper.

SOIL BOREHOLE LOG

SITE NAME AND LOCATION
CWM Incinerator
Chicago, IL

DRILLING METHOD: Sediment Sample

SAMPLING METHOD: Long Arm Sampler

BORING NO. S-18

SHEET 1 OF 1

					DRILLING START	DRILLING FINISH
WATER LEVEL					TIME	TIME
TIME						
DATE					DATE	DATE
CASING DEPTH					10/12/89	10/12/89

DATUM ELEVATION

DRILL RIG

ANGLE BEARING

SAMPLE HAMMER TORQUE FT.-LBS

SURFACE CONDITIONS
Water Depth = 2'8"

DRILLING CONTR ATEC

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
2			Dark brown silty CLAY; soft (CL)								
4											
8											
			SAND; trace gravel								
10			CLAY; slightly plastic (CL)								
12			Core recovery = 11 inches								

LOGGED BY Tina Hariu

DATE 10/12/89 CHK'D BY J. Sicinc

Printed on recycled paper

SOIL BOREHOLE LOG

SITE NAME AND LOCATION
CWM Incinerator
Chicago, IL

DRILLING METHOD: Sediment Sample

SAMPLING METHOD: Long Arm Sampler / Core - Sludge Judge

BORING NO. S-19

SHEET 1 OF 1

					DRILLING START	DRILLING FINISH
WATER LEVEL						
TIME					0820	0850
DATE					10/13/89	10/13/89
CASING DEPTH						

DATUM ELEVATION

DRILL RIG

ANGLE BEARING

SAMPLE HAMMER TORQUE FT.-LBS

SURFACE CONDITIONS: Water Depth = 3'1"

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
1			Grayish-brown silty SAND: very loose (SM)								
2			Gray CLAY; stiff; very plastic (CH)								
4			Core recovery = 5 inches								
5											

DRILLING CONTR ATEC

LOGGED BY Tina Harin

DATE 10/13/89 CHK'D BY J. Steiner

Printed on recycled paper.

SOIL BOREHOLE LOG

SITE NAME AND LOCATION CWM Incinerator Chicago, IL	DRILLING METHOD: Sediment Sample	BORING NO. S-20
		SHEET 1 OF 1
	SAMPLING METHOD: Long Arm Sampler Core - Sludge Judge	DRILLING START: TIME 0852 DATE 10/13/89 FINISH: TIME 0910 DATE 10/13/89
	WATER LEVEL / TIME / DATE / CASING DEPTH	
DATUM ELEVATION		
DRILL RIG	SURFACE CONDITIONS	
ANGLE BEARING	Water Depth = 2'10"	
SAMPLE HAMMER TORQUE FT.-LBS		

DRILLING CONTR ATEC

DEPTH IN FEET (ELEVATION)	BLOWS/ 6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
1			Grayish-brown silty SAND; very loose, no odor (SM)								
2											
4			Gray CLAY; medium stiff; very plastic (CH)								
5											
6											
7			Core recovery = 7 inches								

LOGGED BY Tina Harlin

DATE 10/13/89 CHK'D BY J. Steiner

Printed on recycled paper.

SOIL BOREHOLE LOG

SITE NAME AND LOCATION CWM Incinerator Chicago, IL	DRILLING METHOD: Sediment Sample	BORING NO. S-21
		SHEET 1 OF 1
	SAMPLING METHOD: Long Arm Sampler	DRILLING
	Core - Sludge Judge	START / FINISH
	WATER LEVEL / TIME / DATE / CASING DEPTH	TIME 0912 / TIME 0930 DATE 10/13/89 / DATE 10/13/89
DATUM ELEVATION		
DRILL RIG	SURFACE CONDITIONS	
ANGLE BEARING	Water Depth = 2'9"	
SAMPLE HAMMER TORQUE FT.-LBS		

DRILLING CONTR ATEC

DEPTH IN FEET (ELEVATION)	BLOWS/ 6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
1			Gray silty SAND; trace black shale fragments; very loose (SM)								
2											
4			Gray CLAY; stiff; plastic (CL)								
5											
6											
7			Core recovery = 7 inches								

LOGGED BY Tina Hariu

DATE 10/13/89 CHK'D BY J. Steiner

Printed on recycled paper.

SOIL BOREHOLE LOG

SITE NAME AND LOCATION CWM Incinerator Chicago, IL	DRILLING METHOD: Sediment Sample	BORING NO. S-22
		SHEET 1 OF 1
	SAMPLING METHOD: Long Arm Sampler	DRILLING
	Core - Sludge Judge	START: TIME 1040, DATE 10/13/89 / FINISH: TIME 1130, DATE 10/13/89
	WATER LEVEL / TIME / DATE / CASING DEPTH	
DATUM ELEVATION		
DRILL RIG	SURFACE CONDITIONS	
ANGLE BEARING	Water Depth = 2'9"	
SAMPLE HAMMER TORQUE FT.-LBS		

DRILLING CONTR. ATEC

DEPTH IN FEET (ELEVATION)	BLOWS/ 6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
1			SAND; trace wood, gravel, and cobbles; poorly graded (SP)								
2			Gray CLAY; stiff; plastic (CL)								
4											
5			Core recovery = 5 inches								

LOGGED BY Tina Hariu

DATE 10/13/89 CHK'D BY J. Steiner

Printed on recycled paper.

SOIL BOREHOLE LOG

SITE NAME AND LOCATION CWM Incinerator Chicago, IL	DRILLING METHOD: Sediment Sample	BORING NO. S-23
		SHEET 1 OF 1
	SAMPLING METHOD: Long Arm Sampler Core - Sludge Judge	DRILLING START: TIME 1100, DATE 10/13/89 FINISH: TIME 1150, DATE 10/13/89
	WATER LEVEL TIME DATE CASING DEPTH	
DATUM ELEVATION		
DRILL RIG	SURFACE CONDITIONS	
ANGLE BEARING	Water Depth = 3'2"	
SAMPLE HAMMER TORQUE FT.-LBS		

ATEC

DRILLING CONTR

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
1			Silty SAND; some organic matter (SM)								
2											
4			Gray CLAY; very dense; plastic (CL)								
5											
6											
7			Core recovery = 7 inches								

LOGGED BY Tina Hariu

DATE 10/13/89 CHK'D BY J. Sicinc

Printed on recycled paper.

SOIL BOREHOLE LOG

SITE NAME AND LOCATION	DRILLING METHOD:	BORING NO.
CWM Incinerator Chicago, IL	Sediment Sample	S-24
		SHEET 1 OF 1
	SAMPLING METHOD:	DRILLING
	Long Arm Sampler	START / FINISH
	Core - Sludge Judge	TIME 1340 / TIME 1405
	WATER LEVEL / TIME / DATE / CASING DEPTH	DATE 10/13/89 / DATE 10/13/89

DATUM ELEVATION

DRILL RIG

ANGLE BEARING

SAMPLE HAMMER TORQUE FT.-LBS

SURFACE CONDITIONS

Water Depth – 2'11"

DEPTH IN FEET (ELEVATION)	BLOWS/ 6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPCIFIC GRAVITY	OTHER TESTS
1			Grayish-brown silty SAND; some black shale fragments; trace organic matter; very loose (SM)								
2											
4											
5			Gray CLAY; medium stiff; plastic (CL)								
6											
7			Core recovery = 7 inches								

DRILLING CONTR ATEC

LOGGED BY Tina Hariu

DATE 10/13/89 CHK'D BY J. Steiner

Printed on recycled paper.

SOIL BOREHOLE LOG

SITE NAME AND LOCATION CWM Incinerator Chicago, IL	DRILLING METHOD: Sediment Sample	BORING NO. S-25
		SHEET 1 OF 1
	SAMPLING METHOD: Long Arm Sampler	DRILLING
	Core - Sludge Judge	START / FINISH
	WATER LEVEL / TIME / DATE / CASING DEPTH	TIME: 1400 / 1425 DATE: 10/13/89 / 10/13/89
DATUM ELEVATION		
DRILL RIG	SURFACE CONDITIONS	
ANGLE BEARING	Water Depth = 3'0"	
SAMPLE HAMMER TORQUE FT.-LBS		

DRILLING CONTR ATEC

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
1			Grayish-green silty SAND; very loose (SM)								
2											
4			Gray CLAY; stiff; slightly plastic (CL)								
5			Core recovery = 5 inches								

LOGGED BY Tina Harin

DATE 10/13/89 CHK'D BY J. Steiner

Printed on recycled paper.

SOIL BOREHOLE LOG

SITE NAME AND LOCATION CWM Incinerator Chicago, IL	DRILLING METHOD: Sediment Sample	BORING NO. S-26
		SHEET 1 OF 1
	SAMPLING METHOD: Long Arm Sampler Core - Sludge Judge	DRILLING START: TIME 1550, DATE 10/11/89 FINISH: TIME, DATE 10/11/89
	WATER LEVEL TIME DATE CASING DEPTH	
DATUM ELEVATION		
DRILL RIG	SURFACE CONDITIONS Water Depth = 2'3"	
ANGLE BEARING		
SAMPLE HAMMER TORQUE FT.-LBS		

DRILLING CONTR ATEC

DEPTH IN FEET (ELEVATION)	BLOWS/ 6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
			Brown silty SAND (SM)								
1											
2			Gray CLAY; trace silt and sand; slightly plastic (CL)								
4											
5											
6											
7			Core recovery = 7 inches								

LOGGED BY Julie Galbraith
DATE 10/11/89
CHK'D BY J. Steiner

Printed on recycled paper.

SOIL BOREHOLE LOG

SITE NAME AND LOCATION
CWM Incinerator
Chicago, IL

DRILLING METHOD: Sediment Sample
SAMPLING METHOD: Long Arm Sampler
BORING NO. S-27
SHEET 1 OF 1

					DRILLING START	DRILLING FINISH
WATER LEVEL						
TIME					1440	1510
DATE					10/11/89	10/11/89
CASING DEPTH						

DATUM ELEVATION
DRILL RIG
ANGLE BEARING
SAMPLE HAMMER TORQUE FT.-LBS
SURFACE CONDITIONS: Water Depth = 3'8"

DRILLING CONTR. Aec
Dan

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
1			Sandy SILT	(LAS)							
2			Silty SAND; some clay								
4											
5											
6											
7											
8			Core recovery = 8 inches								

LOGGED BY Julie Galbraith
DATE 10/11/89 CHK'D BY J. Steiner

Printed on recycled paper

SOIL BOREHOLE LOG

SITE NAME AND LOCATION CWM Incinerator Chicago, IL	DRILLING METHOD: Sediment Sample	BORING NO. S-28
		SHEET 1 OF 1
	SAMPLING METHOD: Long Arm Sampler	DRILLING
	Core - Sludge Judge	START / FINISH
	WATER LEVEL	TIME / TIME
	TIME	1435 / 1500
	DATE	DATE / DATE
DATUM ELEVATION	CASING DEPTH	0/13/89 / 10/13/89

DRILL RIG	SURFACE CONDITIONS
ANGLE BEARING	Water Depth = 3'4"
SAMPLE HAMMER TORQUE FT.-LBS	

DEPTH IN FEET (ELEVATION)	BLOWS/ 6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
2			Gray silty SAND; loose (SM)								
4											
8			CLAY								
10			Core recovery = 9 inches								

DRILLING CONTR ATEC

LOGGED BY Tina Haruu

DATE 10/13/89 CHK'D BY J. Steiner

Printed on recycled paper.

SOIL BOREHOLE LOG

SITE NAME AND LOCATION CWM Incinerator Chicago, IL	DRILLING METHOD: Sediment Sample	BORING NO. S-29
		SHEET 1 OF 1
	SAMPLING METHOD: Long Arm Sampler Core - Sludge Judge	DRILLING START: TIME 1500, DATE 10/13/89 FINISH: TIME 1550, DATE 10/13/89
	WATER LEVEL / TIME / DATE / CASING DEPTH	
DATUM ELEVATION		
DRILL RIG	SURFACE CONDITIONS	
ANGLE BEARING	Water Depth = 2'10"	
SAMPLE HAMMER TORQUE FT.-LBS		

ATEC

DRILLING CONTR

DEPTH IN FEET (ELEVATION)	BLOWS/ 6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
2			Grayish-brown silty CLAY; trace sand; soft								
4											
8											
10			trace coarse sand and fine gravel								
12			Gray CLAY; medium stiff; very plastic (CH)								
14			Core recovery = 14 inches								

LOGGED BY Tina Harris

DATE 10/13/89 CHK'D BY J. Steiner

Printed on recycled paper.

SOIL BOREHOLE LOG

SITE NAME AND LOCATION CWM Incinerator Chicago, IL	DRILLING METHOD: Sediment Sample	BORING NO. S30
		SHEET 1 OF 1
	SAMPLING METHOD: Long Arm Sampler Core - Sludge Judge	DRILLING START TIME: 0945 DATE: 10/18/89 FINISH TIME: 1010 DATE: 10/18/89
	WATER LEVEL / TIME / DATE / CASING DEPTH	
DATUM ELEVATION		
DRILL RIG	SURFACE CONDITIONS Water Depth = 3'10"	
ANGLE BEARING		
SAMPLE HAMMER TORQUE FT.-LBS		

DRILLING CONTR ATEC

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
2			Silty CLAY; trace sand; very soft (CL-ML)								
4											
8			CLAY; hard; very plastic (CH)								
10											
12			Core recovery = 11 inches								

LOGGED BY Tina Harris

DATE 10/18/89 CHK'D BY J. Steiner

Printed on recycled paper.

SOIL BOREHOLE LOG

SITE NAME AND LOCATION

CWM Incinerator
Chicago, IL

DRILLING METHOD:
4 1/4" ID Hollow Stem Auger

SAMPLING METHOD:
2" Split spoon (SS)
3" Split spoon (SS)

BORING NO.
B-301

SHEET
1 OF 2

WATER LEVEL				
TIME				
DATE				
CASING DEPTH				

DRILLING START TIME: 1420 DATE: 10/12/89
DRILLING FINISH TIME: 1600 DATE: 10/12/89

DATUM Chicago City ELEVATION 9.7'
DRILL RIG
ANGLE vertical BEARING
SAMPLE HAMMER TORQUE FT.-LBS

SURFACE CONDITIONS
Grassy

DRILLING CONTR ATEC Dennis

LOGGED BY Terry Calloway CHK'D BY J. Steiner
DATE 10/12/89

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
2	1,15, 17,12 (67%)		Dark brown sandy CLAY (fill); some gravel; wet at 6 feet; medium stiff to hard, slightly plastic; some wood and brick (CL)	2" SS	No casing used						
	7,8, 13,14 (92%)			2" SS							
	6,6, 5,4 (25%)			2" SS							
5	2,2, 5,7 (38%)			2" SS							
	6,15, 11 (66%)		Black clayey SILT (fill); some gravel; saturated very stiff; slight odor; trace wood fragments (ML)	3" SS							
	7,6, 7 (50%)		Black CLAY; some coarse grained gravel and sand; saturated; stiff; slight odor (CL)								
12	50-50/1" (100%)			2" SS							

Printed on recycled paper

SOIL BOREHOLE LOG

SITE NAME AND LOCATION

CWM Incinerator
Chicago, IL

DRILLING METHOD: 4-1/4" ID Hollow Stem Auger

SAMPLING METHOD: 2" Split-spoon (SS); 3" Split-spoon (SS)

BORING NO. B-301

SHEET 2 OF 2

	DRILLING START	DRILLING FINISH
TIME	1420	1600
DATE	10/12/89	10/12/89

WATER LEVEL				
TIME				
DATE				
CASING DEPTH				

DATUM Chicago City ELEVATION 9.7'

DRILL RIG

ANGLE vertical BEARING

SAMPLE HAMMER TORQUE FT.-LBS

SURFACE CONDITIONS: Grassy

DRILLING CONTR ATEC

Dennis

DEPTH IN FEET (ELEVATION)	BLOWS/.4 IN ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPCIFIC GRAVITY	OTHER TESTS
	4,6, 6 (89%)		Change to gray CLAY	3" SS							
-16	6,10, 13 (83%)		Bottom of boring at 17 feet.								
8											

LOGGED BY Terry Callaway

DATE 10/12/89 CHK'D BY J. Steiner

Printed on recycled paper.

SOIL BOREHOLE LOG

TE NAME AND LOCATION

CWM Incinerator
Chicago, IL

DRILLING METHOD: 4.1/4" ID Hollow Stem Auger

SAMPLING METHOD: 2" Split-spoon (SS); 3" Split-spoon (SS)

BORING NO. B-G302

SHEET 1 OF 2

	DRILLING START	DRILLING FINISH
TIME	1300	1250
DATE	0/11/89	10/12/89

WATER LEVEL				
TIME				
DATE				
CASING DEPTH				

TUM Chicago City ELEVATION 11.2'

LL RIG

NGLE vertical BEARING

MPLE HAMMER TORQUE FT.-LBS

SURFACE CONDITIONS: Grassy, flat

DRILLING CONTR ATEC

Dennis

LOGGED BY Terry Calloway

DATE 10/11/89

CHK'D BY J. Sicinski

DEPTH (ELEVATION)	BLOWS/6 IN ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
	15,45, 50,27 (71%)		Light brown clayey TOPSOIL (fill)	2" SS	No casing used						
			Brown gravelly SAND (fill); dry; very dense; some slag and asphalt (SP)								
	25,21, 11,16 (63%)		Reddish-brown to black sandy CLAY (fill); moist; medium stiff to hard; some slag, asphalt, wood, brick, and concrete (CL)	2" SS							
	6,3, 3,4" (33%)			2" SS							
	14,2, 100/1 (38%)			2" SS							
	42, 100/1 (43%)			3" SS void							
	85,51 80, 100/3" 100%)			3" SS							

Printed on recycled paper.

SOIL BOREHOLE LOG

SITE NAME AND LOCATION

CWM Incinerator
Chicago, IL

DRILLING METHOD: 4-1/4" ID Hollow Stem Auger

SAMPLING METHOD: 2" Split-spoon (SS); 3" Split-spoon (SS)

BORING NO. B-G302

SHEET 2 OF 2

	DRILLING START	DRILLING FINISH
TIME	1300	1250
DATE	10/11/89	10/12/89

WATER LEVEL				
TIME				
DATE				
CASING DEPTH				

DATUM Chicago City ELEVATION 11.2'

DRILL RIG

ANGLE vertical BEARING

SAMPLE HAMMER TORQUE FT.-LBS

SURFACE CONDITIONS: Grassy, flat

DRILLING CONTR ATEC Dennis

DEPTH IN FEET (ELEVATION)	BLOWS/ IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
	2,3, 4,6 (87%)		Sandy CLAY (fill) (see page 1)	3" SS							
15	6,8, 12,18 (67%)		Gray CLAY; some fine grained gravel; very stiff (CL)	3" SS							
18			Bottom of boring at 17.5 feet								

LOGGED BY Terry Calloway

DATE 10/11/89 CHK'D BY J. Steiner

Printed on recycled paper.

SOIL BOREHOLE LOG

SITE NAME AND LOCATION

CWM Incinerator
Chicago, IL

DRILLING METHOD: 4 1/4" ID Hollow Stem Auger

SAMPLING METHOD: 2" Split spoon (SS); 3" Split spoon (SS)

BORING NO. B-G303

SHEET 1 OF 2

					DRILLING START	DRILLING FINISH
WATER LEVEL						
TIME					1450	1130
DATE					10/10/89	10/11/89
CASING DEPTH						

DATUM Chicago City ELEVATION 10.4'

DRILL RIG

ANGLE vertical BEARING

SAMPLE HAMMER TORQUE FT.-LBS

SURFACE CONDITIONS: Flat gravel surface

DRILLING CONTR ATEC Dennis

LOGGED BY Terry Calloway

DATE 10/10/89 CHK'D BY J. Steiner

DEPTH IN FEET (ELEVATION)	BLOWS/ 6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
	40,60, 105,54 (92%)		Brown sandy GRAVEL (fill); some silt and clay; dry; very dense; some brick and concrete (GM)	2" SS							
2	28,24 80,24 (88%)		Brown sandy CLAY (fill); some gravel; moist; very hard; some brick and concrete (CL)	2" SS							
4	10,5, 30,37 (88%)		Black coarse grained SAND (fill); moist; dense (SP)	2" SS							
			Brown CLAY (fill); moist; very stiff (CL)								
6	14,10 5,9 (58%)		Brown silty SAND; some gravel; clay lamina throughout; saturated at 8 feet; dense; some brick, concrete, and wood (SM)	2" SS	No casing used						
8	3,6, 22,50 (75%)			3" SS							
10	100 4" (100%)			2" SS							
12	11,6, 6,8 (8%)			2" SS							
14											

Printed on recycled paper.

SOIL BOREHOLE LOG

SITE NAME AND LOCATION

CWM Incinerator
Chicago, IL

DRILLING METHOD: 4 1/4" ID Hollow Stem Auger

SAMPLING METHOD: 2" Split-spoon (SS)
3" Split-spoon (SS)

BORING NO. B-G303

SHEET 2 OF 2

	DRILLING START	DRILLING FINISH
WATER LEVEL		
TIME	1450	1130
DATE	10/10/89	10/11/89
CASING DEPTH		

DATUM Chicago City ELEVATION 10.4'

DRILL RIG

ANGLE vertical BEARING

SAMPLE HAMMER TORQUE FT.-LBS

SURFACE CONDITIONS: Flat, gravel surface

DRILLING CONTR ATEC

Dennis

DEPTH IN FEET (ELEVATION)	BLOWS/ 6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
	3,4, 7,11 (75%)		Brown silty SAND (see page 1)	3" SS							
16			Gray gravelly CLAY; saturated; stiff (CL)								
			Bottom of boring at 16 feet								

LOGGED BY Terry Callaway

DATE 10/11/89 CHK'D BY J. Steiner

Printed on recycled paper.

SOIL BOREHOLE LOG

SITE NAME AND LOCATION

CWM Incinerator
Chicago, IL

DRILLING METHOD: ~~4 1/4" ID Hollow Stem Auger~~

SAMPLING METHOD: ~~Split spoon (SS)~~ ~~Shelby Tube (SH)~~

BORING NO. B-304

SHEET 1 OF 2

					DRILLING START	DRILLING FINISH
WATER LEVEL					TIME	TIME
TIME					0830	1140
DATE					DATE	DATE
CASING DEPTH					10/5/89	10/5/89

DATUM Chicago City ELEVATION 10.1'

DRILL RIG

ANGLE vertical BEARING

SAMPLE HAMMER TORQUE FT.-LBS

SURFACE CONDITIONS: Along gravel drive - flat

DRILLING CONTR ATEC

LOGGED BY Terry Callaway

DATE 10/05/89

CHK'D BY J. Steiner

Dennis

DEPTH IN FEET (ELEVATION)	BLOWS/ 6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
	10,16, 16,15 (67%)		Light brown coarse grained sandy GRAVEL (fill); dry; dense (GP)	2" SS	No casing used						
2	18,16, 12,6 (54%)		Brown sandy CLAY (fill); some fine grained gravel; dry; stiff; some asphalt, concrete, wood, and brick (CL)	2" SS							
4	7,5, 9,8 (54%)		Yellow-brown SAND (fill); trace fine gravel and silt; moist; medium dense (SP)	2" SS							
6	3,5, 3,3 (38%)		Brown silty CLAY (fill); some fine grained gravel; saturated at approximately 10.5 feet; soft to stiff; some brick, concrete, and wood (CL)	2" SS							
8	10,4, 7 (67%)			3" SS							
10	4,4, 9 (67%)		black organic layer at 10 feet	3" SS							
12	3,2, 2,2 (50%)			2" SS							
14											

Printed on recycled paper

SOIL BOREHOLE LOG

SITE NAME AND LOCATION
CWM Incinerator
Chicago, IL

DRILLING METHOD:
4-1/4" ID Hollow Stem Auger

SAMPLING METHOD:
Split-spoon (SS)
Shelby Tube (SH)

BORING NO. B-304
SHEET 2 OF 2

	DRILLING START	DRILLING FINISH
WATER LEVEL		
TIME	0830	1140
DATE	10/5/89	10/5/89

DATUM Chicago City ELEVATION 10.1'
DRILL RIG
ANGLE vertical BEARING
SAMPLE HAMMER TORQUE FT.-LBS
CASING DEPTH
SURFACE CONDITIONS Along gravel drive - flat

ATEC
DRILLING CONTR Dennis

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
	2,3, 3,4 (50%)		Brown silty CLAY (fill) (see sheet 1)	3" SS							
15	1,3, 5,7 (100%)		Gray CLAY; some fine grained gravel; saturated; medium stiff to hard (CH)	3" SS							
8	8,16, 20,24 (75%)			3" SS							
20			Gradation Analysis GR 0 SA 9 SI 52 CL 39	SH			22	35	18		K = 1.37 x 10^{-7} cm/sec
2	8,9, 12,16 (79%)			2" SS							
4	6,9, 12,16 (79%)			2" SS							
5	14,36 200 (100%)		Gray and dark brown silty SAND; very fine grained; saturated; very dense (SM)	3" SS							
3			Bottom of boring at 28 feet.								

LOGGED BY Terry Calloway
DATE 10/15/89 CHK'D BY J. Steiner

Printed on recycled paper

SOIL BOREHOLE LOG

SITE NAME AND LOCATION: CWM Incinerator, Chicago, IL	DRILLING METHOD: 4 1/4" ID Hollow Stem Auger	BORING NO. B-G305
	SAMPLING METHOD: Split spoon (SS)	SHEET 1 OF 2
		DRILLING START TIME 1020 DATE 9/22/89
	WATER LEVEL / TIME / DATE / CASING DEPTH	DRILLING FINISH TIME 1400 DATE 9/22/89
DATUM Chicago City ELEVATION 9.1'		
DRILL RIG	SURFACE CONDITIONS: Flat - gravel, rubble surface	
ANGLE vertical BEARING		
SAMPLE HAMMER TORQUE FT.-LBS		

DRILLING CONTR ATEC

LOGGED BY Terry Calloway

DATE 9/22/89 CHK'D BY J. Steiner

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
2	8,15, 12,13 (75%)		Dark brown clayey SAND (fill); moist; medium dense; trace wood, brick, and concrete (SC)	2" SS	No casing used						
4	7,5, 8,9 (58%)		Brown sandy CLAY (fill); some gravel; moist; medium stiff to stiff; some brick and concrete (CL)	2" SS							
	4,5, 5,6 (75%)			2" SS							
6	3,3, 3,5 (42%)			2" SS							
8	3,4, 5,5 (100%)			3" SS							
10	2,2, 3,4 (25%)		sand layers throughout, hard	2" SS							
12	15,28 7,5 (25%)			2" SS							
14	3,5, 8,13 (100%)		Gray CLAY; moist; medium stiff (CL)	3" SS							

Printed on recycled paper

SOIL BOREHOLE LOG

SITE NAME AND LOCATION

CWM Incinerator
Chicago, IL

DRILLING METHOD:	4-1/4" ID Hollow Stem Auger
SAMPLING METHOD:	Split-spoon (SS)
BORING NO.	B-G305
SHEET	2 OF 2

					DRILLING START	DRILLING FINISH
WATER LEVEL						
TIME					1020	1400
DATE					9/22/89	9/22/89
CASING DEPTH						

DATUM Chicago City ELEVATION 9.1'

DRILL RIG

ANGLE vertical BEARING

SAMPLE HAMMER TORQUE FT.-LBS

SURFACE CONDITIONS

Flat - gravel, rubble surface

DRILLING CONTR ATEC

Dennis

DEPTH IN FEET (ELEVATION)	BLOWS/ 6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPCIFIC GRAVITY	OTHER TESTS
16			Bottom of boring at 16 feet.	SS							

LOGGED BY Terry Calloway

DATE 9/22/89 CHK'D BY J. Steiner

SOIL BOREHOLE LOG

SITE NAME AND LOCATION

CWM Incinerator
Chicago, IL

DRILLING METHOD: 4 1/4" ID Hollow Stem Auger

SAMPLING METHOD: Split-spoon (SS)

BORING NO. B-306

SHEET 1 OF 1

	DRILLING START	DRILLING FINISH
WATER LEVEL		
TIME	1345	1650
DATE	9/20/89	9/20/89
CASING DEPTH		

DATUM Chicago City ELEVATION 8.0'

DRILL RIG

ANGLE vertical BEARING

SAMPLE HAMMER TORQUE FT.-LBS

SURFACE CONDITIONS: Flat, gravel, weeds

DRILLING CONTR ATEC Dennis

LOGGED BY Terry Callaway

DATE 9/20/89 CHK'D BY J. Steiner

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
-	30, 100/0 (100%)		Brown to black sandy GRAVEL (fill); poorly graded; moist; very dense; some asphalt and concrete (GP)	2" SS	No casing used						
-2	70 3" (100%)			2" SS							
4	17,35, 28,22 (73%)			2" SS							
5	6,5, 5,6 (83%)		Brown sandy CLAY (fill); saturated at 7.5 feet; stiff; slight odor	2" SS							
8	1,2, 11,21 (100%)		Dark gray silty SAND (fill); some gravel; saturated; medium dense (SM)	3" SS							
10	5,2, 2,2 (65%)		Gray sandy CLAY; saturated; stiff; some organic matter (CL)	2" SS							
12	3,5, 7,8 (92%)			3" SS							
			Bottom of boring at 13.5 feet.								

SOIL BOREHOLE LOG

SITE NAME AND LOCATION
CWM Incinerator
Chicago, IL

DRILLING METHOD: 8" OD Hollow Stem Auger
SAMPLING METHOD: 2" Split-spoon (SS); 3" Split-spoon (SS)
BORING NO. B-G307
SHEET 1 OF 1

					DRILLING START	DRILLING FINISH
WATER LEVEL					TIME	TIME
TIME					1010	1315
DATE					DATE	DATE
CASING DEPTH					9/20/89	9/20/89

DATUM Chicago City ELEVATION 8.4'
DRILL RIG Mobile B-57 ATV
ANGLE vertical BEARING
SAMPLE HAMMER TORQUE FT.-LBS
SURFACE CONDITIONS: Gravel/weeds

DRILLING CONTR ATEC
D. Cass

DEPTH IN FEET (ELEVATION)	BLOWS/ 6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
-	4,3, 2,4 (54%)		gray to black silty GRAVEL (fill); some sand and clay; moist; hard (GM)	2" SS	No casing used						
2	8,8, 7,6 (67%)		Light gray sandy GRAVEL (fill); dry; poorly graded; some brick and organic matter (GP)	2" SS							
4	2,1, 1,0 (33%)		Gray to black silty SAND (fill); wet at 6.5 feet; loose to very loose; some organic matter (SM)	2" SS							
6	1,1, 1,8 (62%)			2" SS							
8	7,4, 4,3 (79%)			3" SS							
10	2,1, 5,7 (83%)			2" SS							
12	4,8, 12,13 (100%)			3" SS							
			Light gray CLAY; moist; plastic (CL)								
			Bottom of boring at 14 feet.								

LOGGED BY T. Hariu
DATE 9/20/89
CHK'D BY J. Steiner

Printed on recycled paper

SOIL BOREHOLE LOG

SITE NAME AND LOCATION
CWM Incinerator
Chicago, IL

DRILLING METHOD: 8" OD Hollow Stem Auger
SAMPLING METHOD: 2" Split-spoon (SS); 3" Split-spoon (SS)
BORING NO. B-G308
SHEET 1 OF 2

	START	FINISH
WATER LEVEL		
TIME	1540	1100
DATE	10/16/89	10/17/89
CASING DEPTH		

DRILLING CONTR ATEC
D. Cass

DATUM Chicago City ELEVATION 10.5'
DRILL RIG Mobile B-57 ATV
ANGLE vertical BEARING
SAMPLE HAMMER TORQUE FT.-LBS
SURFACE CONDITIONS

DEPTH IN FEET (ELEVATION)	BLOWS/.5 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
	14,26 (100%)		SAND and GRAVEL (fill); dry; medium dense; some concrete, wood, and brick (GP)	2" SS							
2	14,10, 6,10 (50%)		Dark brown clayey SAND (fill); some gravel; dry; medium dense; some concrete, wood, and brick (SC)	2" SS							
4	5,5, 6,7 (50%)			2" SS							
6	50 4" (100%)			2" SS							
8			Clayey GRAVEL (fill); dense (GC)								
	6,10, 26,30 (83%)		Clayey SAND (fill); trace gravel; wet; loose to dense; some concrete and wood (SC)	3" SS		No casing used					
10	4,4, 4,4 (50%)			2" SS							
12	5,10, 24,50 3" (0%)			3" SS							

LOGGED BY T. Hariu
DATE 10/16/89
CHK'D BY J. Steiner

Printed on recycled paper.

SOIL BOREHOLE LOG

SITE NAME AND LOCATION
CWM Incinerator
Chicago, IL

DRILLING METHOD: 8" OD Hollow Stem Auger
SAMPLING METHOD: 2" Split-spoon (SS); 3" Split-spoon (SS)

BORING NO. B-G308
SHEET 2 OF 2

					DRILLING START	DRILLING FINISH
WATER LEVEL					TIME	TIME
TIME					1540	1100
DATE					DATE	DATE
CASING DEPTH					10/16/89	10/17/89

DATUM Chicago City ELEVATION 10.5'
DRILL RIG Mobile B-57 ATV
ANGLE vertical BEARING
SAMPLE HAMMER TORQUE FT.-LBS
SURFACE CONDITIONS

DRILLING CONTR ATEC D. Cass

DEPTH IN FEET (ELEVATION)	BLOWS/ 6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
16	5,6, 8,8 (42%)		Gray clayey SAND (SC)	3" SS							
			Gray CLAY; plastic (CL)								
18			Bottom of boring at 18 feet.								

LOGGED BY T. Hariu
DATE 10/16/89 CHK'D BY J. Steiner

Printed on recycled paper.

SOIL BOREHOLE LOG

SITE NAME AND LOCATION: CWM Incinerator, Chicago, IL

DRILLING METHOD: 4-1/4" ID Hollow Stem Auger

SAMPLING METHOD: Split-spoon (SS)

BORING NO.: B-309

SHEET: 1 OF 2

	DRILLING START	DRILLING FINISH
WATER LEVEL		
TIME	1430	1615
DATE	9/27/89	9/27/89
CASING DEPTH		

DATUM: Chicago City ELEVATION: 12.1'

DRILL RIG:

ANGLE: vertical BEARING:

SAMPLE HAMMER TORQUE: FT.-LBS

SURFACE CONDITIONS: Grassy, slight slope

DRILLING CONTR: ATEC

LOGGED BY: Terry Calloway

DATE: 9/27/89

CHK'D BY: J. Steiner

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
	11,13, 18,12 (75%)		Brown sandy GRAVEL (fill); some clay (GC)	2" SS	No casing used						
-2	7,7, 6,8 (75%)		Brown CLAY (fill); trace to some sand; silt and gravel; moist; stiff to hard; some organic matter (CL)	2" SS							
4	4,4, 10,12 (67%)			2" SS							
5	17,5, 7,7 (58%)		strong odor at 6 feet	2" SS							
8	4,75 4" (100%)		Gray sandy GRAVEL (fill); wet at 12.5 feet; very dense; some concrete; strong odor (GP)	3" SS							
0	100 4" (100%)			2" SS							
2	13,50 2" (13%)			2" SS							

Printed on recycled paper.

SOIL BOREHOLE LOG

SITE NAME AND LOCATION: CWM Incinerator, Chicago, IL

DRILLING METHOD: 4-1/4" ID Hollow Stem Auger

SAMPLING METHOD: Split-spoon (SS)

BORING NO.: B-309

SHEET: 2 OF 2

					DRILLING START	DRILLING FINISH
WATER LEVEL					TIME	TIME
TIME					1430	1615
DATE					DATE	DATE
CASING DEPTH					9/27/89	9/27/89

DATUM: Chicago City ELEVATION: 12.1'

DRILL RIG:

ANGLE: vertical BEARING:

SAMPLE HAMMER TORQUE: FT.-LBS

SURFACE CONDITIONS: Grassy, slight slope

DRILLING CONTR: ATEC

LOGGED BY: Terry Callaway

DATE: 9/27/89

CHK'D BY: J. Steiner

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
	17,28, 15,7 (50%)		Gray sandy GRAVEL (fill); saturated; very dense; some concrete; strong odor (GP)	3" SS							
-16	8,10, 13,17 (100%		Gray CLAY; some fine grained gravel; very stiff; no odor (CL)	3" SS							
-18			Bottom of boring at 18 feet.								

Printed on recycled paper

SOIL BOREHOLE LOG

SITE NAME AND LOCATION: CWM Incinerator, Chicago, IL	DRILLING METHOD: 4-1/4" ID Hollow Stem Auger	BORING NO.: B- 310
	SAMPLING METHOD: 2" Split-spoon (SS); 3" Split-spoon (SS)	SHEET: 1 OF 2
	WATER LEVEL / TIME / DATE / CASING DEPTH	DRILLING START: TIME 1230, DATE 9/27/89; FINISH: TIME 1345, DATE 9/27/89
DATUM: Chicago City ELEVATION		
DRILL RIG	SURFACE CONDITIONS	
ANGLE: vertical BEARING		
SAMPLE HAMMER TORQUE FT.-LBS		

DRILLING CONTR ATEC Dennis

LOGGED BY Terry Calloway DATE 9/27/89 CHK'D BY J. Steiner

DEPTH IN FEET (ELEVATION)	BLOWS/ 6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
2	23,28, 15,15 (75%)		Brown sandy GRAVEL (fill); dry; dense; some asphalt (GP)	2" SS	No casing used						
4	13,10, 8,9 (75%)		Brown sandy GRAVEL (fill); some clay; moist to dry; medium dense; some bricks and asphalt (GP)	2" SS							
6	30, 100/3" (89%)		Brown to black CLAY (fill); moist; very stiff (CL)	2" SS							
8	15,9, 8,11 (67%)			2" SS							
10	7,6, 8 (100%		Brown to black sandy, silty CLAY (fill); moist; very stiff; some concrete (CL)	3" SS							
12	9,6, 12 (129%			3" SS							
	2,2, 3,3 (50%)		Brown fine-grained clayey SAND (fill); moist to wet; loose (SC) Brown to gray CLAY (fill); moist, medium plastic; some wood and bricks (CL)	2" SS							

Printed on recycled paper.

SOIL BOREHOLE LOG

SITE NAME AND LOCATION

CWM Incinerator
Chicago, IL

DRILLING METHOD: 4 1/4" ID Hollow Stem Auger

SAMPLING METHOD: 2" Split-spoon (SS) 3" Split-spoon (SS)

BORING NO. B-310

SHEET 2 OF 2

					DRILLING START	DRILLING FINISH
WATER LEVEL						
TIME					1230	1345
DATE					9/27/89	9/27/89
CASING DEPTH						

DATUM Chicago City ELEVATION

DRILL RIG

ANGLE vertical BEARING

SAMPLE HAMMER TORQUE FT.-LBS

SURFACE CONDITIONS

DRILLING CONTR ATEC Dennis

DEPTH IN FEET (ELEVATION)	BLOWS/ .4in ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
	5,8, 13,21 (75%)		Gray blue CLAY; some fine gravel; very stiff highly plastic (CH)	3" SS							
15			Bottom of boring at 16 feet.								

LOGGED BY Terry Calloway

DATE 9/27/89 CHK'D BY J. Steiner

Printed on recycled paper.

SOIL BOREHOLE LOG

SITE NAME AND LOCATION: CWM Incinerator, Chicago, IL	DRILLING METHOD: 4.25" ID Hollow Stem Auger	BORING NO.: B-311
	SAMPLING METHOD: 2" Split-spoon (SS); 3" Split-spoon (SS)	SHEET: 1 OF 2
	WATER LEVEL / TIME / DATE / CASING DEPTH	DRILLING START: TIME 1320, DATE 9/26/89; FINISH: TIME 1520, DATE 9/26/89
DATUM: Chicago City	ELEVATION: 11.3'	
DRILL RIG: Mobile B-57 ATV	SURFACE CONDITIONS: Gravel driveway	
ANGLE: Vertical	BEARING:	
SAMPLE HAMMER TORQUE:	FT.-LBS	

DRILLING CONTR: ATEC

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
0	25,15 14,15 (75%)		Brown clayey SILT (fill); dry to moist; hard; nonplastic; some organic matter; strong odor (ML)	2" SS	No casing used						
2	7,6, 6,15 (83%)			2" SS							
4	20,12 8,23 (75%)		change to bluish-black; some sand and gravel; very stiff	2" SS							
6	10,11 7,6 (58%)			2" SS							
8	7,8, 10,15 (25%)		Brown, very coarse grained GRAVEL (fill); moist; medium dense; some wood and brick (GP)	3" SS							
10			Black CLAY (fill); some medium grained sand; trace gravel; moist; stiff; slightly plastic, trace wood; moderate odor (CL)	3" SS							
12	3,47, 5,8 (29%)			2" SS							
	3,5 7,9 (46%)			2" SS							

LOGGED BY J. Steiner

DATE 9/26/89 CHK'D BY J. Steiner

Printed on recycled paper.

SOIL BOREHOLE LOG

SITE NAME AND LOCATION
CWM Incinerator
Chicago, IL

DRILLING METHOD: 4.25" ID Hollow Stem Auger

SAMPLING METHOD: 2" Split-spoon (SS); 3" Split-spoon (SS)

BORING NO. B-311

SHEET 2 OF 2

					DRILLING START	DRILLING FINISH
WATER LEVEL					TIME	TIME
TIME					1320	1520
DATE					DATE	DATE
CASING DEPTH					9/26/89	9/26/89

DATUM Chicago City ELEVATION 11.3'
DRILL RIG Mobile B-57 ATV
ANGLE Vertical BEARING
SAMPLE HAMMER TORQUE FT.-LBS
SURFACE CONDITIONS Gravel driveway

ATEC
DRILLING CONTR

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
▼	3,5, 7,9 (46%)		Black CLAY (fill); (see page 1) saturated at approx. 15 feet	2" SS							
15											
	2,16, 12,17 (100%)		Dark brown silty CLAY; trace fine and coarse grained gravel; trace sand; satuated; very stiff, plastic to very plasticity (CL-CH)	3" SS							
18			Bottom of boring at 18 feet.								

LOGGED BY J. Steiner
DATE 9/26/89
CHK'D BY J. Steiner

Printed on recycled paper.

SOIL BOREHOLE LOG

SITE NAME AND LOCATION CWM Incinerator Chicago, IL	DRILLING METHOD: 4 1/4" ID Hollow Stem Auger SAMPLING METHOD: 2" Split-spoon (SS) 3" Split-spoon (SS)	BORING NO. B-312 SHEET 1 OF 2

					DRILLING START	DRILLING FINISH
WATER LEVEL					TIME	TIME
TIME					0930	1100
DATE					DATE	DATE
CASING DEPTH					9/25/89	9/25/89

DATUM Chicago City ELEVATION 11.0'

DRILL RIG

ANGLE vertical BEARING

SAMPLE HAMMER TORQUE FT.-LBS

SURFACE CONDITIONS: Gravel, slight slope

DRILLING CONTR ATEC Dennis

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
2	12,12, 13,35 (92%)		Brown clayey SAND (fill); some gravel; moist very stiff; slight odor; some brick and asphalt	2" SS	No casing used						
4	22,20, 9,8 (83%)			2" SS							
6	5,6, 7,7 (63%)		Brown to gray CLAY (fill); moist; medium stiff to stiff; some brick fragments (CL)	2" SS							
8	3,3, 4,6 (50%)			2" SS							
10	4,5, 8,12 (100%)			3" SS							
12	4,8, 6,5 (50%)			2" SS							
	4,5, 6,5 (100%)			3" SS							

LOGGED BY Terry Calloway

DATE 9/25/89 CHK'D BY J. Steiner

Printed on recycled paper

SOIL BOREHOLE LOG

SITE NAME AND LOCATION: CWM Incinerator, Chicago, IL

DRILLING METHOD: 4-1/4" ID Hollow Stem Auger

SAMPLING METHOD: 2" Split-spoon (SS); 3" Split-spoon (SS)

BORING NO.: B-312

SHEET: 2 OF 2

					DRILLING START	DRILLING FINISH
WATER LEVEL					TIME	TIME
TIME					0930	1100
DATE					DATE	DATE
CASING DEPTH					9/25/89	9/25/89

DATUM: Chicago City ELEVATION: 11.0'

DRILL RIG:

ANGLE: vertical BEARING:

SAMPLE HAMMER TORQUE: FT.-LBS

SURFACE CONDITIONS: Gravel, slight slope

DRILLING CONTR: ATEC

LOGGED BY: Terry Calloway

DATE: 9/25/89

CHK'D BY: J. Steiner

DEPTH IN FEET (ELEVATION)	BLOWS/ 6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
	2,2, 2,2		Dark brown SAND; wet; loose (SP)		No casing used						
16	3,5, 6,7		Brown to gray CLAY; wet; soft to stiff (CL)								
18			Bottom of boring at 18 feet.								

Printed on recycled paper.

SOIL BOREHOLE LOG

SITE NAME AND LOCATION
CWM Incinerator
Chicago, IL

DRILLING METHOD:
4.25" ID Hollow Stem Auger

SAMPLING METHOD:
2" Split-spoon (SS)
3" Split-spoon (SS)

BORING NO.
B-313

SHEET 1 OF 2

DRILLING

		START	FINISH
WATER LEVEL	10.5'	TIME	TIME
TIME	1440	1330	1430
DATE	9/21	DATE	DATE
CASING DEPTH		9/21/89	9/21/89

DATUM Chicago City ELEVATION 9.2'
DRILL RIG Mobile B-57 ATV
ANGLE Vertical BEARING
SAMPLE HAMMER TORQUE FT.-LBS

SURFACE CONDITIONS
Gravel driveway

DRILLING CONTR ATEC

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
2	30,27, 21,16 (71%)		Black coarse grained GRAVEL (fill); some sand and silt; trace clay; wet at 2 feet; dense, some organic matter and concrete; mod. to strong odor (GM)	2" SS	No casing used						
	4,6, 7			2" SS							
4	5,4, 4,5 (75%)			2" SS							
6	56/3" (100%)			2" SS							
8	81, 50/3" (100%)		Bluish-black silty SAND (fill); some medium to course grained gravel; saturated; very dense; strong odor (SM)	2" SS							
10	9,13, 14,10 (75%)		Blue-gray silty CLAY; trace fine grained sand; saturated; soft; plastic (CL)	3" SS							
12	20,10, 8,9 (29%)		Black sandy SILT; trace clay and gravel; saturated; very stiff; strong odor (ML)	2" SS							

LOGGED BY J. Sicinc
DATE 9/21/89
CHK'D BY J. Sicinc

Printed on recycled paper.

SOIL BOREHOLE LOG

SITE NAME AND LOCATION CWM Incinerator Chicago, IL	DRILLING METHOD: 4.25" ID Hollow Stem Auger	BORING NO. B-313
		SHEET 2 OF 2
	SAMPLING METHOD: 2" Split-spoon (SS) 3" Split-spoon (SS)	DRILLING START TIME 1330 DATE 9/21/89 FINISH TIME 1430 DATE 9/21/89

WATER LEVEL	10.5'			
TIME	1440			
DATE	9/21			
CASING DEPTH				

DATUM Chicago City ELEVATION 9.2'

DRILL RIG Mobile B-57 ATV

ANGLE vertical BEARING

SAMPLE HAMMER TORQUE FT.-LBS

SURFACE CONDITIONS
Gravel driveway

DEPTH IN FEET (ELEVATION)	BLOWS/ 6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPCIFIC GRAVITY	OTHER TESTS
	4,6 8,11 (58%)		Black sandy SILT (ML) (see page 1)	3"							
16			Gray silty CLAY; some gravel; saturated; stiff plastic to very plastic (CH)	ss							
			Bottom of boring at 16 feet								

(3%)

DRILLING CONTR ATEC

LOGGED BY J. Steiner

DATE 9/21/89 CHK'D BY J. Steiner

SOIL BOREHOLE LOG

SITE NAME AND LOCATION: CWM Incinerator, Chicago, IL

DRILLING METHOD: 4.25" ID Hollow Stem Auger

SAMPLING METHOD: 2" Split-spoon (SS); 3" Split-spoon (SS)

BORING NO.: B-G314

SHEET: 1 OF 2

					DRILLING START	DRILLING FINISH
WATER LEVEL	11.4	7.2			TIME	TIME
TIME	1025	1320			0910	1030
DATE	9/21	9/21			DATE	DATE
CASING DEPTH					9/21/89	9/21/89

DATUM: Chicago City ELEVATION: 9.1'

DRILL RIG: ~~Mobile B-57 ATV~~

ANGLE: vertical BEARING:

SAMPLE HAMMER TORQUE: FT.-LBS

SURFACE CONDITIONS: ~~Flat gravel driveway~~

DRILLING CONTR: ATEC

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
	19, 50/4 (87%)		Black coarse grained GRAVEL (fill); some sand and silt; trace clay; moist; very dense to med. dense; angular; very organic; slight odor (GM)	2" SS	No casing used						
2	9,11, 11,13 (71%)			2" SS							
4	5,13, 6,9 (75%)			2" SS							
6	13,5 7,10 (33%)		Wet at approximately 6 ft.	2" SS							
8	9,8, 10,12 (83%)		Brownish-black CLAY (fill); trace silt; wet; very stiff; slightly plastic (CL)	3" SS							
10	10,18 26,8 (67%)		Brownish-black SILT (fill); some sand and gravel; saturated; hard to medium stiff; nonplastic; trace to some organic matter; strong odor (ML)	2" SS							
12	2,3 3,3 (75%)			3" SS							

LOGGED BY J. Sicinc

DATE 9/21/89 CHK'D BY J. Sicinc

Printed on recycled paper.

SOIL BOREHOLE LOG

SITE NAME AND LOCATION: CWM Incinerator, Chicago, IL	DRILLING METHOD: 4.25" ID Hollow Stem Auger					BORING NO. B-G314
						SHEET 2 OF 2
	SAMPLING METHOD: 2" Split-spoon (SS); 3" Split-spoon (SS)					DRILLING START / FINISH
	WATER LEVEL	11.4	7.2			TIME 0910 / 1030
	TIME	1025	1320			
	DATE	9/21	9/21			DATE 9/21/89 / 9/21/89
	CASING DEPTH					

DATUM: Chicago City — ELEVATION: 9.1'
DRILL RIG: Mobile B-57 ATV — SURFACE CONDITIONS: Flat gravel driveway
ANGLE: vertical — BEARING:
SAMPLE HAMMER TORQUE: FT.-LBS

DRILLING CONTR: ATEC

DEPTH IN FEET (ELEVATION)	BLOWS/ 6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
-	2,3 7,5 (83%)		Brownish-black SILT (fill) (ML) (see page 1)								
16			Brownish-black CLAY; trace silt, saturated; stiff; plastic (CL)								
			Bottom of boring at 16 feet								

LOGGED BY J. Steiner
DATE 9/21/89
CHK'D BY J. Steiner

Printed on recycled paper.

SOIL BOREHOLE LOG

SITE NAME AND LOCATION

CWM Incinerator
Chicago, IL

DRILLING METHOD:	6-1/2" ID Hollow Stem Auger
SAMPLING METHOD:	Split spoon (SS)
BORING NO.	B-215
SHEET	1 OF 1
DRILLING START TIME	0945
DRILLING FINISH TIME	1045
WATER LEVEL TIME	
WATER LEVEL DATE	
CASING DEPTH	
DRILLING START DATE	9/19/89
DRILLING FINISH DATE	9/19/89

DATUM Chicago City ELEVATION 8.5'

DRILL RIG

ANGLE vertical BEARING

SAMPLE HAMMER TORQUE FT.-LBS

SURFACE CONDITIONS: Flat, gravel with weeds

DRILLING CONTR ATEC

Dan

DEPTH IN FEET (ELEVATION)	BLOWS/ 6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
0	10,16, 27,30 (95%)		Black silty SAND (fill); some gravel at surface; wet at 4.5 feet; poorly graded; hard (SM)	2" SS	No casing used						
2				2" SS							
4	100 4" (100%)			2" SS							
6	19,100 100/3" (88%)			2" SS							
8	8,6, 6,10 (94%)			3" SS							
10	4,3, 3,2 (65%)		Light gray CLAY (fill); trace silt and sand; moist; medium stiff (CL)	2" SS							
12	7,6, 4,6 100%)			3" SS							
			Light gray CLAY (CL)								
			Bottom of boring at 14 feet.								

LOGGED BY Tina Hariu

DATE 9/19/89

CHK'D BY J. Sicinc

SOIL BOREHOLE LOG

SITE NAME AND LOCATION: CWM Incinerator, Chicago, IL

DRILLING METHOD: 4-1/4" ID Hollow Stem Auger

SAMPLING METHOD: Split-spoon (SS); Shelby Tube (SH)

BORING NO.: B-P316

SHEET: 1 OF 3

WATER LEVEL					DRILLING START TIME: 0900
TIME					DRILLING FINISH TIME: 1430
DATE					START DATE: 10/18/89
CASING DEPTH					FINISH DATE: 10/19/89

DATUM: Chicago City ELEVATION: 15.1'

DRILL RIG:

ANGLE: vertical BEARING:

SAMPLE HAMMER TORQUE: FT.-LBS

SURFACE CONDITIONS: Grassy, slight slope to SW

DRILLING CONTR: ATEC

Dennis

DEPTH IN FEET (ELEVATION)	BLOWS/6IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
	11,24, 50/1" (85%)		Topsoil - black silt (ML)	2" SS							
-2	40,55 35,23 (75%)		Brown clayey SAND (fill); some gravel; dry; dense; some brick and wood (SC)	2" SS							
-4			Gravely CLAY (fill); dry; very dense; slight odor (CL)								
6	24,30 34,26 (87%)		Sandy GRAVEL (fill); some clay; wet at 6 feet; very dense; some wood and slag (GP)	2" SS	No casing used						
8	11,10 10,13 (62%)			2" SS							
10	18,18 12,6 (62%)			3" SS							
12	2,3, 3,3 (50%)		Black SILT (fill); wet; medium stiff; very organic; some brick and wood; strong sewage odor (OL)	2" SS							
	10,24 24,50/3" (71%)			2" SS							

LOGGED BY Terry Callaway

DATE 10/18/89

CHK'D BY J. Steiner

Printed on recycled paper.

SOIL BOREHOLE LOG

SITE NAME AND LOCATION: CWM Incinerator, Chicago, IL

DRILLING METHOD: 4 1/4" ID Hollow Stem Auger

SAMPLING METHOD: Split-spoon (SS); Shelby Tube (SH)

BORING NO.: B-P316

SHEET: 2 OF 3

					DRILLING START	DRILLING FINISH
WATER LEVEL					TIME	TIME
TIME					0900	1430
DATE					DATE	DATE
CASING DEPTH					10/18/89	10/19/89

DATUM: Chicago City ELEVATION: 151'

DRILL RIG:

ANGLE: vertical BEARING:

SAMPLE HAMMER TORQUE: FT.-LBS

SURFACE CONDITIONS: Grassy, slight slope to SW

DRILLING CONTR: ATEC

Dennis

DEPTH IN FEET (ELEVATION)	BLOWS/ 6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPCIFIC GRAVITY	OTHER TESTS
	17,17, 8,7 (37%)		Black SILT (fill) (see page 1)	3" SS							
16	8,5, 4,4 (37%)		Black silty GRAVEL (fill); some sand; wet; medium dense; some concrete; slight odor (GM)	2" SS							
18	3,5, 7,7 (71%)		Gray CLAY (fill); some fine grained gravel and sand; wet; stiff to very stiff; slight odor (CL)	2" SS							
20	6,8, 15,18 (67%)			3" SS							
22				SH							
4				SH							
6	4,5, 9 (56)			SH							
			Gray CLAY (see page 3)								

LOGGED BY Terry Callaway

DATE 10/18/89

CHK'D BY J. Steiner

Printed on recycled paper

SOIL BOREHOLE LOG

SITE NAME AND LOCATION: CWM Incinerator, Chicago, IL

DRILLING METHOD: 4.1/4" ID Hollow Stem Auger

SAMPLING METHOD: Split-spoon (SS); Shelby Tube (SH)

BORING NO. B-P316

SHEET 3 OF 3

					DRILLING START	DRILLING FINISH
WATER LEVEL					TIME	TIME
TIME					0900	1430
DATE					DATE	DATE
CASING DEPTH					10/18/89	10/19/89

DATUM Chicago City ELEVATION 15.1'

DRILL RIG

ANGLE vertical BEARING

SAMPLE HAMMER TORQUE FT.-LBS

SURFACE CONDITIONS: Grassy, slight slope to SW

DRILLING CONTR ATEC Dennis

LOGGED BY Terry Callaway

DATE 10/18/89 CHK'D BY J. Steiner

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
-30	7,12, 16 (72%)		Gray CLAY; some fine grained gravel; stiff to very stiff (CL)	3" SS							
				3" SS							
32			Bottom of boring at 31 feet.								

Printed on recycled paper.

SOIL BOREHOLE LOG

SITE NAME AND LOCATION: CWM Incinerator, Chicago, IL	DRILLING METHOD: 4-1/4" ID Hollow Stem Auger	BORING NO. B-G317
	SAMPLING METHOD: 2" Split-spoon (SS)	SHEET 1 OF 1
		DRILLING START TIME 1240 DATE 10/13/89
		DRILLING FINISH TIME 1330 DATE 10/13/89
DATUM Chicago City ELEVATION 15.5'	WATER LEVEL / TIME / DATE / CASING DEPTH	
DRILL RIG	SURFACE CONDITIONS: Grassy, flat	
ANGLE vertical BEARING		
SAMPLE HAMMER TORQUE FT.-LBS		

ATEC

DRILLING CONTR Dennis

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
1	5,11, 50/3" (80%)		Brown CLAY (fill); some gravel; dry; very hard; some brick, glass, and concrete (CL)	2" SS	No casing used						
2	6,7, 12,15 (71%)		silty sand layer at 2.75 feet	2" SS							
4	8,11, 6,16 (83%)		Black silty SAND (fill); moist; medium dense; slight odor (SM)	2" SS							
5	15,22, 21,25 (92%)		Brown to gray sandy CLAY (fill); some gravel; hard; slight odor; some concrete, brick, and wood (CL)	2" SS							
8	17,50, 5,7 (42%)			2" SS							
10	5,4, 4,14		Brown sandy GRAVEL (fill); oily; strong petroleum odor (GP)	2" SS							
12			Bottom of boring at 12 feet.								

LOGGED BY Terry Calloway

DATE 10/13/89 CHK'D BY J. Sicinc

Printed on recycled paper.

SOIL BOREHOLE LOG

SITE NAME AND LOCATION
CWM Incinerator
Chicago, IL

DRILLING METHOD: 8" OD Hollow Stem Auger
SAMPLING METHOD: 2" Split-spoon (SS); 3" Split-spoon (SS)

BORING NO. B-G317B
SHEET 1 OF 2

	DRILLING START	DRILLING FINISH
TIME	1345	1650
DATE	10/26/89	10/26/89

WATER LEVEL	
TIME	
DATE	
CASING DEPTH	

DATUM Chicago City ELEVATION 15.1'
DRILL RIG Mobile B-57 ATV
ANGLE vertical BEARING
SAMPLE HAMMER TORQUE FT.-LBS
SURFACE CONDITIONS: Grassy

ATEC
DRILLING CONTR

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
	6,7, 8 (100%)		Brown clayey GRAVEL (fill); some sand; dry medium to very dense; some organic matter;	2" SS	No casing used						
2	15, 50/2"			2" SS							
4	4,6, 20,21 (62%)			2" SS							
▼ 6	9,12, 12,12 (67%)		Wet at 6 feet; slight odor	2" SS							
8	10,10, 10,10 (54%)		Brown very coarse grained SAND; some gravel; wet; medium dense; slight odor								
10	16,18, 15,15 (100%)			3" SS							
12	12,12, 18,21 (75%)			2" SS							

LOGGED BY T. Hariu
DATE 10/26/89
CHK'D BY J. Steiner

Printed on recycled paper.

SOIL BOREHOLE LOG

SITE NAME AND LOCATION CWM Incinerator Chicago, IL	DRILLING METHOD: 8" OD Hollow Stem Auger	BORING NO. B-G317B
		SHEET 2 OF 2
	SAMPLING METHOD: 2" Split-spoon (SS) 3" Split-spoon (SS)	DRILLING START / FINISH
	WATER LEVEL / TIME / DATE / CASING DEPTH	TIME 1345 / TIME 1650 DATE 10/26/89 / DATE 10/26/89
DATUM Chicago City ELEVATION 15.1'		
DRILL RIG Mobile B-57 ATV	SURFACE CONDITIONS	
ANGLE vertical BEARING	Grassy	
SAMPLE HAMMER TORQUE FT.-LBS		

ATEC

DRILLING CONTR

DEPTH IN FEET (ELEVATION)	BLOWS/.5 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
16	9, 50/2"		Brown to black sandy GRAVEL (fill); wet; very dense; some wood; strong odor (GP)	3" SS							
	35, 50/2" (100%)			2" SS							
18	23,3, 3,5 (37%)		Gray sandy SILT (fill); some clay; wet; medium stiff; slightly plastic; strong odor (ML)	2" SS							
20	9,6, 9,12 (46%)		Gray CLAY; stiff; plastic (CL)	2" SS							
22			Bottom of boring at 22 feet								

LOGGED BY T. Hariu

DATE 10/26/89 CHK'D BY J. Steiner

Printed on recycled paper.

SOIL BOREHOLE LOG

SITE NAME AND LOCATION: CWM Incinerator, Chicago, IL	DRILLING METHOD: 4 1/4" ID Hollow Stem Auger	BORING NO. B-G318
	SAMPLING METHOD: Split Spoon (SS), Shelby Tube (SH)	SHEET 1 OF 2
	WATER LEVEL / TIME / DATE	DRILLING START TIME 1015 DATE 10/10/89; FINISH TIME 1330 DATE 10/10/89
	CASING DEPTH	

DATUM Chicago City ELEVATION 12.7'

DRILL RIG

ANGLE vertical BEARING

SAMPLE HAMMER TORQUE FT.-LBS

SURFACE CONDITIONS: Flat, grassy

DRILLING CONTR. ATEC Dennis

LOGGED BY Terry Callaway

DATE 10/10/89 CHK'D BY J. Steiner

DEPTH IN FEET (ELEVATION)	BLOWS/ 6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
-	14,12, 7,9 (71%)		Silty SAND (fill); some gravel; dry; medium dense; some gravel, slag, and concrete; slight odor (SM)	2" SS	No casing used						
2	8,14, 13,12 (71%)		Brown to gray CLAY (fill); some gravel and organic matter; moist; medium stiff to hard; slightly plastic; some concrete, brick, wood, and asphalt (CL)	2" SS							
4	3,3, 3,3 (29%)			2" SS							
6	2,2, 3,3 (25%)			2" SS							
8	3,5, 6 (66%)			3" SS							
10	10,20 20 (78%)			3" SS							
12	4,4, 4,5 (54%)			2" SS							
14											

Printed on recycled paper.

SOIL BOREHOLE LOG

SITE NAME AND LOCATION: CWM Incinerator, Chicago, IL

DRILLING METHOD: 4-1/4" ID Hollow Stem Auger

SAMPLING METHOD: Split Spoon (SS); Shelby Tube (SH)

BORING NO. B-G318

SHEET 2 OF 2

					DRILLING START	DRILLING FINISH
WATER LEVEL					TIME	TIME
TIME					1015	1330
DATE					DATE	DATE
CASING DEPTH					10/10/89	10/10/89

DATUM: Chicago City ELEVATION: 12.7'

DRILL RIG:

ANGLE: Vertical BEARING:

SAMPLE HAMMER TORQUE: FT.-LBS

SURFACE CONDITIONS: Flat, grassy

DRILLING CONTR: ATEC

Dennis

DEPTH IN FEET (ELEVATION)	BLOWS/ 6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
	4,8, 6,6 (100%)		Brown to gray CLAY (fill) (see page 1)	3" SS							
16	3,4, 7,8 (71%)		Gray CLAY;some fine grained gravel; moist; stiff to hard (CL)	2" SS							
18	6,9, 14,20 (100%)			3" SS							
20	(100%)		Gradation Analysis GR 0 SA 14 SI 52 CL 34	SH			18	34	19		K = 3.91 x 10^{-8} cm/sec
22	6,8, 12,14 (100%)			2" SS							
24	8,9 12,14 (100%)			2" SS							
26	11,15, 22,24 (100%)			3" SS							
			Bottom of boring at 28 feet.								

LOGGED BY Terry Callaway

DATE 10/10/89

CHK'D BY J. Steiner

Printed on recycled paper.

SOIL BOREHOLE LOG

SITE NAME AND LOCATION CWM Incinerator Chicago, IL	DRILLING METHOD: 4-1/4" ID Hollow Stem Auger	BORING NO. B-P319
	SAMPLING METHOD: Split-spoon (SS)	SHEET 1 OF 2
		DRILLING START / FINISH
WATER LEVEL		TIME 1315 / TIME 1715
TIME		
DATE		DATE 10/5/89 / DATE 10/9/89
CASING DEPTH		
DATUM Chicago City ELEVATION 12.6'		
DRILL RIG Mobile B-57 ATV	SURFACE CONDITIONS Flat, gravel surface	
ANGLE BEARING		
SAMPLE HAMMER TORQUE FT.-LBS		

DRILLING CONTR ATEC Dennis

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
0	10,7, 7,9 (71%)		Sandy GRAVEL (fill); medium dense	2" ss	No casing used						
2	12,19, 13,13 (83%)		Sandy CLAY (fill); dry; stiff; some concrete (CL)	2" ss							
4	8,6, 3,4 (54%)		Dark brown to black sandy GRAVEL (fill); some clay and organic matter; moist; loose; some wood, brick, and slag; odor (GP)	2" ss							
6	3,4, 22,38 (67%)		CLAY (fill); some gravel; wet; stiff (CL)	2" ss							
8	22,13, 46 (89%)		Sandy GRAVEL (fill); some silt; wet; medium dense; some brick (GP)	3" ss							
10	4,9, 5,14 (50%)		Black CLAY (fill); some gravel; wet; stiff; very organic (OL)	2" ss							
12	17,5, 5,6 (38%)		Black sandy GRAVEL (fill); wet; loose; some organic matter (GP)	2" ss							

LOGGED BY Terry Callaway

DATE 10/5/89 CHK'D BY J. Steiner

Printed on recycled paper

SOIL BOREHOLE LOG

SITE NAME AND LOCATION: CWM Incinerator, Chicago, IL	DRILLING METHOD: 4-1/4" ID Hollow Stem Auger	BORING NO. B-P319
	SAMPLING METHOD: Split-spoon (SS)	SHEET 2 OF 2
		DRILLING START TIME 1315 DATE 10/5/89
		DRILLING FINISH TIME 1715 DATE 10/9/89
DATUM Chicago City ELEVATION 12.6'	WATER LEVEL / TIME / DATE / CASING DEPTH	
DRILL RIG Mobile B-57 ATV	SURFACE CONDITIONS: Flat, gravel Surface	
ANGLE BEARING		
SAMPLE HAMMER TORQUE FT.-LBS		

DRILLING CONTR ATEC

LOGGED BY Terry Calloway

DATE 10/5/89

Dennis

CHK'D BY J. Steiner

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
16	46, 65/3" (44%)		Black sandy GRAVEL (fill); wet; medium dense; some slag; brick and wood (GP)	3" SS							
	20,7, 4,12 (100%)		Gray to black silty CLAY; some sand and fine grained gravel; very stiff to hard; some organic matter (CL)	3" SS							
18	5,5, 7,8										
20											
22											
24			Gradation Analysis GR 0 SA 9 SI 44 CL 47	SH			22	36	18		$K = 2.01 \times 10^{-4}$ cm/sec
26											
			Bottom of boring at 29 feet.								

SOIL BOREHOLE LOG

SITE NAME AND LOCATION: CWM Incinerator, Chicago, IL	DRILLING METHOD: 4-1/4" ID Hollow Stem Auger	BORING NO. B-320
	SAMPLING METHOD: Split-spoon (SS)	SHEET 1 OF 2
	WATER LEVEL / TIME / DATE / CASING DEPTH	DRILLING START: TIME 1315, DATE 9/26/89; FINISH: TIME 1145, DATE 9/27/89
DATUM Chicago City	ELEVATION 12.0'	
DRILL RIG	SURFACE CONDITIONS: Flat gravel drive	
ANGLE vertical	BEARING	
SAMPLE HAMMER TORQUE	FT.-LBS	

DRILLING CONTR ATEC — Dennis

DEPTH IN FEET (ELEVATION)	BLOWS/6" ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
0	6,9, 15,20 (75%)		Brown CLAY (fill); some sand and gravel; dry; very stiff; slight odor; some brick, wood, asphalt, and concrete (CL)	2" SS	No casing used						
-2	10,10 11,36 (71%)			2" SS							
-4	23,12, 22,36 (63%)			2" SS							
-6	10,12, 8,6 (63%)		Sandy GRAVEL (fill); some clay; moist to wet (GP)	2" SS							
-8	4,4, 4,6 (71%)		Brown CLAY (fill); some sand and gravel; some organic matter; wet at 11 feet; stiff to very stiff; some brick, wood, and concrete (CL)	2" SS							
-10	6,5, 5,7 (100%)			3" SS							
-12	5,8, 12,7 (46%)			2" SS							

LOGGED BY Terry Calloway — CHK'D BY J. Steiner

DATE 9/26/89

Printed on recycled paper

SOIL BOREHOLE LOG

SITE NAME AND LOCATION

CWM Incinerator
Chicago, IL

DRILLING METHOD: 4.1/4" ID Hollow Stem Auger

SAMPLING METHOD:
2" Split-spoon (SS)
3" Split-spoon (SS)

BORING NO. B-320

SHEET 2 OF 2

					DRILLING START	DRILLING FINISH
WATER LEVEL						
TIME					1315	1145
DATE					9/26/89	9/27/89
CASING DEPTH						

DATUM Chicago City ELEVATION 12.0'

DRILL RIG

ANGLE vertical BEARING

SAMPLE HAMMER TORQUE FT.-LBS

SURFACE CONDITIONS: Flat gravel drive

DRILLING CONTR ATEC Dennis

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
	4,4, 5,6 (75%)		Brown CLAY (Fill) (see page 1)	2" SS							
16	4,5, 7,12 (79%)		Gray CLAY; some fine grained gravel; moist; stiff	3" SS							
			Bottom of boring at 18 feet.								

LOGGED BY Terry Callaway

DATE 9/27/89 CHK'D BY J. Steiner

Printed on recycled paper.

SOIL BOREHOLE LOG

SITE NAME AND LOCATION: CWM Incinerator, Chicago, IL	DRILLING METHOD: 4-1/4" ID Hollow Stem Auger	BORING NO. B-321
	SAMPLING METHOD: 2" Split-spoon (SS); 3" Split-spoon (SS)	SHEET 1 OF 2
	WATER LEVEL / TIME / DATE / CASING DEPTH	DRILLING START: TIME 0820, DATE 9/26/89; FINISH: TIME 0935, DATE 9/26/89
DATUM Chicago City ELEVATION 12.0'		
DRILL RIG	SURFACE CONDITIONS: Gravel Drive, Flat	
ANGLE vertical BEARING		
SAMPLE HAMMER TORQUE FT.-LBS		

DRILLING CONTR ATEC

Dennis

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
2	12,9, 12,26 (96%)		Brown sandy GRAVEL (fill); some clay; dry; medium dense; slight odor; some ash and asphalt (GP)	2" SS	No casing used						
	12,4, 7,12 (92%)		CLAY (fill); moist; stiff; some brick and concrete (CL)	2" SS							
6	12,8, 10,12 (79%)		Brown to black clayey SAND (fill); wet at 6 feet; medium dense; slight odor; some gravel; wood and slag (SC)	2" SS							
8	6,6, 8,6 (67%)		CLAY (fill); wet; stiff; some brick and wood (CL)	2" SS							
10	4,5, 4,4 (42%)			2" SS							
12	11,12, 10,9 (25%)			3" SS							
14	5,4, 7,7 (50%)			3" SS							

LOGGED BY Terry Calloway

DATE 9/26/89

CHK'D BY J. Steiner

Printed on recycled paper.

SOIL BOREHOLE LOG

SITE NAME AND LOCATION

CWM Incinerator
Chicago, IL

DRILLING METHOD: 4 1/4" ID Hollow Stem Auger

SAMPLING METHOD: 2" Split-spoon (SS)
3" Split-spoon (SS)

BORING NO. B-321

SHEET 2 OF 2

					DRILLING START	DRILLING FINISH
WATER LEVEL						
TIME					0820	0935
DATE					9/26/89	9/26/89
CASING DEPTH						

DATUM Chicago City ELEVATION 12.0'

DRILL RIG

ANGLE vertical BEARING

SAMPLE HAMMER TORQUE FT.-LBS

SURFACE CONDITIONS: Gravel Drive, Flat

DRILLING CONTR ATEC

Dennis

DEPTH IN FEET (ELEVATION)	BLOWS/ 6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
	4,4, 3,4 (67%)		CLAY (fill) (see page 1)	3"							
-16			Black SAND; fine grained; roots; wet (SP)	ss							
			Gray CLAY; wet; medium stiff (CL)								
			Bottom of boring at 17 feet.								

LOGGED BY Tony Calloway

DATE 9/26/89

CHK'D BY J. Steiner

Printed on recycled paper.

SOIL BOREHOLE LOG

SITE NAME AND LOCATION: CWM Incinerator, Chicago, IL	DRILLING METHOD: 4.25" ID Hollow Stem Auger	BORING NO.: B-P322
		SHEET: 1 OF 2
	SAMPLING METHOD: 2" Split-spoon (SS); 3" Split-spoon (SS)	DRILLING: START TIME 1110 DATE 9/22/89; FINISH TIME 1500 DATE 9/22/89
	WATER LEVEL / TIME / DATE / CASING DEPTH	
DATUM: Chicago City ELEVATION: 9.4'		
DRILL RIG: Mobile B-57 ATV	SURFACE CONDITIONS: Gravel driveway	
ANGLE: vertical BEARING:		
SAMPLE HAMMER TORQUE: FT.-LBS		

DRILLING CONTR ATEC

LOGGED BY J. Steiner

DATE 9/22/89 CHK'D BY J. Steiner

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
2	12,21, 17,8 (83%)		Gray very coarse grained silty GRAVEL (fill); saturated at 3 feet; medium dense to dense; oily; strong odor (GM)	2" SS	No casing used						
4	4,10, 17,9 (83%)			2" SS							
	9,7, 20,11 (75%)			2" SS							
6	5,7, 8,6 (92%)			2" SS							
8	4,4, 5,7 (96%)		Gray CLAY (fill); trace silt; medium stiff; plastic; some brick; oily; very strong odor (CL)	2" SS							
10	10,11 21,18 (87%)			3" SS							
12	4,4, 10,11 (12%)			2" SS							
	10,8 4,3 (75%)			2" SS							

SOIL BOREHOLE LOG

SITE NAME AND LOCATION: CWM Incinerator, Chicago, IL	DRILLING METHOD: 4.25" ID Hollow Stem Auger	BORING NO. B-P322
	SAMPLING METHOD: 2" Split-spoon (SS); 3" Split-spoon (SS)	SHEET 2 OF 2
	WATER LEVEL / TIME / DATE / CASING DEPTH	DRILLING START: TIME 1110, DATE 9/22/89; FINISH: TIME 1500, DATE 9/22/89
DATUM: Chicago City	ELEVATION: 9.4'	
DRILL RIG: Mobile B-57 ATV	SURFACE CONDITIONS: Gravel driveway	
ANGLE: vertical	BEARING:	
SAMPLE HAMMER TORQUE:	FT.-LBS	

ATEC

DRILLING CONTR

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPCIFIC GRAVITY	OTHER TESTS
	10,8 4,3 (75%)		Gray CLAY (see page 1)	2" SS	No casing used						
16			Brownish-gray CLAY; trace silt; saturated; medium stiff to very hard; plastic (CL)	3" SS							
				3" SS							
20											
22											
24											
26											
28	14,21, 47,17 (100%)		Bottom of boring at 30 feet	3" SS							

LOGGED BY J. Steiner

DATE 9/22/89

CHK'D BY J. Steiner

SOIL BOREHOLE LOG

SITE NAME AND LOCATION: CWM Incinerator, Chicago, IL	DRILLING METHOD: 4-1/4" ID Hollow Stem Auger	BORING NO. B-P323
	SAMPLING METHOD: 2" Split-spoon (SS); 3" Split-spoon (SS)	SHEET 1 OF 2
	WATER LEVEL / TIME / DATE / CASING DEPTH	DRILLING START: TIME 1415, DATE 9/20/89; FINISH: TIME 1530, DATE 9/21/89
DATUM: Chicago City	ELEVATION: 9.13'	
DRILL RIG: Mobile B-57 ATV	SURFACE CONDITIONS: Flat, gravel, weeds	
ANGLE: vertical	BEARING:	
SAMPLE HAMMER TORQUE:	FT.-LBS:	

DRILLING CONTR ATEC

Dennis

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
2	9,29, 12,13 (83%)		Brown sandy GRAVEL (fill); dry; poorly graded; dense; some asphalt (GP)	2" SS	No casing used						
	25,7, 8,7 (67%)		Sandy SILT (fill); some clay and organic matter; moist; stiff; strong odor (SM)	2" SS							
6	4,7, 11,4 (54%)		Gray CLAY (fill); some organic matter; very stiff (CL)	2" SS							
8	6,14, 30,45 (100%		Brown to black sandy SILT (fill); some gravel and organic matter; wet at 8.5 feet; odor (ML)	3" SS							
10	5,4, 4,5 (75%)			2" SS							
12	3,4, 2,4 (75%)			2" SS							
	3,3, 4,4 (100%			3" SS							
			Gray CLAY; wet; medium stiff								

LOGGED BY Terry Callaway

DATE 9/21/89 CHK'D BY J. Steiner

Printed on recycled paper.

SOIL BOREHOLE LOG

SITE NAME AND LOCATION
CWM Incinerator
Chicago, IL

DRILLING METHOD: 4-1/4" ID Hollow Stem Auger
SAMPLING METHOD: 2" Split-spoon (SS); 3" Split-spoon (SS)
BORING NO. B-P323
SHEET 2 OF 2

	DRILLING START	DRILLING FINISH
WATER LEVEL		
TIME	1415	1530
DATE	9/20/89	9/21/89
CASING DEPTH		

DATUM Chicago City ELEVATION 9.13'
DRILL RIG Mobile B-57 ATV
ANGLE vertical BEARING
SAMPLE HAMMER TORQUE FT.-LBS
SURFACE CONDITIONS: Flat, gravel, weeds

DRILLING CONTR ATEC
Dennis

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
	3,3, 4,5 (100%)		Gray CLAY; wet; medium stiff (CL)	3" SS							
16											
18											
20											
22	8,11, 12,18 (100%)		becomes very stiff to hard; dark gray streaks	3" SS							
24	9,18 20,24 (100%)			3" SS							
26	32,82 72 (100%)			3" SS							
			Bottom of boring at 27 feet.								

LOGGED BY Terry Callaway
DATE 9/21/89
CHK'D BY J. Sicinc

Printed on recycled paper

SOIL BOREHOLE LOG

SITE NAME AND LOCATION CWM Incinerator Chicago, IL	DRILLING METHOD: 8.25" OD Hollow Stem Auger	BORING NO. B-G324A
		SHEET 1 OF 2
	SAMPLING METHOD: 2" Split-spoon (SS) 3" Split-spoon (SS)	DRILLING START: TIME 1315, DATE 10/17/89 FINISH: TIME 1600, DATE 10/17/89
	WATER LEVEL / TIME / DATE / CASING DEPTH	
DATUM Chicago City ELEVATION 9.4'		
DRILL RIG Mobile B-57 ATV	SURFACE CONDITIONS Grass	
ANGLE vertical BEARING		
SAMPLE HAMMER TORQUE FT.-LBS		

DRILLING CONTR ATEC

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
0	5,10, 5 (67%)		Dark to medium brown sandy GRAVEL (fill): trace silt; dry; medium dense to very dense; some wood and cement fragments (GP)	2" SS	No casing used						
2	10, 50/4" (40%)			2" SS							
4	7,7, 7,7 (25%)			2" SS							
5	5,11, 14,14 (37%)		Clayey SAND (fill); damp, medium dense; slightly plastic fines; some brick and wood fragments (SC)	2" SS							
8	37,60, 27,15 (33%)		Silty GRAVEL (fill); occassional clay lamina; saturated; very dense (GM)	3" SS							
10	4,5, 19,7 (21%)		Dark gray to brown silty SAND; trace clay; saturated; medium dense (SM)	2" SS							
12	25,19, 17,8 (67%)		Dark brown clayey SAND; some gravel; saturated; dense (SC)	3" SS							
			Sandy CLAY; saturated; plastic to very plastic (CH)								

LOGGED BY T. Hariu
DATE 10/17/89 CHK'D BY J. Steiner

Printed on recycled paper.

SOIL BOREHOLE LOG

SITE NAME AND LOCATION
CWM Incinerator
Chicago, IL

DRILLING METHOD: 8.25" OD Hollow Stem Auger
SAMPLING METHOD: 2" Split-spoon (SS); 3" Split-spoon (SS)

BORING NO. B-G324A
SHEET 2 OF 2

					DRILLING START	DRILLING FINISH
WATER LEVEL					TIME	TIME
TIME					1315	1600
DATE					DATE	DATE
CASING DEPTH					10/17/89	10/17/89

DATUM Chicago City ELEVATION 9.4'
DRILL RIG Mobile B-57 ATV
ANGLE vertical BEARING
SAMPLE HAMMER TORQUE FT.-LBS
SURFACE CONDITIONS: Grass

DRILLING CONTR ATEC

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
	8,11, 15,21 (42%)		Sandy CLAY; saturated; plastic to very plastic (CH)	2" SS							
16			Bottom of boring at 16 feet.								

LOGGED BY T. Hariu
DATE 10/17/89
CHK'D BY J. Steiner

Printed on recycled paper

SOIL BOREHOLE LOG

SITE NAME AND LOCATION: CWM Incinerator, Chicago, IL	DRILLING METHOD: 8" OD Hollow Stem Auger	BORING NO.: B-G324
	SAMPLING METHOD: 2" Split-spoon (SS); 3" Split-spoon (SS)	SHEET: 1 OF 2
	WATER LEVEL / TIME / DATE / CASING DEPTH	DRILLING START TIME: 0830, DATE: 10/24/89; FINISH TIME: 1500, DATE: 10/24/89
DATUM: Chicago City	ELEVATION: 10.8'	
DRILL RIG: Mobile B-57 ATV	SURFACE CONDITIONS: Grass	
ANGLE: vertical	BEARING:	
SAMPLE HAMMER TORQUE:	FT.-LBS	

DRILLING CONTR ATEC — D. Cass

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPCIFIC GRAVITY	OTHER TESTS
2	5,5, 7,10 (100%)		Brown clayey GRAVEL (fill); moist; stiff; plastic; some organic matter and brick (GC)	2" SS	No casing used						
4	4,4, 6,6 (23%)			2" SS							
6	2,2, 4,7 (33%)			2" SS							
8	5,5, 5,7 (48%)		Brown clayey SAND (fill); some silt; moist; stiff (SC)	2" SS							
10	4,6, 70,60 (75%)			3" SS							
12	15,18 100/3" (80%)		Gray to black gravelly SAND (fill); wet; poorly graded; very dense; slight odor (SP)	2" SS							
	21,28, 18,28 (88%)		Gray CLAY (fill); plastic (CL)	3" SS							
			Gray gravelly SAND (fill); trace to some silt; wet; slight odor; trace brick and wood (SM)								

LOGGED BY T. Hariu — DATE 10/24/89 — CHK'D BY J. Steiner

Printed on recycled paper.

SOIL BOREHOLE LOG

SITE NAME AND LOCATION CWM Incinerator Chicago, IL	DRILLING METHOD: 8" OD Hollow Stem Auger SAMPLING METHOD: 2" Split-spoon (SS) 3" Split-spoon (SS)	BORING NO. B-G324 SHEET 2 OF 2

		DRILLING START	DRILLING FINISH
WATER LEVEL			
TIME		0830	1500
DATE		10/24/89	10/24/89
CASING DEPTH			

DATUM Chicago City ELEVATION 10.8'

DRILL RIG Mobile B-57 ATV

ANGLE vertical BEARING

SAMPLE HAMMER TORQUE FT.-LBS

SURFACE CONDITIONS: Grass

ATEC

DRILLING CONTR D. Cass

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
	12,12, 5,5 (37%)		Gray gravelly SAND (fill) (See page 1)	2" SS							
16			Gray CLAY; stiff; plastic (CL)								
			Bottom of boring at 16 feet.								

LOGGED BY T. Hariu

DATE 10/24/89 CHK'D BY J. Sicinc

SOIL BOREHOLE LOG

SITE NAME AND LOCATION CWM Incinerator Chicago, IL	DRILLING METHOD: 4.25" ID Hollow Stem Auger	BORING NO. B-325
		SHEET 1 OF 2
	SAMPLING METHOD: 2" Split-spoon (SS) 3" Split-spoon (SS)	DRILLING START: TIME 1435, DATE 9/27/89 FINISH: TIME 1535, DATE 9/27/89
	WATER LEVEL / TIME / DATE / CASING DEPTH	
DATUM Chicago City ELEVATION 12.0'		
DRILL RIG Mobile B-57 ATV	SURFACE CONDITIONS Gravel driveway, weeds	
ANGLE Vertical BEARING		
SAMPLE HAMMER TORQUE FT.-LBS		

DRILLING CONTR. ATEC

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
	3,3, 3,3 (71%)		Dark brown clayey SILT (fill); trace medium grained sand; moist; medium stiff (ML)	2" SS	No casing used						
2	13,12 18,15 (67%)			2" SS							
4	5,8, 14,15 (87%)		Dark brown, silty CLAY (fill); some coarse grained gravel; moist; hard; slightly plastic (CL)	2" SS							
6	15,12 10,17 (83%)		Black SILT (fill); trace to some medium grained sand and clay; trace gravel; saturated at 13 feet; very stiff to hard; some brick and wood fragments (ML)	2" SS							
8	16, 68/5" (100%)			3" SS							
10	4,8, 12,14 (62%)			2" SS							
12	36,21 27,19 (17%)			2" SS							

LOGGED BY J. Steiner

DATE 9/27/89 CHK'D BY J. Steiner

Printed on recycled paper.

SOIL BOREHOLE LOG

SITE NAME AND LOCATION CWM Incinerator Chicago, IL	DRILLING METHOD: 4.25" ID Hollow Stem Auger	BORING NO. B-325
		SHEET 2 OF 2
	SAMPLING METHOD: 2" Split-spoon (SS) 3" Split-spoon (SS)	DRILLING START / FINISH
	WATER LEVEL / TIME / DATE / CASING DEPTH	TIME: 1435 / 1535 DATE: 9/27/89 / 9/27/89

DATUM Chicago City ELEVATION 12.0'

DRILL RIG Mobile B-57 ATV

ANGLE Vertical BEARING

SAMPLE HAMMER TORQUE FT.-LBS

SURFACE CONDITIONS: Gravel driveway, weeds

DRILLING CONTR ATEC

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
	31,34, 47, 54/6" (17%)		Black SILT (fill); (see page 1)	2" SS							
16	10,7, 9,13 (83%)		Gray CLAY; saturated; very stiff; very plastic (CH)	3" SS							
18			Bottom of boring at 18 feet.								

LOGGED BY J. Sicinc

DATE 9/27/89 CHK'D BY J. Sicinc

Printed on recycled paper.

SOIL BOREHOLE LOG

SITE NAME AND LOCATION CWM Incinerator Chicago, IL	DRILLING METHOD: 4.25" ID Hollow Stem Auger	BORING NO. B-326
		SHEET 1 OF 2
	SAMPLING METHOD: 2" Split-spoon (SS) 3" Split-spoon (SS)	DRILLING START: TIME 1035, DATE 9/27/89 FINISH: TIME 1150, DATE 9/27/89
	WATER LEVEL / TIME / DATE / CASING DEPTH	
DATUM Chicago City ELEVATION 11.2'		
DRILL RIG Mobile B-57 ATV	SURFACE CONDITIONS Gravel surface	
ANGLE vertical BEARING		
SAMPLE HAMMER TORQUE FT.-LBS		

DRILLING CONTR ATEC

DEPTH IN FEET (ELEVATION)	BLOWS/ 6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
2	16,28, 26,18 (67%)		Brown, med. to coarse grained silty GRAVEL (fill); moist at 4 feet; med. dense to dense; trace slag and asphalt (GM)	2" SS	No casing used						
	10,12, 15,13 (67%)			2" SS							
4	9,10 9,7 (87%)		Black gravelly SILT (fill),; trace to some fine grained sand; saturated at 12 feet; stiff to very stiff; some brick and wood fragments; slight odor (ML)	2" SS							
6	3,3, 4,17 (62%)			2" SS							
8	13,15 12,26 (67%)			3" SS							
10	3,7 10,12 (42%)			2" SS							
12	7,9 9,13 (62%)		Black silty SAND (fill); some gravel saturated; medium dense; moderate odor (SM)	2" SS							

LOGGED BY J. Steiner

DATE 9/27/89 CHK'D BY J. Steiner

Printed on recycled paper.

SOIL BOREHOLE LOG

SITE NAME AND LOCATION CWM Incinerator Chicago, IL	DRILLING METHOD: 4.25" ID Hollow Stem Auger	BORING NO. B-326
		SHEET 2 OF 2
	SAMPLING METHOD: 2" Split-spoon (SS) 3" Split-spoon (SS)	DRILLING START: TIME 1035, DATE 9/27/89 FINISH: TIME 1150, DATE 9/27/89
	WATER LEVEL / TIME / DATE / CASING DEPTH	

DATUM Chicago City ELEVATION 11.2'
DRILL RIG Mobile B-57 ATV
ANGLE vertical BEARING
SAMPLE HAMMER TORQUE FT.-LBS
SURFACE CONDITIONS: Gravel surface

DRILLING CONTR ATEC

DEPTH IN FEET (ELEVATION)	BLOWS/ 6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
	12,17, 28,3 (58%)		Black silty SAND (fill); some gravel; saturated; dense (SM)	2" SS							
16	13,17, 21,26 (100%)		Gray CLAY; saturated; hard; very plastic (CH)	3" SS							
18			Bottom of boring at 18 feet.								

LOGGED BY J. Sicinc
DATE 9/27/89
CHK'D BY J. Sicinc

Printed on recycled paper

SOIL BOREHOLE LOG

SITE NAME AND LOCATION CWM Incinerator Chicago, IL	DRILLING METHOD: 4-1/4" ID Hollow Stem Auger	BORING NO. B-327
		SHEET 2 OF 2
	SAMPLING METHOD: 2" Split-spoon (SS) 3" Split-spoon (SS)	DRILLING START: TIME 1025, DATE 9/26/89 FINISH: TIME 1140, DATE 9/26/89
	WATER LEVEL / TIME / DATE / CASING DEPTH	
DATUM Chicago City ELEVATION 9.9'		
DRILL RIG Mobile B-57 ATV	SURFACE CONDITIONS Gravel Drive - Flat	
ANGLE vertical BEARING		
SAMPLE HAMMER TORQUE FT.-LBS		

DRILLING CONTR ATEC

Dennis

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
	2,3, 5,10 (71%)		Gray CLAY (fill); some sand; wet; medium stiff to very stiff (CL)	3" SS							
16											
	6,9, 13,17 (79%)		Gray CLAY; some gravel; wet; very stiff (CL)	2" SS							
18			Bottom of boring at 18 feet.								

LOGGED BY Terry Callaway

DATE 9/26/89 CHK'D BY J. Steiner

SOIL BOREHOLE LOG

SITE NAME AND LOCATION: CWM Incinerator, Chicago, IL	DRILLING METHOD: 4-1/4" ID Hollow Stem Auger	BORING NO. B-328
		SHEET 1 OF 2
	SAMPLING METHOD: 2" Split-spoon (SS); 3" Split-spoon (SS)	DRILLING START TIME 1355 DATE 9/25/89; FINISH TIME 1630 DATE 9/25/89
	WATER LEVEL / TIME / DATE / CASING DEPTH	
DATUM Chicago City ELEVATION 11.2'		
DRILL RIG Mobile B-57 ATV	SURFACE CONDITIONS: Slight slope, gravel, along side	
ANGLE Vertical BEARING	Asphlat Drive	
SAMPLE HAMMER TORQUE FT.-LBS		

DRILLING CONTR ATEC

Dennis

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
2	10,15, 16,11 (75%)		Black sandy GRAVEL (fill); some silt and clay; dry; medium dense to dense; some brick, concrete, and wood (CP)	2" SS	No casing used						
	10,8, 9,7 (63%)			2" SS							
4	3,2, 9,10 (38%)			2" SS							
6	8,8, 11,2 (29%)			2" SS							
8	5,4, 5,5 (58%)		Brown to gray CLAY (fill); some sand and silt; moist; stiff; some brick and wood (CL)	2" SS							
10	4,5, 8,8 (63%)			3" SS							
12	2,4, 4,4 (50%)		Dark brown silty SAND (fill); some clay and gravel; wet; loose; some brick, wood, and concrete (SM)	2" SS							

LOGGED BY Terry Callaway

DATE 9/25/89

CHK'D BY J. Steiner

SOIL BOREHOLE LOG

SITE NAME AND LOCATION: CWM Incinerator, Chicago, IL

DRILLING METHOD: 4-1/4" ID Hollow Stem Auger

SAMPLING METHOD: 2" Split-spoon (SS); 3" Split-spoon (SS)

BORING NO. B-328

SHEET 2 OF 2

					DRILLING START	DRILLING FINISH
WATER LEVEL					TIME 1355	TIME 1630
TIME						
DATE					DATE 9/25/89	DATE 9/25/89
CASING DEPTH						

DATUM: Chicago City ELEVATION: 11.2'

DRILL RIG: Mobile B-57 ATV

ANGLE: Vertical BEARING:

SAMPLE HAMMER TORQUE: FT.-LBS

SURFACE CONDITIONS: Slight slope, gravel, along side Asphlat Drive

DRILLING CONTR: ATEC

Dennis

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
	6,6, 6,6 (63%)		Dark brown silty SAND (fill)	3" SS							
16			Gray CLAY (fill); some sand and silt; wet; stiff (CL)								
	4,8, 11,16 (83%)		Gray CLAY; trace fine grained gravel; moist; very stiff to very hard (CL)	3" SS							
18											
20											
22											
24											
26											
	16,26, 51 (83%)		Sandy SILT; trace clay; fine grained; wet; very dense (ML)	3" SS							
			Bottom of boring at 28 feet								

P4 = 100%; P200 = 58%

LOGGED BY Terry Callaway

DATE 9/25/89

CHK'D BY

SOIL BOREHOLE LOG

SITE NAME AND LOCATION: CWM Incinerator, Chicago, IL	DRILLING METHOD: 4.25" ID Hollow Stem Auger		BORING NO. B-P329
			SHEET 1 OF 2
	SAMPLING METHOD: 2" Split-spoon (SS); 3" Split-spoon (SS)		DRILLING START / FINISH
	WATER LEVEL / TIME / DATE / CASING DEPTH		TIME 1400 / TIME 1500
			DATE 9/25/89 / DATE 9/25/89
DATUM Chicago City ELEVATION 9.9'	DRILL RIG Mobile B-57 ATV	SURFACE CONDITIONS Gravel	
	ANGLE Vertical BEARING		
	SAMPLE HAMMER TORQUE FT.-LBS		

ATEC

DRILLING CONTR

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
2	11,13 6,5 (62%)		Brown, silty clayey GRAVEL (fill); dry; medium dense (GC)	2" SS							
4	4,3, 2,3 (21%)		Brown, silty CLAY (fill); dry; soft; slightly plastic; trace brick fragments (CL)	2" SS							
	3,3, 3,2 (1%)			2" SS							
6	3,3, 4,6 (46%)		Black silty SAND (fill); wet at 7.5 feet; loose; organic; wood fragments (SM)	2" SS							
8	18,55, 8,10 (100%)		Black silty CLAY (fill); trace sand; saturated hard; slightly plastic (CL)	3" SS							
10	3,2, 5,6 (58%)		Brown sandy SILT (fill); trace clay; saturated; med. stiff; nonplastic (ML)	2" SS							
12	2,3, 4,6 (87%)		Brown CLAY (fill); trace silty, sand and gravel; saturated; med. stiff; slightly plastic (CL)	2" SS							

LOGGED BY J. Sticinc

DATE 9/25/89 CHK'D BY J. Sticinc

Printed on recycled paper.

SOIL BOREHOLE LOG

SITE NAME AND LOCATION: CWM Incinerator, Chicago, IL	DRILLING METHOD: 4.25" ID Hollow Stem Auger		BORING NO.: B-P329
			SHEET: 2 OF 2
	SAMPLING METHOD: 2" Split-spoon (SS); 3" Split-spoon (SS)		DRILLING: START / FINISH
	WATER LEVEL		TIME: 1400 / 1500
	TIME		
	DATE		DATE: 9/25/89 / 9/25/89
DATUM: Chicago City	CASING DEPTH	ELEVATION: 9.9'	
DRILL RIG: Mobile B-57 ATV	SURFACE CONDITIONS: Gravel		
ANGLE: Vertical	BEARING		
SAMPLE HAMMER TORQUE	FT.-LBS		

DRILLING CONTR: ATEC

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPCIFIC GRAVITY	OTHER TESTS
16			Brown CLAY (fill); trace silt, sand and gravel; saturated; med. stiff; slightly plastic (CL)	3" SS							
18			Gray CLAY; saturated; med. stiff; plastic (CH)	3" SS							
20			Bottom of boring at 19.5 feet								

LOGGED BY J. Sticiner

DATE 9/25/89 CHK'D BY J. Sticiner

Printed on recycled paper.

SOIL BOREHOLE LOG

SITE NAME AND LOCATION: CWM Incinerator, Chicago, IL

DRILLING METHOD: 8" OD Hollow Stem Auger

SAMPLING METHOD: 2" Split-spoon (SS); 3" Split-spoon (SS)

BORING NO.: B-G330

SHEET: 1 OF 2

					DRILLING START	DRILLING FINISH
WATER LEVEL					TIME	TIME
TIME					0830	1230
DATE					DATE	DATE
CASING DEPTH					10/5/89	10/5/89

DATUM: Chicago City ELEVATION: 10.0'

DRILL RIG: Mobile B-57 ATV

ANGLE: vertical BEARING:

SAMPLE HAMMER TORQUE: FT.-LBS

SURFACE CONDITIONS: Grass

DRILLING CONTR: ATEC D. Cass

LOGGED BY: T. Hariu

DATE: 10/05/89 CHK'D BY: J. Steiner

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
2	15,12, 11,10 (46%)		Gray to brown silty GRAVEL and SAND (fill); dry; dense (GM)	2" SS	No casing used						
4	5,12, 9,13 (71%)		Brown silty SAND (fill); some clay; damp; medium dense; slightly plastic fines; slight odor (SM)	2" SS							
	10,11, 9,5 (29%)			2" SS							
6	3,2, 4,2 (50%)		Orange-brown SAND (fill); dry; poorly graded; very dense (SP)	2" SS							
8	3,56 2" (62%)		Black silty CLAY (fill); some sand and organic matter; wet; very dense; very plastic; some concrete and wood (CH)	3" SS							
10	3,2, 2,4 (58%)			2" SS							
12	1,1, 1,1 (54%)		Gray SILT (fill); some clay, sand, and gravel; wet; very soft to medium stiff; slightly plastic (ML)	2" SS							

Printed on recycled paper.

SOIL BOREHOLE LOG

SITE NAME AND LOCATION: CWM Incinerator, Chicago, IL	DRILLING METHOD: 8" OD Hollow Stem Auger		BORING NO. B-G330
	SAMPLING METHOD: 2" Split-spoon (SS); 3" Split-spoon (SS)		SHEET 2 OF 2
	WATER LEVEL / TIME / DATE / CASING DEPTH		DRILLING START: TIME 0830, DATE 10/5/89 — FINISH: TIME 1230, DATE 10/5/89
DATUM: Chicago City	ELEVATION: 10.0'		
DRILL RIG: Mobile B-57 ATV		SURFACE CONDITIONS: Grass	
ANGLE: vertical	BEARING:		
SAMPLE HAMMER TORQUE:	FT.-LBS		

DRILLING CONTR ATEC — D. Cass

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
	3,3, 2,3 (75%)		Gray SILT (fill); some clay, sand, and gravel; wet; medium stiff; slightly plastic (ML)	2" SS							
16				2" SS							
18			Bottom of boring at 18 feet.								

LOGGED BY T. Hariu — CHK'D BY J. Sicinar

DATE 10/05/89

SOIL BOREHOLE LOG

SITE NAME AND LOCATION
CWM Incinerator
Chicago, IL

DRILLING METHOD:	4-1/4" ID Hollow Stem Auger
SAMPLING METHOD:	Split-spoon Sampler (SS); Shelby Tube (SH)
BORING NO.	B-331
SHEET	1 OF 1
WATER LEVEL / TIME / DATE	
CASING DEPTH	
DRILLING START TIME / DATE	1610 / 9/21/89
DRILLING FINISH TIME / DATE	0907 / 9/22/89

DATUM Chicago City ELEVATION 9.9'
DRILL RIG Mobile B-57 ATV
ANGLE vertical BEARING
SAMPLE HAMMER TORQUE FT.-LBS
SURFACE CONDITIONS: Gravel, Flat

DRILLING CONTR ATEC Dennis

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
0	22,26 19,20 (73%)		Brown silty SAND (fill); coarse grained; trace clay; moist; dense; slight odor (SM)	2" SS	No casing used						
2	17,15, 13,10 (73%)			2" SS							
4	7,9, 15,16 (50%)		Brown CLAY (fill); moist; stiff; slight odor	2" SS							
6	10,7, 5,7 (77%)		Dark brown silty SAND (fill); moist; medium dense; slight odor (SM) Change to black; sheen; strong petroleum odor	2" SS							
8	15,34, 49,21 (50%)		Gray CLAY (fill)	3" SS							
10	7,6, 8,5 (25%)		Dark brown to black silty SAND (fill); some gravel and organic matter; wet; dense; slight odor (SM) Oil sheen and odor at 12 feet	2" SS							
12	5,8, 7,8 (58%)			3" SS							
	1,3, 3,4 (100%)		Gray CLAY; moist; medium stiff (CL) Bottom of boring at 15 feet	2"							

LOGGED BY Terry Callaway
DATE 9/22/89 CHK'D BY J. Steiner

Printed on recycled paper.

SOIL BOREHOLE LOG

SITE NAME AND LOCATION: CWM Incinerator, Chicago, IL

DRILLING METHOD: 4.25" ID Hollow Stem Auger

SAMPLING METHOD: 2" Split-spoon (SS); 3" Split-spoon (SS)

BORING NO.: B-G332

SHEET: 1 OF 2

					DRILLING START	DRILLING FINISH
WATER LEVEL						
TIME					1545	0840
DATE					9/21/89	9/22/89
CASING DEPTH						

DATUM: Chicago City ELEVATION: 10.0'

DRILL RIG: Mobile B-57 ATV

ANGLE: Vertical BEARING:

SAMPLE HAMMER TORQUE: FT.-LBS

SURFACE CONDITIONS: Gravel parking area

DRILLING CONTR: ATEC

LOGGED BY: J. Steiner

DATE: 9/22/89 CHK'D BY: J. Steiner

DEPTH IN FEET (ELEVATION)	BLOWS/ 6 IN. OR SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
2	16,31 50/5 (88%)		Black silty SAND and GRAVEL (fill); moist at 3 feet; very dense; some organic matter; strong odor (GM)	2" SS	No casing used						
4	8,12, 15,21 (79%)		Black silty gravelly CLAY (fill); moist; stiff; very organic; strong odor (CL)	2" SS							
6	33, 50/4" (100%)			2" SS							
8	12,6 8,10 (62%)		Black silty clayey GRAVEL (fill); wet at 7 feet; very dense; some organic matter; strong odor (GC)	2" SS							
10	25,30, 40,20 (75%)		Black med. to coarse grained silty SAND (fill); trace gravel; saturated; very dense; some organic matter (SM)	3" SS							
12	8,4, 2,8 (62%)		Black SILT (fill); trace clay and fine grained sand; saturated; medium stiff; slightly plastic	2" SS							
	8,31 21,10 (79%)		Gray fine grained silty SAND (fill); trace clay; saturated; very dense; trace organic matter (SM)	3" SS							

SOIL BOREHOLE LOG

SITE NAME AND LOCATION: CWM Incinerator, Chicago, IL	DRILLING METHOD: 4.25" ID Hollow Stem Auger		BORING NO. B-G332
			SHEET 2 OF 2
	SAMPLING METHOD: 2" Split-spoon (SS)		DRILLING START / FINISH
	3" Split-spoon (SS)		START / FINISH
	WATER LEVEL		TIME 1545 / TIME 0840
	TIME		
	DATE		DATE 9/21/89 / DATE 9/22/89
	CASING DEPTH		

DATUM: Chicago City ELEVATION: 10.0'

DRILL RIG: Mobile B-57 ATV

ANGLE: Vertical BEARING:

SAMPLE HAMMER TORQUE: FT.-LBS

SURFACE CONDITIONS: Gravel parking area

DRILLING CONTR: ATEC

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
	4,4 4,4 (42%)		Gray silty SAND (fill) (SM) (see page 1)	2" SS							
			Gray CLAY; saturated; soft; very plastic (CH)								
16			Bottom of boring at 16 feet								

LOGGED BY J. Steiner

DATE 9/22/89

CHK'D BY J. Steiner

SOIL BOREHOLE LOG

SITE NAME AND LOCATION: CWM Incinerator, Chicago, IL

DRILLING METHOD: 8" OD Hollow Stem Auger

SAMPLING METHOD: 2" Split-spoon (SS); 3" Split-spoon (SS)

BORING NO.: B-333

SHEET: 1 OF 2

	START	FINISH
DRILLING TIME	1350	1510
DATE	10/1/89	10/1/89

WATER LEVEL	
TIME	
DATE	
CASING DEPTH	

DATUM: Chicago City — ELEVATION: 10.5'

DRILL RIG: Mobile B-57 ATV

ANGLE: Vertical — BEARING:

SAMPLE HAMMER TORQUE: — FT.-LBS

SURFACE CONDITIONS: Asphalt

DRILLING CONTR: ATEC — D. Cass

LOGGED BY: T. Hariu — CHK'D BY: J. Steiner

DATE: 10/31/89

DEPTH IN FEET (ELEVATION)	BLOWS/ 6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
0	13,11, 66 (83%)		Black SAND and GRAVEL (fill); dry; poorly graded; very dense; organic; strong odor (SP)	2" SS	No casing used						
2	4,4, 19,36 (71%)			2" SS							
4	6,8, 3,4 (62%)		Black silty GRAVEL (fill); damp; medium dense; strong odor (GM)	2" SS							
6	4,5, 5,6 (75%)		Black clayey SAND (fill); wet (SC)	3" SS							
8	2,3, 3,4 (62%)		Greenish-gray sandy CLAY (fill); damp; plastic; stiff; very organic; some brick fragments (CL)	2" SS							
10	3,3, 2,3 (79%)		White SAND and GRAVEL (fill); wet; loose (SP-GP)	2" SS							
12	7,9, 4,6 (100%)		Brown silty SAND (fill); trace clay; wet; medium dense (SM)	3" SS							
			Gray clayey SILT (fill); wet; soft to medium stiff; slightly plastic (ML)								

SOIL BOREHOLE LOG

SITE NAME AND LOCATION: CWM Incinerator, Chicago, IL	DRILLING METHOD: 8" OD Hollow Stem Auger	BORING NO. B-333
	SAMPLING METHOD: 2" Split-spoon (SS); 3" Split-spoon (SS)	SHEET 2 OF 2
	WATER LEVEL / TIME / DATE / CASING DEPTH	DRILLING START: TIME 1350, DATE 10/1/89; FINISH: TIME 1510, DATE 10/1/89
DATUM: Chicago City	ELEVATION: 10.5'	
DRILL RIG: Mobile B-57 ATV	SURFACE CONDITIONS: Asphalt	
ANGLE: vertical	BEARING:	
SAMPLE HAMMER TORQUE:	FT.-LBS	

DRILLING CONTR ATEC — D. Cuss

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
16	2,3, 3,4 (58%)		Gray clayey SILT (fill); wet; soft to medium stiff; slightly plastic (ML)	2" SS							
	5,9, 13,14 (71%)		Light gray CLAY; wet; very stiff; plastic (CL)	2"							
			Bottom of boring at 18 feet.								

LOGGED BY T. Hariu — CHK'D BY J. Steiner

DATE 10/01/89

SOIL BOREHOLE LOG

SITE NAME AND LOCATION CWM Incinerator Chicago, IL	DRILLING METHOD: 4-1/4" ID Hollow Stem Auger	BORING NO. B-G334
	SAMPLING METHOD: 2" Split-spoon (SS) 3" Split-spoon (SS)	SHEET 1 OF 1
	WATER LEVEL / TIME / DATE / CASING DEPTH	DRILLING START: TIME 1330, DATE 10/1/89 DRILLING FINISH: TIME 1515, DATE 10/1/89
DATUM Chicago City ELEVATION 10.0'		
DRILL RIG Mobile B-57 ATV	SURFACE CONDITIONS Asphalt Paved	
ANGLE vertical BEARING		
SAMPLE HAMMER TORQUE FT.-LBS		

DRILLING CONTR ATEC

Dennis

DEPTH IN FEET (ELEVATION)	BLOWS/ 6 IN. ON SAMPLER (%RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
2	3,5, 13,15 (79%)		Dark brown silty SAND (fill); some gravel and clay; dry; medium dense; some asphalt and concrete (SM)	2" SS	No casing used						
	35,35, 32,25 (92%)		Brown to gray silty CLAY (fill); some gravel; dry; hard (CL)	2" SS							
4	3,3, 3,3 (79%)		Light brown silty SAND (fill); some fine grained gravel; occassional clay layer; wet at 7.5 feet; loose to medium dense (SM)	2" SS							
6	2,3, 3 (94%)			3" SS							
▼ 8	2,2, 3 (44%)										
10	2,4, 26,6 (58%)			2" SS							
12	5,9, 13 (89%)		Dark brown SAND; some fine grained gravel; wet; medium dense (SP)	3" SS							
14			Gray CLAY; stiff (CL) End of boring at 15 feet								

LOGGED BY Terry Callaway

DATE 10/1/89 CHK'D BY

SOIL BOREHOLE LOG

SITE NAME AND LOCATION: CWM Incinerator, Chicago, IL

DRILLING METHOD: 8" OD Hollow Stem Auger

SAMPLING METHOD: 2" Split-spoon (SS); 3" Split-spoon (SS)

BORING NO.: B-335

SHEET: 1 OF 2

	START	FINISH
DRILLING TIME	0930	1020
DRILLING DATE	10/20/89	10/20/89

WATER LEVEL				
TIME				
DATE				
CASING DEPTH				

DATUM: Chicago City ELEVATION: 9.8'

DRILL RIG: Mobile B-57 ATV

ANGLE: vertical BEARING:

SAMPLE HAMMER TORQUE: FT.-LBS

SURFACE CONDITIONS: Grass

DRILLING CONTR: ATEC D. Cass

LOGGED BY: T. Hariu

DATE: 10/20/89 CHK'D BY: J. Sicinc

DEPTH IN FEET (ELEVATION)	BLOWS/ 6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
2	5,15, 20,22 (66%)		Dark brown sandy GRAVEL (fill); some clay; dry; dense to very dense (GC)	2" SS	No casing used						
4	22,32, 32,34 (83%)			2" SS							
6	3,10, 14,14 (42%)			2" SS							
8	19,10, 11,24 (46%)		Red silty SAND (fill); dry; medium dense (SM)	2" SS							
10	16,16, 16,16 (71%)		Red clayey GRAVEL (fill); some gravel; dry; medium dense (GC)	3" SS							
12	2,4, 4,8 (29%)			2" SS							
14	18,9, 50,30 (92%)		Clayey SAND (fill); saturated; very dense; some brick fragments (SC)	3" SS							
			Gray CLAY; saturated; medium stiff; plastic to very plastic (CH)								

Printed on recycled paper.

SOIL BOREHOLE LOG

SITE NAME AND LOCATION: CWM Incinerator, Chicago, IL	DRILLING METHOD: 8" OD Hollow Stem Auger	BORING NO. B-335
		SHEET 2 OF 2
	SAMPLING METHOD: 2" Split-spoon (SS); 3" Split-spoon (SS)	DRILLING START TIME 0930 DATE 10/20/89; FINISH TIME 1020 DATE 10/20/89
	WATER LEVEL / TIME / DATE / CASING DEPTH	
DATUM Chicago City ELEVATION 9.8'		
DRILL RIG Mobile B-57 ATV	SURFACE CONDITIONS: Grass	
ANGLE vertical BEARING		
SAMPLE HAMMER TORQUE FT.-LBS		

DRILLING CONTR ATEC D. Cass

LOGGED BY T. Hariu DATE 10/20/89 CHK'D BY J. Steiner

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
			Gray CLAY; saturated; medium stiff; plastic to very plastic (CH)	2" SS							
16			Bottom of boring at 16 feet.								

SOIL BOREHOLE LOG

SITE NAME AND LOCATION
CWM Incinerator
Chicago, IL

DRILLING METHOD: 8" OD Hollow Stem Auger
SAMPLING METHOD: 2" Split-spoon (SS); 3" Split-spoon (SS)

BORING NO. B-G336
SHEET 1 OF 2

					DRILLING START	DRILLING FINISH
WATER LEVEL					TIME	TIME
TIME					0900	1130
DATE					DATE	DATE
CASING DEPTH					10/26/89	10/26/89

DATUM Chicago City ELEVATION 10.9'
DRILL RIG Mobile B-57 ATV
ANGLE vertical BEARING
SAMPLE HAMMER TORQUE FT.-LBS
SURFACE CONDITIONS: Gravel

DRILLING CONTR ATEC D. Cass

LOGGED BY T. Hariu
DATE 10/26/89 CHK'D BY J. Steiner

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
2	4,4 7,7 (11%)		Brown gravelly CLAY (fill); trace sand; damp; stiff; slightly plastic (CL)	2" SS	No casing used						
4	7,8, 21,28 (54%)		Brown clayey SAND (fill); damp; medium dense; slight odor (SC)	2" SS							
6	6,7, 5,7 (58%)			2" SS							
8	5,7, 50/3" (33%)			2" SS							
10	5,6 30,5 (73%)			3" SS							
12	5,6, 12,18 (67%)		Black GRAVEL (fill); wet (GP)	3" SS							
14	5,8, 3,3 (37%)		Gray to black silty GRAVEL (fill); some sand; wet; medium dense (GM)	2" SS							

Printed on recycled paper

SOIL BOREHOLE LOG

SITE NAME AND LOCATION: CWM Incinerator, Chicago, IL	DRILLING METHOD: 8" OD Hollow Stem Auger	BORING NO. B-G336
	SAMPLING METHOD: 2" Split-spoon (SS); 3" Split-spoon (SS)	SHEET 2 OF 2
	WATER LEVEL / TIME / DATE	DRILLING START: TIME 0900, DATE 10/26/89; FINISH: TIME 1130, DATE 10/26/89
DATUM: Chicago City	ELEVATION: 10.9'	CASING DEPTH
DRILL RIG: Mobile B-57 ATV		SURFACE CONDITIONS: Gravel
ANGLE: vertical	BEARING	
SAMPLE HAMMER TORQUE	FT.-LBS	

DRILLING CONTR: ATEC — D. Cass

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
			Light gray clayey SILT (fill); stiff (ML)	3" SS							
16			Gray CLAY; very stiff; plastic (CL)	2" SS							
18			Bottom of boring at 18 feet.								

LOGGED BY T. Hariu

DATE 10/26/89 CHK'D BY J. Steiner

SOIL BOREHOLE LOG

SITE NAME AND LOCATION: CWM Incinerator, Chicago, IL	DRILLING METHOD: 8" OD Hollow Stem Auger	BORING NO. B-G337
		SHEET 1 OF 2
	SAMPLING METHOD: 2" Split-spoon (SS); 3" Split-spoon (SS)	DRILLING START / FINISH
	WATER LEVEL / TIME / DATE / CASING DEPTH	TIME 0900 / TIME 1400
DATUM Chicago City ELEVATION 9.8'		DATE 10/6/89 / DATE 10/6/89
DRILL RIG Mobile B-57	SURFACE CONDITIONS: Grassy covered, gravel top 2"	
ANGLE Vertical BEARING	TIP background = 0.7 ppm	
SAMPLE HAMMER TORQUE FT.-LBS		

DRILLING CONTR ATEC

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
2	7,8, 8,18 (87%)		Brown sandy gravelly CLAY (fill); dry; very stiff; slightly plastic; no odor (ML)	2" SS	No casing used						
4	10, 50/1" (28%)		Sandy GRAVEL (fill); dry; medium dense; no odor (GP)	2" SS							
6	11,12, 9,23 (29%)		Concrete (fill); some sand, gravel, and clay	2" SS							
8	5,4, 33,18 (17%)		wet at 8 feet	2" SS							
10	6,16, 18,3 (25%)			3" SS							
12	3,3, 2,5 (100%		CLAY (fill); some sand, concrete, gravel, and brick; saturated; medium stiff; no odor (CL)								
14	2,2, 2,3			2" SS							
			Silty SAND; fine grained; loose (SM)								

LOGGED BY T. Hariu/T. Calloway

DATE 10/6/89 CHK'D BY J. Steiner

Printed on recycled paper.

SOIL BOREHOLE LOG

SITE NAME AND LOCATION CWM Incinerator Chicago, IL	DRILLING METHOD: 8" OD Hollow Stem Auger	BORING NO. B-G337
		SHEET 2 OF 2
	SAMPLING METHOD: 2" Split-spoon (SS) 3" Split-spoon (SS)	DRILLING START: TIME 0900, DATE 10/6/89 FINISH: TIME 1400, DATE 10/6/89
	WATER LEVEL / TIME / DATE / CASING DEPTH	
DATUM Chicago City ELEVATION 9.8'		
DRILL RIG Mobile B-57	SURFACE CONDITIONS Grassy covered, gravel top 2"	
ANGLE Vertical BEARING	TIP background = 0.7 ppm	
SAMPLE HAMMER TORQUE FT.-LBS		

DRILLING CONTR ATEC

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
	3,3, 11,12 (100%)		Gray CLAY; fine grained gravel; stiff; saturated (CL)	2" SS							
16			Bottom of boring at 16 feet.								

(25%)

LOGGED BY T. Hariu/T. Callaway

DATE 10/6/89 CHK'D BY J. Steiner

SOIL BOREHOLE LOG

SITE NAME AND LOCATION CWM Incinerator Chicago, IL	DRILLING METHOD: 4.25" ID Hollow Stem Auger	BORING NO. B-338
		SHEET 1 OF 2
	SAMPLING METHOD: 2" Split-spoon (SS) 3" Split-spoon (SS)	DRILLING START: TIME 1000, DATE 9/26/89 FINISH: TIME 1200, DATE 9/26/89
	WATER LEVEL / TIME / DATE / CASING DEPTH	
DATUM Chicago City ELEVATION 11.5'		
DRILL RIG Mobile B-57 ATV	SURFACE CONDITIONS Gravel driveway	
ANGLE Vertical BEARING		
SAMPLE HAMMER TORQUE FT.-LBS		

DRILLING CONTR ATEC

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
0	8,14, 15 (94%)		Black clayey silty GRAVEL (fill); dry; medium dense (GM)	2" SS	No casing used						
2	11,17, 16,21 (79%)		Black gravelly SILT (fill); trace sand; dry; hard; nonplastic; some brick and slag; moderate odor (ML)	2" SS							
4	11,15, 17,18 (67%)			2" SS							
6	8,5, 3,4 (25%)			2" SS							
8	8,10 10,12 (50%)		Change to sandy SILT at 7.5 feet; medium stiff	3" SS							
10 ▼	3,2, 2,5 (75%)		Dark brown CLAY (fill); trace silt and very coarse gravel; saturated at 10 feet; soft; plastic; trace brick fragments (CL)	2" SS							
12	3,3, 3,3 (62%)			2" SS							

LOGGED BY J. Steiner

DATE 9/26/89 CHK'D BY J. Steiner

SOIL BOREHOLE LOG

SITE NAME AND LOCATION CWM Incinerator Chicago, IL	DRILLING METHOD: 4.25" ID Hollow Stem Auger	BORING NO. B-338
		SHEET 2 OF 2
	SAMPLING METHOD: 2" Split-spoon (SS) 3" Split-spoon (SS)	DRILLING START: TIME 1000, DATE 9/26/89 FINISH: TIME 1200, DATE 9/26/89
	WATER LEVEL / TIME / DATE / CASING DEPTH	
DATUM Chicago City ELEVATION 11.5'		
DRILL RIG Mobile B-57 ATV	SURFACE CONDITIONS Gravel driveway	
ANGLE Vertical BEARING		
SAMPLE HAMMER TORQUE FT.-LBS		

DRILLING CONTR ATEC

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
16	(42%)		Black CLAY (fill); trace silt and gravel; saturated; soft to stiff; plastic; trace brick and wood (CL)	3" SS							
18	5,7 7,8 (62%)			2" SS							
20	4,8, 11,11 (75%)		Dark brown CLAY; trace fine grained gravel; saturated; very stiff; very plastic (CH)	2" SS							
22	5,7, 5,8 (100%)			2" SS							
24			Bottom of boring at 24 feet.								

LOGGED BY J. Steiner

DATE 9/26/89 CHK'D BY J. Steiner

Printed on recycled paper

SOIL BOREHOLE LOG

SITE NAME AND LOCATION
CWM Incinerator
Chicago, IL

DRILLING METHOD: 8" OD Hollow Stem Auger
SAMPLING METHOD: 2" Split-spoon (SS); 3" Split-spoon (SS)
BORING NO. B-339
SHEET 1 OF 2
DRILLING START TIME 0945 DATE 9/30/89
DRILLING FINISH TIME 1050 DATE 9/30/89

WATER LEVEL				
TIME				
DATE				
CASING DEPTH				

DATUM Chicago City ELEVATION 9.45'
DRILL RIG Mobile 8-57 ATV
ANGLE vertical BEARING
SAMPLE HAMMER TORQUE FT.-LBS
SURFACE CONDITIONS: Asphalt

DRILLING CONTR ATEC
D. Cass

DEPTH IN FEET (ELEVATION)	BLOWS/ 6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
2	34,32 27,14 (42%)		SAND (fill); some gravel; dry; poorly graded; very dense; some concrete (SP)	2" SS	No casing used						
4	16, 15/3" (100%)		Gray clayey SAND (fill); dry; hard; some concrete (SC)	2" SS							
6	12,14, 9,22 (71%)			2" SS							
▼ 8	23, 50/4" (100%)		Saturated at 7 feet	3" SS							
10	36, 100/4 (50%)		Black sandy GRAVEL (fill); some clay; saturated; very dense; some concrete (GC)	2" SS							
12	18,16, 40,108 (100%)		Light gray clayey SAND (fill); saturated; loose to very dense (SC)	3" SS							
14	6,3, 3,4 (100%)			2" SS							

LOGGED BY T. Hariu
DATE 9/30/89
CHK'D BY J. Steiner

Printed on recycled paper.

SOIL BOREHOLE LOG

SITE NAME AND LOCATION: CWM Incinerator, Chicago, IL	DRILLING METHOD: 8" OD Hollow Stem Auger	BORING NO. B-339
	SAMPLING METHOD: 2" Split-spoon (SS); 3" Split-spoon (SS)	SHEET 2 OF 2
	WATER LEVEL / TIME / DATE	DRILLING START: TIME 0945, DATE 9/30/89; FINISH: TIME 1050, DATE 9/30/89
DATUM Chicago City ELEVATION 9.45'	CASING DEPTH	
DRILL RIG Mobile B-57 ATV	SURFACE CONDITIONS: Asphalt	
ANGLE vertical BEARING		
SAMPLE HAMMER TORQUE FT.-LBS		

DRILLING CONTR ATEC D. Cass

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
	2,1, 2,2 (75%)		Light gray clayey SAND (fill) (SC)	2" ss							
16			Light gray clay; saturated; soft; very plastic (CH)								
			Bottom of boring at 16 feet.								

LOGGED BY T. Hariu DATE 9/30/89 CHK'D BY J. Steiner

Printed on recycled paper.

SOIL BOREHOLE LOG

SITE NAME AND LOCATION CWM Incinerator Chicago, IL	DRILLING METHOD: 8" OD Hollow Stem Auger	BORING NO. B-340
		SHEET 1 OF 2
	SAMPLING METHOD: 2" Split-spoon (SS) 3" Split-spoon (SS)	DRILLING START / FINISH
	WATER LEVEL / TIME / DATE / CASING DEPTH	TIME 1300 / TIME 1400 DATE 9/30/89 / DATE 9/30/89
DATUM Chicago City ELEVATION 10.1'		
DRILL RIG Mobile B-57 ATV	SURFACE CONDITIONS Asphalt	
ANGLE Vertical BEARING		
SAMPLE HAMMER TORQUE FT.-LBS		

DRILLING CONTR ATEC D. Cass

LOGGED BY T. Hariu

DATE 9/30/89 CHK'D BY J. Steiner

DEPTH IN FEET (ELEVATION)	BLOWS/ 6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
2	15,28, 25,36 (71%)		Light gray SAND (fill); some gravel; dry; very dense (SP)	2" SS	No casing used						
4	32,16, 18,12 (42%)		Dark brown to black clayey SAND (fill); saturated at 4 feet; medium dense to dense; strong odor (SC)	2" SS							
6	16,14, 12,12 (100%)			3" SS							
8	16,14, 12,10 (87%)		Dary brown silty SAND (fill); saturated; medium dense (SM)	2" SS							
10			SAND (fill); some gravel; saturated; poorly graded; medium dense (SP)	3" SS							P4 = 94%; P200 = 55%
12			Gray clayey SILT (fill); saturated; stiff (ML)	2" SS							
14			Gray silty SAND (fill); trace clay and gravel; saturated; very loose (SM)	2" SS							

Printed on recycled paper.

SOIL BOREHOLE LOG

SITE NAME AND LOCATION CWM Incinerator Chicago, IL	DRILLING METHOD: 8" OD Hollow Stem Auger	BORING NO. B-340
		SHEET 2 OF 2
	SAMPLING METHOD: 2" Split-spoon (SS) 3" Split-spoon (SS)	DRILLING START: TIME 1300, DATE 9/30/89 FINISH: TIME 1400, DATE 9/30/89
	WATER LEVEL / TIME / DATE / CASING DEPTH	

DATUM Chicago City ELEVATION 10.1'

DRILL RIG Mobile B-57 ATV

ANGLE Vertical BEARING

SAMPLE HAMMER TORQUE FT.-LBS

SURFACE CONDITIONS: Asphalt

ATEC

DRILLING CONTR D. Cass

DEPTH IN FEET (ELEVATION)	BLOWS/ 6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
			Gray silty SAND (fill) (SM) (see page 1)	2"							
			Light gray CLAY; saturated; soft; very plastic (CL)	ss							
16			Bottom of boring at 16 feet.								

LOGGED BY T. Hariu

DATE 9/30/89

CHK'D BY J. Steiner

Printed on recycled paper.

SOIL BOREHOLE LOG

SITE NAME AND LOCATION
CWM Incinerator
Chicago, IL

DRILLING METHOD: 4-1/4" ID Hollow Stem Auger
SAMPLING METHOD: Split-spoon Sampler (SS); Shelby Tube (SH)

BORING NO. B-341
SHEET 1 OF 2

					DRILLING START	DRILLING FINISH
WATER LEVEL					TIME	TIME
TIME					0920	1145
DATE					DATE	DATE
CASING DEPTH					9/30/89	9/30/89

DATUM Chicago City ELEVATION 8.9'
DRILL RIG Mobile B-57 ATV
ANGLE vertical BEARING
SAMPLE HAMMER TORQUE FT.-LBS
SURFACE CONDITIONS: Asphalt Drive - Flat

DRILLING CONTR ATEC
Dennis

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
	3,8, 21,8 (96%)		Black sandy GRAVEL (fill); some silt and organic matter; wet at 4 feet; loose to very dense; some brick and concrete (GM)	2" SS	No casing used						
2	18,13 28,15 (92%)			2" SS							
4	11,4, 4,18 (58%)			3" SS							
6	3,2, 1,1 (13%)			2" SS							
8	1,1, 6,9 (50%)		Black silty SAND (fill); some clay, gravel, and organic matter; wet; loose; sight odor (SM)	2" SS							
10	7,15, 31,8 (54%)			3" SS							
12	1,2, 2,4 (67%)		Gray CLAY; moist; soft; plastic (CL)	2" SS							

LOGGED BY Terry Callaway
DATE 9/30/89
CHK'D BY J. Steiner

SOIL BOREHOLE LOG

SITE NAME AND LOCATION
CWM Incinerator
Chicago, IL

DRILLING METHOD: 4-1/4" ID Hollow Stem Auger
SAMPLING METHOD: Split-spoon Sampler (SS); Shelby Tube (SH)

WATER LEVEL				
TIME				
DATE				
CASING DEPTH				

BORING NO. B-341
SHEET 2 OF 2
DRILLING START TIME 0920 DATE 9/30/89
DRILLING FINISH TIME 1145 DATE 9/30/89

DATUM Chicago City ELEVATION 8.9'
DRILL RIG Mobile B-57 ATV
ANGLE vertical BEARING
SAMPLE HAMMER TORQUE FT.-LBS
SURFACE CONDITIONS: Asphalt Drive - Flat

DRILLING CONTR ATEC
LOGGED BY Terry Callaway
DATE 9/30/89
CHK'D BY J. Steiner
Dennis

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPCIFIC GRAVITY	OTHER TESTS
-	5,7, 10,16 (71%)		Gray CLAY; some fine grained gravel; moist; stiff to very stiff (CL)	3" SS							
-16			Gradation Analyses GR SA SI CL 0 2 59 39	3" SH			24	38	19	K = 1.97 x 10^{-8} cm/sec	
-	(92%)										
18	5,6, 9,11 (100%)			2" SS							
20	3,6, 9,11 (100%)			2" SS							
12	6,8, 11,15 (100%)			3" SS							
-4			Bottom of boring at 24 feet								

SOIL BOREHOLE LOG

SITE NAME AND LOCATION
CWM Incinerator
Chicago, IL

DRILLING METHOD: 4-1/4" ID Hollow Stem Auger
SAMPLING METHOD: 2" Split-spoon (SS); 3" Split-spoon (SS)

BORING NO. B-G342
SHEET 1 OF 2

	DRILLING START	DRILLING FINISH
WATER LEVEL TIME		
TIME	0830	1050
DATE	10/13/89	10/13/89
CASING DEPTH		

DATUM Chicago City ELEVATION 10.4'
DRILL RIG Mobile B-57 ATV
ANGLE vertical BEARING
SAMPLE HAMMER TORQUE FT.-LBS
SURFACE CONDITIONS: Flat, between fense and asphalt Road

DRILLING CONTR ATEC Dennis
LOGGED BY Terry Callaway
DATE 10/13/89 CHK'D BY J. Sicinc

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
2	5,7, 12,11 (63%)		Brown sandy CLAY (fill); some gravel; dry; very stiff; some wood, brick, and concrete (CL)	2" SS	No casing used						
4	9,6, 7,8 (58%)			2" SS							
6	9,8, 11,19 (67%)			2" SS							
8	11, 50/3" (100%)			2" SS							
10	50/0" (0%)		Black coarse grained SAND (fill); some silt and gravel; wet; medium dense (SM)	2" SS							
12	7,11, 6,5 (75%)		Black SILT (fill); wet; soft; stiff (ML)	3" SS							
14	3,2, 2,3 (83%)			2" SS							

Printed on recycled paper.

SOIL BOREHOLE LOG

SITE NAME AND LOCATION
CWM Incinerator
Chicago, IL

DRILLING METHOD: 4-1/4" ID Hollow Stem Auger
SAMPLING METHOD: 2" Split-spoon (SS); 3" Split-spoon (SS)

BORING NO.	B-G342
SHEET	2 OF 2

	DRILLING START	DRILLING FINISH
WATER LEVEL		
TIME	0830	1050
DATE	10/13/89	10/13/89
CASING DEPTH		

DATUM Chicago City ELEVATION 10.4'
DRILL RIG Mobile B-57 ATV
ANGLE vertical BEARING
SAMPLE HAMMER TORQUE FT.-LBS
SURFACE CONDITIONS: Flat, between fense and asphalt Road

DRILLING CONTR ATEC
Dennis

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
	1,2, 4,13 (88%)		Black SILT (fill)	2" SS							
16			Gray CLAY; medium stiff (CL)								
			Bottom of boring at 16 feet.								

LOGGED BY Terry Callaway
DATE 10/13/89 CHK'D BY J. Steiner

Printed on recycled paper.

SOIL BOREHOLE LOG

SITE NAME AND LOCATION: CWM Incinerator, Chicago, IL	DRILLING METHOD: 8" OD Hollow Stem Auger	BORING NO. B-G343
		SHEET 1 OF 2
	SAMPLING METHOD: 2" Split-spoon (SS); 3" Split-spoon (SS)	DRILLING START / FINISH
	WATER LEVEL	
	TIME	1030 / 1335
	DATE	10/27/89 / 10/27/89
	CASING DEPTH	

DATUM Chicago City ELEVATION 9.0'

DRILL RIG Mobile B-57 ATV

ANGLE vertical BEARING

SAMPLE HAMMER TORQUE FT.-LBS

SURFACE CONDITIONS: Black top - cement

DRILLING CONTR ATEC

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
0	4,4, 3,3 (37%)		Light gray sandy GRAVEL (fill); dry; loose (GP)	2" SS	No casing used						
2	4,3, 3,10 (46%)		Black clayey SAND (fill); damp; loose (SC)	2" SS							
4	8,9, 8,9 (25%)			3" SS							
6			Brown clayey GRAVEL (fill); dry; stiff (GC)								
	2,2, 3,4 (100%)		Brown SAND (fill); wet; loose; trace brick fragments	2" SS							
8	1,2, 3,4 (62%)			2" SS							
10	5,5, 5,6 (100%)		Change to gray	3" SS							
12	4,6, 7,3 (87%)			2" SS							
14											

LOGGED BY T. Hariu

DATE 10/27/89 CHK'D BY J. Steiner

Printed on recycled paper.

SOIL BOREHOLE LOG

SITE NAME AND LOCATION CWM Incinerator Chicago, IL	DRILLING METHOD: 8" OD Hollow Stem Auger	BORING NO. B-G343
		SHEET 2 OF 2
	SAMPLING METHOD: 2" Split-spoon (SS) 3" Split-spoon (SS)	DRILLING START TIME: 1030 DATE: 10/27/89 FINISH TIME: 1335 DATE: 10/27/89
	WATER LEVEL TIME DATE CASING DEPTH	
DATUM Chicago City ELEVATION 9.0'		
DRILL RIG Mobile B-57 ATV	SURFACE CONDITIONS Black top - cement	
ANGLE vertical BEARING		
SAMPLE HAMMER TORQUE FT.-LBS		

DRILLING CONTR ATEC

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
			Gray CLAY; plastic (CL)	2" SS							
16			Bottom of boring at 16 feet.								

LOGGED BY T. Hariu

DATE 10/27/89 CHK'D BY J. Steiner

Printed on recycled paper.

SOIL BOREHOLE LOG

SITE NAME AND LOCATION
CWM Incinerator
Chicago, IL

DRILLING METHOD: 8" OD Hollow Stem Auger

SAMPLING METHOD: 2" Split-spoon (SS); 3" Split-spoon (SS)

BORING NO. B-G344

SHEET 1 OF 2

WATER LEVEL	
TIME	
DATE	
CASING DEPTH	

DRILLING: START TIME 1010, DATE 10/16/89; FINISH TIME 1340, DATE 10/16/89

DATUM Chicago City ELEVATION 10.8'

DRILL RIG Mobile B-57 ATV

ANGLE vertical BEARING

SAMPLE HAMMER TORQUE FT.-LBS

SURFACE CONDITIONS: Asphalt

DRILLING CONTR ATEC

LOGGED BY T. Hariu

DATE 10/16/89 CHK'D BY J. Steiner

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
2	6,5, 7,5 (17%)		Light gray SAND (fill); dry; poorly graded; medium dense (SP)	2" SS	No casing used						P4 = 100%; P200 = 54%
4	7,5, 6,5 (12%)		Dark brown clayey SAND (fill); dry; medium dense (SC)	2" SS							
6	6,4, 3,3 (58%)		Dark brown to black clayey SILT (fill); some sand; wet; medium stiff; slightly plastic (ML)	3" SS							
8	1,2, 3,3 (67%)			2" SS							
10	10,14 9,7 (79%)		Black silty SAND (fill); wet; medium dense (SM)	2" SS							
12	10,14 2,10 (100%)			3" SS							
14	6,3, 3,3 (71%)		Dark grayish-brown SILT (fill); wet; stiff; slightly plastic (CL)	2" SS							

Printed on recycled paper.

SOIL BOREHOLE LOG

SITE NAME AND LOCATION: CWM Incinerator, Chicago, IL	DRILLING METHOD: 8" OD Hollow Stem Auger	BORING NO.: B-G344
		SHEET: 2 OF 2
	SAMPLING METHOD: 2" Split-spoon (SS); 3" Split-spoon (SS)	DRILLING: START TIME 1010 DATE 10/16/89; FINISH TIME 1340 DATE 10/16/89
	WATER LEVEL / TIME / DATE / CASING DEPTH	
DATUM: Chicago City ELEVATION: 10.8'		
DRILL RIG: Mobile B-57 ATV	SURFACE CONDITIONS: Asphalt	
ANGLE: vertical BEARING:		
SAMPLE HAMMER TORQUE: FT.-LBS		

DRILLING CONTR: ATEC

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
	4,2, 4,2 (46%)		Dark grayish-brown SILT (fill); wet; stiff; slightly plastic (CL)	2" SS							
15											
	3,5, 6,9 (59%)		Gray CLAY; stiff; plastic (CH)	2" SS							
18			Bottom of boring at 18 feet.								

LOGGED BY T. Hariu

DATE 10/16/89 CHK'D BY J. Steiner

Printed on recycled paper

SOIL BOREHOLE LOG

NAME AND LOCATION: CWM Incinerator, Chicago, IL

DRILLING METHOD: 4-1/4" ID Hollow Stem Auger

SAMPLING METHOD: Split-spoon (SS)

BORING NO.: B-345

SHEET: 1 OF 2

	DRILLING START	DRILLING FINISH
TIME	1310	1430
DATE	9/30/89	9/30/89

WATER LEVEL: TIME / DATE / CASING DEPTH

DATUM: Chicago City ELEVATION: 10.1'

DRILL RIG: Mobile B-57 ATV

ANGLE: vertical BEARING:

SAMPLE HAMMER TORQUE: FT.-LBS

SURFACE CONDITIONS: Asphalt paved

DRILLING CONTR: ATEC

Dennis

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
2	6,17, 40,43 (75%)		Brown to black sandy GRAVEL (fill); some silt and clay; dry; very dense; strong odor (GM)	2" SS	No casing used						
	40,28, 30,45 (100%)		Gray CLAY (fill); dry; dense (CL)	2" SS							
4	31,27, 23,23 (100%)			3" SS							
6	5,5, 7,15 (54%)		Brown to black sandy GRAVEL; wet; medium dense; some brick and wood (GP)	2" SS							
8	7,32, 36,55 (88%)		Gray silty SAND (fill); some fine grained gravel; moist; dense; slight odor (SM)	2" SS							
10	48,115 140 (100%)			3" SS							
12	7,4, 21,30 (92%)			2" SS							
14			Brown Sandy GRAVEL (fill); moist medium dense (GP)								

LOGGED BY: Terry Callaway

DATE: 9/30/89

CHK'D BY: J. Steiner

Printed on recycled paper.

SOIL BOREHOLE LOG

SITE NAME AND LOCATION CWM Incinerator Chicago, IL	DRILLING METHOD: 4-1/4" ID Hollow Stem Auger	BORING NO. B-345
	SAMPLING METHOD: Split-spoon (SS)	SHEET 2 OF 2
		DRILLING START TIME 1310 DATE 9/30/89 / FINISH TIME 1430 DATE 9/30/89
DATUM Chicago City ELEVATION 10.1'	WATER LEVEL / TIME / DATE / CASING DEPTH	
DRILL RIG Mobile B-57 ATV	SURFACE CONDITIONS	
ANGLE vertical BEARING	Asphalt paved	
SAMPLE HAMMER TORQUE FT.-LBS		

DEPTH IN FEET (ELEVATION)	BLOWS/ 6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPCIFIC GRAVITY	OTHER TESTS
	1,2, 5 (100%)		Brown sandy GRAVEL (fill)	2"							
16			Gray CLAY; some fine grained gravel; medium stiff (CL)	SS							
			Bottom of boring at 16 feet								

DRILLING CONTR ATEC

Dennis

LOGGED BY Terry Callaway

DATE 9/30/89 CHK'D BY J. Steiner

Printed on recycled paper.

SOIL BOREHOLE LOG

NAME AND LOCATION: CWM Incinerator, Chicago, IL

DRILLING METHOD: 8" OD Hollow Stem Auger

SAMPLING METHOD: 2" Split-spoon (SS); 3" Split-spoon (SS)

BORING NO.: B-346

SHEET: 1 OF 2

DRILLING: START TIME 0310 DATE 9/30/89; FINISH TIME 0415 DATE 9/30/89

WATER LEVEL					
TIME					
DATE					
CASING DEPTH					

DATUM: Chicago City ELEVATION: 7.8'

DRILL RIG: Mobile B-57 ATV

SURFACE CONDITIONS:

ANGLE: vertical BEARING:

SAMPLE HAMMER TORQUE: FT.-LBS

ATEC

DRILLING CONTR: D. Ciss

DEPTH IN FEET (ELEVATION)	BLOWS/ 6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
2	8,12, 50/6" (59%)		SAND (fill); some gravel; dry; poorly graded; very dense (SP)	2" SS	No casing used						
	22,26, 106,31 (83%)			2" SS							
4	8,13, 9,12 (37%)		Dark brown silty CLAY (fill); saturated at 8 feet; very stiff to hard; slightly plastic; some organic matter and wood fragments (CL)	3" SS							
6	44, 128 (83%)		very sandy below 6 feet	2" SS							
8	4,12, 17,33 (83%)			2" SS							P4 = 97%; P200 = 36%
10	8,19, 9,7 (62%)		Grayish-brown clayey SILT (fill); saturated; very stiff (ML)	2" SS							
12	3,2, 1,5 (100%)			3" SS							
14											

LOGGED BY: T. Hariu

DATE: 9/30/89

CHK'D BY: J. Steiner

Printed on recycled paper

SOIL BOREHOLE LOG

SITE NAME AND LOCATION
CWM Incinerator
Chicago, IL

DRILLING METHOD:
8" OD Hollow Stem Auger

SAMPLING METHOD:
2" Split-spoon (SS)
3" Split-spoon (SS)

BORING NO.
B-346

SHEET
2 OF 2

					DRILLING START	DRILLING FINISH
WATER LEVEL						
TIME					0310	0415
DATE					9/30/89	9/30/89
CASING DEPTH						

DATUM Chicago City ELEVATION 7.8'
DRILL RIG Mobile B-57 ATV
ANGLE Vertical BEARING
SAMPLE HAMMER TORQUE FT.-LBS
SURFACE CONDITIONS

DRILLING CONTR ATEC D. Cass

DEPTH IN FEET (ELEVATION)	BLOWS/ 6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
16			Grayish-brown clayey SILT (fill); saturated; very stiff (ML)	2" SS							
18	6,7, 8,13 (100%)		Light gray CLAY; saturated; stiff; very plastic (CL) Gradation Analysis GR SA SI CL 0 13 51 36	SH			20	35	18		K = 4.48 x 10^{-8} cm/sec
20	5,15, 8,10 (79%)			2" SS							
22	5,8, 12,15 (54%)			2" SS							
24			Bottom of boring at 24 feet.								

LOGGED BY T. Hariu
DATE 9/30/89
CHK'D BY

Printed on recycled paper

SOIL BOREHOLE LOG

SITE NAME AND LOCATION
CWM Incinerator
Chicago, IL

DRILLING METHOD:
4-1/4" ID Hollow Stem Auger

SAMPLING METHOD:
2" Split-spoon (SS)
3" Split-spoon (SS)

BORING NO.
B-G347

SHEET
1 OF 2

		DRILLING START	DRILLING FINISH
WATER LEVEL		TIME	TIME
TIME		1030	1230
DATE		DATE	DATE
CASING DEPTH		10/1/89	10/1/89

DATUM Chicago City ELEVATION 9.3'
DRILL RIG Mobile B-57 ATV
ANGLE Vertical BEARING
SAMPLE HAMMER TORQUE FT.-LBS
SURFACE CONDITIONS: Asphalt paved - slight slope

DRILLING CONTR ATEC
Dennis

LOGGED BY Terry Callaway
DATE 10/1/89
CHK'D BY J. Steiner

DEPTH IN FEET (ELEVATION)	BLOWS/ 6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
2	50,40, 30,25 (88%)		Dark brown silty SAND and GRAVEL (fill); dry; very dense; slight odor; some concrete (GM)	2" SS	No casing used						
	27, 100/5" (27%)			3" SS							
4	4,4, 4,7 (54%)		Yellowish-brown silty CLAY (fill); moist; medium stiff; slight odor (CL)	3" SS							
6	1,2, 3,2 (46%)		Gray silty SAND (fill); fine grained; wet; loose (SM)	2" SS							
8	2,1, 2,5 (46%)		Silty CLAY (fill); some sand; wet; soft; slightly plastic (CL)	2" SS							
10	5,5, 6,5 (100%)		Brown to black SAND (fill); fine to coarse grained; some gravel and silt; wet; loose to medium dense (SP)	3" SS							
12	6,7, 5,4 (58%)			2" SS							
14											

Printed on recycled paper.

SOIL BOREHOLE LOG

SITE NAME AND LOCATION CWM Incinerator Chicago, IL	DRILLING METHOD: 4-1/4" ID Hollow Stem Auger		BORING NO. B-G347
			SHEET 2 OF 2
	SAMPLING METHOD: 2" Split-spoon (SS) 3" Split-spoon (SS)		DRILLING START: TIME 1030, DATE 10/1/89 FINISH: TIME 1230, DATE 10/1/89
	WATER LEVEL TIME DATE CASING DEPTH		
DATUM Chicago City ELEVATION 9.3'			
DRILL RIG Mobile B-57 ATV	SURFACE CONDITIONS Asphalt paved - slight slope		
ANGLE vertical BEARING			
SAMPLE HAMMER TORQUE FT.-LBS			

DRILLING CONTR ATEC Dennis

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
			Brown to black SAND (fill)								
			Gray CLAY; some fine grained gravel; stiff (CL)								
16			Bottom of boring at 16 feet.								

LOGGED BY Terry Callaway
DATE 10/1/89 CHK'D BY J. Steiner

Printed on recycled paper.

SOIL BOREHOLE LOG

SITE NAME AND LOCATION: CWM Incinerator, Chicago, IL	DRILLING METHOD: 4-1/4" ID Hollow Stem Auger	BORING NO. B-G348
		SHEET 1 OF 2
	SAMPLING METHOD: 2" Split-spoon (SS); 3" Split-spoon (SS)	DRILLING START / FINISH
	WATER LEVEL / TIME	TIME 1590 / 0915
	TIME	
	DATE	DATE 9/30/89 / DATE 10/1/89
	CASING DEPTH	
DATUM Chicago City ELEVATION 10.5'		
DRILL RIG Mobile B-57 ATV	SURFACE CONDITIONS: Asphalt paved	
ANGLE vertical BEARING		
SAMPLE HAMMER TORQUE FT.-LBS		

DRILLING CONTR ATEC

Dennis

DEPTH IN FEET (ELEVATION)	BLOWS/6IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
0	8,7, 6,8 (67%)		Light brown to gray SAND (fill); some gravel and organic matter; dry; loose to medium dense (SP)	2" SS	No casing used						
2	8,8, 4,5 (100%)			3" SS							
4	3,5, 5,6 (100%)		Wet at 5 feet	3" SS							
6	5,6, 7,5 (46%)			2" SS							
8	2,28, 100/3" (87%)		Brown to gray CLAY (fill); some sand and gravel; moist to wet; stiff to hard; nonplastic (CL)	3" SS							
10	35,10$ 100/2" (100%)			3" SS							
12	8,32, 45,18 (71%)		Dark brown SAND (fill); some gravel and silt; moist to wet; very dense (SP)	2" SS							
14											

LOGGED BY Terry Callaway

DATE 10/1/89 CHK'D BY J. Steiner

Printed on recycled paper.

SOIL BOREHOLE LOG

SITE NAME AND LOCATION CWM Incinerator Chicago, IL	DRILLING METHOD: 4-1/4" ID Hollow Stem Auger		BORING NO. B-G348
			SHEET 2 OF 2
	SAMPLING METHOD: 2" Split-spoon (SS) 3" Split-spoon (SS)		DRILLING START: TIME 1590, DATE 9/30/89 FINISH: TIME 0915, DATE 10/1/89
	WATER LEVEL / TIME / DATE / CASING DEPTH		
DATUM Chicago City ELEVATION 10.5'			
DRILL RIG Mobile B-57 ATV	SURFACE CONDITIONS		
ANGLE vertical BEARING	Asphalt paved		
SAMPLE HAMMER TORQUE FT.-LBS			

DRILLING CONTR ATEC

Dennis

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
	1,1, 2,4 (50%)		Dark brown SAND (fill) Gray CLAY; some fine grained gravel; moist; stiff (CL)								
16			Bottom of boring at 16 feet.								

LOGGED BY Terry Callaway

DATE 10/1/89 CHK'D BY J. Steiner

SOIL BOREHOLE LOG

SITE NAME AND LOCATION: CWM Incinerator, Chicago, IL

DRILLING METHOD: 8" OD Hollow Stem Auger

SAMPLING METHOD: 2" Split-spoon (SS); 3" Split-spoon (SS)

BORING NO.: B-G349

SHEET: 1 OF 2

	DRILLING START	DRILLING FINISH
WATER LEVEL TIME		
TIME	0940	1200
DATE	10/1/89	10/1/89

DATUM: Chicago City ELEVATION: 10.9'

DRILL RIG: Mobile B-57 ATV

ANGLE: vertical BEARING:

SAMPLE HAMMER TORQUE: FT.-LBS

SURFACE CONDITIONS:

DRILLING CONTR: ATEC

LOGGED BY: T. Hariu

DATE: 10/01/89

CHK'D BY: J. Sicinar

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
2	10,8, 12,15 (33%)		Light gray sandy GRAVEL (fill); dry; poorly graded; medium dense (GP)	2" SS	No casing used						
	9,7, 6,5 (62%)		Dark brown clayey SAND (fill); damp; medium dense (SC)	2" SS							
4			Brown fine grained SAND (fill); poorly graded (SP)								
6	14,12, 33,69 (100%)		Gray and white mottled CLAY (fill); damp; hard; plastic (CL)	3" SS							
	31,53, 18,24 (87%)		Brown to gray clayey SAND (fill); wet; hard to very hard; slightly plastic (SC)	2" SS							
8	4,6, 37,50 3" (100%)		Brown to gray clayey SILT (fill); trace very fine sand; wet; hard; slightly plastic (ML)	3" SS							
10	18,16, 34,22 (100%)			2" SS							
12	6,10, 13,12 (100%)			2" SS							
14											

Printed on recycled paper.

SOIL BOREHOLE LOG

SITE NAME AND LOCATION: CWM Incinerator, Chicago, IL	DRILLING METHOD: 8" OD Hollow Stem Auger	BORING NO. B-G349
	SAMPLING METHOD: 2" Split-spoon (SS); 3" Split-spoon (SS)	SHEET 2 OF 2
	WATER LEVEL / TIME / DATE	DRILLING START: TIME 0940, DATE 10/1/89
	CASING DEPTH	DRILLING FINISH: TIME 1200, DATE 10/1/89
DATUM: Chicago City	ELEVATION: 10.9'	
DRILL RIG: Mobile B-57 ATV	SURFACE CONDITIONS	
ANGLE: vertical	BEARING	
SAMPLE HAMMER TORQUE	FT.-LBS	

DRILLING CONTR: ATEC

DEPTH IN FEET (ELEVATION)	BLOWS/ FT. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
15	3,4, 5,5 (62%)		Light gray CLAY; stiff; very plastic (CH)	2" SS							
			Bottom of boring at 18 feet.								

LOGGED BY T. Hariu

DATE 10/01/89

CHK'D BY J. Siciner

B

Manufactured By EconoPrint, Inc., Madison, WI

Printed On Recycled Paper

APPENDIX B
BORING LOGS, PHASE II

SOIL BOREHOLE LOG

E NAME AND LOCATION

C W M Chemical Services, Inc.
Chicago Incinerator
Chicago, IL.

DRILLING METHOD: 3/14" ID HSA

SAMPLING METHOD: 2" and 3" OD Split-spoons with a 300 lb. hammer

BORING NO. FG-1

SHEET 1 OF 2

					DRILLING START TIME	DRILLING FINISH TIME
WATER LEVEL	4'					
TIME	12:30P				11:30AM	1:00PM
DATE	10/23/91				DATE	DATE
CASING DEPTH	15' HSA				10/23/91	10/23/91

DATUM Chicago City ELEVATION 10.4'

DRILL RIG BK-81

ANGLE Vertical BEARING

SAMPLE HAMMER TORQUE FT.-LBS

SURFACE CONDITIONS: Crushed Gravel

DRILLING CONTR WTD Enviormental Drilling

LOGGED BY M. Mc Colloch

DATE 10/23/91 CHK'D BY

SL 15584

DEPTH IN FEET (ELEVATION)	BLOWS/ 6 IN ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPCIFIC GRAVITY	OTHER TESTS
2	2, 1 2, 1 33%		Fill, sand, loose, slightly moist, poorly graded, rounded grains, medium grained. (SP).	2" SS							
4	5,4 4,5 92%		Fill, silt, clayey, some gravel, very stiff, slightly moist, non-plastic to slightly plastic, black. (ML)	2" SS							
6	2, 2 4,3 83%		Increasing clay content, and gravel (brick clasts).	2" SS							
8	4, 5 5,18 67%		Silt and gravel, wet, dense, well graded.	3" SS							
10	4, 1 1, 2 33%		Silt, clayey, little fine to medium sand, little gravel, wet, firm, dark gray to black.	2" SS							
12	1, 0 1, 0 33%		Silt, very soft.	2" SS							
14	3, 6 25,27 67%		Silt and gravel.	3" SS							
	1, 0 1, 1		Clay, silty, soft, moist, low plasticity, grayish brown (CL).	2" SS							

Printed on recycled paper

SOIL BOREHOLE LOG

SITE NAME AND LOCATION W M Chemical Services, Inc. Chicago Incinerator Chicago, IL.	DRILLING METHOD: 3 1/4" ID HSA SAMPLING METHOD: 2" and 3" OD Split-spoons with a 300 lb. hammer.	BORING NO. EG-1 SHEET 2 OF 2
	WATER LEVEL / TIME / DATE / CASING DEPTH	DRILLING START: TIME 11:30AM, DATE 10/23/91 DRILLING FINISH: TIME 1:00PM, DATE 10/23/91
DATUM Chicago City ELEVATION 10.4'		
DRILL RIG BK-81	SURFACE CONDITIONS Crushed Gravel	
ANGLE Vertical BEARING		
SAMPLE HAMMER TORQUE FT.-LBS		

DEPTH IN FEET (ELEVATION)	BLOWS/ 6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPCIFIC GRAVITY	OTHER TESTS
16	67%		Fill, clay, silty (CL).	2" SS							
			Clay-fill contact at 16'. EOB @ 16' 10/23/91. Borehole abandoned with bentonite cement grout. Hydropunch II sampling device installed in adjacent borehole 11/5/91. Drilled to 8' with 3¼" ID HSA, pounded hydropunch II to 12' and pulled back to 9'. Sample collected 11/5/91. Borehole abandoned with bentonite-cement-grout 11/5/91.								

DRILLING CONTR WTD Enviornmental Drilling

SL 15585

LOGGED BY M. Mc Colloch DATE 10/23/91 CHK'D BY

Printed on recycled paper

SOIL BOREHOLE LOG

SITE NAME AND LOCATION

WM Chemical Services, Inc.
Chicago Incinerator
Chicago, IL.

DRILLING METHOD: 3 1/4" ID HSA

SAMPLING METHOD: 2" and 3" OD Split-spoons with a 300 lb hammer

BORING NO. FG-2

SHEET 1 OF 2

					DRILLING START	DRILLING FINISH
WATER LEVEL						
TIME					TIME 9:30AM	TIME 11:30AM
DATE					DATE 10/23/91	DATE 10/23/91
CASING DEPTH						

DATUM Chicago City ELEVATION 12.0'

DRILL RIG BK-81

ANGLE Vertical BEARING

SAMPLE HAMMER TORQUE FT.-LBS

SURFACE CONDITIONS: Crushed Gravel

DRILLING CONTR

WTD Enviornmental Drilling

SL 15586

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPCIFIC GRAVITY	OTHER TESTS
	5, 4 10,11 75%		Fill, crushed gravel 0-1'.	2" SS							
2	10,17 18,10 67%		Fill, silt, clayey, some gravel, little sand, stiff, moist, non-plastic. Dark brown to black, mottled, slight chemical odor. (ML)	2" SS							
4	4, 3 2, 3 58%			2" SS							
6	3, 6 5, 4 67%		Fill, silty clay, little gravel, little sand, very stiff, very moist, low plasticity, greenish brown (CL).	3" SS							
8	6, 5 4, 2 58%		Saturated, black silty ground-water with wood chips.	2" SS							
10	1, 1 1, 1 50%		6" seam of silty sand and brick clasts.	2" SS							
12	2, 4 8,16 50%			3" SS							
14	2, 2 2, 3		Gray silty clay in tip of split-spoon.	2" SS							

LOGGED BY M. Mc Colloch

DATE 10/23/91 CHK'D BY DT

printed on recycled paper ©

SOIL BOREHOLE LOG

SITE NAME AND LOCATION
W M Chemical Services, Inc.
Chicago Incinerator
Chicago, IL.

DRILLING METHOD: 3 1/4" ID HSA
SAMPLING METHOD: 2" and 3" OD Split-spoons with a 300 lb. hammer

BORING NO. FG-2
SHEET 2 OF 2

					DRILLING START	DRILLING FINISH
WATER LEVEL						
TIME					TIME 9:30AM	TIME 11:30AM
DATE					DATE 10/23/91	DATE 10/23/91
CASING DEPTH						

DATUM Chicago City ELEVATION 12.0'
DRILL RIG BK-81
ANGLE Vertical BEARING
SAMPLE HAMMER TORQUE FT.-LBS
SURFACE CONDITIONS Crushed Gravel

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
16	33%		Gray clay in tip of split-spoon.	2" SS							
			Clay-fill contact at 16'.								
			EOB @ 16' 10/23/91. Borehole abandoned with bentonite-cement-grout 10/23/91.								
			Hydropunch II sampling device installed in adjacent borehole 11/6/91. Drilled to 8' with 3¼" ID HSA, pounded hydropunch II to 11½', pulled back to 9'. Sample collected from 11/6/91 to 11/11/91. Borehole abandoned with bentonite-cement-grout 11/11/91.								

DRILLING CONTR WTD Enviornmental Drilling
SL 15587
LOGGED BY M. Mc Colloch CHK'D BY DTO
DATE 10/23/91

SOIL BOREHOLE LOG

NAME AND LOCATION

C W M Chemical Services, Inc.
Chicago Incinerator
Chicago, IL.

DRILLING METHOD: 3 1/4" ID HSA

SAMPLING METHOD: 2" and 3" OD Split-spoon with a 300 lb. hammer

BORING NO. EG-3

SHEET 1 OF 2

DRILLING: START TIME 7:30AM DATE 10/23/91; FINISH TIME 9:30AM DATE 10/23/91

WATER LEVEL: TIME / DATE

CASING DEPTH

DATUM Chicago City ELEVATION 11.5'

DRILL RIG BK-81

ANGLE Vertical BEARING

SAMPLE HAMMER TORQUE FT.-LBS

SURFACE CONDITIONS: Crushed Gravel

DRILLING CONTR

WD Enviornmental Drilling

SL 15588

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
2	4,14 18,24 50%		3" of crushed gravel. Fill, silt, clayey, some coarse sand to fine gravel, (brick clusts), hard, slightly moist, non-plastic. (ML)	2" SS							
	10, 7 8, 7 58%			2" SS							
4	10,11 10, 4 75%		Fill, sand and gravel, dense, wet, black. (SP). Slight chemical odor.	2" SS							
6	6, 4 4, 5 58%		Fill, silty clay, little gravel, trace fine sand, stiff, moist, low plasticity, greenish gray (CL-ML).	3" SS							
8	0, 2 1, 1 83%		Increasing clay content, moderate plasticity.	2" SS							
10	1, 0 0, 1 42%			2" SS							
12	4,27 28, 4 42%		Clay mixed with brick clasts.	2" SS							
14	3, 6 4, 4		Clay, silty, some gravel, hard, moist, low plasticity (CL).	2" SS							

LOGGED BY M. Mc Colloch

DATE 10/23/91 CHK'D BY

Printed on recycled paper

SOIL BOREHOLE LOG

E NAME AND LOCATION

C W M Chemical Services, Inc.
Chicago Incinerator
Chicago, IL.

DRILLING METHOD: 3 1/4" ID HSA

SAMPLING METHOD: 2" and 3" OD Split-spoons with a 300 lb. hammer.

BORING NO. FG-3

SHEET 2 OF 2

	DRILLING START	DRILLING FINISH
WATER LEVEL		
TIME	7:30AM	9:30AM
DATE	10/23/91	10/23/91
CASING DEPTH		

DATUM Chicago City ELEVATION 11.5'

DRILL RIG BK-81

ANGLE Vertical BEARING

SAMPLE HAMMER TORQUE FT.-LBS

SURFACE CONDITIONS: Crushed Gravel

DRILLING CONTR WTD Enviornmental Drilling

DEPTH IN FEET (ELEVATION)	BLOWS/ 6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPCIFIC GRAVITY	OTHER TESTS
16	67%		Fill, Clay	2" SS							

EOB @ 16' 10/23/91. Borehole abandoned with bentonite-cement-grout 10/23/91.

Hydropunch II sampling device installed in adjacent borehole 11/7/91. Drilling to 8' with 3¼" ID HSA, pounded hydropunch II to 12', and pulled back to 9'. Sample collected from 11/12/91 to 11/19/91. Abandoned borehole with bentonite-cement-grout 11/19/91.

LOGGED BY M. Mc Colloch DATE 10/23/91 CHK'D BY DTC

SL 5589

SOIL BOREHOLE LOG

NAME AND LOCATION: C W M Chemical Services, Inc.
Chicago Incinerator
Chicago, IL.

DRILLING METHOD: 3 1/4" ID HSA

SAMPLING METHOD: 2" and 3" OD Split-spoons with a 300 lb. hammer

BORING NO.: EG-4

SHEET: 1 OF 2

DRILLING: START TIME 3:00PM DATE 10/22/91 — FINISH TIME 3:45PM DATE 10/22/91

WATER LEVEL	
TIME	
DATE	
CASING DEPTH	

DATUM Chicago City ELEVATION 9.9'

DRILL RIG BK-81

ANGLE Vertical BEARING

SAMPLE HAMMER TORQUE FT.-LBS

SURFACE CONDITIONS: Grassy with Weeds

DRILLING CONTR WTD Enviornmental Drilling

SL 15590

LOGGED BY M. Mc Colloch DATE 10/22/91 CHK'D BY DTJ

DEPTH IN FEET (ELEVATION)	BLOWS/ 6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPCIFIC GRAVITY	OTHER TESTS
?											
4											
6	3, 6 1, 1 50%		Fill, clay, silty, some coarse sand to fine gravel, moist, stiff, low plasticity, brown. Brick clasts present (CL-ML).	3" SS							
8											
10											
12											
14	1, 0 1, 0 92%		Fill, clay, silty, trace fine sand, soft, moist, moderate plasticity, dark greenish gray (CL).	2" SS							

SOIL BOREHOLE LOG

SITE NAME AND LOCATION
W M Chemical Services, Inc.
Chicago Incinerator
Chicago, IL.

DRILLING METHOD: 3 1/4" ID HSA

SAMPLING METHOD: 2" and 3" OD Split-spoons with a 300 lb hammer.

BORING NO. FG-4

SHEET 2 OF 2

					DRILLING START	DRILLING FINISH
WATER LEVEL					TIME	TIME
TIME					3:00PM	3:45PM
DATE					DATE	DATE
CASING DEPTH					10/22/91	10/22/91

DATUM Chicago City ELEVATION 9.9'

DRILL RIG BK-81

ANGLE Vertical BEARING

SAMPLE HAMMER TORQUE FT.-LBS

SURFACE CONDITIONS: Grassy with Weeds

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPCIFIC GRAVITY	OTHER TESTS
16	1, 2 2, 3 100%		Clay fill contact at 16'. Clay, silty, moist, stiff, moderate plasticity, grayish brown. (CL) [Lacustrine]	3" SS							
18			EOB @ 17' 10/22/91. Borehole abandoned with bentonite-cement-grout 10/22/91. Hydropunch II sampling device installed in adjacent borehole 11/12/91. Drilled to 8' with 3¼" ID HSA, pounded hydropunch II to 13', pulled back to 9'. Sample collected 11/12/91 to 11/19/91. Borehole abandoned 11/19/91 with bentonite-cement-grout.								

DRILLING CONTR WM Environmental Drilling

SI 15591

LOGGED BY M. Mc Colloch CHKD BY DTH

DATE 10/22/91

SOIL BOREHOLE LOG

NAME AND LOCATION

C W M Chemical Services, Inc.
Chicago Incinerator
Chicago, IL.

DRILLING METHOD: 3 1/4" ID HSA

SAMPLING METHOD: 3" OD Split-spoons with a 300 lb hammer

BORING NO. FG-5

SHEET 1 OF 2

	DRILLING START	DRILLING FINISH
WATER LEVEL TIME		
TIME	9:20AM	10:45AM
DATE	10/29/91	10/29/91

DATUM Chicago City ELEVATION 9.5'

DRILL RIG BK-81

ANGLE Vertical BEARING W

SAMPLE HAMMER TORQUE FT.-LBS

CASING DEPTH

SURFACE CONDITIONS: Asphalt

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPCIFIC GRAVITY	OTHER TESTS
2			Hard drilling 2-2½'. Boulder or block of concrete.								
4			Fill, gravel, clayey, silty, medium dense (GC). Grades into a silt.								
6	8, 3 5,14 92%		Fill, silt, trace sand, trace gravel, very stiff, moist, non-plastic, brown (ML). Slight chemical odor from black silty groundwater.	3" SS							
8											
10			Drill cuttings dark brown at 8'.								
12	8 ,5 20,25 100%		Fill, silt, trace gravel, trace sand, hard, moist, non-plastic, dark gray to black (ML). Slight chemical odor.	3" SS							
14											

DRILLING CONTR WTD Enviornmental Drilling

SL 15592

LOGGED BY M. Mc Colloch DATE 10/29/91 CHK'D BY DG

Printed on recycled paper (

SOIL BOREHOLE LOG

E NAME AND LOCATION C W M Chemical Services, Inc. Chicago Incinerator Chicago, IL.	DRILLING METHOD:	BORING NO. EG-5
		SHEET 2 OF 2
	SAMPLING METHOD:	DRILLING
		START / FINISH
	WATER LEVEL	TIME / TIME
	TIME	9:20AM / 10:45AM
	DATE	DATE / DATE
DATUM Chicago City ELEVATION 9.5'	CASING DEPTH	10/29/91 / 10/29/91
DRILL RIG BK-81	SURFACE CONDITIONS	
ANGLE Vertical BEARING		
SAMPLE HAMMER TORQUE FT.-LBS		

DEPTH IN FEET (ELEVATION)	BLOWS/ 6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPCIFIC GRAVITY	OTHER TESTS
			EOB @ 14' 10/29/91. Borehole abandoned with bentonite-cement-grout 10/29/91.								
			Hydropunch II sampling device installed in adjacent borehole 11/12/91. Drilled to 8' with 3¼" ID HSA, pounded hydropunch II to 13', pulled back to 9'. Sample collected 11/12/91. Borehole abandoned with bentonite-cement grout 11/12/91.								

DRILLING CONTR WTD Enviornmental Drilling

SL 3593

LOGGED BY M. Mc Colloch CHK'D BY DTT

DATE 10/29/91

SOIL BOREHOLE LOG

E NAME AND LOCATION

WM Chemical Services, Inc.
Chicago Incinerator
Chicago, IL.

DRILLING METHOD: 3 1/4" ID HSA

SAMPLING METHOD: 3" OD Split-spoon with a 300 lb. hammer

BORING NO. FG-6

SHEET 1 OF 2

					DRILLING START	DRILLING FINISH
WATER LEVEL						
TIME					11:00AM	12:00PM
DATE					10/29/91	10/29/91
CASING DEPTH						

DATUM Chicago City ELEVATION 9.2'

DRILL RIG BK-81

ANGLE Vertical BEARING

SAMPLE HAMMER TORQUE FT.-LBS

SURFACE CONDITIONS: Asphalt

DEPTH IN FEET (ELEVATION)	BLOWS/ 6 IN ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPCIFIC GRAVITY	OTHER TESTS
2											
4											
6	47,21		Fill, sand and gravel, clayey, silty, moist, very dense (SC).								
8	27,34 83%		Fill, silt, little gravel, hard, moist, non-plastic, brown (ML).	3" SS							
10											
12			Fill, silt, sandy, little gravel, very stiff, moist, non-plastic, dark brown (ML).								
14	7, 8 7, 4 100%			3" SS							

DRILLING CONTR WTD Enviornmental Drilling

SL 15594

LOGGED BY M. Mc Colloch CHK'D BY DTA

DATE 10/29/91

Printed on recycled paper

SOIL BOREHOLE LOG

SITE NAME AND LOCATION	DRILLING METHOD:	BORING NO.
NM Chemical Services, Inc. Chicago Incinerator Chicago, IL.	3 1/4" ID HSA	FG-6
		SHEET 2 OF 2
	SAMPLING METHOD: 3" OD Split-spoons with a 300 lb. hammer	DRILLING START TIME 11:10AM / FINISH TIME 12:00PM
	WATER LEVEL / TIME / DATE / CASING DEPTH	START DATE 10/29/91 / FINISH DATE 10/29/91
DATUM Chicago City ELEVATION 9.2'		
DRILL RIG BK-81	SURFACE CONDITIONS	
ANGLE Vertical BEARING	Asphalt	
SAMPLE HAMMER TORQUE FT.-LBS		

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPCIFIC GRAVITY	OTHER TESTS
			EOB @ 15' 10/29/91. Borehole abandoned with bentonite-cement-grout 10/29/91. Hydropunch II sampling device installed in adjacent borehole 11/19/91. Drilled to 8' with 3¼" ID HSA, pounded to 11' and pulled back to 9'. Sample collected 11/19/91. Borehole abandoned with bentonite-cement-grout 11/19/91.								

DRILLING CONTR WID Enviornmental Drilling

SL 15595

LOGGED BY M. Mc Colloch DATE 10/29/91 CHK'D BY DTC

printed on recycled paper

SOIL BOREHOLE LOG

E NAME AND LOCATION

C W M Chemical Services, Inc.
Chicago Incinerator
Chicago, IL.

DRILLING METHOD: 3 1/4" ID HSA

SAMPLING METHOD: 2" and 3" OD Split-spoons with a 300 lb. hammer.

BORING NO. FG-7

SHEET 1 OF 2

	DRILLING START	DRILLING FINISH
WATER LEVEL		
TIME	TIME 11:15AM	TIME 2:15PM
DATE	DATE 10/23/91	DATE 10/23/91
CASING DEPTH		

DATUM Chicago City ELEVATION 9.4'

DRILL RIG BK-81

ANGLE Vertical BEARING

SAMPLE HAMMER TORQUE FT.-LBS

SURFACE CONDITIONS: Crushed Gravel

DEPTH IN FEET (ELEVATION)	BLOWS/ 6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPCIFIC GRAVITY	OTHER TESTS
2	3,5 6,3 83%		Crushed gravel 0-1'. Fill, silt, some gravel, very stiff, moist, non-plastic, brown, (ML).	2" SS							
4	5,6 5,3 50%		Black liquid/sludge, strong chemical odor.	2" SS							
6	1,2 3,3 67%			2" SS							
8	1,0 1,2 50%		Fill, silty clay, little sand, little gravel, soft, moist, low plasticity, greenish gray (CL-ML).	3" SS							
10	3,2 2,3 50%			2" SS							
12	1,2 2,2 67%		Fill, sand, silty, fine to medium grained, little gravel, loose, very moist, dark brown (SM).	2" SS							
14	3,6 3,2 67%			3" SS							
	1,0 2,2		Clay-fill contact at 14'.	2" SS							

DRILLING CONTR WID Enviornmental Drilling

SL 15582

LOGGED BY M. Mc Colloch CHK'D BY DG

DATE 10/23/91

SOIL BOREHOLE LOG

SITE NAME AND LOCATION

CWM Chemical Services, Inc.
Chicago Incinerator
Chicago, IL.

DRILLING METHOD: 3 1/4" ID HSA

SAMPLING METHOD: 2" and 3" OD Split-spoons with a 300 lb. hammer.

BORING NO. FG-7

SHEET 2 OF 2

	DRILLING START TIME	DRILLING FINISH TIME
WATER LEVEL		
TIME	1:15AM	2:15PM
DATE	10/23/91	10/23/91
CASING DEPTH		

DATUM Chicago City ELEVATION 9.4'

DRILL RIG BK-81

ANGLE Vertical BEARING

SAMPLE HAMMER TORQUE FT.-LBS

SURFACE CONDITIONS: Crushed Gravel

DEPTH IN FEET (ELEVATION)	BLOWS/ 6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPCIFIC GRAVITY	OTHER TESTS
16	100%		Clay, silty, firm, moist, moderate plasticity, light gray (CL) [Lacustrine].	2" SS							
			EOB @ 16' 10/23/91. Borehole abandoned with bentonite-cement-grout 10/23/91.								
18			Hydropunch II sampling device installed in adjacent borehole 11/11/91. Drilled to 8' with 3¼" ID HSA, pounded to 12' and pulled back to 9'. Sample collected 11/11/91. Borehole abandoned with bentonite-cement-grout 11/11/91.								
20											

DRILLING CONTR WTD Enviornmental Drilling

SL -3596

LOGGED BY M. Mc Colloch DATE 10/23/91 CHK'D BY DTC

Printed on recycled paper

SOIL BOREHOLE LOG

E NAME AND LOCATION

C W M Chemical Services, Inc.
Chicago Incinerator
Chicago, IL.

DRILLING METHOD: 3 1/4" ID HSA

SAMPLING METHOD: 2" and 3" OD Split-spoons with a 300 lb. hammer

BORING NO. FG-8

SHEET 1 OF 2

DRILLING

	START	FINISH
TIME	2:45PM	3:45PM
DATE	10/23/91	10/23/91

WATER LEVEL				
TIME				
DATE				
CASING DEPTH				

DATUM Chicago City ELEVATION 10.0'

DRILL RIG BK-81

ANGLE Vertical BEARING

SAMPLE HAMMER TORQUE FT.-LBS

SURFACE CONDITIONS: Crushed Gravel

DRILLING CONTR WTD Enviornmental Drilling

SL 15597

LOGGED BY M. Mc Colloch CHK'D BY

DATE 10/23/91

DEPTH IN FEET (ELEVATION)	BLOWS/ 6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPCIFIC GRAVITY	OTHER TESTS
	8,18 39,28 42%		Fill, silt, some gravel, hard, slightly moist, non-plastic, brown (ML).	2" SS							
-2	5, 6 10, 6 50%		Decreasing gravel content.	2" SS							
4	2, 1 2, 2 75%		Black silty groundwater, strong chemical odor.	2" SS							
6	1, 0 1, 1 67%		Fill, clay, silty, little gravel, soft, moist, low plasticity, dark brown (CL).	3" SS							
8	1, 2 2, 1 58%		2" to 3" sand seams saturated with silty black groundwater, strong chemical odor.	2" SS							
10	1, 1 2, 2 50 %		6" to 8" sand seams as above.	2" SS							
12	2, 3 2, 3 67%			3" SS							
14	2,4 4, 5		Clay-fill contact at 15'.	3" SS							

SOIL BOREHOLE LOG

TE NAME AND LOCATION

C W M Chemical Services, Inc.
Chicago Incinerator
Chicago, IL.

DRILLING METHOD:	3 1/4" ID HSA
SAMPLING METHOD:	2" and 3" OD Split-spoons with a 300 lb hammer.
BORING NO.	FG-8
SHEET	2 OF 2
DRILLING	START / FINISH
WATER LEVEL	
TIME	2:45PM / 3:45PM
DATE	10/23/91 / 10/23/91
CASING DEPTH	

DATUM Chicago City ELEVATION

DRILL RIG BK-81

ANGLE Vertical BEARING

SAMPLE HAMMER TORQUE FT.-LBS

SURFACE CONDITIONS: Crushed gravel

DEPTH IN FEET (ELEVATION)	BLOWS/ 6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
16	50%		Clay, silty, firm, moist, moderate plasticity, light gray (CL) [Lacustrine].	3" SS							
			EOB @ 16' 10/23/91. Borehole abandoned with bentonite-cement-grout 10/23/91.								
			Hydropunch II sampling device installed in adjacent borehole 11/12/91. Drilled to 8' with 3¼" ID HSA, pounded to 13' and pulled back to 9'. Sample collected 11/12/91. Borehole abandoned with bentonite-cement-grout 11/12/91.								

DRILLING CONTR WTD Enviornmental Drilling

SL -5598

LOGGED BY M. Mc Colloch CHK'D BY DATE 10/23/91

SOIL BOREHOLE LOG

SITE NAME AND LOCATION

CWM Chemical Services, Inc.
Chicago Incinerator
Chicago, IL.

DRILLING METHOD: 3 1/4" ID HSA

BORING NO. FG-9

SHEET 1 OF 2

SAMPLING METHOD: 2" and 3" OD Split-spoons with a 300 lb. hammer.

DRILLING: START TIME 2:00PM DATE 10/24/91; FINISH TIME 1:15PM DATE 10/24/91

WATER LEVEL	3'
TIME	1:15PM
DATE	10/24/91
CASING DEPTH	

DATUM Chicago City ELEVATION 9.2'

DRILL RIG BK-81

ANGLE Vertical BEARING

SAMPLE HAMMER TORQUE FT.-LBS

SURFACE CONDITIONS: Crushed Gravel & Weeds

DRILLING CONTR WTD Enviornmental Drilling

LOGGED BY M. McCulloch DATE 10/24/91 CHK'D BY DTF

SL 15599

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
2	7,18 21,14 83%		Fill, silt, some gravel, hard, slightly moist, non-plastic (ML).	2" SS							
	3, 7 10,11 83%		Fill, gravel, some coarse sand, medium dense, very moist, poorly graded, angular grains, wet, (saturated with black silty ground-water). (GP).	2" SS							
4	4, 4 2, 4 67%			2" SS							
6	14, 5 5, 5 67%		Fill, clay, silty, little gravel, stiff, moist, low plasticity, brown (CL).	3" SS							
8	3, 3 5, 5 83%			2" SS							
10	6, 5 5, 6 67%		Increasing gravel and silt content with depth.	3" SS							
12	5, 2 1, 2 58%		Clay-fill contact at 13'.	3" SS							
14			Clay, silty, stiff, moist, moderate plasticity (CL) [Lacustrine].								

Printed on recycled paper

SOIL BOREHOLE LOG

SITE NAME AND LOCATION CWM Chemical Services, Inc. Chicago Incinerator Chicago, IL.	DRILLING METHOD: 3¼" ID HSA	BORING NO. FG-9
		SHEET 2 OF 2
	SAMPLING METHOD: 2" and 3" OD split-spoons with a 300 lb. hammer.	DRILLING START / FINISH
	WATER LEVEL: 3'	TIME: 12:00PM / 1:15PM
	TIME: 1:15PM	DATE: 10/24/91 / 10/24/91
	DATE: 10/24/91	
	CASING DEPTH:	
DATUM Chicago City ELEVATION		
DRILL RIG BK-81	SURFACE CONDITIONS Crushed gravel, weeds	
ANGLE Vertical BEARING		
SAMPLE HAMMER TORQUE FT.-LBS		

DEPTH IN FEET (ELEVATION)	BLOWS/ 6 IN ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
			Hydropunch II sampling device installed in adjacent borehole 10/28/91. Drilled to 8' with 3¼" ID HSA, pounded to 11' and pulled back to 9'. Sample collected 10/28/91 through 10/31/91. Borehole abandoned with bentonite-cement-grout 10/31/91.								
			EOB @ 14' 10/24/91. Borehole abandoned with bentonite-cement grout 10/24/91.								

DRILLING CONTR WTD Environmental Drilling

SL 15[illegible]

LOGGED BY M. McColloch

DATE 10/24/91 CHK'D BY DE

SOIL BOREHOLE LOG

SITE NAME AND LOCATION C W M Chemical Services, Inc. Chicago Incinerator Chicago, IL.	DRILLING METHOD: 3½" ID HSA SAMPLING METHOD: 3" OD split-spoon with a 300 lb. hammer.	BORING NO. FG-10 SHEET 1 OF 2

WATER LEVEL		
TIME	9:15AM	2:00PM
DATE	10/22/91	10/22/91
CASING DEPTH		

DRILLING START / FINISH

DATUM Chicago City ELEVATION 10.0'

DRILL RIG BK-81 SURFACE CONDITIONS

ANGLE Vertical BEARING

SAMPLE HAMMER TORQUE FT.-LBS

DEPTH IN FEET (ELEVATION)	BLOWS/6" ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPCFIC GRAVITY	OTHER TESTS
2	21,95 63,26 58%		Fill, clay, silty, little gravel, hard, slightly moist, low plasticity, dark brown (CL).	3" SS							
4			Large pieces of asphalt as drilling.								
6				3" SS							
8	100%										
10											
12			Fill, silt, some gravel, (bricks), hard, wet, non-plastic, dark brown (ML). Pieces of wood present.	3" SS							
14	67%		EOB @ 14'. Borehole abandoned with bentonite cement grout 10/22/91.								

DRILLING CONTR

WTD Environmental Drilling

SL 15516

LOGGED BY M. McCulloch

DATE 10/22/91 CHK'D BY DTO

SOIL BOREHOLE LOG

SITE NAME AND LOCATION C W M Chemical Services, Inc. Chicago Incinerator Chicago, IL.	DRILLING METHOD: 3¼" ID HSA	BORING NO. FG-10
		SHEET 2 OF 2
	SAMPLING METHOD: 3" OD split-spoon with a 300 lb. hammer.	DRILLING START / FINISH
	WATER LEVEL / TIME / DATE / CASING DEPTH	TIME / TIME DATE / DATE
DATUM Chicago City ELEVATION 10.0'		
DRILL RIG BK-81	SURFACE CONDITIONS	
ANGLE Vertical BEARING	Crushed gravel	
SAMPLE HAMMER TORQUE FT.-LBS		

DRILLING CONTR

WTD Environmental Drilling

SL 151.3

DEPTH IN FEET (ELEVATION)	BLOWS/ 6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
			FG-10D collected in original borehole. Hyropunch II set in adjacent borehole. FG-10S collected from 6-8' in third adjacent borehole. (Sample from 2-4' in first borehole discarded.)								
			Hydropunch II sampling device installed in adjacent borehole 10/22/91. Drilled to 8' with 3¼" ID HSA, pounded to 11', pulled back to 9'. Sample collected 10/22/91 through 10/24/91. Borehole abandoned 10/24/91 with bentonite-cement-grout.								

LOGGED BY M. McCulloch

DATE 10/22/91 CHK'D BY DVG

SOIL BOREHOLE LOG

SITE NAME AND LOCATION C W M Chemical Services, Inc. Chicago Incinerator Chicago, IL.	DRILLING METHOD: 3¼" ID HSA SAMPLING METHOD: 2" and 3" OD split-spoon with a 300 lb. hammer.	BORING NO. FG-11 SHEET 1 OF 2

					DRILLING START	DRILLING FINISH
WATER LEVEL					TIME	TIME
TIME					8:15AM	9:00AM
DATE					DATE	DATE
CASING DEPTH					10/29/91	10/29/91

DATUM Chicago City ELEVATION 10.6'

DRILL RIG BK-81 SURFACE CONDITIONS

ANGLE Vertical BEARING Asphalt

SAMPLE HAMMER TORQUE FT.-LBS

DRILLING CONTR WTD Environmental Drilling

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
2	28,3 4,3 17%		Fill, clay, silty, stiff, moist, low plasticity, brown (CL).	3" SS							
4	1,3 3,2 75%		Contains little gravel, fine to coarse, and little sand.	3" SS							
6											
8											
10											
12											
14	2,1		Brown gravelly clay. 148								

LOGGED BY M. McColloch

DATE 10/29/91 CHK'D BY DTJ

SL 15516

SOIL BOREHOLE LOG

SITE NAME AND LOCATION C W M Chemical Services, Inc. Chicago Incinerator Chicago, IL.	DRILLING METHOD: 3¼" ID HSA	BORING NO. FG-11
		SHEET 2 OF 2
	SAMPLING METHOD: 2" and 3" OD split-spoons with a 300 lb. hammer.	DRILLING START: TIME 8:15AM, DATE 10/29/91 FINISH: TIME 9:00AM, DATE 10/29/91
	WATER LEVEL / TIME / DATE / CASING DEPTH	
DATUM Chicago City ELEVATION 10.6'		
DRILL RIG BK-81	SURFACE CONDITIONS Asphalt	
ANGLE Vertical BEARING		
SAMPLE HAMMER TORQUE FT.-LBS		

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
16	96%		Fill, silt, clayey, trace sand, trace gravel, firm, moist, non-plastic, dark gray. (ML)	3" SS							
			EOB @ 16' 10/29/91. Borehole abandoned with bentonite-cement-grout 10/29/91.								
			Hydropunch II sampling device installed in adjacent borehole 11/18/91. Drilled to 9' with 3¼" ID HSA, pounded to 11' and pulled back to 10'. Sample collected 10/19/91 through 12/2/91. Borehole abandoned with bentonite-cement-grout 12/2/91.								

DRILLING CONTR WTD Environmental Drilling

SL 15...6

LOGGED BY M. McCulloch

DATE 12/29/91 CHK'D BY

SOIL BOREHOLE LOG

SITE NAME AND LOCATION

C W M Chemical Services, Inc.
Chicago Incinerator
Chicago, IL.

DRILLING METHOD: 3¼" ID HSA

SAMPLING METHOD: 2" and 3" OD split-spoon with a 300 lb. hammer.

BORING NO. FG-12

SHEET 1 OF 2

					DRILLING START	DRILLING FINISH
WATER LEVEL					TIME	TIME
TIME					3:00PM	4:30PM
DATE					DATE	DATE
CASING DEPTH					11/5/91	11/5/91

DATUM Chicago City ELEVATION 10.0'

DRILL RIG BK-81

ANGLE Vertical BEARING

SAMPLE HAMMER TORQUE FT.-LBS

SURFACE CONDITIONS: Asphalt

DRILLING CONTR WTD Environmental Drilling

SL 15516

LOGGED BY M. McCulloch DATE 11/5/91 CHK'D BY DTG

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
	13,20 17,50 67%		Fill, sand, some coarse sand to fine gravel, very dense, dry, poorly graded, brown (SP).	2" SS							
2	2,3 14,15		Fill, sand, silty, some gravel, dense, dry, poorly graded, light brown (SM).	3" SS							
4	2,3 2,2 75%		Saturated at 5' with black silty groundwater, strong chemical odor.	2" SS							
6	4,6 7,14 67%		Fill, silt, trace gravel, stiff, moist, uniform, non-plastic. Surface coated with black silty groundwater, strong odor. (ML).	3" SS							
8	1,5 5,4 50%			2" SS							
10	8,8 19,24 50%			2" SS							
12	8,10 17,25 100%			3" SS							
14			EOB @ 14' 11/5/91								

SOIL BOREHOLE LOG

SITE NAME AND LOCATION C W M Chemical Services, Inc. Chicago Incinerator Chicago, IL.	DRILLING METHOD: 3¼" ID HSA SAMPLING METHOD: 2" and 3" OD split-spoons with a 300 lb. hammer.	BORING NO. FG-12 SHEET 2 OF 2 DRILLING START / FINISH TIME 3:00PM / 4:30PM DATE 11/5/91 / 11/5/91
DATUM Chicago City ELEVATION 10.0'	WATER LEVEL / TIME / DATE / CASING DEPTH	
DRILL RIG BK-81	SURFACE CONDITIONS	
ANGLE Vertical BEARING		
SAMPLE HAMMER TORQUE FT.-LBS		

DEPTH IN FEET (ELEVATION)	BLOWS/ 6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
			Borehole abandoned with bentonite-cement-grout 11/5/91.								
			Hydropunch II sampling device installed in adjacent borehole 11/6/91. Drilled to 8' with 3¼" ID HSA, pounded to 11' and pulled back to 9'. Sample collected 11/6/91. Borehole abandoned with bentonite-cement-grout 11/6/91.								

DRILLING CONTR WTD Environmental Drilling

SL 15-16

LOGGED BY M. McColloch CHK'D BY DJ

DATE 11/5/91

SOIL BOREHOLE LOG

SITE NAME AND LOCATION C W M Chemical Services, Inc. Chicago Incinerator Chicago, IL.	DRILLING METHOD: 3¼" ID HSA	BORING NO. FG-13
		SHEET 1 OF 2
	SAMPLING METHOD: 2" and 3" OD split-spoon with a 300 lb. hammer.	DRILLING START / FINISH
	WATER LEVEL: 3'	TIME: 11:30AM / 12:30PM
	TIME: 1:30PM	DATE: 11/5/91 / 11/5/91
	DATE: 11/5/91	
	CASING DEPTH:	
DATUM Chicago City ELEVATION 9.0'		
DRILL RIG BK-81	SURFACE CONDITIONS Asphalt	
ANGLE Vertical BEARING		
SAMPLE HAMMER TORQUE FT.-LBS		

DRILLING CONTR WTD Environmental Drilling

SL 15516

LOGGED BY M. McColloch DATE 11/5/91 CHK'D BY DTW

DEPTH IN FEET (ELEVATION)	BLOWS/6" ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
2			Fill, gravel, silty, dense, dry, poorly graded, (GM).	3" SS							
4	100%		Fill, sand, medium grained, clean, poorly graded, dense, dry, brown (SP).								
6											
8											
10											
12			Fill, sand, silty, grading into silt.								
14	100%		Clay, silty, stiff, moist, moderate plasticity, light gray (CL) [Lacustrine].	3" SS							

SOIL BOREHOLE LOG

SITE NAME AND LOCATION C W M Chemical Services, Inc. Chicago Incinerator Chicago, IL.	DRILLING METHOD: 3¼" ID HSA		BORING NO. FG-13
			SHEET 2 OF 2
	SAMPLING METHOD: 2" and 3" OD split-spoons with a 300 lb. hammer.		DRILLING START: TIME 11:30AM, DATE 11/5/91 FINISH: TIME 12:30PM, DATE 11/5/91
	WATER LEVEL: 3' TIME: 1:30PM DATE: 11/5/91 CASING DEPTH:		
DATUM Chicago City ELEVATION 9.0'			
DRILL RIG BK-81	SURFACE CONDITIONS Asphalt		
ANGLE Vertical BEARING			
SAMPLE HAMMER TORQUE FT.-LBS			

DEPTH IN FEET (ELEVATION)	BLOWS/ 6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
			Clay-fill contact at 14'. EOB @ 15' 11/5/91. Borehole abandoned 11/5/91 with bentonite-cement-grout.								
			Hydropunch II sampling device installed in adjacent borehole 12/2/91. Drilled to 5' with 3¼" ID HSA, pounded to 8' and pulled back to 6'. Sample collected 12/2/91 through 12/5/91. Borehole abandoned with bentonite-cement-grout 12/5/91.								

DRILLING CONTR WTD Environmental Drilling

SL 15[illegible]0

LOGGED BY M. McCulloch CHK'D BY DTO

DATE [illegible]/91

SOIL BOREHOLE LOG

SITE NAME AND LOCATION C W M Chemical Services, Inc. Chicago Incinerator Chicago, IL.	DRILLING METHOD: 3¼" ID HSA	BORING NO. FG-14
		SHEET 1 OF 2
	SAMPLING METHOD: 2" and 3" OD split-spoon with a 300 lb. hammer.	DRILLING START: TIME 1:00PM, DATE 11/5/91 DRILLING FINISH: TIME 2:30PM, DATE 11/5/91
	WATER LEVEL / TIME / DATE / CASING DEPTH	
DATUM Chicago City ELEVATION 7.7'		
DRILL RIG BK-81	SURFACE CONDITIONS Asphalt	
ANGLE Vertical BEARING		
SAMPLE HAMMER TORQUE FT.-LBS		

DRILLING CONTR WTD Environmental Drilling

LOGGED BY M. McColloch DATE 11/5/91 CHK'D BY

SL 15516

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
2			Fill, silt, very stiff, moist, non-plastic, uniform, dark grayish brown. (ML).	3" SS							
4	83%										
6											
8											
10											
12											
14			Fill, silt, little gravel, dense, moist, non-plastic, dark grayish brown (ML). Clay-fill contact at 15' 4".	3" SS							

SOIL BOREHOLE LOG

SITE NAME AND LOCATION C W M Chemical Services, Inc. Chicago Incinerator Chicago, IL.	DRILLING METHOD: 3¼" ID HSA		BORING NO. FG-14
			SHEET 2 OF 2
	SAMPLING METHOD: 2" and 3" OD split-spoons with a 300 lb. hammer.		DRILLING START: TIME 1:00PM, DATE 11/5/91 FINISH: TIME 2:30PM, DATE 11/5/91
	WATER LEVEL / TIME / DATE		
DATUM Chicago City ELEVATION 7.7'	CASING DEPTH		
DRILL RIG BK-81	SURFACE CONDITIONS Asphalt		
ANGLE Vertical BEARING			
SAMPLE HAMMER TORQUE FT.-LBS			

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
16	100%		Clay, silty, stiff, moist, moderate plasticity, light gray (CL) [Lacustrine].	3" SS							
			EOB @ 16' 11/5/91. Borehole abandoned 11/5/91 with bentonite-cement-grout.								
			Hydropunch II sampling device installed in adjacent borehole 12/2/91. Drilled to 5' with 3¼" ID HSA, pounded to 7' and pulled back to 6'. Sample collected 12/2/91 through 12/3/91. Borehole abandoned with bentonite-cement-grout 12/5/91.								

DRILLING CONTR WTD Environmental Drilling

LOGGED BY M. McCulloch CHK'D BY

DATE 11/5/91

SL 1556

SOIL BOREHOLE LOG

SITE NAME AND LOCATION C W M Chemical Services, Inc. Chicago Incinerator Chicago, IL.	DRILLING METHOD: 3¼" ID HSA	BORING NO. FG-15
		SHEET 1 OF 2
	SAMPLING METHOD: 2" and 3" OD split-spoon with a 300 lb. hammer.	DRILLING START TIME 12:50PM; FINISH TIME 2:15PM
	WATER LEVEL / TIME / DATE / CASING DEPTH	DATE 10/29/91; DATE 10/29/91
DATUM Chicago City ELEVATION 16.0'		
DRILL RIG BK-81	SURFACE CONDITIONS	
ANGLE Vertical BEARING	Grassy with weeds	
SAMPLE HAMMER TORQUE FT.-LBS		

DRILLING CONTR _____ WTD Environmental Drilling

SL 15516

LOGGED BY M. McColloch DATE 10/29/91 CHK'D BY DTO

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
	1,2 3,2 50%		Fill, clay, silty, little gravel, little sand, stiff, moist, low plasticity, brown (CL).	2" SS							
2	4,47/2 100%		Fill, sand, some gravel, very dense, dry, poorly graded, angular gravel (bricks) (SP).	2" SS							
4	7,9 10,9 75%		Fill, silt, some gravel, little fine to medium sand, hard, slightly moist, non-plastic, dark brown (ML).	2" SS							
6	10,10 10,7 83%		Increasing gravel content with depth.	3" SS							
8	2,2 2,2 50%		Fill, gravel, some sand, some silt, loose, wet, poorly graded with fines, angular to subangular gravel (GM).	2" SS							
10	2,1 1,2 50%		Fill, silty clay, little fine sand, soft, moist, low plasticity, dark and light gray (mottled) (CL-ML).	2" SS							
12	0,0 2,5 50%		Increasing gravel content, strong chemical like odor.	2" SS							
14	3,5 7,16			2" SS							

SOIL BOREHOLE LOG

SITE NAME AND LOCATION C W M Chemical Services, Inc. Chicago Incinerator Chicago, IL.	DRILLING METHOD: 3¼" ID HSA	BORING NO. FG-15
		SHEET 2 OF 2
	SAMPLING METHOD: 2" and 3" OD split-spoons with a 300 lb. hammer.	DRILLING START / FINISH
	WATER LEVEL / TIME / DATE	TIME 12:50 PM / 2:15PM DATE 10/29/91 / 10/29/91
	CASING DEPTH	

DATUM Chicago City ELEVATION 16.0'

DRILL RIG BK-81 SURFACE CONDITIONS: Grassy with weeds.

ANGLE Vertical BEARING

SAMPLE HAMMER TORQUE FT.-LBS

DRILLING CONTR WTD Environmental Drilling

LOGGED BY M. McColloch DATE 10/29/91 CHK'D BY DRL

SL 15-6

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
16	67%		Fill, silt, clayey, some sand and gravel, very stiff, very moist, non-plastic, brown and dark gray (ML).	2" SS							
	49,22 12,7			2" SS							
18	50%		Sand and gravel seams (< ½"), saturated, strong chemical odor.	3" SS							
	7,3 4,4										
20	58%		EOB @ 20' 10/29/91. Borehole abandoned 10/29/91 with bentonite-cement-grout.								
			Hydropunch II sampling device installed in adjacent borehole 12/9/91. Drilled to 8' with 3¼" ID HSA, pounded to 11½' and pulled back to 9'. Sample collected 12/9/91. Borehole abandoned with granular bentonite 12/9/91.								

SOIL BOREHOLE LOG

SITE NAME AND LOCATION C W M Chemical Services, Inc. Chicago Incinerator Chicago, IL.	DRILLING METHOD: 3¼" ID HSA SAMPLING METHOD: 2" and 3" OD split-spoons with a 300 lb. hammer.	BORING NO. FG-16 SHEET 1 OF 2 DRILLING START / FINISH TIME 2:45PM / 4:15PM DATE 10/29/91 / 10/29/91
DATUM Chicago City ELEVATION 15.7'	WATER LEVEL / TIME / DATE / CASING DEPTH	
DRILL RIG BK-81	SURFACE CONDITIONS	
ANGLE Vertical BEARING	Grassy with weeds.	
SAMPLE HAMMER TORQUE FT.-LBS		

DRILLING CONTR _____ WTD Environmental Drilling

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
	1,2 1,2 50%		Fill, clay, silty, little gravel, moist, firm, low plasticity, brown (CL)	2" SS							
2	2,2 4,9 58%		Seams of sandy gravel < 1".	2" SS							
4	3,8 8,10 67%		Fill, sand, silty, dense, moist, poorly graded with fines, medium to coarse grained sand, subangular grains white to brown (SM).	2" SS							
6	2,10 23,20 92%		Fill, clay, silty, moist, hard, low plasticity. Contains slag, bricks, and wood, strong chemical like odor (CL).	3" SS							
8	17,7 5,7 58%		Fill, silt, some gravel, some fine sand, soft, very moist, non-plastic, dark greenish brown (ML) Strong chemical odor.	2" SS							
10	1,2 1,1 17%			2" SS							
12	0,0 3,6 42%		Contains pieces of wood.	2" SS							
14	1,3 5,4			2" SS							

LOGGED BY M. McCulloch DRILLING CONTR _____ WTD Environmental Drilling

DATE 10/29/91 CHK'D BY _____ SL 15516

SOIL BOREHOLE LOG

SITE NAME AND LOCATION

C W M Chemical Services, Inc.
Chicago Incinerator
Chicago, IL.

DRILLING METHOD: 3¼" ID HSA

BORING NO. FG-16

SHEET 2 OF 2

SAMPLING METHOD: 2" and 3" OD split-spoons with a 300 lb. hammer.

DRILLING START TIME 2:45PM DATE 10/29/91

DRILLING FINISH TIME 4:15PM DATE 10/29/91

WATER LEVEL				
TIME				
DATE				
CASING DEPTH				

DATUM Chicago City ELEVATION 15.7'

DRILL RIG BK-81

ANGLE Vertical BEARING

SAMPLE HAMMER TORQUE FT.-LBS

SURFACE CONDITIONS: Grassy with weeds.

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
	42% 3,1 2,3		Fill, silt, some sand and gravel, firm, very moist, non-plastic. Seams of sand and gravel, saturated with black silty groundwater, strong chemical odor (ML).	2" SS							
	25% 2,2 2,3			2" SS							
	50%			3" SS							
			EOB @ 20' 10/29/91. Borehole abandoned with bentonite-cement-grout 10/29/91.								
			Hydropunch II sampling device installed in adjacent borehole 12/4/91. Drilled to 6½' with 3¼" ID HSA, pounded to 11½' and pulled back to 8'. No sample collected - dry. Borehole abandoned with granular bentonite 12/10/91.								

DRILLING CONTR WTD Environmental Drilling

SL 1. 16

LOGGED BY M. McCulloch DAT 9/29/91 CHK'D BY

SOIL BOREHOLE LOG

SITE NAME AND LOCATION C W M Chemical Services, Inc. Chicago Incinerator Chicago, IL.	DRILLING METHOD: 3¼" ID HSA SAMPLING METHOD: 3" OD split-spoon with a 300 lb. hammer.	BORING NO. FG-17 SHEET 1 OF 2 DRILLING START TIME 1:45PM FINISH TIME 2:15PM
WATER LEVEL / TIME / DATE / CASING DEPTH		DATE 10/24/91 / DATE 10/24/91
DATUM Chicago City ELEVATION 11.0'		
DRILL RIG BK-81	SURFACE CONDITIONS Crushed gravel	
ANGLE Vertical BEARING		
SAMPLE HAMMER TORQUE FT.-LBS		

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
2											
4											
6	3,6 7,8 75%		Fill, clay, silty, little gravel, moist, very stiff, low plasticity, brown (CL). Bottom 8" contains wood and brick clasts saturated with black silty groundwater, with chemical like odor.	3" SS							
8											
10											
12											
14											

DRILLING CONTR WTD Environmental Drilling

SL 15516

LOGGED BY M. McColloch DATE 10/24/91 CHK'D BY DTO

SOIL BOREHOLE LOG

SITE NAME AND LOCATION C W M Chemical services, Inc. Chicago Incinerator Chicago, IL.	DRILLING METHOD: 3¼" ID HSA SAMPLING METHOD: 2" and 3" OD split-spoons with a 300 lb. hammer.	BORING NO. FG-17 SHEET 2 OF 2 DRILLING START / FINISH

WATER LEVEL		
TIME	1:45PM	2:15PM
DATE	10/24/91	10/24/91
CASING DEPTH		

DATUM Chicago City ELEVATION 11.0'

DRILL RIG BK-81 SURFACE CONDITIONS

ANGLE Vertical BEARING

SAMPLE HAMMER TORQUE FT.-LBS

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
16	1,2 2,3 75%		Fill, clay, silty, little gravel, soft, moist, low plasticity, brown (CL). Clay, silty, moist, stiff, moderate plasticity, light gray (CL) [Lacustrine].	3" SS							
18			EOB @ 17' 10/24/91. Borehole abandoned with bentonite-cement-grout 10/24/91.								
20			Hydropunch II sampling device installed in adjacent borehole 11/19/91. Drilled to 8' with 3¼" ID HSA, pounded to 12' and pulled back to 9'. Sample collected 11/19/91 through 12/2/91. Borehole abandoned with bentonite-cement-grout 12/2/91.								

DRILLING CONTR WTD Environmental Drilling

LOGGED BY M. McColloch DATE 10/24/91 CHK'D BY DTD

SL 1. 16

SOIL BOREHOLE LOG

SITE NAME AND LOCATION C W M Chemical Services, Inc. Chicago Incinerator Chicago, IL.	DRILLING METHOD: 4¼" ID HSA	BORING NO. D-2X
		SHEET 1 OF 2
	SAMPLING METHOD: 2" OD split-spoon with a 300 lb. hammer.	DRILLING

					START	FINISH
WATER LEVEL	9.4'	11.9'			TIME	TIME
TIME					1:00PM	3:00PM
DATE					DATE	DATE
CASING DEPTH	10'	15'			10/18/91	10/18/91

DATUM Chicago City ELEVATION 9.4'

DRILL RIG D-50

ANGLE Vertical BEARING

SAMPLE HAMMER TORQUE FT.-LBS

SURFACE CONDITIONS: Parking lot island

DEPTH IN FEET (ELEVATION)	BLOWS/ 6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
	2,3 4,4 50%		Fill, clay, silty, stiff, medium plasticity, dark brown. Contains plant roots and gravel size brick clasts (CL).	2" SS							
2	4,5 5,6 83%		Fill, silt, some fine sand, trace gravel, very stiff, slightly moist, non-plastic, brown. Contains brick clasts. (ML).	2" SS							
4	3,3 2,2 58%		Fill, sand, silty, trace gravel, medium dense, wet, poorly graded, brown. Contains brick clasts (SM).	2" SS							
6	3,2 2,2 67%		Fill, silt, sandy (ML)	2" SS							
8	1,2 1,1 67%		Fill, sand, silty (SM)	2" SS							
10	1,2 1,1 58%			2" SS							
12	1,4 3,3 58%		Contains pieces of wood.	2" SS							
14	1,2 1,3		Clay fill contact at 15'.	2" SS							

DRILLING CONTR WTD Environmental Drilling

SL 15516

LOGGED BY M. McColloch

DATE 10/18/91 CHK'D BY DTO

SOIL BOREHOLE LOG

SITE NAME AND LOCATION	DRILLING METHOD:					BORING NO.
C W M Chemical Services, Inc. Chicago Incinerator Chicago, IL.	4¼" ID HSA					D-2X
						SHEET 2 OF 2
	SAMPLING METHOD:					DRILLING
	2" OD split-spoon with a 300 lb. hammer.					START / FINISH
	WATER LEVEL	9.4'	11.9'			TIME
	TIME					1:00PM / 3:00PM
	DATE					DATE
DATUM Chicago City ELEVATION 9.4'	CASING DEPTH	10'	15'			10/18/91 / 10/18/91
DRILL RIG D-50	SURFACE CONDITIONS					
ANGLE Vertical BEARING	Parking lot island					
SAMPLE HAMMER TORQUE FT.-LBS						

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
15	83%		Clay, silty, soft, moist, high plasticity, uniform, grayish brown. Lacustrine (CL)	2" SS							
			EOB @ 16' 10/18/91. Borehole abandoned with bentonite-cement-grout 10/18/91.								

Note: Boring D-2X was drilled adjacent to D-2 for description of fill material.

DRILLING CONTR WTD Environmental Drilling

LOGGED BY M. McColloch DATE 10/18/91 CHK'D BY DTO

SOIL BOREHOLE LOG

TE NAME AND LOCATION

C W M Chemical Services, Inc.
Chicago Incinerator
Chicago, IL

DRILLING METHOD: Mud rotary
9 7/8" tricone roller bit
0 to 20.5'
SAMPLING METHOD: 2", 2 1/2", and 3"
OD split spoons. 300 lb.
hammer

BORING NO. C-1
SHEET 1 OF 6

	DRILLING START	DRILLING FINISH
WATER LEVEL		
TIME	12:30PM	4:30PM
DATE	10/5/91	10/7/91
CASING DEPTH		

DATUM Chicago City ELEVATION 14.6'
DRILL RIG BK-81
ANGLE Vertical BEARING
SAMPLE HAMMER TORQUE FT.-LBS
SURFACE CONDITIONS: Scrub grass and weeds growing on soft fill.

DEPTH IN FEET (ELEVATION)	BLOWS/ 6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
2			No samples collected from 0-16'. See boring log for G-317 for description of fill material.								
4											
6											
8											
10											
12			[9 7/8" mud rotary to 20.5'. Set 8" casing to 23' on 10/5/91. Wood plug removed 10/6/91, drilled to 25' with 4" OD SSA, and began sampling.]								
14											

DRILLING CONTR WTD Environmental Drilling

SL 15504

LOGGED BY Dave Trainor CHK'D BY EJS

DATE 10/5/91

Printed on recycled paper.

SOIL BOREHOLE LOG

NAME AND LOCATION

C W M Chemical Services, Inc.
Chicago Incinerator
Chicago, IL

DRILLING METHOD: Mud rotary 9 7/8" tricone roller bit 0 to 20.5'. 4" OD SSA 20.5 to 65'.

SAMPLING METHOD: 2", 2 1/2", and 3" OD split spoons with a 300 lb. hammer

BORING NO. C-1

SHEET 2 OF 6

					DRILLING START	DRILLING FINISH
WATER LEVEL					TIME	TIME
TIME					12:30PM	4:30PM
DATE					DATE	DATE
CASING DEPTH					10/5/91	10/7/91

DATUM Chicago City ELEVATION 14.6'

DRILL RIG BK-81

ANGLE Vertical BEARING

SAMPLE HAMMER TORQUE FT.-LBS

SURFACE CONDITIONS: Scrub grass and weeds growing on soft fill.

DRILLING CONTR WTD Environmental Drilling

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
16	12,5 6,11 67%		Fill, gravel, clayey, loose to medium dense, moist to wet, low plasticity fines, rounded fragments, red to black, sulfide odor. [Fill] (GC)	2" SS							
18	8,8 2,2 0%			2" SS							
20	4,4 3,4 100%		Clay fill contact at 20.5' Clay, silty, firm, very moist, medium plasticity, uniform, light gray. Contains some plant roots. (CL) [Lacustrine]	2" SS							
22											
24											
26	6,7 10,13 100%		Clay, silty, trace fine gravel, hard, moist, medium plasticity, uniform, light gray (CL) [Lacustrine]	3" SS			19.2				
28	83%			ST				33	21		G.S.=4/13/33/50
	5,15 9,12			2 1/2" SS							

LOGGED BY D. Trainor/M. McCulloch DRILLING CONTR WTD Environmental Drilling

L. 10/5/91 CHK'D BY DT

SL 305

Printed on recycled paper

SOIL BOREHOLE LOG

SITE NAME AND LOCATION

CWM Chemical Services, Inc.
Chicago Incinerator
Chicago, IL

DRILLING METHOD: 4" OD SSA

SAMPLING METHOD: 2", 2½", and 3" OD split spoon with 300 lb. hammer.

BORING NO. C-1

SHEET 3 OF 6

	DRILLING START	DRILLING FINISH
WATER LEVEL		
TIME	12:30PM	4:30PM
DATE	10/5/91	10/7/91

DATUM Chicago City ELEVATION 14.6'

DRILL RIG BK-81

ANGLE Vertical BEARING

SAMPLE HAMMER TORQUE FT.-LBS

SURFACE CONDITIONS: Scrub grass and weeds growing on soft fill.

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
32	100% 8,11 13,17 100%		Clay, silty, trace gravel, hard, moist, medium plasticity, uniform, light gray (CL) [Lacustrine].	2½" SS 2½" SS			20.6	36	18		G.S.=4/9/87
34	WOH,1 6,8 100%			2" SS							
36	5,7 8,11 100%			3" SS							
38	100%		Fine silty sand in tip of shelby tube.	ST			13.7	21	2		G.S.=2/29/57/12
40	10,15 17,21 100%		Silt, little fine sand, little clay, hard, slightly moist, low plasticity, grayish brown. (ML). [Lacustrine]	2½" SS							
42	8,12 19,27 92%		2" clayey gravel seam at 41½'	2" SS							
44	18,17 22,35 100%		Clay, silty, little fine to coarse sand, trace fine gravel, rounded fine to medium sand, angular to subangular coarse sand and fine gravel, hard, slightly moist, low plasticity, grayish brown. (CL) [Glacial Till]	3" SS							

DRILLING CONTR WTD Environmental Drilling

SL 15507

LOGGED BY M. McColloch DATE 10/6/91 CHK'D BY DTJ

Printed on recycled paper

SOIL BOREHOLE LOG

SITE NAME AND LOCATION	DRILLING METHOD:	BORING NO.
C W M Chemical Services, Inc. Chicago Incinerator Chicago, IL	4" OD SSA	C-1
		SHEET 4 OF 6
	SAMPLING METHOD: 2", 2½", and 3" OD split spoon with 300 lb. hammer.	DRILLING START TIME 12:30PM DATE 10/5/91
	WATER LEVEL / TIME / DATE / CASING DEPTH	FINISH TIME 4:30PM DATE 10/7/91
DATUM Chicago City ELEVATION 14.6'		
DRILL RIG BK-81	SURFACE CONDITIONS	
ANGLE Vertical BEARING	Scrub grass and weeds growing on soft fill.	
SAMPLE HAMMER TORQUE FT.-LBS		

DEPTH IN FEET (ELEVATION)	BLOWS/ 6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
46	17,22 37,41 96%		Clay, silty, little fine to coarse sand, trace fine gravel, rounded fine to medium sand, angular to subangular coarse sand and fine gravel, hard, slightly moist, low plasticity, grayish brown. (CL) [Glacial Till]	2½" SS			11.5	23	7		G.S.=5/28/67
48	17,20 39,46 83%		Clayey gravelly sand seam at 48' 10" thick (SC).	2" SS							
50	13,27 38,51 92%			3" SS							
52	16,20 30,47 92%			2½" SS							
54	17,38 61,57 96%		Becoming harder with depth.	2" SS			11.7	24	9		G.S.=1/25/74
56	17,41 75,89 92%			2½" SS							
58	33,42 76 100/6" 50%			2" SS							G.S.=2/25/73
	12,15 22,21		Silt, some fine sand, trace coarse sand, fine gravel, hard, moist, non-plastic, grayish brown (ML)	3" SS			17.9	17	0		

DRILLING CONTR WTD Environmental Drilling

SL -5509

LOGGED BY M. McColloch DATE 10/6/91 CHK'D BY DTJ

SOIL BOREHOLE LOG

SITE NAME AND LOCATION

C W M Chemical Services, Inc.
Chicago Incinerator
Chicago, IL

DRILLING METHOD: 4" OD SSA to 65'
Mud rotary 6" tricone to 71'
Mud rotary 4" tricone 71 to 75'
SAMPLING METHOD: 2", 2½", and 3"
OD split spoons with 300 lb. hammer.

BORING NO. C-1
SHEET 5 OF 6

WATER LEVEL				
TIME				
DATE				
CASING DEPTH				

DRILLING START: TIME 12:30PM, DATE 10/5/91
DRILLING FINISH: TIME 4:30PM, DATE 10/7/91

DATUM Chicago City ELEVATION 14.6'

DRILL RIG BK-81
ANGLE Vertical BEARING
SAMPLE HAMMER TORQUE FT.-LBS

SURFACE CONDITIONS: Scrub grass and weeds growing on soft fill.

DRILLING CONTR WTD Environmental Drilling

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPCIFIC GRAVITY	OTHER TESTS
	100%		Silt, some fine sand, trace coarse sand to fine gravel, hard, moist, non-plastic, grayish brown (ML).	3" SS			17.9	17	0		G.S.= 2/25/76
62	11,20 25,30 58%		Clay, silty, little fine to coarse sand, trace gravel, rounded fine to medium sand grains, angular to subangular coarse sand and fine gravel, hard, slightly moist, low plasticity, grayish brown (CL) [Glacial Till].	2½" SS							
64	17,24 27,39 67%			2" SS							
66	11,20 31,34 75%			3" SS							
68	13,21 27,32 58%			2½" SS							
70	5,10 19,25 75%			2" SS			12.9	31	14		G.S.=6/18/76
72	24,35 100/3" 67%			3" SS							
74			No sample from 73-75' Resumed sampling at 75. Bedrock encountered at 75' 3".								

LOGGED BY M. McColloch
DATE 10/6/91
CHK'D BY DT

SL 15510

Printed on recycled paper

SOIL BOREHOLE LOG

SITE NAME AND LOCATION	DRILLING METHOD: Mud rotary 6" to 71', 4" to 75'.	BORING NO. C-1
U.S. Chemical Services, Inc. Chicago Incinerator Chicago, IL	SAMPLING METHOD: 10' NX Core barrel, clear water	SHEET 6 OF 6
	WATER LEVEL / TIME / DATE / CASING DEPTH	DRILLING START: TIME 12:30PM, DATE 10/5/91 — FINISH: TIME 4:30PM, DATE 10/7/91
DATUM Chicago City ELEVATION 14.6'		
DRILL RIG BK-81	SURFACE CONDITIONS	
ANGLE Vertical BEARING	Scrub grass and weeds growing on soft fill.	
SAMPLE HAMMER TORQUE FT.-LBS		

DRILLING CONTR. WTD Environmental Drilling

LOGGED BY M. McColloch DATE 10/17/91 CHK'D BY DTG

SL 5511

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPCIFIC GRAVITY	OTHER TESTS
76	100%		SS refusal at 75' 3".	3" SS							
78			Dolomite, argillaceous, light to greenish gray, soft, massive bedding, overall fresh rock, slightly weathered towards top, fine grained texture. Core recovered in lengths between 9" and 2", average of 6". 90% of recovered core are in lengths greater than 4". Overall fractures are horizontal fresh breaks (mechanical). [Racine formation]								
80			Recovery: 76.25" / 120.0" = 63.5%								
82			RQD: 71" total > 4" 71" / 120" = 59.2%								
84											
86			EOB @ 85' 10-7-91 Abandoned borehole with bentonite cement grout 10-7-91.								

Printed on recycled paper

SOIL BOREHOLE LOG

SITE NAME AND LOCATION

NM Chemical Services, Inc
Chicago Incinerator
Chicago, IL

DRILLING METHOD: Mud rotary 9 7/8" tricone roller bit 0-16'

SAMPLING METHOD: 2", 2½", and 3" OD split spoon with 300 lb. hammer.

BORING NO. C-2

SHEET 1 OF 4

					DRILLING START	DRILLING FINISH
WATER LEVEL					TIME	TIME
TIME					4:00PM	9:00AM
DATE					DATE	DATE
CASING DEPTH					10/1/91	10/5/91

DATUM Chicago City ELEVATION 9.7

DRILL RIG BK-81

ANGLE Vertical BEARING

SAMPLE HAMMER TORQUE FT.-LBS

SURFACE CONDITIONS: Crushed gravel

DRILLING CONTR WTD Environmental Drilling

SL 15512

LOGGED BY D. Trainor

DATE 10/1/91 CHK'D BY DTD

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
0			No samples collected from 0-20'. See boring log P-322 for description of fill material.								
2											
4											
6											
8											
10											
12											
14			Clay-fill contact at 15'.								

Printed on recycled paper

SOIL BOREHOLE LOG

NAME AND LOCATION

C W M Chemical Services, Inc.
Chicago Incinerator
Chicago, IL.

DRILLING METHOD: Mud rotary 9 7/8" tricone roller bit 0-16'. 3¼" ID HSA 16 to 50'.

SAMPLING METHOD: 2", 2½", and 3" OD split spoon with 300 lb. hammer.

BORING NO. C-2

SHEET 2 OF 4

					DRILLING START TIME	DRILLING FINISH TIME
WATER LEVEL						
TIME					4:00PM	9:00AM
DATE					DATE 10/1/91	DATE 10/5/91
CASING DEPTH						

DATUM Chicago City ELEVATION 9.7

DRILL RIG BK-81

ANGLE Vertical BEARING

SAMPLE HAMMER TORQUE FT.-LBS

SURFACE CONDITIONS: Crushed gravel

DRILLING CONTR WTD Environmental Drilling

SL 1 j13

LOGGED BY M. McCulloch DATE 10/2/91 CHK'D BY DTS

DEPTH IN FEET (ELEVATION)	BLOWS/ 6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
16			[9 7/8" Mud rotary to 16'. Set 8" casing set to 18' on 10/1/91. Wood plug removed 10/2/91, augered to 20' with 3¼" ID HSA. Began sampling at 20'.]								
18											
20	5,5 6,9 100%		Clay, silty, stiff, moist, medium plasticity, uniform, gray (CL) [Lacustrine]	3" SS							
22	10,12 18,23 100%			3" SS							
24	25,25 27,25 100%		Becoming siltier with depth, hard	3" SS							
26	100%		Silt, clayey, stiff, moist, non-plastic to low plasticity, grayish brown. Varves present (ML). [Lacustrine]	ST			26.3	24	2		G.S.=0/0/100
28	4,4 5,4 83%			2" SS			24	26	3		G.S.=0/0/83/17

Printed on recycled paper

SOIL BOREHOLE LOG

SITE NAME AND LOCATION

M Chemical Services, Inc.
Chicago Incinerator
Chicago, IL.

DRILLING METHOD: 3¼" ID HSA 16 to 50'

SAMPLING METHOD: 2", 2½", and 3" OD split spoons with 300 lb. hammer.

BORING NO. C-2

SHEET 3 OF 4

	DRILLING START	DRILLING FINISH
WATER LEVEL TIME	4:00PM	9:00AM
DATE	10/1/91	10/5/91

DATUM Chicago City ELEVATION 9.7

DRILL RIG BK-81

ANGLE Vertical BEARING

SAMPLE HAMMER TORQUE FT.-LBS

SURFACE CONDITIONS: Crushed gravel

DRILLING CONTR WTD Environmental Drilling

SL 15514

LOGGED BY M. McColloch

DATE 10/2/91

CHK'D BY DTN

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPCIFIC GRAVITY	OTHER TESTS
32	4,5 4,4 83%		Sand, silty, medium dense, moist, medium to coarse grained, poorly graded, dark gray (SM) [Lacustrine]	3" SS			11.5				G.S.=0/85/15
	5,8 10,12 88%			3" SS							
34	5,12 14,18 75%		Clay, silty, trace fine gravel, little coarse sand, little fine to medium sand, hard, slightly moist, low plasticity, grayish brown (CL) [Lacustrine]	2½" SS			10.7	23	8		G.S.=2/37/61
36	7,7 12,19 83%			2" SS							
38	8,10 12,13 92%			3" SS							
40	10,12 15,21 92%		1" sand and gravel seam at 40½'	2½" SS							
42	11,12 15,23 92%		Silty clay, some fine to coarse sand, rounded fine to medium sand grains, sub-angular to angular coarse sand grains, hard, slightly moist, low plasticity, grayish brown (CL-ML) [Glacial Till]	2" SS			11.5	23	6		G.S.=0/31/69
44	5,11 15,22			3" SS							

SOIL BOREHOLE LOG

SITE NAME AND LOCATION

WM Chemical Services, Inc.
Chicago Incinerator
Chicago, IL.

DRILLING METHOD: 3'4" ID HSA 16 to 50'

SAMPLING METHOD: 2", 2½", and 3" OD split spoons with 300 lb. hammer.

BORING NO. C-2

SHEET 4 OF 4

					DRILLING START	DRILLING FINISH
WATER LEVEL						
TIME					4:00PM	9:00AM
DATE					10/1/91	10/5/91
CASING DEPTH						

DATUM Chicago City ELEVATION 9.7

DRILL RIG BK-81

ANGLE Vertical BEARING

SAMPLE HAMMER TORQUE FT.-LBS

SURFACE CONDITIONS: Crushed gravel

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
46	92% 7,14 15,27 79%		Silty clay, some fine to coarse sand, rounded fine to medium sand grains, angular to subangular coarse sand grains, hard, slightly moist, low plasticity, grayish brown (CL-ML)[Glacial Till]	3" SS 2½" SS			11.5	23	6		G.S.=0/31/69
48											
50	7,20 27,35 54%		Sand, silty, dense, slightly moist, fine to coarse grained sand, poorly graded, dark gray (SC-SM).	2" SS			7.4				G.S.=8/68/24
52			EOB @ 50' 10-2-91 Borehole abandoned with bentonite cement grout 10-5-91.								

DRILLING CONTR WTD Environmental Drilling

SL 15515

LOGGED BY M. McCulloch

DATE 10/2/91 CHK'D BY DTH

SOIL BOREHOLE LOG

SITE NAME AND LOCATION IM Chemical Services, Inc. Chicago Incinerator Chicago, IL.	DRILLING METHOD: Mud rotary 9 7/8" tricone roller bit 0-16'. SAMPLING METHOD: 2", 2½", and 3" OD split spoons with a 300 lb. hammer.	BORING NO. C-2R SHEET 1 OF 4

WATER LEVEL		DRILLING START TIME: 2:15PM
TIME		FINISH TIME: 1:00PM
DATE		START DATE: 11/6/91
CASING DEPTH		FINISH DATE: 11/11/91

DATUM Chicago City ELEVATION 9.5

DRILL RIG BK-81 SURFACE CONDITIONS

ANGLE Vertical BEARING Crushed gravel

SAMPLE HAMMER TORQUE FT.-LBS

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
2			No samples collected from 0 to 20'. See boring log P-322 for description of fill material.								
4											
6											
8											
10											
12											
14			Clay-fill contact 15'								

DRILLING CONTR WID Environmental Drilling

LOGGED BY M. McColloch DATE 11/6/91 CHK'D BY DTG

SL 15551

printed on recycled paper

SOIL BOREHOLE LOG

NAME AND LOCATION

C W M Chemical Services, Inc.
Chicago Incinerator
Chicago, IL.

DRILLING METHOD: Mud rotary 9 7/8" tricone roller bit 0-16'. 4" OD SSA 16 to 60'

SAMPLING METHOD: 2", 2½", and 3" OD split spoons with a 300 lb. hammer.

BORING NO. C-2R

SHEET 2 OF 4

					DRILLING START	DRILLING FINISH
WATER LEVEL					TIME	TIME
TIME					2:15PM	1:00PM
DATE					DATE	DATE
CASING DEPTH					11/6/91	11/11/91

DATUM Chicago City ELEVATION 9.5

DRILL RIG BK-81

ANGLE Vertical BEARING

SAMPLE HAMMER TORQUE FT.-LBS

SURFACE CONDITIONS: Crushed gravel

DRILLING CONTR. WTD Environmental Drilling

LOGGED BY M. McColloch

DATE 11-7-91 CHK'D BY DJ

SL 5553

DEPTH IN FEET (ELEVATION)	BLOWS/ 6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPCIFIC GRAVITY	OTHER TESTS
16			[9 7/8" Mud rotary to 15. 8" casing set to 18' on 11-6-91. Wood plug removed 11-7-91, augered to 20' with 4" OD SSA, and began sampling at 20']								
18											
20	4,5 7,7 75%		Clay, silty, very stiff, moist, moderate placticity, uniform, light gray. (CL) [Lacustrine]	3" SS							
22	100%			ST			20.5	37	19		G.S.=0/9/31/60
24	4,14 19,25 83%		Becoming siltier with depth.	3" SS							
26	7,9 11,12 50%		Silt, clayey, little coarse sand to fine gravel, hard, moist, non-plastic, uniform, grayish brown. (ML) [Lacustrine]	2½" SS							
28	6,9 12,16 75%			2" SS							

Printed on recycled paper

SOIL BOREHOLE LOG

E NAME AND LOCATION

WM Chemical Services, Inc.
Chicago Incinerator
Chicago, IL.

DRILLING METHOD: 4" OD SSA

SAMPLING METHOD: 2", 2½", and 3" OD split spoons with a 300 lb. hammer.

BORING NO. C-2R

SHEET 3 OF 4

	DRILLING START	DRILLING FINISH
WATER LEVEL		
TIME	TIME 2:15PM	TIME 1:00PM
DATE	DATE 11/6/91	DATE 11/11/91
CASING DEPTH		

DATUM Chicago City ELEVATION 9.5

DRILL RIG BK-81

ANGLE Vertical BEARING

SAMPLE HAMMER TORQUE FT.-LBS

SURFACE CONDITIONS: Crushed gravel

DRILLING CONTR WTD Environment Drilling

SL 15554

LOGGED BY M. McColloch

DATE 11/11/91 CHK'D BY DTA

DEPTH IN FEET (ELEVATION)	BLOWS/ 6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
-32	4,6 11,12 83%		Silt, hard, wet, non-plastic, uniform, dark grayish brown. (ML) [Lacustrine]	3" SS				22.2			G.S.=1/3/96 30.5-31
	0%		Sand, silty, medium to coarse grained, dense, wet, dark brown (SP-SM).	3" SS				12.1			G.S.=1/86/10 31.5-32
34	9,27 34,25 50%		Clay, silty, little fine gravel, little fine to medium grained sand, rounded fine to medium sand grains, angular to subangular coarse sand and fine gravel, hard, moist, low plasticity, grayish brown. (CL) [Glacial Till]	3" SS							
36	10,12 17,24 50%			2½" SS							
38	12,16 20,28 58%			2" SS				10.4	24	7	G.S.=16/53/31 (44-46)
40			10" of medium to coarse sand and gravel (SP-SM). 40-42 G.S. =31/58/11								
	8,11 17,18 75%		3" of medium to coarse sand and gravel (SP-SM).	3" SS							
42			Silty clay 42-44 G.S.=25/67/8								
	1,5 8,11 58%		3" of medium to coarse sand (SP-SM).	2½" SS				12.4	23	8	G.S.=2/26/72
			Silty clay, little coarse sand to fine gravel, hard, moist, low plasticity, grayish brown. (CL-ML) [Glacial Till]								
44	16,18 27,35			2" SS							

Printed on recycled paper

SOIL BOREHOLE LOG

SITE NAME AND LOCATION	DRILLING METHOD:	BORING NO.
M Chemical Services, Inc. Chicago Incinerator Chicago, IL.	4" OD SSA	C-2R
	SAMPLING METHOD: 2", 2½", and 3" OD split spoons with a 300 lb. hammer.	SHEET 4 OF 4

					DRILLING START	DRILLING FINISH
WATER LEVEL					TIME	TIME
TIME					2:15PM	1:00PM
DATE					DATE	DATE
CASING DEPTH					11/6/91	11/11/91

DATUM Chicago City ELEVATION 9.5

DRILL RIG BK-81

ANGLE Vertical BEARING

SAMPLE HAMMER TORQUE FT.-LBS

SURFACE CONDITIONS: Crushed gravel

DEPTH IN FEET (ELEVATION)	BLOWS/ 6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPCIFIC GRAVITY	OTHER TESTS
	67%			2" SS			12.4	23	8		G.S.=2/26/72
46	11,17 27,73 75%		Silty clay, little fine gravel, little fine to coarse sand, rounded fine to medium sand grains, angular to subangular coarse sand and fine gravel, hard, slightly moist, low plasticity, grayish brown. (CL-ML)	3" SS							
48	14,15 18,69 83%			2½" SS							
50	22,40 52,64 75%		Sand, silty, very dense, wet, fine to medium grained, poorly graded, dark grayish brown (SM-SC).	2" SS							G.S.=0/70/30 50-52
52	22,37 52,64 83%			2" SS			8.7	25	9		G.S.=4/30/66 52-54
54	13,17 24,90 83%		Silt, clayey, little fine gravel, hard, moist, low plasticity to non-plastic, grayish brown (ML). [Glacial Till]	3" SS							
56											
58	16,21 27,32 92%		EOB @ 60' 11-11-91. Set temporary piezometer C-2RPD in borehole 11-12-91.	3" SS			21.3				G.S.=1/11/88

DRILLING CONTR WTD Environmental Drilling

SI 15557

LOGGED BY M. McColloch

DATE 11/11/91 CHK'D BY DD

Printed on recycled paper

SOIL BOREHOLE LOG

SITE NAME AND LOCATION

M Chemical Services, Inc.
Chicago Incinerator
Chicago, IL.

DRILLING METHOD: Mud rotary 9 7/8" tricone roller bit 0-13'. 3¼" ID HSA 13 to 55'

SAMPLING METHOD: 2", 2½", and 3" OD split spoons with a 300 lb. hammer.

BORING NO. C-3

SHEET 1 OF 4

					DRILLING START	DRILLING FINISH
WATER LEVEL						
TIME					9:00AM	7:00PM
DATE					DATE 10/3/91	DATE 10/5/91
CASING DEPTH						

DATUM Chicago City ELEVATION 9.3

DRILL RIG BK-81

ANGLE Vertical BEARING

SAMPLE HAMMER TORQUE FT.-LBS

SURFACE CONDITIONS: Crushed gravel

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
2			No samples collected from 0-18'. See boring log P-323 for description of fill material.								
4											
6											
8			[Mud rotary 9 7/8" bit to 13'. Set 8" casing to 15' with BK-81 drill rig 10/3/91. Wood plug removed with D-50 drill rig on 10/5/91. Augered to 18' and began sampling]								
10											
12											
14			Clay-fill contact at 13'								

DRILLING CONTR WTD Environmental Drilling

SL 15517

LOGGED BY M. McCulloch DATE 10/3/91 CHK'D BY DH

Printed on recycled paper

SOIL BOREHOLE LOG

SITE NAME AND LOCATION: NM Chemical Services, Inc. Chicago Incinerator Chicago, IL.	DRILLING METHOD: 3¼" ID HSA	BORING NO. C-3
	SAMPLING METHOD: 2", 2½", and 3" OD split spoon with a 300 lb. hammer.	SHEET 2 OF 4
		DRILLING START TIME 9:00AM / FINISH TIME 7:00PM
	WATER LEVEL / TIME / DATE / CASING DEPTH	DRILLING START DATE 10/3/91 / FINISH DATE 10/5/91
DATUM Chicago City ELEVATION 9.3		
DRILL RIG D-50	SURFACE CONDITIONS	
ANGLE Vertical BEARING	Crushed gravel	
SAMPLE HAMMER TORQUE FT.-LBS		

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPCIFIC GRAVITY	OTHER TESTS
16											
18	14,15 19,21 0%			3" SS							
20	14,35 38,47 42%		Clay, silty, trace sand and gravel, very stiff to hard, moist, medium plasticity, uniform, gray (CL). [Lacustrine]	3" SS							
22	10,12 17,25 100%			3" SS							
24	100%			ST			19.5	37	18		G.S.=0/11/27/62
26	15,34 57,64 83%		Increasing gravel content.	2" SS							
28	9,16 25,40 100%		Clay, silty, little gravel, little sand, rounded fine to medium sand, angular to subangular coarse sand and gravel, hard, slightly moist, low plasticity, grayish brown (CL) [Lacustrine].	3" SS							

LOGGED BY M. McCulloch DRILLING CONTR WTD Environmental Drilling

DATE 10/5/91 CHK'D BY DTD SL 3519

Printed on recycled paper

SOIL BOREHOLE LOG

SITE NAME AND LOCATION: M Chemical Services, Inc. Chicago Incinerator Chicago, IL.	DRILLING METHOD: 3¼" ID HSA	BORING NO. C-3
	SAMPLING METHOD: 2", 2½", and 3" OD split spoons with a 300 lb hammer.	SHEET 3 OF 4
		DRILLING START / FINISH
	WATER LEVEL / TIME / DATE / CASING DEPTH	TIME 9:00AM / DATE 10/3/91 — TIME 7:00PM / DATE 10/5/91
DATUM Chicago City ELEVATION 9.3		
DRILL RIG D-50	SURFACE CONDITIONS: Crushed gravel	
ANGLE Vertical BEARING		
SAMPLE HAMMER TORQUE FT.-LBS		

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
32	10,17 25,30 100%		Silt, clayey, hard, moist, non-plastic, uniform, dark grayish brown (ML). [Lacustrine]	2½" SS			20.2	22	1		
	11,14 26,42 92%		Sand, silty, very dense, moist, poorly graded, fine to medium grained, dark gray (SM-SC).	2" SS			13.0				
34	3,5 13,20 100%		Varves at 35½' (1-2mm thick).	3" SS							
36	11,22 40,55 100%		Becoming sandier	2½" SS			13.2	22	3		
38	4,8 10,15 75%			2" SS							
40	2,2 12,22 67%		Sand, trace fine gravel, trace silt, trace clay, medium dense, wet, poorly graded, medium to coarse grained, angular grains, dark grayish brown (SM).	3" SS			15.5				
42	11,17 17,20 100%			2½" SS							
44	4,7 12,20		Silty clay, trace fine gravel, some sand, fine to coarse sand, rounded fine to medium sand, angular to subangular coarse sand and gravel, hard, slightly moist, low plasticity grayish brown (CL-ML) [Glacial Till]	2" SS			11.7	23	7		

G.S.=2/29/69 G.S.=5/79/16 G.S.=2/25/73 G.S.=6/71/23 G.S.=0/8/92

DRILLING CONTR _____ WTD Environmental Drilling

LOGGED BY M. McCulloch DATE 10/5/91 CHK'D BY DM

SL 15320

Printed on recycled paper

SOIL BOREHOLE LOG

NAME AND LOCATION

C W M Chemical Services, Inc.
Chicago Incinerator
Chicago, IL.

DRILLING METHOD: 3¼" ID HSA

SAMPLING METHOD: 2", 2½", and 3" OD split spoons with a 300 lb. hammer.

BORING NO. C-3

SHEET 4 OF 4

					DRILLING START	DRILLING FINISH
WATER LEVEL						
TIME					9:00AM	7:00PM
DATE					10/3/91	10/5/91
CASING DEPTH						

DATUM Chicago City ELEVATION 9.3

DRILL RIG D-50

ANGLE Vertical BEARING

SAMPLE HAMMER TORQUE FT.-LBS

SURFACE CONDITIONS: Crushed gravel

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
46	67% 5,9 11,30 58%		Silty clay, some sand, trace fine gravel, fine to coarse sand, rounded fine to medium sand, angular to subangular coarse sand to fine gravel, hard, slightly moist, low plasticity, grayish brown (CL-ML). [Glacial Till]	2" SS 3" SS			11.7	23	7		G.S.=2/29/69
48	8,12 30,35 58%		Clay, silty, trace fine gravel, some fine to coarse sand, rounded fine to medium sand, angular to subangular coarse sand and fine gravel, hard, slightly moist, low plasticity, grayish brown (CL) [Glacial Till].	2½" SS							
50	6,10 15,15 58%			2" SS			12.6	24	8		G.S.=1/26/43/30
52	5,23 47,82 67%			3" SS							
54											
56			EOB @ 55' 10-5-91. Set temporary piezometer C-3PD in adjacent borehole 10/9/91.								

DRILLING CONTR. WD Environmental Drilling

SL 5522

LOGGED BY M. McCulloch

DATE 10/5/91 CHK'D BY DR

SOIL BOREHOLE LOG

SITE NAME AND LOCATION WM Chemical Services, Inc. Chicago Incinerator Chicago, IL.	DRILLING METHOD: Mud rotary 9 7/8" tricone roller bit 0 to 17'. SAMPLING METHOD: 2", 2½", and 3" OD split spoons with a 300 lb. hammer.	BORING NO. C-4 SHEET 1 OF 6

WATER LEVEL		
TIME	12:00PM	4:00PM
DATE	9/24/91	9/26/91
CASING DEPTH		

DRILLING START TIME / FINISH TIME

DATUM Chicago City ELEVATION 9.9

DRILL RIG BK-81 SURFACE CONDITIONS

ANGLE Vertical BEARING Grassy, gentle slope

SAMPLE HAMMER TORQUE FT.-LBS

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPCIFIC GRAVITY	OTHER TESTS
2			No samples collected from 0-20'. See boring log G-330 or P-329 for description of fill material.								
4											
6											
8											
10											
12											
14											

DRILLING CONTR WID Environmental Drilling

LOGGED BY M. McCulloch CHK'D BY DF DATE 9/24/91

SL 15523

© printed on recycled paper

SOIL BOREHOLE LOG

SITE NAME AND LOCATION IM Chemical Services, Inc. Chicago Incinerator Chicago, IL.	DRILLING METHOD: Mud rotary 9 7/8" tricone rollerbit 0-17'. 4" OD SSA 17 to 58. SAMPLING METHOD: 2", 2½", and 3" OD split spoons with a 300 lb. hammer.	BORING NO. C-4 SHEET 2 OF 6
DATUM Chicago City ELEVATION 9.9	WATER LEVEL / TIME / DATE / CASING DEPTH	DRILLING START TIME 12:00PM DATE 9/24/91; FINISH TIME 4:00PM DATE 9/26/91
DRILL RIG BK-81	SURFACE CONDITIONS	
ANGLE Vertical BEARING	Grassy, gentle slope	
SAMPLE HAMMER TORQUE FT.-LBS		

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
16			Clay-fill contact 16-17'								
18			[9 7/8" mud rotary to 17'. Set 8" casing to 20' on 9/24/91. Wood plug removed 9/25/91, drilled down to 20, and began sampling]								
20	4,6 10,12 100%		Clay, silty, very stiff, moist, medium plasticity, uniform, gray with reddish brown mottling. (CL) [Lacustrine]	2" SS							
22	3,9 18,22 100%			3" SS							
24	3,11 13,18 100%		trace sand and gravel 10" seam of sand, gravelly, silty, dense, wet at 25'	2" SS							
26	8,18 30,42 100%			2" SS							
28	12,17 31,35		silty sand seams < 1" thick from 28-30' (CL-ML)	2" SS							

DRILLING CONTR. WTD Environmental Drilling

SL 5524

LOGGED BY M. McCulloch CHK'D BY

TE 9/24/91

Printed on recycled paper

SOIL BOREHOLE LOG

SITE NAME AND LOCATION

'M Chemical Services, Inc.
ıcago Incinerator
Chicago, IL.

DRILLING METHOD: 4" OD SSA

SAMPLING METHOD: 2", 2½", and 3" OD split spoons with a 300 lb. hammer.

WATER LEVEL				
TIME				
DATE				
CASING DEPTH				

BORING NO. C-4

SHEET 3 OF 6

DRILLING

START	FINISH
TIME 12:00PM	TIME 4:00PM
DATE 9/24/91	DATE 9/26/91

DATUM Chicago City ELEVATION 9.9

DRILL RIG BK-81

ANGLE Vertical BEARING

SAMPLE HAMMER TORQUE FT.-LBS

SURFACE CONDITIONS: Grassy, gentle slope

DEPTH IN FEET (ELEVATION)	BLOWS/ 6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPCIFIC GRAVITY	OTHER TESTS
32	4,15 23,29 100%		Silt, clayey, hard, moist, low plasticity, grayish brown (CL-ML).	2" SS							
	16,20 20,28 92%		Sand, silty, very dense, wet, poorly graded, fine grained, dark gray (SM-SC).	3" SS			14.3	22.8			G.S.=2/26/49/23 G.S.=0/70/30
34	100%			ST							
36	3,6 12,15 83%		Sand, silty, dense, wet, poorly graded, well rounded grains, dark gray (SM).	3" SS				21	3		
38	26,32 29,34 75%			2½" SS							
40	12,18 28,35 75%		Clay, silty, trace fine gravel, some fine to coarse grained sand, rounded fine to medium sand grains, angular to subangular coarse sand and fine gravel, hard, moist, low plasticity, grayish brown (CL) [Glacial Till]	2" SS			14.3	28	12		G.S.=1/26/73
42	11,16 24,32 54%			3" SS							
44	13,24 32,50			2½" SS							

DRILLING CONTR

LOGGED BY M. McCulloch DATE 9/24/91 CHK'D BY DTA

WTD Environmental Drilling SL 15525

Printed on recycled paper ©

SOIL BOREHOLE LOG

SITE NAME AND LOCATION IM Chemical Services, Inc. Chicago Incinerator Chicago, IL.	DRILLING METHOD: 4" OD SSA to 58' 6" mud rotary 58 to 80' SAMPLING METHOD: 2", 2½", and 3" OD split spoons with a 300 lb. hammer.	BORING NO. C-4 SHEET 4 OF 6

					DRILLING START	DRILLING FINISH
WATER LEVEL					TIME	TIME
TIME					12:00PM	4:00PM
DATE					DATE	DATE
CASING DEPTH					9/24/91	9/26/91

DATUM Chicago City ELEVATION 9.9

DRILL RIG BK-81 SURFACE CONDITIONS

ANGLE Vertical BEARING Grassy, gentle slope

SAMPLE HAMMER TORQUE FT.-LBS

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPCIFIC GRAVITY	OTHER TESTS
46	75% 14,30 53,75 75%		Clay, silty, trace fine gravel, some fine to coarse grained sand, rounded fine to medium sand grains, angular to subangular coarse sand and fine gravel, hard, moist, low plasticity, grayish brown. (CL). [Glacial Till]	2½" SS 2" SS			11	24	9		G.S.=4/28/68
48	30,63 83,10 83%			3" SS							
50	25,48 79,100 83%			2½" SS							
52	18,37 49,53 83%			2" SS							
54	28,39 44,85 83%			2" SS			11.6	23	7		G.S.=2/20/78
56	24,28 110,160 83%			2" SS							
58	51,88 95,69 92%			3" SS							

DRILLING CONTR WTD Environmental Drilling

SL 5526

LOGGED BY M. McColloch CHK'D BY DTN

DATE 9/25/91

SOIL BOREHOLE LOG

SITE NAME AND LOCATION

M Chemical Services, Inc.
Chicago Incinerator
Chicago, IL.

DRILLING METHOD: 6" mud rotary 58 to 80'

SAMPLING METHOD: 2", 2½", and 3" OD split spoons with a 300 lb. hammer.

BORING NO. C-4

SHEET 5 OF 6

	DRILLING START	DRILLING FINISH
WATER LEVEL		
TIME	12:00PM	4:00PM
DATE	9/24/91	9/26/91
CASING DEPTH		

DATUM Chicago City ELEVATION 9.9

DRILL RIG BK-81

ANGLE Vertical BEARING

SAMPLE HAMMER TORQUE FT.-LBS

SURFACE CONDITIONS: Grassy, gentle slope

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
62	15,18 13,31 42%		Clay, silty, trace fine gravel, little sand, fine to coarse grained, rounded fine to medium sand, angular to subangular coarse sand and fine gravel, hard, moist, low plasticity, grayish brown. (CL) [Glacial Till]	2½" SS			12.8	24	8		G.S.= 2/18/80
	4,11 18,21 42%			2" SS							
64	15,27 25,100 83%			3" SS							
66	69,75 95,59 33%			2½" SS							
68	27,33 26,25 13%			2" SS							
70	14,18 24,25 83%			3" SS			13.8	29	12		G.S.=2/17/81
72	10,12 18,27 100%		4-6" seam of clayey gravel at 72½' and 73'.	2½" SS							
74	15,37 44,87			2" SS							

DRILLING CONTR WTD Environmental Drilling

SI 15527

LOGGED BY M. McColloch

SOIL BOREHOLE LOG

SITE NAME AND LOCATION WM Chemical Services, Inc. Chicago Incinerator Chicago, IL.	DRILLING METHOD: 6" mud rotary 58 to 80'	BORING NO. C-4
	SAMPLING METHOD: 10' NX core barrel, clear water	SHEET 6 OF 6
		DRILLING START / FINISH
	WATER LEVEL / TIME / DATE	TIME: 12:00PM / 4:00PM DATE: 9/24/91 / 9/26/91
DATUM Chicago City ELEVATION 9.9	CASING DEPTH	
DRILL RIG BK-81	SURFACE CONDITIONS	
ANGLE Vertical BEARING	Grassy, gentle slope	
SAMPLE HAMMER TORQUE FT.-LBS		

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
76	100% 33,98 166,145 83%		Clay, silty, trace fine gravel, little sand, fine to coarse grained, rounded fine to medium sand, angular to subangular coarse sand and fine gravel, hard, slightly moist, low plasticity, grayish brown. Angular clasts of bedrock present. (CL) [Glacial Till]	2" SS 3" SS							
8	83%			2½" SS							
80			Bedrock encountered at 79'. Began rock coring at 80'.								
82			Dolomite, argillaceous, light to greenish gray, soft, massive bedding, overall fresh rock, small closed vertical fractures (1mm) between 80 and 82.6', slightly weathered, fine grained texture. Core recovered in lengths between 8" and 34", most 12". 100% of recovered core greater than 4". Overall fractures are horizontal fresh breaks (mechanical). [Racine formation]								
84			Recovery: 110.1" / 120" = 91.8%								
86			RQD: 110.1" total > 4" 110.1" / 120" = 91.8%								
88											

DRILLING CONTR WM Environmental Drilling

15528

LOGGED BY M. McCulloch

SOIL BOREHOLE LOG

SITE NAME AND LOCATION J M Chemical Services, Inc. Chicago Incinerator Chicago, IL.	DRILLING METHOD: Mud rotary 9 7/8" tricone roller bit 0-15'. 3¼" ID HSA 15 to 64'. SAMPLING METHOD: 2", 2½", and 3" OD split spoon with a 300 lb. hammer.	BORING NO. C-5 SHEET 1 OF 6

WATER LEVEL				
TIME				
DATE				
CASING DEPTH				

DRILLING	START	FINISH
TIME	9:00AM	2:30PM
DATE	10/8/91	10/16/91

DATUM Chicago City ELEVATION 9.5'

DRILL RIG BK-81

ANGLE Vertical BEARING

SAMPLE HAMMER TORQUE FT.-LBS

SURFACE CONDITIONS: Asphalt

DEPTH IN FEET (ELEVATION)	BLOWS/ 6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPCIFIC GRAVITY	OTHER TESTS
			No samples collected from 0 to 15'. See boring log for G-348 for description of fill material.								
2											
4											
6											
8											
10											
12											
14			Clay-fill contact at 15'.								

DRILLING CONTR WTD Environmental Drilling

SL 15534

LOGGED BY M. McColloch

DATE 10/8/91 CHKD BY DTA

SOIL BOREHOLE LOG

SITE NAME AND LOCATION WM Chemical Services, Inc. Cago Incinerator Chicago, IL.	DRILLING METHOD: Mud rotary 9 7/8" tricone roller bit 0-15'. 3¼" ID HSA SAMPLING METHOD: 2", 2½", and 3" OD split spoon with a 300 lb. hammer.	BORING NO. C-5 SHEET 2 OF 6

					DRILLING START	DRILLING FINISH
WATER LEVEL					TIME	TIME
TIME					9:00AM	2:30PM
DATE					DATE	DATE
CASING DEPTH					10/8/91	10/16/91

DATUM Chicago City ELEVATION 9.5'

DRILL RIG D-50 SURFACE CONDITIONS Asphalt

ANGLE Vertical BEARING

SAMPLE HAMMER TORQUE FT.-LBS

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
16			[9 7/8" mud rotary to 15'. Set 8" casing to 18' on 10/8/91. Wood plug removed 10/9/91, augered to 20' with 3¼" ID HSA, and began sampling at 20'.]								
18											
20	6,6 7,17 13%			3" SS							
22	3,3 5,15 100%		Clay, silty, trace gravel, stiff, moist, medium plasticity, uniform, gray (CL). [Lacustrine]	3" SS							
24	3,6 10,11 83%		Becoming very stiff to hard.	3" SS							
26	100%			ST			21.3	34	16		G.S. = 2.9/32/58
28	6,8 11,19 92%		Increasing sand and gravel content.	2½" SS							

DRILLING CONTR WTD Environmental Drilling

LOGGED BY M. McCulloch

DATE 10/9/91 CHK'D BY DA

S 15532

© Printed on recycled paper

SOIL BOREHOLE LOG

SITE NAME AND LOCATION

W M Chemical Services, Inc.
Chicago Incinerator
Chicago, IL.

DRILLING METHOD: 3¼" ID HSA

BORING NO. C-5

SHEET 3 OF 6

SAMPLING METHOD: 2", 2½", and 3" OD split spoon with a 300 lb. hammer.

DRILLING START TIME 9:00AM DATE 10/8/91

DRILLING FINISH TIME 2:30PM DATE 10/16/91

WATER LEVEL	
TIME	
DATE	
CASING DEPTH	

DATUM Chicago City ELEVATION 9.5'

DRILL RIG D-50

ANGLE Vertical BEARING

SAMPLE HAMMER TORQUE FT.-LBS

SURFACE CONDITIONS: Asphalt

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
32	4,9 12,20 100%		Sand, silty, clayey, dense, dry, poorly graded, fine to medium grained, dark gray (SM).	3" SS			7.6				G.S.=5/76/19
34	9,11 15,17 96%		Silt, clayey, moist, non-plastic to low plasticity, varves present (5mm thick), grayish brown. (ML) [Lacustrine]	2½" SS			23.4	26	2		
36	10,15 22,25 88%			2" SS							
38	100%			ST			21.1	27	3		G.S.=0/1/84/15 G.S.=0/2/98
40	3,5 11,14 83%			3" SS							
42	9,12 16,21 92%		Clay, silty, trace fine gravel, some sand, fine to coarse grained, rounded fine to medium sand, angular to subangular coarse sand and fine gravel, hard, slightly moist, low plasticity, grayish brown (CL) [Glacial Till].	2½" SS							
44	9,13 22,35 100%			2" SS							
	7,12 15,18			3" SS			11.8	24	8		G.S.=5/24/71

DRILLING CONTR

LOGGED BY M. McColloch

SOIL BOREHOLE LOG

SITE NAME AND LOCATION

W M Chemical Services, Inc.
Chicago Incinerator
Chicago IL.

DRILLING METHOD: 3¼" ID HSA

SAMPLING METHOD: 2", 2½", and 3" OD split spoons with a 300 lb. hammer.

BORING NO. C-5

SHEET 4 OF 6

					DRILLING START	DRILLING FINISH
WATER LEVEL					TIME	TIME
TIME					9:00AM	2:30PM
DATE					DATE	DATE
CASING DEPTH					10/8/91	10/16/91

DATUM Chicago City ELEVATION 9.5'

DRILL RIG D-50

ANGLE Vertical BEARING

SAMPLE HAMMER TORQUE FT.-LBS

SURFACE CONDITIONS: Asphalt

DEPTH IN FEET (ELEVATION)	BLOWS/ 6 IN ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
46	92% 11,20 30,30 96%			3" SS 2½" SS							
48	15,21 24,35 100%		Silty clay, trace fine gravel, little fine to coarse sand, rounded fine to medium sand, angular to subangular coarse sand and fine gravel, hard, slightly moist, low plasticity, grayish brown (CL - ML) [Glacial Till].	2" SS			11.8	24	8		G.S.=5/24/71
50	10,13 17,22 100%			3" SS							
52	11,14 24,32 100%		Vertical fracture filled with silty sand 52-52½'.	2" SS			11.1	21	5		G.S.=3/16/81
54	7,24 34,55 100%			3" SS							
56	15,16 19,23 100%			3" SS							
58	9,11 16,25 100%			3" SS							

DRILLING CONTR

LOGGED BY M. McCulloch

SOIL BOREHOLE LOG

SITE NAME AND LOCATION	DRILLING METHOD:	BORING NO.
I M Chemical Services, Inc. Chicago Incinerator Chicago, IL.	3¼" ID HSA 15 to 64' 4" water rotary 64 to 76' SAMPLING METHOD: 2", 2½", and 3" OD split spoons with a 300 lb. hammer.	C-5 SHEET 5 OF 6 DRILLING

					START	FINISH
WATER LEVEL					TIME	TIME
TIME					9:00AM	2:30PM
DATE					DATE	DATE
CASING DEPTH					10/8/91	10/16/91

DATUM Chicago City ELEVATION 9.5'

DRILL RIG D-50	SURFACE CONDITIONS
ANGLE Vertical BEARING	Asphalt
SAMPLE HAMMER TORQUE FT.-LBS	

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPCIFIC GRAVITY	OTHER TESTS
62	12,15 21,27 100%		Clay, silty, trace fine gravel, little sand, fine to coarse grained, rounded fine to medium sand, angular to subangular coarse sand and fine gravel, hard, moist, low plasticity, grayish brown (CL). [Glacial Till].	2½" SS			12.4	26	9		G.S.=2/17/81
	14,21 34,39 4%			2" SS							
64	10,18 19,30 83%			2½" SS							
66	13,18 36,34 67%			2" SS							
68	8,11 20,22 50%			2½" SS			12.8	26	10		G.S.=2/22/76
70	11,18 20,25 75%			2" SS							
72	11,19 27,30 100%			2½" SS							
74	12 100/5"		Angular clasts of bedrock present at 74'.	2" SS							

DRILLING CONTR WM Environmental Drilling

LOGGED BY M. McColloch

CI 15528

SOIL BOREHOLE LOG

'E NAME AND LOCATION

C W M Chemical Services, Inc.
Chicago Incinerator
Chicago, IL.

DRILLING METHOD: 4" water rotary 64 to 76'.

SAMPLING METHOD: 10' NX core barrel, clear water

BORING NO. C-5

SHEET 6 OF 6

					DRILLING START	DRILLING FINISH
WATER LEVEL					TIME	TIME
TIME					9:00AM	2:30PM
DATE					DATE	DATE
CASING DEPTH					10/8/91	10/16/91

DATUM Chicago City ELEVATION 9.5'

DRILL RIG BK-81

ANGLE Vertical BEARING

SAMPLE HAMMER TORQUE FT.-LBS

SURFACE CONDITIONS: Asphalt

DRILLING CONTR.

LOGGED BY M. McColloch

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPCIFIC GRAVITY	OTHER TESTS
76	100%		Bedrock encountered at 76'.	2" SS							
78			Dolomite, argillaceous, light to greenish gray, soft, massive bedding, overall fresh rock, slightly weathered top 2' with clay filled fractures, fine grained texture. Core recovered in lengths between 2" and 34". 75% of recovered lengths are greater than 4". Overall fractures are horizontal fresh breaks (mechanical).								
80											
82			Recovery: 84"/120" = 70%								
84			RQD: 62.5" total > 4"								
86			62.5"/120" = 52.1%								
88			EOB @ 86' 10/16/91 Abandoned with bentonite cement grout 10/16/91.								

SOIL BOREHOLE LOG

NAME AND LOCATION

M Chemical Services, Inc.
Chicago Incinerator
Chicago, IL.

DRILLING METHOD: Mud rotary 9 7/8" tricone roller bit 0-15'. 3¼" ID HSA

SAMPLING METHOD: 2", 2½", and 3" OD split spoons with a 300 lb. hammer.

BORING NO. C-6

SHEET 2 OF 4

					DRILLING START	DRILLING FINISH
WATER LEVEL						
TIME					8:00AM	5:00PM
DATE					9/27/91	9/30/91
CASING DEPTH						

DATUM Chicago City ELEVATION 9.6'

DRILL RIG BK-81

ANGLE Vertical BEARING

SAMPLE HAMMER TORQUE FT.-LBS

SURFACE CONDITIONS: Crushed gravel

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPCIFIC GRAVITY	OTHER TESTS
16			Clay, silty, stiff, moist, moderately plastic, uniform. Contains plant roots, decreasing with depth, light gray (CL). [Lacustrine]								
18											
20	4,10 18,18 100%		Clay, silty, very stiff, moist, moderately plastic, uniform, light gray (CL) [Lacustrine]	3" SS			20.3	35	17		G.S.=0/14/31/55
22	100%			ST							
24	10,16 32,50 100%		Hard, trace gravel.	2½" SS							
26	8,36 44,65 83%		Silt, clayey, hard, moist, low plasticity, gray. Very thin bedding-varves (8mm) (ML) [Lacustrine].	2" SS			17.3	22	2		G.S.=0/6/94
28	16,30 39,40 83%		Thin sand seams below 29' (8mm).	2" SS							

DRILLING CONTR

LOGGED BY D. Trainor

DATE 9/30/91

CHK'D BY

WTD Environmental Drilling

SL 15541

SOIL BOREHOLE LOG

SITE NAME AND LOCATION	DRILLING METHOD:	BORING NO.
C W M Chemical Services, Inc. Chicago Incinerator Chicago, IL.	3¼" ID HSA	C-6
	SAMPLING METHOD: 2", 2½", and 3" OD split spoons with a 300 lb. hammer.	SHEET 3 OF 4

					DRILLING START	DRILLING FINISH
WATER LEVEL					TIME	TIME
TIME					9:00AM	2:30PM
DATE					DATE	DATE
CASING DEPTH					9/27/91	9/30/91

DATUM Chicago City ELEVATION 9.6'

DRILL RIG BK-81

ANGLE Vertical BEARING

SAMPLE HAMMER TORQUE FT.-LBS

SURFACE CONDITIONS: Crushed gravel

DEPTH IN FEET (ELEVATION)	BLOWS/ 6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPCIFIC GRAVITY	OTHER TESTS
	46,90 122,191 100%		Silt, clayey, hard, very moist, low plasticity, gray. Thin sand seam (up to 8mm)-varves. (ML) [Lacustrine]	3" SS							
32	10,15 23,32 100%		Very sandy silt, less clay below 32'	3" SS			18.0				G.S.=0/17/83
34	10,15 33,72 100%		Wet sand seams below 34'	2½" SS							
36	18,23 31,60 67%		Silty clay, hard, slightly moist, low plasticity, massive, gray. (CL-ML) [Grading into Glacial Till.]	2" SS			11.3	22	4		G.S.=3/27/70
38	25,30 30,47 100%		Increasing gravel content below 38'.	3" SS							
40	6,10 12,14 100%		Very stiff 40-42'.	2½" SS							
42	6,10 15,23 100%			2" SS							
	9,10 14,27			3" SS			11.3	21	7		G.S.=5/28/67

DRILLING CONTR WTD Environmental Drilling

15543

LOGGED BY M. McColloch

DATE 9/30/91 CHK'D BY DJD

on recycled paper

SOIL BOREHOLE LOG

SITE NAME AND LOCATION: VM Chemical Services, Inc. Chicago Incinerator Chicago, IL.	DRILLING METHOD: 3¼" ID HSA	BORING NO. C-6
	SAMPLING METHOD: 2", 2½", and 3" OD split spoons with a 300 lb. hammer.	SHEET 4 OF 4
		DRILLING START / FINISH
	WATER LEVEL / TIME / DATE	TIME 9:00AM / 2:30PM
	CASING DEPTH	DATE 9/27/91 / 9/30/91
DATUM Chicago City ELEVATION 9.6'		
DRILL RIG BK-81	SURFACE CONDITIONS	
ANGLE Vertical BEARING	Crushed gravel	
SAMPLE HAMMER TORQUE FT.-LBS		

DEPTH IN FEET (ELEVATION)	BLOWS/ 6 IN ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
46	100% 10,17 30,27 100%		Silty clay, trace fine gravel, some sand, rounded fine to medium sand grains, angular to subangular coarse sand and fine gravel, hard, slightly moist, low plasticity, massive, grayish brown (CL-ML) [Glacial Till].	3" SS 2½" SS			11.3	21	7		G.S.=5/28/67
48	11,17 28,44 100%		Sand, silty, gravelly, dense, slightly moist, low plasticity fines, dark gray (SM).	2" SS							
50	10,16 32,33 100%		Silt, clayey, little sand, trace gravel, slightly moist to moist, non-plastic, thinly bedded, grayish brown (ML) [Glacial Till].	2½" SS			13.4	21	3		G.S.=0/1/89
52	6,16 29,50 100%			2" SS							
54	15,29 35,48 100%			3" SS							
56											
58			EOB @ 59' 9/30/91. Installed temporary piezometer C - 6BD 9/30/91								

DRILLING CONTR WTD Environmental Drilling

SI 15544

LOGGED BY M. McCulloch

SOIL BOREHOLE LOG

NAME AND LOCATION

C W M Chemical Services, Inc.
Chicago Incinerator
Chicago, IL.

DRILLING METHOD: Mud rotary 9 7/8" tricone roller bit 0-15'.

SAMPLING METHOD: 2", 2½", and 3" OD split spoons with a 300 lb. hammer.

BORING NO. C-6

SHEET 1 OF 4

					DRILLING START	DRILLING FINISH
WATER LEVEL					TIME	TIME
TIME					8:00AM	5:00PM
DATE					DATE	DATE
CASING DEPTH					9/27/91	9/30/91

DATUM Chicago City ELEVATION 9.6'

DRILL RIG BK-81

ANGLE Vertical BEARING

SAMPLE HAMMER TORQUE FT.-LBS

SURFACE CONDITIONS: Crushed gravel

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPCIFIC GRAVITY	OTHER TESTS
2			No samples collected from 0 to 12'. See boring log for G-332 for description of fill material.								
4			[9 7/8" mud rotary to 15', set 8" casing to 18' 9/27/91. Wood plug removed 9/30/91, drilled to 20' with 3¼" ID HSA, resumed sampling at 20'.]								
6											
8											
10											
12	3,3 3,4 75%		Fill, clay, silty, trace gravel, trace sand, firm, moderately plastic, wet, dark brown (CL).	2" SS							
14	3,3 8,8		Clay-fill contact at 15'.	2" SS							

DRILLING CONTR WTD Environmental Drilling

SL 540

LOGGED BY M. McColloch DATE 9/27/91 CHK'D BY DJ

printed on recycled paper

SOIL BOREHOLE LOG

SITE NAME AND LOCATION

NM Chemical Services, Inc.
Chicago Incinerator
Chicago, IL.

DRILLING METHOD: Mud rotary 9 7/8" tricone roller bit 0-20'.
3¼" ID HSA
SAMPLING METHOD: 2", 2½", and 3" OD split spoons with a 300 lb. hammer.

BORING NO. C-7

SHEET 1 OF 6

					DRILLING START	DRILLING FINISH
WATER LEVEL					TIME	TIME
TIME					12:30PM	5:00PM
DATE					DATE	DATE
CASING DEPTH					10/3/91	10/8/91

DATUM Chicago City ELEVATION 13.0'

DRILL RIG BK-81

ANGLE Vertical BEARING

SAMPLE HAMMER TORQUE FT.-LBS

SURFACE CONDITIONS: Grassy with weeds

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPCIFIC GRAVITY	OTHER TESTS
0			No samples collected from 0-25'. See boring log G-318 for description of fill material.								
2											
4											
6											
8											
10											
12											
14											

DRILLING CONTR WTD Environmental Drilling

SI 15545

LOGGED BY M. McCulloch

DATE 10/3/91

SOIL BOREHOLE LOG

SITE NAME AND LOCATION M Chemical Services, Inc. Chicago Incinerator Chicago, IL.	DRILLING METHOD: Mud rotary 9 7/8" tricone roller bit 0 to 20'. 3¼" ID HSA SAMPLING METHOD: 2", 2½", and 3" OD split spoons with a 300 lb. hammer.	BORING NO. C-7 SHEET 2 OF 6	
	WATER LEVEL / TIME / DATE / CASING DEPTH	DRILLING START: TIME 12:30PM, DATE 10/3/91	DRILLING FINISH: TIME 5:00PM, DATE 10/8/91
DATUM Chicago City ELEVATION 13.0'			
DRILL RIG BK-81	SURFACE CONDITIONS		
ANGLE Vertical BEARING	Grassy with weeds		
SAMPLE HAMMER TORQUE FT.-LBS			

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
16			[9 7/8" mud rotary to 20'. Set 8" casing to 22' 10/3/91. Wood plug removed 10/6/91, drilled to 25' with 3¼" ID HSA, and began sampling.]								
18											
			Clay-fill contact at 20'.								
20											
22											
24											
	11,12 15,22 0%		Clay, silty, stiff, moist, medium plasticity, uniform, slight red mottling, light gray (CL) [Lacustrine].	3" SS							
26											
	6,5 6,9 100%			3" SS							
28											
	100%			ST			19.7	36	18		G.S.= 1/6/33/60

LOGGED BY M. McCulloch

DRILLING CONTR. WM Environmental Drilling

SOIL BOREHOLE LOG

SITE NAME AND LOCATION

. M Chemical Services, Inc.
Chicago Incinerator
Chicago, IL.

DRILLING METHOD: 3¼" ID HSA

SAMPLING METHOD: 2", 2½", and 3" OD split spoons with a 300 lb. hammer.

BORING NO. C-7

SHEET 3 OF 6

					DRILLING START	DRILLING FINISH
WATER LEVEL						
TIME					12:30PM	5:00PM
DATE					10/3/91	10/8/91
CASING DEPTH						

DATUM Chicago City ELEVATION 13.0'

DRILL RIG BK-81

ANGLE Vertical BEARING

SAMPLE HAMMER TORQUE FT.-LBS

SURFACE CONDITIONS: Grassy with weeds

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
32	100% 5,6 9,11 33%		Clay, silty, stiff, moist, medium plasticity, uniform, light gray (CL) [Lacustrine]. Very stiff clay.	ST 2½" SS			19.7	36	18		G.S.=1/6/33/60
34	6,9 14,15 83%		Silt, clayey, very stiff, moist, low plasticity, massive structure, gray (ML) [Lacustrine].	2" SS							
36	7,11 14,17 83%		Sand, medium dense, slightly moist, medium to coarse grained, poorly graded, dark gray. (SP)	3" SS			14.5	22	5		G.S.=0/27/73
38	16,19 30,47 50%		Silty clay, trace fine gravel, little coarse sand, little fine to medium sand, rounded fine to medium sand grains, angular to subangular coarse sand and fine gravel, hard, slightly moist, low plasticity, grayish brown. (CL-ML)	3" SS							
40	23,27 31,35 83%		Angular to subangular sand and gravel [Glacial Till].	2½" SS			11.9	23	7		G.S.=1/29/70
42	11,15 28,35 92%			2" SS							
44	6,8 10,10 75%			3" SS							

LOGGED BY M. McColloch DRILLING CONTR WTD Environmental Drilling

DATE 10/6/91 CHK'D BY

SL 15547

Printed on recycled paper

SOIL BOREHOLE LOG

SITE NAME AND LOCATION

C W M Chemical Services, Inc.
Chicago Incinerator
Chicago, IL.

DRILLING METHOD: 3¼" ID HSA

SAMPLING METHOD: 2", 2½", and 3" OD split spoons with a 300 lb. hammer.

BORING NO. C-7

SHEET 4 OF 6

					DRILLING START	DRILLING FINISH
WATER LEVEL						
TIME					12:30PM	5:00PM
DATE					DATE 10/3/91	DATE 10/8/91
CASING DEPTH						

DATUM Chicago City ELEVATION 13.0'

DRILL RIG BK-81

ANGLE Vertical BEARING

SAMPLE HAMMER TORQUE FT.-LBS

SURFACE CONDITIONS: Grassy with weeds

DRILLING CONTR

LOGGED BY M. McCulloch

WM Environmental Drilling

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
46	15,20 36,40 75%		Sand and gravel, clayey, silty, medium to coarse grained, well graded, dry, dark gray (SC).	2½" SS							
48	43,36 49,51 83%			2" SS			10.3	22	6		G.S.=4/27/69
50	17,20 30,33 96%		Silty clay, trace fine gravel, little coarse sand, little medium to fine sand, rounded fine to medium sand grains, angular to subangular coarse sand and fine gravel, hard, slightly moist, low plasticity, grayish brown. (CL-ML) [Glacial Till]	3" SS							
52	20,25 34,51 83%			2½" SS			11.4	22	6		G.S.= 1/24/75
54	18,38 50,78 92%			2" SS							
56	13,34 65,83 83%		Clay, silty, little fine gravel to coarse sand, little fine to medium sand, rounded fine to medium sand grains, angular to subangular coarse sand and fine gravel, hard, slightly moist, low plasticity, grayish brown. (CL) [Glacial Till]	2½" SS							
58	22,40 38,53 100%			2" SS			10.3	26	10		G.S.=2/18/80
	82,48 38,43			3" SS							

SOIL BOREHOLE LOG

SITE NAME AND LOCATION

M Chemical Services, Inc.
Chicago Incinerator
Chicago, IL.

DRILLING METHOD:
3¼" ID HSA 20 to 61'.
6" mud rotary 61 to 72'.
SAMPLING METHOD: 2", 2½", and 3"
split spoons, 300 lb. hammer
10' NX core barrel, clear water

BORING NO. C-7
SHEET 5 OF 6

					DRILLING START	DRILLING FINISH
WATER LEVEL					TIME	TIME
TIME					12:30PM	5:00PM
DATE					DATE	DATE
CASING DEPTH					10/3/91	10/8/91

DATUM Chicago City ELEVATION 13.0'
DRILL RIG BK-81
ANGLE Vertical BEARING
SAMPLE HAMMER TORQUE FT.-LBS
SURFACE CONDITIONS: Grassy with weeds

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
62	100%			3" SS			10.3	26	10		G.S.=2/18/80
64											
66	10,21 33,60 83%		Clay, silty, trace fine gravel and coarse sand, little fine to medium sand, rounded fine to medium sand grains, angular to subangular coarse sand and fine gravel, hard, slightly moist, low plasticity, grayish brown. (CL) [Glacial Till]	3" SS			11.7	25	9		G.S.=1/19/80
68	3,4 16,71 25%			2½" SS							
70	3,10 11,20 12%			2" SS							
72			Bedrock encounted at 72'. Rock core from 72-76½'.								
74											

DRILLING CONTR WTD Environmental Drilling
SL 15549
LOGGED BY M. McColloch CHK'D BY DTO
DATE 10/6/91

SOIL BOREHOLE LOG

SITE NAME AND LOCATION: M Chemical Services, Inc. Chicago Incinerator Chicago, IL.	DRILLING METHOD: 6" mud rotary 61-72'.	BORING NO. C-7
		SHEET 6 OF 6
	SAMPLING METHOD: split spoons	DRILLING
	10' NX core barrel, clear water	START 10/3/91 TIME 12:30PM; FINISH DATE 10/8/91 TIME 5:00PM
	WATER LEVEL / TIME / DATE / CASING DEPTH	
DATUM Chicago City ELEVATION 13.0'		
DRILL RIG BK-81	SURFACE CONDITIONS	
ANGLE Vertical BEARING	Grassy with weeds	
SAMPLE HAMMER TORQUE FT.-LBS		

DRILLING CONTR WTD Environmental Drilling

S 15550

LOGGED BY M. McColloch CHK'D BY DA

DATE 10/7/91

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
76			Dolomite, light to greenish gray, soft, massive bedding, overall fresh rock, slightly weathered along vertical fractures, closed (1mm). Some clay filling of fractures is present. Top 6" is a dolomite breccia zone, with a pitted surface, and few vugs. Core recovered in lengths between 2" and 9". 70% of recovered core is greater than 4".								
80			Recovery: $\frac{52"}{54"}$ = 96.3%								
			RQD: 36.75" total > 4" $\frac{36.75"}{54"}$ = 68%								
			EOB @ 76½' 10/7/91								
			Abandoned with bentonite cement grout 10/8/91.								

SOIL BOREHOLE LOG

SITE NAME AND LOCATION

M Chemical Services, Inc.
...cago Incinerator
Chicago, IL.

DRILLING METHOD: Mud rotary 9 7/8" tricone roller bit 0-16½'.

SAMPLING METHOD: 2", 2⅓", and 3" OD split spoons with a 300 lb. hammer.

BORING NO. D-1

SHEET 1 OF 6

					DRILLING START	DRILLING FINISH
WATER LEVEL					TIME	TIME
TIME					7:00AM	12:00PM
DATE					DATE	DATE
CASING DEPTH					10/25/91	11/1/91

DATUM Chicago City ELEVATION 11.5'

DRILL RIG BK-81

ANGLE Vertical BEARING

SAMPLE HAMMER TORQUE FT.-LBS

SURFACE CONDITIONS: Crushed gravel

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
2			No samples collected from 0 - 20'. See Boring Log G - 120 for description of fill material								
4											
6											
8											
10											
12											
14											

DRILLING CONTR WTD Environmental Drilling

SL 15558

LOGGED BY M. McCulloch CHK'D BY

DATE 10/25/91

SOIL BOREHOLE LOG

SITE NAME AND LOCATION

M Chemical Services, Inc.
Lago Incinerator
Chicago, IL.

DRILLING METHOD: Mud rotary 9 7/8" tricone roller bit 0-16½'. 6" mud rotary

SAMPLING METHOD: 2", 2½", and 3" OD split spoon with a 300 lb. hammer.

BORING NO. D-1

SHEET 2 OF 6

					START	FINISH
WATER LEVEL					TIME	TIME
TIME					7:00AM	12:00PM
DATE					DATE	DATE
CASING DEPTH					10/25/91	11/1/91

DRILLING

DATUM Chicago City ELEVATION 11.5'

DRILL RIG BK-81

ANGLE Vertical BEARING

SAMPLE HAMMER TORQUE FT.-LBS

SURFACE CONDITIONS: Crushed gravel

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
16			Clay-fill contact at 16'.								
			[9 7/8" mud rotary to 16½', 6" casing to 18' 10-25-91. Wood plug removed 10-31-91, drilled to 20', and began sampling.]								
20	1,1 2,2 58%		Clay, silty, trace sand, stiff, moist, moderate plasticity, uniform, light gray. (CL) [Lacustrine]	3" SS							
22	2,2 4,7 0%			2½" SS							
24	5,6 9,9 83%			2" SS							
26	100%			ST			21.7	35	16		G.S.=0/11/29/60
28	6,12 26,42 83%			3" SS							

DRILLING CONTR WTD Environmental Drilling

LOGGED BY M. McColloch

SOIL BOREHOLE LOG

SITE NAME AND LOCATION

C W M Chemical Services, Inc.
Chicago, Incinerator
Chicago, IL.

DRILLING METHOD: 6" mud rotary

SAMPLING METHOD: 2", 2½", and 3" OD split spoons with a 300 lb. hammer

BORING NO. D-1

SHEET 3 OF 6

WATER LEVEL				
TIME				
DATE				
CASING DEPTH				

DRILLING START: TIME 7:00AM, DATE 10/25/91
DRILLING FINISH: TIME 12:00PM, DATE 11/1/91

DATUM Chicago City ELEVATION 11.5'

DRILL RIG BK-81

ANGLE Vertical BEARING

SAMPLE HAMMER TORQUE FT.-LBS

SURFACE CONDITIONS: Crushed gravel

DRILLING CONTR WTD Environmental Drilling

SL 15560

LOGGED BY M. McCulloch

DATE 10/31/91

CHK'D BY DTG

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
-32	15,36 52,61 42%		Silt, clayey, trace sand, hard, moist, non-plastic, uniform, grayish brown. Laminations to very thin bedding. (ML) [Lacustrine]	2½" SS			17.5	22	0		G.S.=0/2/78/20
	6,12 21,28 67%			2" SS							
34	13,13 17,15 83%		Clay, silty, trace gravel, some fine to coarse sand, rounded fine to medium sand grains, angular to subangular coarse sand and fine gravel, hard, moist, low plasticity, grayish brown. (CL) [Glacial Till]	3" SS			13.4	24	9		G.S.= 0/30/70
36	10,13 14,18 58%			2½" SS							
38	10,12 15,20 50%			2" SS							
40	7,11 14,14 83%			3" SS							
42	5,9 11,15 42%			2½" SS							
44	4,6 12,11			2" SS							

SOIL BOREHOLE LOG

SITE NAME AND LOCATION: M Chemical Services, Inc. Chicago Incinerator Chicago, IL.	DRILLING METHOD: 6" Mud Rotary	BORING NO. D-1
	SAMPLING METHOD: 2", 2½', and 3" OD split-spoons with a 300 lb hammer	SHEET 4 OF 6
	WATER LEVEL / TIME / DATE / CASING DEPTH	DRILLING START: TIME 7:00 AM, DATE 10/25/91; FINISH: TIME 12.00 PM, DATE 11/01/91
DATUM Chicago City ELEVATION 11.5'		
DRILL RIG BK-81	SURFACE CONDITIONS: Crushed Gravel	
ANGLE Vertical BEARING		
SAMPLE HAMMER TORQUE FT.-LBS		

DEPTH IN FEET (ELEVATION)	BLOWS/ 6 IN ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
46	42%		Clay, silty, trace gravel, some fine to coarse sand, rounded fine to medium sand, angular to subangular coarse sand and fine gravel, hard, slightly moist, low placticity (CL) [Glacial Till]	2" SS			11.1	24	8		G.S.=2/32/66
	9,14 19,25 83%			3" SS							
3	11,16 27,29 46%		½" sandy-clayey seam at 49½'.	2 1/2" SS							
50	16,15 25,30 42%			2" SS							
52	15 2,10/74" 60%			3" SS							
54	15,20 28,40 75%		Silty clay, trace gravel, little fine to coarse sand, rounded to fine to medium sand angular to subangular coarse sand and fine gravel, hard, slightly moist, low plasticity. (CL-ML) [Glacial Till]	3" SS			11.4	26	7		G.S.=4/22/66
56	16,20 28,39 60%			2½" SS							
58	2,7 12,24 33%			2" SS							

DRILLING CONTR WTD Enviornmental Drilling

SL 15565

LOGGED BY M. Mc Collach DATE 10/31/91 CHK'D BY DT

SOIL BOREHOLE LOG

SITE NAME AND LOCATION: W M Chemical Services, Inc. Chicago Incinerator Chicago, IL.	DRILLING METHOD: 6" Mud Rotary	BORING NO. D-1
	SAMPLING METHOD: 2", 2 1/2", and 3" OD Split-spoon with a 300 lb. hammer	SHEET 5 OF 6
		DRILLING START TIME 7:00AM / FINISH TIME 12:00PM
	WATER LEVEL / TIME / DATE / CASING DEPTH	DRILLING START DATE 10/25/91 / FINISH DATE 11/01/91
DATUM Chicago City ELEVATION 11.5'		
DRILL RIG BK-81	SURFACE CONDITIONS	
ANGLE Vertical BEARING	Crushed gravel	
SAMPLE HAMMER TORQUE FT.-LBS		

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPCIFIC GRAVITY	OTHER TESTS
62	12,14 21,31 83%		Clay, silty, trace fine gravel, little fine to coarse sand, rounded fine to medium sand grains, angular to subangular coarse sand and gravel, hard, slightly moist, low plasticity, grayish brown. (CL) [Glacial Till]	3" SS							
	10,15 21,26 58%			2½" SS			14.0	29	12		G.S.=0/16/39/45
64	10,14 17,19 42%			2" SS							
66	10,14 16,28 83%			3" SS							
68	12,14 26,35 75%			2½" SS							
70	9,12 21,30 4%			2" SS							
72	21,49 44, 100/4 73%		Some sand, some fine gravel, subrounded sand, angular gravel-weathered clasts of bedrock.	3" SS			9.2	23	8		G.S.=23/24/53
74	12,29 48,73			2" SS							

DRILLING CONTR WID Enviornmental Drilling

SI 15566

LOGGED BY M. MC Colloch

DATE 10/31/91 CHK'D BY DTH

SOIL BOREHOLE LOG

SITE NAME AND LOCATION W M Chemical Services, Inc. Chicago Incinerator Chicago, IL.	DRILLING METHOD: 6" Mud Rotary to 77'	BORING NO. D-1 SHEET 6 OF 6
	SAMPLING METHOD: 10' NX Core Barrel	DRILLING START: TIME 7:00AM, DATE 10/25/91 FINISH: TIME 12:00PM, DATE 11/1/91
	WATER LEVEL / TIME / DATE / CASING DEPTH	
DATUM Chicago City ELEVATION 11.5'		
DRILL RIG BK-81	SURFACE CONDITIONS Crushed Gravel	
ANGLE Vertical BEARING		
SAMPLE HAMMER TORQUE FT.-LBS		

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
76	83% 24 100/2			2" SS 2" SS							
78	100%		Bedrock encountered at 77' Dolomite, argillaceous, greenish to light gray, soft, massive bedding, overall fresh rock, top 1' has pitted surface, slightly weathered towards top, fine grained texture. 3" of shaley laminations at 84', recovered in length less than 1". Remaining core recovered in lengths between 10" and 35" 30" on average. Overall fractures are horizontal fresh breaks (mechanical). Recovery: 106.5" / 120.0" = 88.8% RQD: 103.5" total > 4" 103.5" / 120.0" = 86.3%								
80											
82											
84											
86											
88			EOB @ 87' 11/1/91. Abandoned with bentonite -cement grout 11/1/91								

DRILLING CONTR

OGGED BY M. Mc Culloch

SOIL BOREHOLE LOG

SITE NAME AND LOCATION WM Chemical Services, Inc. Chicago Incinerator Chicago, IL.	DRILLING METHOD: Mud Rotary 9 7/8" tricone roller bit 0 - 15' 4" OD SSA SAMPLING METHOD: 2", 2½', and 3" OD Split-spoons with a 300 lb hammer.	BORING NO. D-2 SHEET 1 OF 6

					DRILLING START	DRILLING FINISH
WATER LEVEL						
TIME					10:00AM	12:00PM
DATE					10/15/91	10/18/91
CASING DEPTH						

DATUM Chicago City ELEVATION 9.4'

DRILL RIG BK-81 SURFACE CONDITIONS Parking lot island

ANGLE Vertical BEARING

SAMPLE HAMMER TORQUE FT.-LBS

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
2			No samples collected from 0 - 15'. See Boring Log D-2X for description of fill material.								
4											
6											
8											
10			[9 7/8" Mud Rotary to 14' 8", casing to 15', 10/16/91. Drilled to 15' with 3 1/4" ID MSA, and began sampling at 15']								
12			Clay - fill contact at 15'								
14											

DRILLING CONTR WM Environmental Drilling

SL 15568

LOGGED BY D. Trainor CHK'D BY DTA

DATE 10/15/91

SOIL BOREHOLE LOG

SITE NAME AND LOCATION: CWM Chemical Services, Inc. Chicago Incinerator Chicago, IL.

DRILLING METHOD: 4" OD SSA

SAMPLING METHOD: 2", 2½', and 3" OD Split-spoon with a 300 lb. hammer

BORING NO.: D-2

SHEET: 2 OF 6

WATER LEVEL				
TIME				
DATE				
CASING DEPTH				

DRILLING: START TIME 10:00AM DATE 10/15/91; FINISH TIME 12:00PM DATE 10/18/91

DATUM Chicago City ELEVATION 9.4'

DRILL RIG BK-81

ANGLE Vertical BEARING

SAMPLE HAMMER TORQUE FT.-LBS

SURFACE CONDITIONS: Parking lot island

DRILLING CONTR

LOGGED BY D. Trainor

WTD Enviornmental Drilling

S 15569

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPCIFIC GRAVITY	OTHER TESTS
16	4,3 10,15 75%		Clay, silty, very stiff, moist, low to moderate plasticity, varved, gray with mottling, contains some plant roots. (CL) [Lacustrine]	3" SS							
18	100%			ST			19.9	35	16		G.S.=6/11/30/53
20	6,11 14,21 25%			3" SS							
22	1,7 14,18 33%		Trace gravel, less mottling, fewer varves.	2½" SS							
24	5,9 11,23 100%		Hard to very stiff at 25'.	2" SS							
26	11,12 17,21 100%		Clay, silty, trace gravel, very stiff, moist, low plasticity, grayish brown. (CL) [Lacustrine]	3" SS							
28	100%			ST			16.1	36	17		G.S.=0/10/32/58
	5,7 9,15			3" SS							

SOIL BOREHOLE LOG

SITE NAME AND LOCATION	DRILLING METHOD:	BORING NO.
IM Chemical Services, Inc. Chicago Incinerator Chicago, IL.	3 1/4" ID HSA	D-2
	SAMPLING METHOD: 2", 2½", and 3" OD Split-spoon with a 300 lb. hammer	SHEET 3 OF 6

					DRILLING START	DRILLING FINISH
WATER LEVEL					TIME	TIME
TIME					10:00AM	12:00PM
DATE					DATE	DATE
CASING DEPTH					10/15/91	10/08/91

DATUM Chicago City ELEVATION 9.4'

DRILL RIG BK-81

ANGLE Vertical BEARING

SAMPLE HAMMER TORQUE FT.-LBS

SURFACE CONDITIONS: Parking lot island

DEPTH IN FEET (ELEVATION)	BLOWS/ 6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPCIFIC GRAVITY	OTHER TESTS
	0%		Clay, silty, very stiff, moist, low plasticity, grayish brown. (CL) [Lacustrine]	3" SS							
32	8,19 27,28 100%			2½" SS							
34	12,24 39,46 100%		Silty clay, trace gravel, some fine to coarse sand, hard, slightly moist, low plasticity, massive structure, grayish brown (CL-ML). [Glacial Till] Thin sand seams (8-10mm) between 35 to 36', and between 39.5 to 40'.	2" SS							
36	15,24 43,30 100%			3" SS			11.0	23	5		G.S.=2/33/65
38	37,9 11,17 83%			2½" SS							
40	7,10 14,17 100%		Clay, silty, trace gravel, some fine to coarse sand grains, rounded fine to medium sand grains, angular to subangular coarse sand and fine gravel, hard, slightly moist, low plasticity, grayish brown. (CL) [Glacial Till]	2" SS							
42	8,9 16,17 100%			3" SS			13.2	26	11		G.S.=1/27/72
44	8,8 11,14 100%			2½" SS							

DRILLING CONTR MTD Environmental Drilling

LOGGED BY D. Trainor

SOIL BOREHOLE LOG

SITE NAME AND LOCATION

WM Chemical Services, Inc.
Chicago Incinerator
Chicago, IL.

DRILLING METHOD: 3 1/4" ID HSA

SAMPLING METHOD: 2", 2½", and 3" OD Split-spoon with a 300 lb. hammer

BORING NO. D-2

SHEET 4 OF 6

DRILLING

	START	FINISH
TIME	10:00AM	12:00PM
DATE	10/15/91	10/18/91

WATER LEVEL	34.5'			
TIME	2:20PM			
DATE	10/16			
CASING DEPTH				

DATUM Chicago City ELEVATION 9.4'

DRILL RIG BK-81

ANGLE Vertical BEARING

SAMPLE HAMMER TORQUE FT.-LBS

SURFACE CONDITIONS: Parking lot island

DRILLING CONTR.

LOGGED BY D. Trainor

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
46	9,16 19,33 100%		Silt, clayey, little sand, hard, slightly moist, low plasticity to non-plastic, massive structure, grayish brown. (ML) [Glacial Till]	2" SS							
48	8,17 22,42 83%			3" SS							
50	15,19 18,33 83%			2½" SS							
52	7,18 32,50 83%		Decreasing sand and gravel content below 51'.	2" SS			14.8	22	3		G.S.=0/10/90
54	12,28 60,55 83%			3" SS							
56	16,21 21,29 83%		Increasing sand and gravel content.	2½" SS							
58	12,18 26,37 75%			2" SS			15.7	20	3		G.S.=0/31/69
	13,25 45,40			3" SS							

SOIL BOREHOLE LOG

SITE NAME AND LOCATION 'M Chemical Services, Inc. .ago Incinerator Chicago, IL.	DRILLING METHOD: 3 1/4" ID HSA SAMPLING METHOD: 2", 2½", and 3" OD Split-spoon with a 300 lb. hammer	BORING NO. D-2 SHEET 5 OF 6
	WATER LEVEL / TIME / DATE / CASING DEPTH	DRILLING START TIME 10:00AM DATE 10/15/91 FINISH TIME 12:00PM DATE 10/18/91
DATUM Chicago City ELEVATION 9.4'		
DRILL RIG BK-81 / D-50	SURFACE CONDITIONS	
ANGLE Vertical BEARING	Parking lot island	
SAMPLE HAMMER TORQUE FT.-LBS		

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPCIFIC GRAVITY	OTHER TESTS
	83%			3" SS							
62	14,19 34,40 75%		Silty clay, trace gravel, little fine to coarse sand, rounded fine to medium sand grains, angular to subangular coarse sand and fine gravel, hard, slightly moist, low plasticity, grayish brown. (CL-ML) [Glacial Till]	2½" SS							
64	9,14 17,33 75%			2" SS							
66	23,21 34,55 100%			3" SS							
68	5,20 27,45 67%		3" seam of gravelly silty clay at 69' (SC-SM).	2½" SS			7.5	20	6		G.S.=5/60/35
70	20,22 45,57 67%			2" SS							
72	22,48 75,100 92%		Becoming siltier.	3" SS							
74	22,30 100			2½" SS							

DRILLING CONTR WTD Environmental Drilling

SI 15572

LOGGED BY M. Mc Colloch

SOIL BOREHOLE LOG

SITE NAME AND LOCATION M Chemical Services, Inc. Chicago Incinerator Chicago, IL.	DRILLING METHOD: 3 1/4" ID HSA SAMPLING METHOD: 2", 2½', and 3" OD Split-spoon with a 300 lb. hammer	BORING NO. D-2 SHEET 6 OF 6

		DRILLING START	DRILLING FINISH
WATER LEVEL		TIME	TIME
TIME		10:00AM	12:00PM
DATE		DATE	DATE
CASING DEPTH		10/15/91	10/18/91

DATUM Chicago City ELEVATION 9.4'

DRILL RIG D-50 | SURFACE CONDITIONS: Parking lot island

ANGLE Vertical BEARING | SAMPLE HAMMER TORQUE FT.-LBS

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
76	38,48 62,78 67%			2" SS			14.2	24	6		G.S.=0/10/90
78	60,73 88, 100/3" 0%		Angular gravel clasts of weathered bedrock.	3" SS							
80	10,64 100,65 42%			2½" SS							
	15,65 100 57%			2" SS							
82			Bedrock encountered at 81½'.								
84			Dolomite, argillaceous, light to greenish gray, soft, massive bedding, overall fresh rock, slightly weathered top, slightly vuggy near top, fine grained texture. 83% of recovered core in lengths greater than 4". Overall fractures are horizontal fresh breaks (mechanical). [Racine Formation]. Driller reports some core may have been left in borehole when core barrel retrieved.								
86			Recovery: 57.6" / 120.0" = 48% RQD: 48" total ≥ 4" 48" / 120" = 40%								
88			EOB @ 91.5' abandoned 10/18/91								

DRILLING CONTR WM Environmental Drilling

SI 5574

LOGGED BY M. Mc Colloch

SOIL BOREHOLE LOG

SITE NAME AND LOCATION

Chemical Services, Inc.
Chicago Incinerator
Chicago, IL.

DRILLING METHOD: Mud Rotary 9 7/8" tricone roller bit 0-14½'. 3 1/4" ID HSA

SAMPLING METHOD: 2", 2½", and 3" OD SS with a 300 lb. hammer

BORING NO. D-3

SHEET 1 OF 6

DRILLING START TIME 11:30AM DATE 11/14/91

DRILLING FINISH TIME 3:30PM DATE 11/21/91

WATER LEVEL	
TIME	
DATE	
CASING DEPTH	

DATUM Chicago City ELEVATION 9.3'

DRILL RIG BK-81

ANGLE Vertical BEARING

SAMPLE HAMMER TORQUE FT.-LBS

SURFACE CONDITIONS: Asphalt

DRILLING CONTR WTD Enviornmental Drilling

SL 15575

LOGGED BY M. Mc Culloch DATE 11/14/91 CHK'D BY

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
2			No samples collected from 0-22'. See boring log G-347 for description of fill material								
4											
6											
8											
10											
12											
14			Clay fill contact at 14 - 14½'.								

Printed on recycled paper

SOIL BOREHOLE LOG

SITE NAME AND LOCATION: NM Chemical Services, Inc. Chicago Incinerator Chicago, IL.	DRILLING METHOD: 3 1/4" ID HSA	BORING NO. D-3
	SAMPLING METHOD: 2", 2½", and 3" OD Split-spoon with a 300 lb. hammer	SHEET 2 OF 6
		DRILLING START TIME 11:30AM / FINISH TIME 3:00 PM
	WATER LEVEL / TIME / DATE / CASING DEPTH	DRILLING START DATE 11/14/91 / FINISH DATE 11/21/91
DATUM Chicago City ELEVATION 9.3'		
DRILL RIG BK-81	SURFACE CONDITIONS Asphalt	
ANGLE Vertical BEARING		
SAMPLE HAMMER TORQUE FT.-LBS		

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPCIFIC GRAVITY	OTHER TESTS
16			[9 7/8" Mud Rotary to 14½', 8" casing set to 18', 11/14/91. Wood plug removed 11/19/91. Drilled to 22' with 3 1/4" ID HSA, and began sampling]								
18											
20											
22	100%		Clay, silty, very stiff, moist, moderate plasticity, light gray. (CL) [Lacustrine]	ST			23.1	36	19		G.S.=1/5/94
24	5,8 8,10 83%			3" SS							
26	2,3 6,8 83%			2½" SS							
28	2,3 6,8 50%			2" SS							

DRILLING CONTR WTD Enviornmental Drilling

SI 15576

LOGGED BY M. Mc Colloch

SOIL BOREHOLE LOG

SITE NAME AND LOCATION

VM Chemical Services, Inc.
Chicago Incinerator
Chicago, IL.

DRILLING METHOD: 3 1/4" ID HSA

SAMPLING METHOD: 2", 2½", and 3" OD
Split-spoon, with a 300 lb. hammer

BORING NO. D-3

SHEET 3 OF 6

					DRILLING START	DRILLING FINISH
WATER LEVEL					TIME	TIME
TIME					11:30AM	3:00PM
DATE					DATE	DATE
CASING DEPTH					11/14/91	11/21/91

DATUM Chicago City ELEVATION 9.3'

DRILL RIG BK-81

ANGLE Vertical BEARING

SAMPLE HAMMER TORQUE FT.-LBS

SURFACE CONDITIONS: Asphalt

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPCIFIC GRAVITY	OTHER TESTS
32	4,10 11,15 50%			3" SS			20.0	37	18		G.S.=1/7/92
	6,10 12,14 88%		Silty clay, trace gravel, some fine to medium sand, hard, moist, low plasticity, uniform, grayish brown (CL-ML) [Lacustrine].	2½" SS							
34	5,10 16,14 50%		1" seam of fine silty sand at 33'.	2" SS							
36	6,11 13,15 100%			3" SS			13.1	23	5		G.S.=1/25/74
38	7,12 14,17 75%			2½" SS							
40	10,12 15,19 50%		Clay, silty, trace fine gravel, some fine to coarse sand, rounded fine to medium sand grains, angular to subangular coarse sand and fine gravel, hard, slightly moist, grayish brown (CL) [Glacial Till]	2" SS							
42	6,7 14,17 83%			3" SS			12.8	24	8		G.S.=2/27/71
44	8,12 14,17			2½" SS							

DRILLING CONTR. WTD Enviornmental Drilling

SI 15577

LOGGED BY M. Mc Colloch

DATE 11/19/91

CHKD BY DTD

SOIL BOREHOLE LOG

SITE NAME AND LOCATION: NM Chemical Services, Inc. Chicago Incinerator Chicago, IL.	DRILLING METHOD: 3 1/4" ID HSA	BORING NO. D-3
	SAMPLING METHOD: 2," 2½", and 3" OD Split-spoon with a 300 lb., hammer	SHEET 4 OF 6
	WATER LEVEL / TIME / DATE / CASING DEPTH	DRILLING START: TIME 11:30AM, DATE 11/14/91 — FINISH: TIME 3:30PM, DATE 11/21/91
DATUM Chicago City ELEVATION 9.3'		
DRILL RIG BK-81	SURFACE CONDITIONS: Asphalt	
ANGLE Vertical BEARING		
SAMPLE HAMMER TORQUE FT.-LBS		

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
46	50%		Clay, silty, trace fine gravel, some fine to coarse sand, rounded fine to medium sand grains, angular to subangular coarse sand and fine gravel, hard, slightly moist, grayish brown. (CL) [Glacial Till]	2½" SS			11.2	24	8		G.S.=4/31/65
	3,6 12,16 67%			2" SS							
48	5,9 14,30 83%			3" SS							
50	12,19 20,25 67%			2½" SS							
52	4,12 14,30 50%			2" SS							
54	8,30 50,52 83%		Becoming harder.	3" SS							
56	18,24 28,35 83%			2½" SS							
58	18,29 28,35 67%			2" SS							

DRILLING CONTR WTD Enivornmental Drilling

SI 5578

LOGGED BY M. Mc Colloch

ATE 11/19/91

SOIL BOREHOLE LOG

SITE NAME AND LOCATION

C W M Chemical Services, Inc.
Chicago Incinerator
Chicago, IL.

DRILLING METHOD: 3 1/4" ID HSA

SAMPLING METHOD: 2", 2½", and 3" OD Split-spoon with a 300 lb. hammer.

BORING NO. D-3

SHEET 5 OF 6

DRILLING

	START	FINISH
WATER LEVEL		
TIME	TIME 11:30AM	TIME 3:00PM
DATE	DATE 11/14/91	DATE 11/21/91
CASING DEPTH		

DATUM Chicago City ELEVATION 9.3'

DRILL RIG BK-81

ANGLE Vertical BEARING

SAMPLE HAMMER TORQUE FT.-LBS

SURFACE CONDITIONS: Asphalt

DEPTH IN FEET (ELEVATION)	BLOWS/6 IN ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
62	12,17 19,28 92%		Clay, silty, trace fine gravel, some fine to coarse sand, rounded fine to medium sand grains, angular to subangular coarse sand and fine gravel, hard, slightly moist, grayish brown. (CL) [Glacial Till]	3" SS							
	12,15 79,24 88%			2½" SS							
64	12,25 29,45 75%			2" SS							
66	13,24 31,62 100%			3" SS							
68	13,26 33,45 75%			2½" SS							
70	10,18 39,52 75%			2" SS							
72	10,18 35,36 100%			3" SS							
74	57,94 100/4"			2½" SS							

WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPECIFIC GRAVITY	OTHER TESTS
10.9	25	8	G.S.=1/23/76	G.S.=2/24/74

DRILLING CONTR WMD Enviornmental Drilling

SL 15580

LOGGED BY M M. Mc Colloch

DATE 11/19/91 11/19/91 CHK'D BY DD

Printed on recycled paper

SOIL BOREHOLE LOG

SITE NAME AND LOCATION	DRILLING METHOD:	BORING NO.
C W M Chemical Services, Inc. Chicago Incinerator 'cago, IL.	3 1/4" ID HSA to 76'	D-3
	SAMPLING METHOD: 10' NX Core Barrel, Clear Water	SHEET 6 OF 6

					DRILLING START	DRILLING FINISH
WATER LEVEL					TIME	TIME
TIME					11:30AM	3:30PM
DATE					DATE	DATE
CASING DEPTH					11/14/91	11/21/91

DATUM Chicago City ELEVATION 9.3'

DRILL RIG BK-81

ANGLE Vertical BEARING

SAMPLE HAMMER TORQUE FT.-LBS

SURFACE CONDITIONS: Asphalt

DEPTH IN FEET (ELEVATION)	BLOWS/ 6 IN. ON SAMPLER (RECOVERY)	SYMBOL	SAMPLE NUMBER AND DESCRIPTION OF MATERIAL	SAMPLER AND BIT	CASING TYPE	BLOWS/FOOT ON CASING	TEST RESULTS: WATER CONTENT %	LIQUID LIMIT %	PLASTIC LIMIT %	SPCIFIC GRAVITY	OTHER TESTS
76	100/4"		Bedrock encountered at 76'	2½" SS							
78 80 82 84 86			Dolomite, argillaceous, light to greenish gray, soft, massive bedding, overall fresh rock, slightly weathered top 2'. Clay filled fractures top 1½', closed vertical fractures (1mm) present. Fine grained texture. 63% of recovered core recovered in lengths greater than 4". Recovered core ranges from 2½" to 18". Overall fractures are horizontal fresh breaks (mechanical). [Racine Formation] Recovery: $\frac{75.0"}{120.0"} = 62.3\%$ RQD: 47" total 4" $\frac{47.0"}{120.0"} = 39.2\%$								
88			EOB @ 86', 11/21/91. Borehole abandoned 11/21/91. Bentonite cement grout.								

DRILLING CONTR WTD Enviornmental Drilling

L 15583

LOGGED BY M. Mc Colloch

DATE 11/20/91 CHK'D BY DJ

C

Manufactured By EconoPrint, Inc., Madison, WI

Printed On Recycled Paper

APPENDIX C
WELL LOGS WITHIN ONE MILE RADIUS

PRODUCTION WELL 1
(SEE FIGURE 2-4 FOR LOCATION)

White Co
Ill. Dr... Public Health
Yellow Copy – Well Contractor
Blue Copy – Well Owner

INSTRUCTIONS TO DRILLERS

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, BUREAU OF ENVIRONMENTAL HEALTH, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62701. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

12" - 80'
7-7/8"-200

1. Type of Well
   a. Dug ____. Bored ____. Hole Diam. 5-7/8 in. Depth 500 ft.
   Curb material ____. Buried Slab: Yes ____ No ____
   b. Driven ____. Drive Pipe Diam. ____ in. Depth ____ ft.
   c. Drilled x. Finished in Drift ____. In Rock x.
   Tubular ____. Gravel Packed ____.
   d. Grout:

(KIND)	FROM (FT.)	TO (FT.)

2. Distance to Nearest:
   Building 10+ Ft. Seepage Tile Field 75+
   Cess Pool ____ Sewer (non Cast iron) ____
   Privy ____ Sewer (Cast iron) ____
   Septic Tank 50+ Barnyard ____
   Leaching Pit ____ Manure Pile ____
3. Is water from this well to be used for human consumption?
   Yes ____ No x
4. Date well completed 10-10-84
5. Permanent Pump Installed? Yes x No ____
   Manufacturer ~~Rock Lake~~ Grundfos Submersible
   Capacity 40 gpm. Depth of setting 189 ft.
6. Well Top Sealed? Yes ____ No ____
7. Pitless Adaptor Installed? Yes XX No ____
8. Well Disinfected? Yes X No ____
9. Water Sample Submitted? Yes ____ No X

REMARKS:

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner Chom-Cloar Well No. 2
    Address 11800 S. Stoney Island Ave., Chicago, Ill.
    Driller W. E. Wehling License No. 102-2
11. Permit No. 114806 Date 9-14-84
12. Water from ____ Formation at depth ____ to ____ ft.
13. County Cook
    Sec. 24
    Twp. 37N
    Rge. 14E
    Elev. ____
14. Screen: Diam. ____ in.
    Length: ____ ft. Slot ____
    500'S 95'E NW/c SW
15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
8"	black steel	+1	80
6"	Slotted PVC	80	120

SHOW LOCATION IN SECTION PLAT
500'S 95'E [illegible] NW/c SW [illegible]

16. Size Hole below casing: 5-7/8 in.
17. Static level 81 ft. below casing top which is ____ ft. above ground level. Pumping level ____ ft. when pumping at ____ gpm for ____ hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Clay and Sand	80	80
Broken Lime	7	87
Lime	413	500

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED [signature] DATE 10-17-84

IDPH 4,065
10-72
KND-1

PRODUCTION WELL 2

(SEE FIGURE 2-4 FOR LOCATION)

White Copy – Ill. Dept. of Public Health
Yellow Copy – Well Contractor
Blue Copy – Well Owner

INSTRUCTIONS . DRILLERS

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1. Type of Well
   a. Dug ____. Bored ____. Hole D[illegible] in. Depth 150 ft.
   Curb material ____. Buried [illegible] No ____
   b. Driven ____. Drive Pipe Di[illegible] in. Depth ____ ft.
   c. Drilled X. Finished in D[illegible]. In Rock X.
   Tubular ____. Gravel Packed [illegible]
   d. Grout:

(KIND)	[illegible]	TO (Ft.)
grout cement		top

2. Distance to Nearest:
   Building 10+ Ft. Seepage Tile Field 75+
   Cess Pool ____ Sewer (non Cast Iron) ____
   Privy ____ Sewer (Cast Iron) ____
   Septic Tank 50+ Barnyard ____
   Leaching Pit ____ Manure Pile ____
3. Well furnishes water for human consumption? Yes X No ____
4. Date well completed 4-6-81
5. Permanent Pump Installed? Yes X Date 4-17-81 No ____
   Manufacturer Red Jacket Type Sub Location in well
   Capacity 28 gpm. Depth of Setting 126 Ft.
6. Well Top Sealed? Yes ____ No ____ Type ____
7. Pitless Adapter Installed? Yes ____ No ____
   Manufacturer Baker Model Number ____
   How attached to casing? Cement [illegible] gasketed & bolts
8. Well Disinfected? Yes X No ____
9. Pump and Equipment Disinfected? Yes X No ____
10. Pressure Tank Size ____ gal. Type ____
    Location ____
11. Water Sample Submitted? Yes ____ No ____

REMARKS:

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner Chem-Clear, Inc Well No. ____
    Address 117th & Stony Island, Chicago, Ill.
    Driller Wendell E. Wehling License No. 102-2
11. Permit No. 97818 Date 12-12-80
12. Water from Lime (Formation) 13. County Cook
    at depth ____ to ____ ft. Sec. 24 [illegible]
14. Screen: Diam. ____ in. Twp. 37N
    Length: ____ ft. Slot ____ Rge. 14E
    165'S 95'E NW SW Elev. ____

SHOW LOCATION IN SECTION PLAT

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
6	black steel	+1	82
	Cemented in place		

16. Size Hole below casing: 5-7/8 in.
17. Static level 30 ft. below casing top which is ____ ft. above ground level. Pumping level 68 ft. when pumping at 40 gpm for 7 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Fill	15	15
rocks & clay	3	18
Clay	64	82
Gray and brown Lime	68	150

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED [signature] DATE 5-22-81

IDPH 4.065
1/74 – KNB-1

PRODUCTION WELL 3

(SEE FIGURE 2-4 FOR LOCATION)

White Copy – Ill. Dept. of Public Health
Yellow Copy – Well Contractor
Blue Copy – Well Owner

INSTRUCTIONS TO DRILLERS

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1. Type of Well
   a. Dug ____. Bored ____. Hole Diam. 6 in. Depth 300 ft.
   Curb material ____. Buried Slab: Yes ____ No ____
   b. Driven ____. Drive Pipe Diam. 6 in. Depth 98 ft.
   c. Drilled x. Finished in Drift ____. In Rock x.
   Tubular ____. Gravel Packed ____.
   d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)

2. Distance to Nearest:
   Building +10 Ft. Seepage Tile Field +75
   Cess Pool ____ Sewer (non Cast Iron) ____
   Privy ____ Sewer (Cast Iron) ____
   Septic Tank +50 Barnyard ____
   Leaching Pit ____ Manure Pile ____
3. Well furnishes water for human consumption? Yes x No ____
4. Date well completed 9-9-80
5. Permanent Pump Installed? Yes X Date 10-6-80 No x
   Manufacturer Grundfos Type Salem Location ____
   Capacity 10 gpm. Depth of Setting 273 Ft.
6. Well Top Sealed? Yes x No ____ Type 6x1¼" Milwaukee-T
7. Pitless Adapter Installed? Yes ____ No ____
   Manufacturer ____ Model Number ____
   How attached to casing? ____
8. Well Disinfected? Yes x No ____
9. Pump and Equipment Disinfected? Yes ____ No ____
10. Pressure Tank Size ____ gal. Type ____
    Location ____
11. Water Sample Submitted? Yes ____ No x

REMARKS:

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner Aldurn Co. Well No. ____
    Address 111 Washington St., Chicago, IL
    Driller Richard H. Wehling License No. 102-223
11. Permit No. 95847 Date 8-29-80
12. Water from ____ (Formation) at depth ____ to ____ ft.
13. County Cook
    Sec. 24 C
    Twp. 37N
    Rge. 14E
    Elev. ____
14. Screen: Diam. ____ in.
    Length: ____ ft. Slot ____
    125'S 115'W NE, SE, NE, SW quar
15. Casing and Liner Pipe

Diam. (In.)	Kind and Weight	From (Ft.)	To (Ft.)
6"	Black seamless pipe	+1	98

SHOW LOCATION IN SECTION PLAT
US's NSW NE/L
SE NE SW (2nd.)

16. Size Hole below casing: 5 7/8 in.
17. Static level 25 ft. below casing top which is ____ ft. above ground level. Pumping level 197 ft. when pumping at 10.4 gpm for 15 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Slag	8	8
Fill	12	20
Clay	2	22
Fill	1	23
Fill	7	30
Clay	57	87
Rock & Clay	9	96
Good rock	2	98
Lime	202	300

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Richard H. Wehling DATE 10-3-80
WEHLING WELL WORKS, INC.

IDPH 4.065
1/74 – KHB-1

PRODUCTION WELL 4

(SEE FIGURE 2-4 FOR LOCATION)

White Copy – Ill. Dept. of Public Health
Yellow Copy – Well Contractor
Blue Copy – Well Owner

INSTRUCTIONS TO DRILLERS

FILL IN ALL PERTINENT INFORMATION REQUIRED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, ROOM 616, STATE OFFICE BUILDING, SPRINGFIELD, ILLINOIS, 62706. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1. Type of Well
   a. Dug____. Bored____. Hole Diam. 5 in. Depth 260 ft.
   Curb material _____. Buried Slab: Yes_____ No_____
   b. Driven _____. Drive Pipe Diam. _____ in. Depth _____ ft.
   c. Drilled _____. Finished in Drift _____. In Rock X.
   Tubular _____. Gravel Packed _____.
   d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)

2. Distance to Nearest:
   Building _____ Ft. Seepage Tile Field _____
   Cess Pool _____ Sewer (non Cast Iron) _____
   Privy _____ Sewer (Cast Iron) _____
   Septic Tank _____ Barnyard _____
   Leaching Pit _____ Manure Pile _____
3. Is water from this well to be used for human consumption?
   Yes X No_____
4. Date well completed Sept. 15, 1972
5. Permanent Pump Installed? Yes_____ No X
   Manufacturer _____ Type _____
   Capacity _____ gpm. Depth of setting _____ ft.
6. Well Top Sealed? Yes X No_____
7. Pitless Adaptor Installed? Yes_____ No_____
8. Well Disinfected? Yes X No_____
9. Water Sample Submitted? Yes_____ No X

REMARKS:

IDPH 4.065
10/68

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner [illegible] Well No. 1
    Address [illegible]
    Driller [illegible] License No. [illegible]
11. Permit No. [illegible] Date 1-3-72
12. Water from _____ (Formation)
    at depth _____ to _____ ft.
13. County [illegible]
14. Screen: Diam. _____ in.
    Length: _____ ft. Slot _____
    [illegible]
15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5	[illegible]	0	91

Sec. 21, 22
Twp. 27N
Rge. 11E
Elev. _____

SHOW LOCATION IN SECTION PLAT

16. Size Hole below casing: _____ in.
17. Static level _____ ft. below casing top which is _____ ft. above ground level. Pumping level _____ ft. when pumping at _____ gpm for _____ hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Drift	89	89
Rock	171	260

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED [illegible] Drilling Well Works, Inc. DATE 1/21/72

PRODUCTION WELL 5

(SEE FIGURE 2-4 FOR LOCATION)

John C. Moore Corporation, Rochester, N. Y. Binder and holes in leaves, each Patented 1906.

TOWN TOWNSHIP Map No. 23

COMPANY By Products Coke Corp. R. 14E

FARM Coke Oven Plant No. 1 T 37 N Sec. 13

AUTHORITY (South of Power House)

ELEVATION 12.714 (Floor elevation)

COLLECTOR DATE DRILLED Started 11-6-16 E½ SE

CONFIDENTIAL

112th & Torrence, South Chicago

No.	STRATA	Thickness Feet	Thickness In.	Depth Feet	Depth In.
	Sand	23		23	
	Clay, white	25		48	
	Sand and gravel mixed with clay	46	5	94	5
	Limestone, Note: drill lost in well Jan. 23, 1917 in St. Peter sandstone at a depth of 1050 ft. - drill removed June 6, 1917; well was complete to 1613 ft. Sept. 16, 1917	415	7	510	
	Slate	5		515	
	Limestone	45		560	
	Shale	130		690	
	Limestone	312		1002	
	St. Peter sandstone	243		1245	
	Sand, red	30		1275	
	Limestone, cave	25		1300	
	Red rock and shale in layers	125		1425	
	Potsdam sands	235		1660	
	Potsdam, soft	30		1690	
	Limestone	43		1733	
	657'6" of 6" pipe	2-lead plugs 18' long pounded tight in 10" hole at 1610			
	16" OD pipe at 48'				
	3/8" wall				
	[illegible]	Well shot in soft Potsdam with 20 qts. nitro-glycerine			
	[illegible]				
	[illegible]				

COOK

County Index No. 2313

T.—DRILL RECORD

Illinois Geological Survey, Urbana.

PRODUCTION WELL 6

(SEE FIGURE 2-4 FOR LOCATION)

John C. Moore Corporation, Rochester, N. Y. Binder and holes in leaves, each Patented 1906.

TOWN So. Chicago TOWNSHIP Map No. 23

COMPANY Coke Oven Plant Well #2 R. 14E

FARM By Products Coke Corporation T 37 N Sec. 13

AUTHORITY E½ SE

ELEVATION

COLLECTOR DATE DRILLED

CONFIDENTIAL

112th & Torrence Ave

No.	STRATA	Thickness Feet	Thickness In.	Depth Feet	Depth In.
	Pleistocene and recent				
	Sand	20		20	
	Clay and gravel	90	6	110	6
	Silurian, Niagaran&Alexandrian				
	Limestone, gray	189	6	300	
	Limestone, white	200		500	
	Limestone, brown	60		560	
	Ordovician-Maquoketa shale				
	Shale	115		675	
	Galena-Platteville				
	Limestone, brown	325		1000	

County COOK Index No. 2313

T.—DRILL RECORD

Illinois Geological Survey, Urbana.

PRODUCTION WELL 7

(SEE FIGURE 2-4 FOR LOCATION)

John C. Moore Corporation, Rochester, N. Y. Binder and holes in leaves, each Patented 1908.

TOWN Chicago TOWNSHIP

Map No. 23

COMPANY Sherwin-Williams Paint Co. No.

R. 14E

FARM 116th St. + Stephenson No.

37 T

Sec. 22

AUTHORITY J. P. Miller Co.

N

ELEVATION CBA

COLLECTOR

DATE DRILLED 1907

CONFIDENTIAL

No.	STRATA	Thickness Feet	Thickness In.	Depth Feet	Depth In.
	Clay, sand, gravel	74		74	
	Limestone	406		480	
	Shale	132		612	
	Limestone	312		924	
	Sandstone	121		1045	
	Limestone & shale "cave"	34		1079	
	Limestone	306		1385	
	Shale, sandy	90		1475	
	Limestone	15		1490	
	Sandstone	137		1627	
	Limestone	7		1634	

SS. 4-8-26

County Cook

Index No. 2322

T.—DRILL RECORD

Illinois Geological Survey, Urbana.

D

Manufactured By EconoPrint, Inc., Madison, WI

Printed On Recycled Paper

APPENDIX D
WELL CONSTRUCTION, PHASE I

Well No. [illegible]

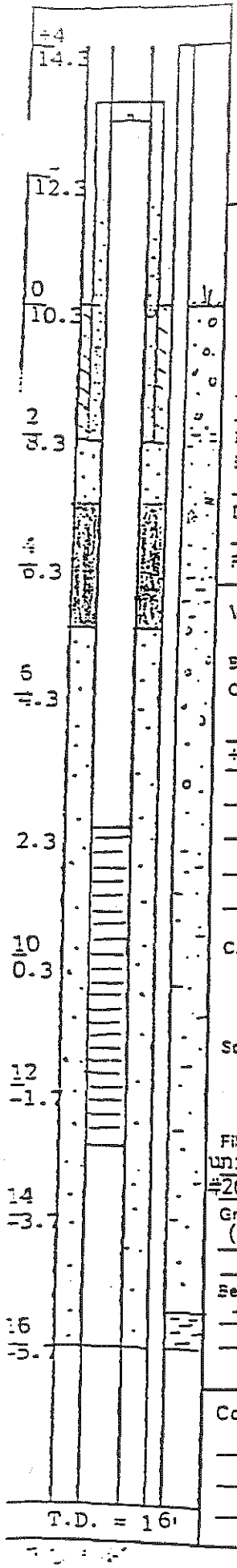
Boring No. X-Ref: _____

MONITOR WELL CONSTRUCTION SUMMARY

Survey Coords: _____

Elevation Ground Level 10.3'

Top of Casing 12.82'



Drilling Summary:

Total Depth 16'

Borehole Diameter 8" dia. auger

Casing Stick-up Height: 2.52'

Driller Atec - Dennis Sheffield

Rig B-57

Bit(s) Hollow Stem Auger

Drilling Fluid None

Protective Casing Steel

Construction Time Log:

Task	Start Date	Start Time	Finish Date	Finish Time
Drilling	10/10/89	1450	10/11	1130
Geophys. Logging:				
Casing:				
Filter Placement:				
Cementing:				
Development:	10/30		11/10	

Well Design & Specifications

Basis: Geologic Log X Geophysical Log ___

Casing String (s): C = Casing S = Screen.

Depth	String(s)	Elevation
+2.5' - 8'	C1	12.82' - 2.3'
8' - 13'	S1	2.3' - -2.5'

Casing: C1 2" PVC

C2

Screen: S1 2" PVC - #10 Slot

S2

Filter Pack: Sand retained on #20 - uniformly graded between #10 and #20 (5'-16')

Grout Seal: Type 2 Portland cement (0-2')

Bentonite Seal: Bry bentonite pellets - hydrated (3-5')

Well Development:

Well Volume (WV) = 19.3

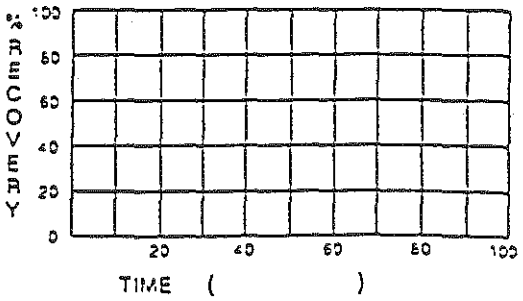
Pumped ~ 25 gal/2.25 hrs using suction from rig

Stabilization Test Data:

Time	pH	Spec. Cond.	Temp (C)
Initial	8.5	1950	11.4
0.25	8.52	2130	8.7

Recovery Data:

Q= S_o=



Comments: Well pumped dry

SITE NAME CWM Chicago

LOCATION

SUPERVISED BY Terry Calloway 10/17/89

DATE

Well No. G-105

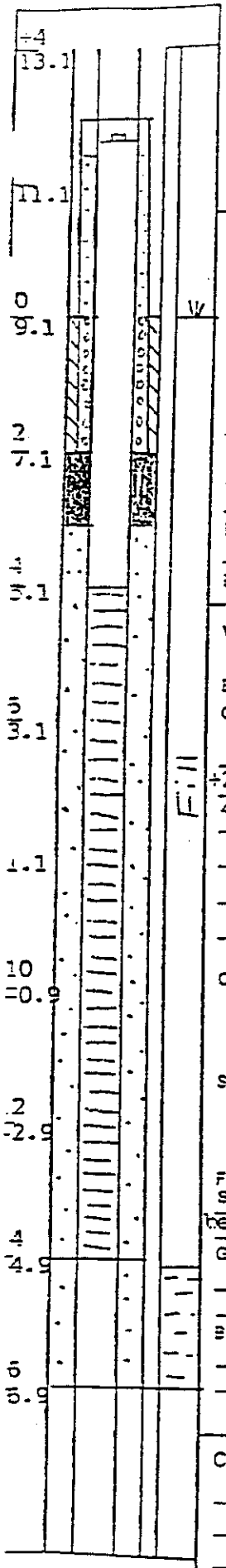
Boring No. X-Ref:

MONITOR WELL CONSTRUCTION SUMMARY

Survey Coords:

Elevation Ground Level 9.1'

Top of Casing 11.48'



Drilling Summary:

Total Depth 16'

Borehole Diameter 8" auger → 9"

Casing Stick-up Height: 2.38'

Driller Atex - Dennis Sheffield

Rig B57

Bit(s) Hollow stem auger

Drilling Fluid None

Protective Casing Steel.

Construction Time Log:

Task	Start Date	Start Time	Finish Date	Finish Time
Drilling	9/22	1020	9/22	1400
Geophys. Logging:				
Casing:				
Filter Placement:				
Cementing:				
Development:	11/2		11/2	

Well Design & Specifications

Basis: Geologic Log X Geophysical Log ___

Casing String (s): C = Casing S = Screen.

Depth	String(s)	Elevation
+2.4' - 4'	C1	11.48' - 5.1'
4' - 14'	S1	5.1' - -4.9'

Casing: C1 2" PVC

C2

Screen: S1 2" PVC - #10 Slot

S2

Filter Pack: Sand retained on #20 sieve. Uniformly graded between #10 - #20 (3-16')

Grout Seal: Type 2 Portland cement (0-2')

Bentonite Seal: Dry bentonite pellets - hydrated (2-3')

Well Development:

Well Volume (WV) = 20.9

Pumped < 10 gal/15 min till dry.

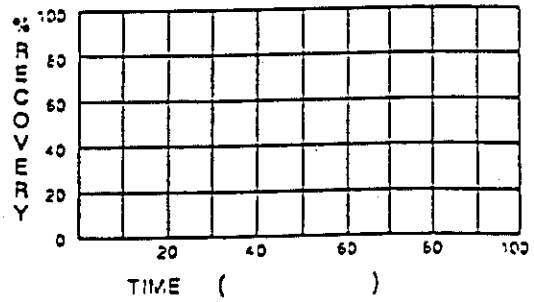
Pumped with suction from rig.

Stabilization Test Data:

Time	pH	Spec. Cond.	Temp (C)
Initial	7.03	3270	15.3

Recovery Data:

Q= S_o=



Comments: Well pumped dry

CWM

SITE NAME

Chicago

LOCATION

SUPERVISED BY Terry Calloway 9/22/89

DATE

Well No. [illegible]

Boring No. X-Ref: _____

MONITOR WELL CONSTRUCTION SUMMARY

Survey Coords: _____

Elevation Ground Level 8.4'

Top of Casing 10.76'

Drilling Summary:

Total Depth 14'0"
Borehole Diameter 8" auger (OD) → 9"
Casing Stick-up Height: 2.36'
Driller D. Cass - Atec

Rig Mobile B-57
Bit(s) Hollow Stem Auger

Drilling Fluid None

Protective Casing Steel

Construction Time Log:

Task	Start Date	Start Time	Finish Date	Finish Time
Drilling	9/20	1015	9/20	1315
Geophys. Logging:				
Casing:				
Filter Placement:				
Cementing:				
Development:	11/9	0925	11/9	1500

CWM — SITE NAME _____ — Chicago — LOCATION _____

Well Design & Specifications

Basis: Geologic Log X Geophysical Log ___
Casing String (s): C = Casing S = Screen.

Depth	String(s)	Elevation
+2.4' - 4.0'	C1	10.76' - 4.4'
4.0' - 14.0'	S1	4.4' - -5.6'

Casing: C1 2" dia PVC

C2 _____

Screen: S1 2" dia PVC (4.0' -14.0' depth) 10 slot

S2 _____

Filter Pack: (2-14' depth) Sand retained on #20, uniformly graded between 10 and 20

Grout Seal: Grout at surface Portland type 2 cement

Bentonite Seal: (0-2' depth) Aquagel Cold seal bentonite

Well Development:

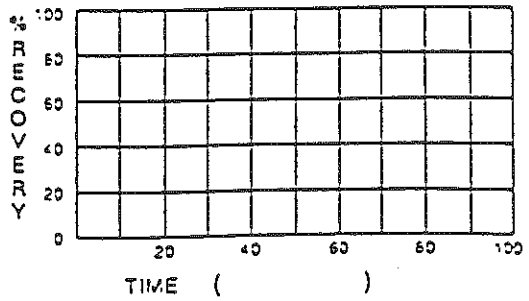
1 Well Volume = 32.7 gals
(Calculated using 9" dia and height of wter column) ~ 41 gals
pumped 5.75 hrs
developed using nitrogen lift

Stabilization Test Data:

Time	pH	Spec. Cond.	Temp (C)
5.75	7.82	1460	7.5

Recovery Data:

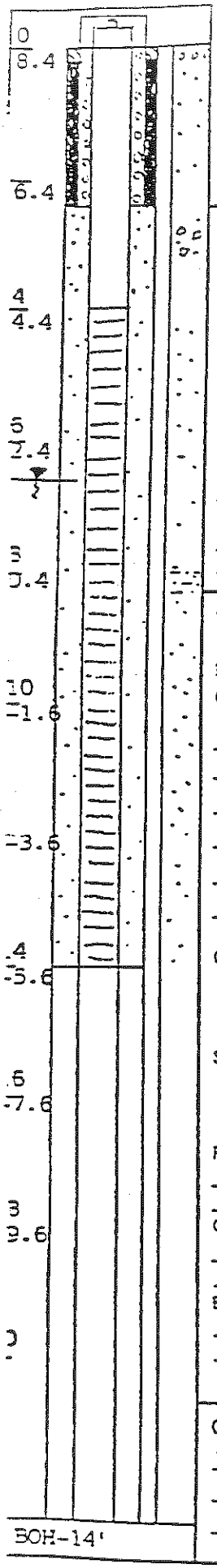
Q= S_o=



SUPERVISED BY Tina Harin 9/20/89

DATE _____

Comments: Dry bentonite pellets inside procover, capped with sand
Well installation overseen by D. Trainor (first well installed in project)
*Grout only at surface due to shallow depth of water table



Well No. G-30?

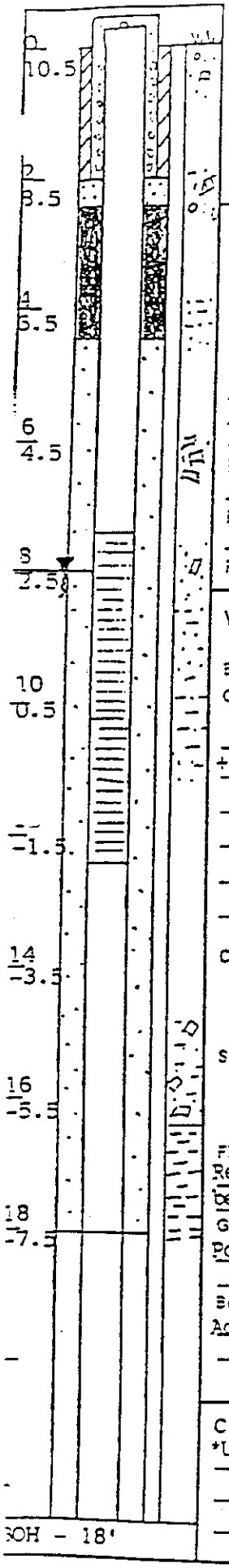
Boring No. X-Ref:

MONITOR WELL CONSTRUCTION SUMMARY

Survey Coords:

Elevation Ground Level 10.5'

Top of Casing 13.29'



Drilling Summary:

Total Depth 18'
Borehole Diameter 8" Auger (OD)
Casing Stick-up Height: 2.79'
Driller D. Cass - Atec

Rig Mobile B-57
Bit(s) Hollow Stem Auger

Drilling Fluid None

Protective Casing Steel

Construction Time Log:

Task	Start Date	Start Time	Finish Date	Finish Time
Drilling	10/16	15:40	10/17	11:00
Geophys. Logging:				
Casing:				
Filter Placement:				
Cementing:				
Development:	10/25	1230	10/25	1730

Well Design & Specifications

Basis: Geologic Log X Geophysical Log ___
Casing String (s): C = Casing S = Screen.

Depth		String(s)	Elevation	
+2.8'	7.5'	C1	13.29'	3.0'
7.5'	12.5	S1	3.0'	-2.0'

Casing: C1 PVC 2" Dia

C2

Screen: S1 2" dia PVC 10 slot (7.5' - 12.5') below surf

S2

Filter Pack: (4.5'-18') from surface
Retained on #20, uniformly graded between #10 and #20

Grout Seal: (0-2') from surface
Portland type 2 cement

Bentonite Seal: (2.5-4.5') from surface
Aquagel gold seal bentonite

Well Development:

Pumped 1 hr dry
Well Volume ~ 21.5 gals
Total pumping - 4 hrs/45 gals

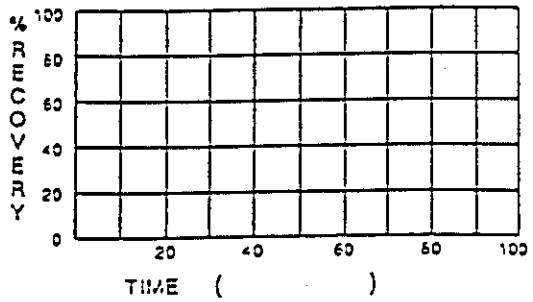
Developed using suction pump of a rig

Stabilization Test Data:

Time	pH	Spec. Cond.	Temp (C)
Initial	9.72	2930	22.2
1 hr	8.76	3350	17.7
75 min	9.30	3100	18.1
25 min	9.02	3310	17.1
80 min	9.43	2570	17.4

Recovery Data:

Q= S_o=



Comments: Dry bentonite pellets inside procover, capped with sand.
*Upper sand pack (2.5'-2.0') below surface.

CWM

SITE NAME Chicago

LOCATION

SUPERVISED BY Tina Harris

DATE 10/17/89

Well No. G-314

Boring No. X-Ref:

MONITOR WELL CONSTRUCTION SUMMARY

Survey Coords:

Elevation Ground Level 9.1'

Top of Casing 11.58'

Drilling Summary:

Total Depth 16.5'

Borehole Diameter 8.63"

Casing Stick-up Height: 2.48'

Driller Dan Cass - Atec

Rig Mobile B-57

Bit(s) 4.25" ID Hollow Stem Auger

Drilling Fluid None

Protective Casing 4" x 5' Steel

Construction Time Log:

Task	Start Date	Start Time	Finish Date	Finish Time
Drilling	9/21	0915	9/21	1030
Geophys.Logging:				
Casing:				
Filter Placement:	9/21	1045	9/21	1110
Cementing:				
Development:	11/3			
	11/6			
	11/10			

Well Design & Specifications

Basis: Geologic Log X Geophysical Log ___

Casing String (s): C = Casing S = Screen.

Depth	String(s)	Elevation
+2.48' - 10.5'	C1	11.58' - -1.4'
10.5' - 15.5'	S1	-1.4' - -6.4'

Casing: C1 2" sch 40 PVC Flush threaded

C2

Screen: S1 2" sch 40 PVC 0.010" slot

S2

Filter Pack: #20 silica sand (16.5' - 6.4')

Grout Seal: Portland Type II Cement and Acuagel Gold Seal Bentonite (6.2-0.0')

Bentonite Seal: 1/4" Volclay bentonite pellets (8.4' - 6.2')

Well Development:

Well Volume = 34.4 gals

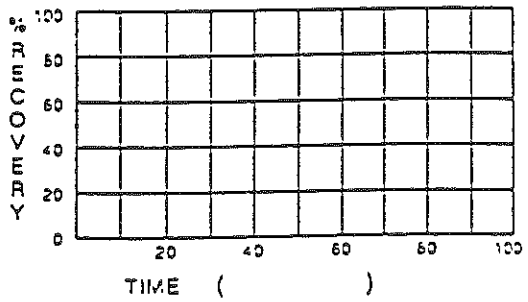
85 gals removed in 7 hrs. 45 mins. of development

Stabilization Test Data:

Time	pH	Spec. Cond.	Temp (C)
2.5 hrs	8.29	5690	

Recovery Data:

Q= S_o=



Comments:

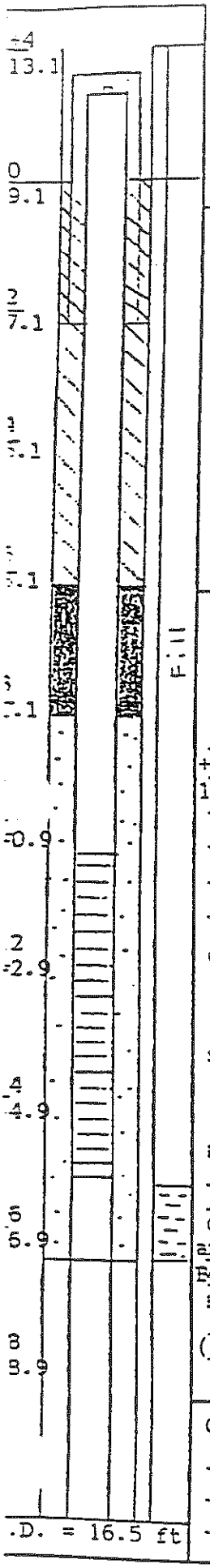
CWM

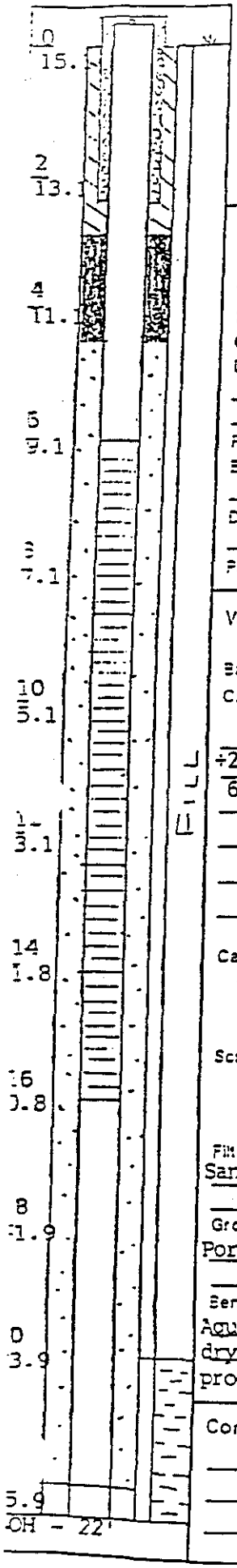
SITE NAME Chicago

LOCATION

SUPERVISED BY Jeff Steiner 9/21/89

DATE





Well No. G31T5

Boring No. X-Ref:

MONITOR WELL CONSTRUCTION SUMMARY

Survey Coords:

Elevation Ground Level 15.1'

Top of Casing 17.76'

Drilling Summary:

Total Depth 22'

Borehole Diameter 8" Auger (OD) → 9"

Casing Stick-up Height: 2.66'

Driller Dan Cass - Atec

Rig Mobile B-57

Bit(s) Hollow Stem Auger Bit

Drilling Fluid None

Protective Casing Steel

Construction Time Log:

Task	Start Date	Start Time	Finish Date	Finish Time
Drilling	10/26	1345	10/26	1650
Geophys. Logging:				
Casing:				
Filter Placement:				
Cementing:				
Development:	11/1	1325	11/1	1430
	11/10	0900	11/10	0935
	11/1	1500	11/1	1525

Well Design & Specifications

Basis: Geologic Log X Geophysical Log ___

Casing String (s): C = Casing S = Screen.

Depth	String(s)	Elevation
+2.66' - 6'	C1	17.76' - 9.1'
6' - 16'	S1	9.1' - 0.9'

Casing: C1 2" dia. PVC

C2

Screen: S1 Depth below surface (6-16')
2" dia. PVC 10 slot

S2

Filter Pack: (6- 22 ') below surface
Sand retained on #20 screen

Grout Seal: (3-0') below surface
Portland type 2 cement

Bentonite Seal: (4 1/2-3') below surface
Aquagel bentonite (gold seal)
dry bentonite pellets inside
procover, capped with sand

Well Development:

1 Well Volume = 30 gals (calc. using 9: dia and water column 112")

Well pumped - ~ 10-15 gals/2 hrs

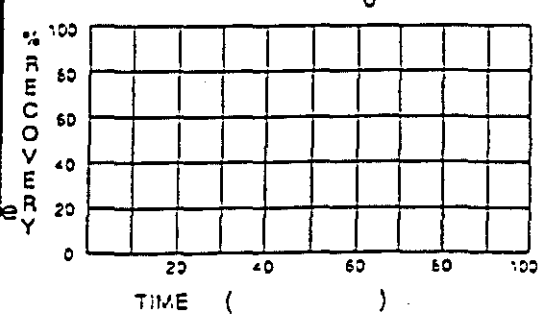
Developed using suction pump off rig.

Stabilization Test Data:

Time	pH	Spec. Cond.	Temp (C)
Initial	12.91	6550	12.91

Recovery Data:

Q= S_o=



Comments:

SITE NAME CWM

LOCATION Chicago

SUPERVISED BY Tina Hariu

DATE 10/26/89

Well No. G316

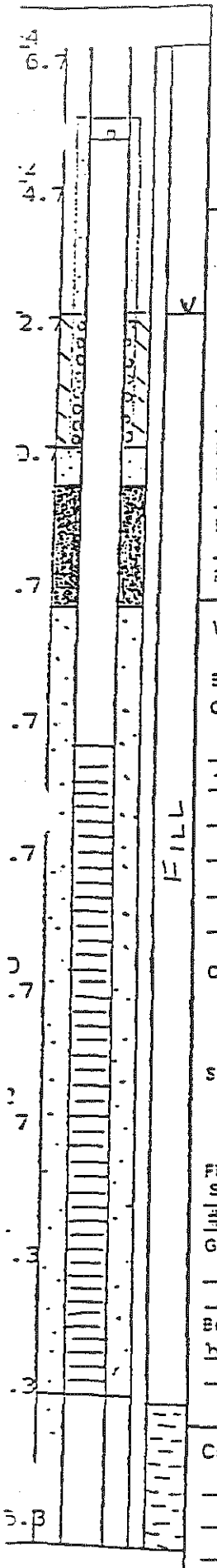
Boring No. X-Ref:

MONITOR WELL CONSTRUCTION SUMMARY

Survey Coords:

Elevation Ground Level 12.7'

Top of Casing 15.18'



Drilling Summary:

Total Depth 28'

Borehole Diameter 8" Auger 9"

Casing Stick-up Height: 2.48'

Driller Dennis Sheffield - Atec

Rig B-57

Bit(s) Hollow Stem Auger

Drilling Fluid None

Protective Casing Steel

Construction Time Log:

Task	Start Date	Start Time	Finish Date	Finish Time
Drilling	10/10	1015	10/10	1330
Geophys. Logging:				
Casing:				
Filter Placement:				
Cementing:				
Development:	11/1		11/10	

SITE NAME CWM

LOCATION Chicago

Well Design & Specifications

Basis: Geologic Log X Geophysical Log ___

Casing String (s): C = Casing S = Screen.

Depth	String(s)	Elevation
+2.5' - 6.5'	C1	15.18' - 6.1'
6.5' - 16.5'	S1	6.1' - -3.9'

Casing: C1 2" PVC

C2

Screen: S1 2" PVC - #10 Slot

S2

Filter Pack: Sand retained on #20 sieve. Uniformly graded between #10 and #20 (4.5-28')

Grout Seal: Type 2 Portland cement (0-2')

Bentonite Seal: Dry bentonite pellets hydrated (2.5-4.5')

Well Development:

Well Volume (WV) = 17.6 gal

Bailed and well went dry -

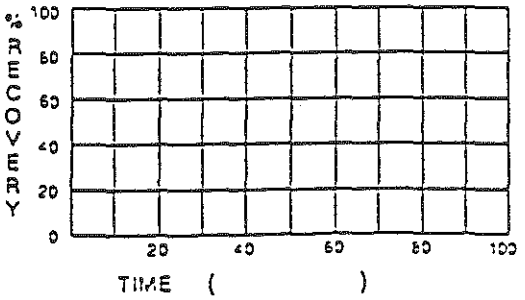
Well developed using Nitrogen lift.

Stabilization Test Data:

Time	pH	Spec. Cond.	Temp (C)
Initial	7.72	1680	13.1
	7.48	2080	11.6

Recovery Data:

Q= S_o=



SUPERVISED BY Terry Callaway 10/10/89

DATE

Comments: Well bailed dry

Upper sand pack (2-2.5')

Well No. G329A

Boring No. X-Ref:

MONITOR WELL CONSTRUCTION SUMMARY

Survey Coords:

Elevation Ground Level 9.4'

Top of Casing 12.10'

Drilling Summary:

Total Depth 16'
Borehole Diameter 8" Auger (OD)
Casing Stick-up Height: 2.70'
Driller Dan Cass - Atec

Rig B-57
Bit(s) Hollow Stem Auger

Drilling Fluid None

Protective Casing Steel

Construction Time Log:

Task	Start Date	Start Time	Finish Date	Finish Time
Drilling	10/17	1315	10/17	1600
Geophys.Logging:				
Casing:				
Filter Placement:				
Cementing:				
Development:				

Well Design & Specifications

Basis: Geologic Log X Geophysical Log

Casing String (s): C = Casing S = Screen.

Depth	String(s)	Elevation
+2.7' - 7.5'	C1	12.10' - 1.9'
7.5' - 12.5'	S1	1.9' - -3.1
-		-
-		-
-		-
-		-

Casing: C1 2" dia PVC

C2

Screen: S1 2" dia PVC - 10 slot (7 1/2 - 12 1/2' depth)

S2

Filter Pack: (4 1/2 - 16' depth) sand retained on #20 sieve and (2 - 2 1/2')

Grout Seal: (2 1/2 - 0' depth) Portland and type 2 cement

Bentonite Seal: Depth Aquagel Gold Seal bentonite (2 1/2 - 4 1/2 depth)

Well Development:

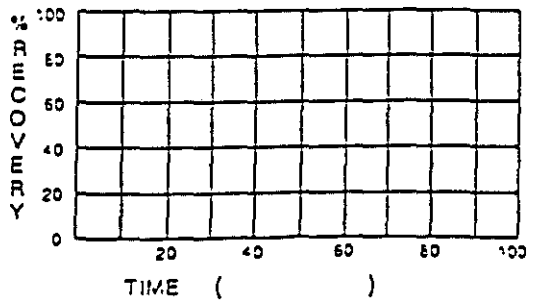
Not developed - will be used only as a piezometer

Stabilization Test Data:

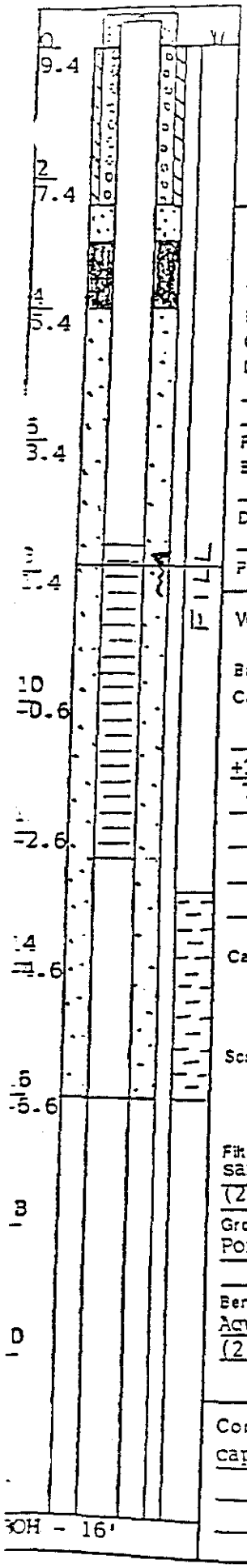
Time	pH	Spec. Cond.	Temp (C)

Recovery Data:

Q= S_o=



Comments: Dry bentonite pellets inside procover, capped with sand.



SITE NAME CWM Chicago

LOCATION

SUPERVISED BY Tina Harris 10/17/89

DATE

Printed on recycled paper

Well No. 3004

Boring No. X-Ref:

MONITOR WELL CONSTRUCTION SUMMARY

Survey Coords:

Elevation Ground Level 10.8'

Top of Casing 13.43'

Drilling Summary:

Total Depth 16'
Borehole Diameter 8" Auger (OD) → 9"
Casing Stick-up Height: 2.63'
Driller Dan Cass - Atec

Rig Mobile B-57
Bit(s) Hollow Stem Auger Bit

Drilling Fluid None

Protective Casing Steel

Construction Time Log:

Task	Start Date	Start Time	Finish Date	Finish Time
Drilling	10/24	0830	10/24	1150
Geophys. Logging:				
Casing:				
Filter Placement:				
Cementing:				
Development:	11/1	1100	11/1	1245

SITE NAME CWM

LOCATION Chicago

Well Design & Specifications

Basis: Geologic Log X Geophysical Log ___
Casing String (s): C = Casing S = Screen.

Depth	String(s)	Elevation
+2.63' - 10'	C1	13.43' - 0.8'
10' - 15'	S1	0.8' - -4.2'

Casing: C1 2" dia. PVC

C2

Screen: S1 2" dia. PVC 10 slot

S2

Filter Pack: (16-6') below surface and (4-3 1/2') below surface
Sand retained on #20 screen

Grout Seal: (3 1/2-0) Portland type 2 cement

Bentonite Seal: (6-4') below surface
Aquagel bentonite dry bent pellets inside procover

Well Development:

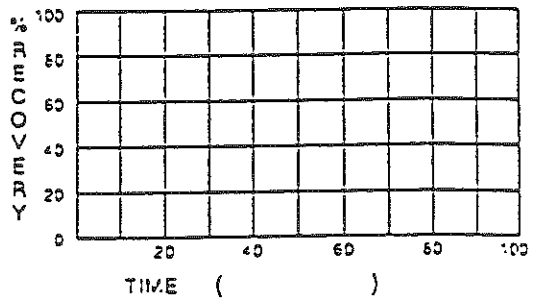
1 Well Volume (WV) = 14.3 gals
(Calc. from 9"dia. and water column) height (52")
Pumped ~ 150 gals/85 mins.
Well developed using suction from rig.

Stabilization Test Data:

Time	pH	Spec. Cond.	Temp (C)
Initial	11.67	5130	13.7
7WV	11.61	4060	13.7
8WV	11.71	3900	13.7
9WV	11.74	3520	13.9
10WV	11.76	3750	13.4

Recovery Data:

Q= S_o=



SUPERVISED BY Tim Harris 10/24/89

DATE

Comments: Aquacel Gold Seal bentonite used.

Printed on recycled paper

Well No. G330

Boring No. X-Ref:

MONITOR WELL CONSTRUCTION SUMMARY

Survey Coords:

Elevation Ground Level 10.0'

Top of Casing 12.83'

SITE NAME CWM LOCATION Chicago

Drilling Summary:

Total Depth 18'
Borehole Diameter 8" Auger (OD) → 9"
Casing Stick-up Height: 2.83'
Driller Dan Cass - Atec

Rig Mobile B-57
Bit(s) Hollow Stem Auger

Drilling Fluid None

Protective Casing Steel

Construction Time Log:

Task	Start Date	Start Time	Finish Date	Finish Time
Drilling	10/5	0830	10/5	1230
Geophys. Logging:				
Casing:				
Filter Placement:				
Cementing:				
Development:	11/2	1045	11/2	1540

Well Design & Specifications

Basis: Geologic Log X Geophysical Log ___
Casing String (s): C = Casing S = Screen.

Depth	String(s)	Elevation
+3.5' - 6.5'	C1	12.83' - 3.5
6.5' - 16.5'	S1	3.5' - 6.5'

Casing: C1 2" dia. PVC
C2

Screen: S1 (6'6" - 16'6" depth)
2" dia. PVC slot
S2 Slot 10

Filter Pack: (4'6" - 18' depth)
Sand retained on #20
uniformly graded between 10-20

Grout Seal: (2'6" - 0)
Portland type 2 cement

Bentonite Seal: (3'0" - 4'6" depth)
Aquagel cold seal bentonite

Well Development:

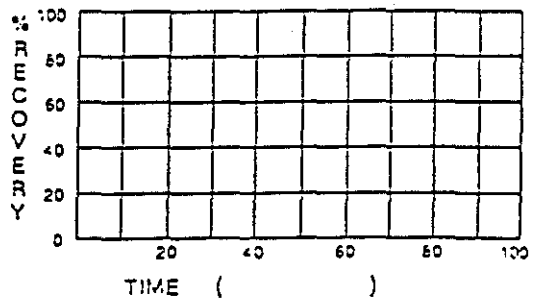
Remove 10 well volumes and compare S. cond. of 7th, 8th, 9th and 10th volumes. If w/in 10% well is considered developed.
- Developed using suction pump off rig.

Stabilization Test Data:

Time	* pH	Spec. Cond.	Temp (C)
Initial	9.55	2010	17.6
7WV	9.74	2310	16.6
8WV	9.56	2280	16.4
9WV	9.78	2210	15.5
10WV	9.59	2190	
	9.61		

Recovery Data:

Q= S_o=



SUPERVISED BY Tina Hartin 11/5/89

DATE

Comments: Dry bentonite pellets inside procover, capped with sand.
Upper sand pack (2'6" - 3'0" depth)
*pH meter broke during sampling - pH's listed are of drums, in order of evacuation from well. WV = Well volumes determined from diametemf borehole 9" and height of water col

Well No. G-332

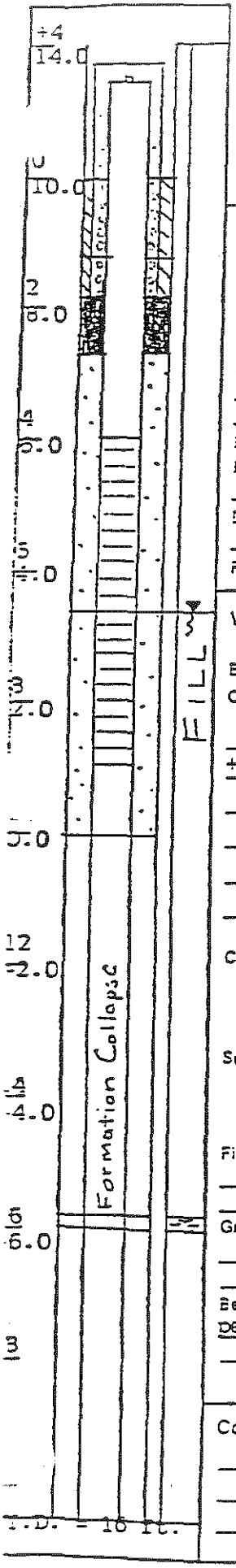
Boring No. X-Ref:

MONITOR WELL CONSTRUCTION SUMMARY

Survey Coords: _____

Elevation Ground Level 10.0'

Top of Casing 12.45'



Drilling Summary:

Total Depth 16'

Borehole Diameter 8.63"

Casing Stick-up Height: 2.45'

Driller Dan Cass - Atec

Rig Mobile B-57

Bit(s) 4.25" ID Hollow Stem Aucer

Drilling Fluid None

Protective Casing 4" x 5' Steel

Construction Time Log:

Task	Start Date	Start Time	Finish Date	Finish Time
Drilling	9/21	1620	9/21	0840
Geophys. Logging:				
Casing:	9/22	0845	9/22	0850
Filter Placement:	9/22	0855	9/22	0940
Cementing:				
Development:	11/8	3.25	11/8	
	11/9	2hrs	11/9	

Well Design & Specifications

Basis: Geologic Log ___ Geophysical Log ___

Casing String (s): C = Casing S = Screen.

Depth		String(s)	Elevation	
+2.45'	4.0'	C1	12.45'	6.0'
4.0'	9.0'	S1	6.0'	1.0'

Casing: C1 2" sch 40 PVC Flush threaded

C2

Screen: S1 2" sch 40 PVC 0.010" slot

S2

Filter Pack: #20 silica sand (18.0' - 2.5')

Grout Seal: Portland Type 2 cement (1.5-0')

Bentonite Seal: 1/4" volclay bentonite pellets (2.5' - 1.5')

Well Development:

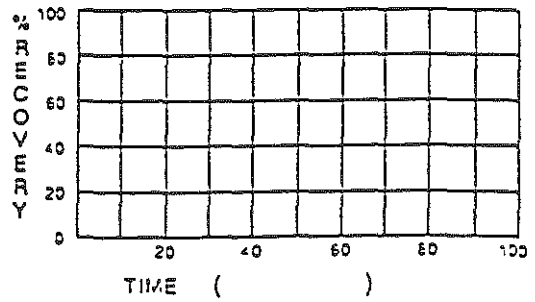
Developed with nitrogen lift 20 gals/ 5.25 hrs.

Stabilization Test Data:

Time	pH	Spec. Cond.	Temp (C)
3.25 hrs	11.67	2990	12.8

Recovery Data:

Q= S_o=



Comments: _____

SITE NAME CWM Chicago

LOCATION

SUPERVISED BY Jeff Steiner 9/22/89

DATE

Printed on recycled 230.

Well No. G334

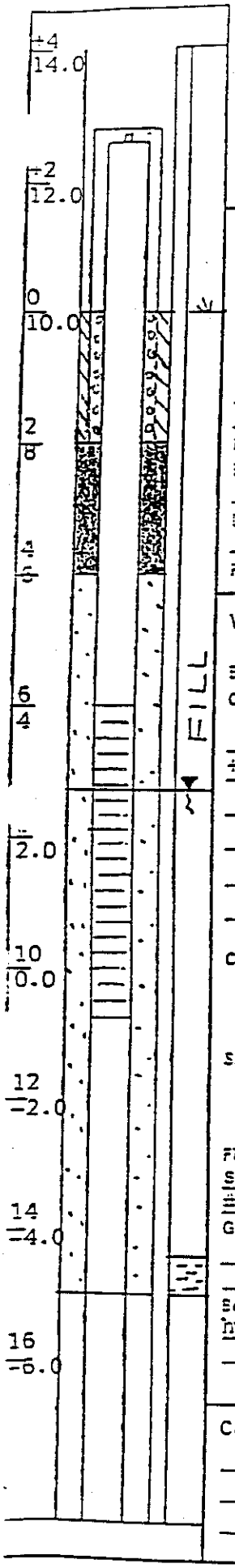
Boring No. X-Ref:

MONITOR WELL CONSTRUCTION SUMMARY

Survey Coords:

Elevation Ground Level 10.0'

Top of Casing 12.56'



Drilling Summary:

Total Depth 15'

Borehole Diameter 8" Auger → 9"

Casing Stick-up Height: 2.56

Driller Dennis Sheffield - Atec

Rig B57

Bit(s) Hollow Stem Auger

Drilling Fluid None

Protective Casing Steel

Construction Time Log:

Task	Start Date	Start Time	Finish Date	Finish Time
Drilling	10/89	1330	10/89	1515
Geophys. Logging:				
Casing:				
Filter Placement:				
Cementing:				
Development:	11/9		11/9	

Well Design & Specifications

Basis: Geologic Log ___ Geophysical Log ___

Casing String (s): C = Casing S = Screen.

Depth		String(s)	Elevation	
+2.6'	6'	C1	12.56'	4.0'
6'	11'	S1	4.0'	-1.0'

Casing: C1 2" PVC

C2

Screen: S1 2" PVC - #10 Screen

S2

Filter Pack: Sand retained on #20 screen, uniformly graded between #10 and #20 (4-15')

Grout Seal: Type 2 Portland cement (0-2')

Bentonite Seal: Dry bentonite pellets-hydrated (2-4')

Well Development:

Well Volume = 24.2 gal

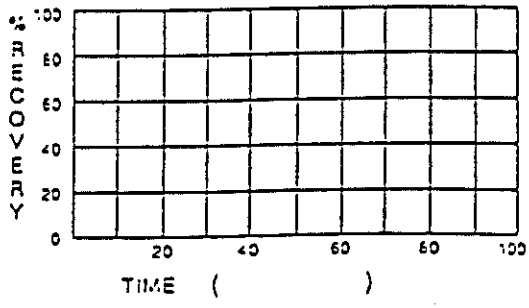
Pumped 55 gal/5.25 hrs

Stabilization Test Data:

Time	p H	Spec. Cond.	Temp (C)
Initial	8.64	2390	12.1

Recovery Data:

Q= S_o=



Comments:

CWM

SITE NAME Chicago

LOCATION

SUPERVISED BY Terry Calloway 10/7/89

DATE

Well No. G33S

Boring No. X-Ref:

MONITOR WELL CONSTRUCTION SUMMARY

Survey Coords:

Elevation Ground Level 10.9'

Top of Casing 13.07'

Drilling Summary:

Total Depth 18'
Borehole Diameter 8" Auger (OD) → 9"
Casing Stick-up Height: 2.17'
Driller Dan Cass - Atec

Rig Mobile B-57
Bit(s) Hollow Stem Auger

Drilling Fluid None

Protective Casing Steel

Construction Time Log:

Task	Start Date	Start Time	Finish Date	Finish Time
Drilling	10/26	0900	10/26	1100
Geophys. Logging:				
Casing:				
Filter Placement:				
Cementing:				
Development:	10/31		10/31	
	11/1		11/1	

Well Design & Specifications

Basis: Geologic Log ___ Geophysical Log ___
Casing String (s): C = Casing S = Screen.

Depth		String(s)	Elevation	
+3.1'	11.0'	C1	13.07'	-0.1'
11.0'	16.0'	S1	-0.1'	-5.1'

Casing: C1 2" dia. PVC
C2

Screen: S1 2" dia. PVC (11'-16') depth 10 slot
S2

Filter Pack: (5'- 18' depth) Sand retained on #20, uniformly graded between 10 and 20

Grout Seal: (2 1/2'-0') Portland type 2 cement

Bentonite Seal: (3'-5' depth) Aquacel cold seal bentonite

Well Development:

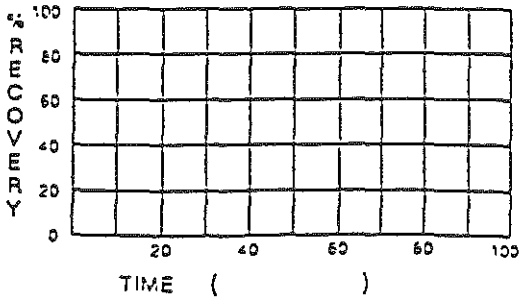
One well volume (WV)= 17.3 gals
Calc. using 9" dia. and water column height (63")
Pumped - 136 gals/5 1/2 hrs
Developed using suction from rig.

Stabilization Test Data:

Time	pH	Spec. Cond.	Temp (C)
Initial	9.07	2620	12.9
7WV	8.11	2830	13.4
8WV	8.36	3340	13.3
9WV	8.28	3170	14.0

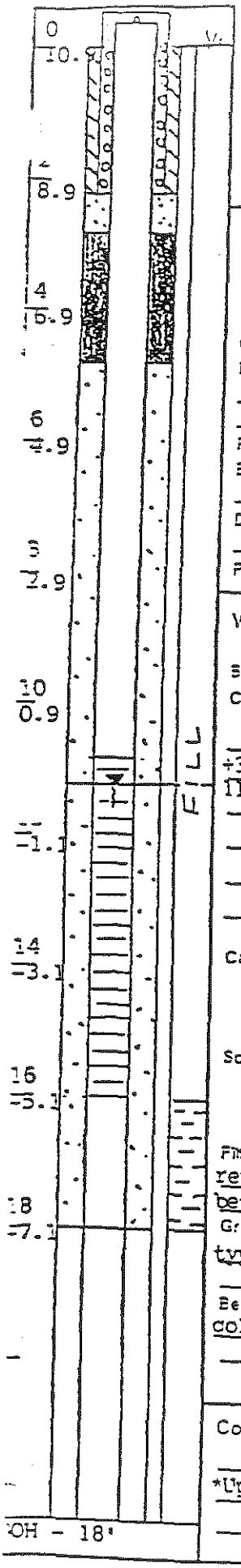
Recovery Data:

Q= S_o=



Comments: Dry bentonite pellets inside procover, capped with sand.

*Upper sand pack (2 1/2 - 3' depth)



CWM Chicago

SITE NAME

LOCATION

SUPERVISED BY Tina Harris 10/26/89

DATE

Printed on recycled paper

Well No. G-337

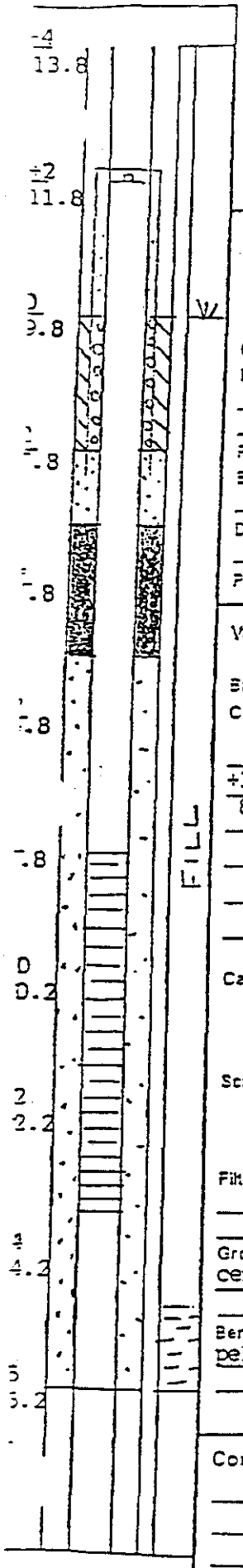
Boring No. X-Ref:

MONITOR WELL CONSTRUCTION SUMMARY

Survey Coords:

Elevation Ground Level 9.8'

Top of Casing 12.01'



Drilling Summary:

Total Depth 16'

Borehole Diameter 8" Auger → 9"

Casing Stick-up Height: 2.21'

Driller Atec

Rig Mobile B-57

Bit(s) Hollow Stem Auger

Drilling Fluid None

Protective Casing Steel

Construction Time Log:

Task	Start Date	Start Time	Finish Date	Finish Time
Drilling	10/6	0900	10/6	1400
Geophys.Logging:				
Casing:				
Filter Placement:				
Cementing:				
Development:				

SITE NAME CWM Chicago

LOCATION

Well Design & Specifications

Basis: Geologic Log X Geophysical Log

Casing String (s): C = Casing S = Screen.

Depth		String(s)	Elevation	
+3.18'	8'	C1	12.01'	1.8'
8'	13'	S1	1.8'	-3.2'

Casing: C1 2" PVC

C2

Screen: S1 2" PVC #10 slot

S2

Filter Pack: #20 silica sand (16' - 5')

Grout Seal: Type II Portland cement (0-2')

Bentonite Seal: 1/4" volclay bentonite pellets (5' - 3')

Well Development:

One well volume =11.3 gals

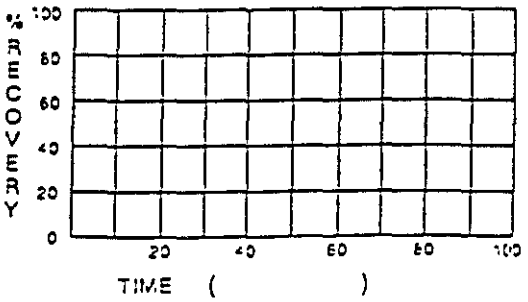
Well pumped dry twice in 65 mins.

Stabilization Test Data:

Time	p H	Spec. Cond.	Temp (C)
Initial	7.63	2070	12.7

Recovery Data:

Q= S_o=



SUPERVISED BY Tina Harris/Tony Callaway 10/6/89

DATE

Comments:

Upper sand pack 2-3'

Printed on recycled paper

Well No. G342

Boring No. X-Ref:

MONITOR WELL CONSTRUCTION SUMMARY

Survey Coords:

Elevation Ground Level 10.4'

Top of Casing 12.48'

SITE NAME CWM LOCATION Chicago

Drilling Summary:

Total Depth 16'
Borehole Diameter 8" Auger -> 9"
Casing Stick-up Height: 2.08'
Driller Dennis Sheffield - Atec

Rig B57
Bit(s) Hollow Stem Auger

Drilling Fluid None

Protective Casing Steel

Construction Time Log:

Task	Start Date	Start Time	Finish Date	Finish Time
Drilling	10/13	0830	10/13	1050
Geophys. Logging:				
Casing:				
Filter Placement:				
Cementing:				
Development:	11/7		11/10	

Well Design & Specifications

Basis: Geologic Log X Geophysical Log ___
Casing String (s): C = Casing S = Screen.

Depth	String(s)	Elevation
+2.0' - 9.5'	C1	12.48' - 0.9'
9.5' - 14.5'	S1	0.9' - -4.1'

Casing: C1 2" PVC

C2

Screen: S1 2" PVC - #10 Slot

S2

Filter Pack: Sand retained on #20 screen uniformly graded between #10 and #20 (6.5-16')

Grout Seal: Type 2 Portland cement (0-2')

Bentonite Seal: Dry bentonite pellets (3-6.5')

Well Development:

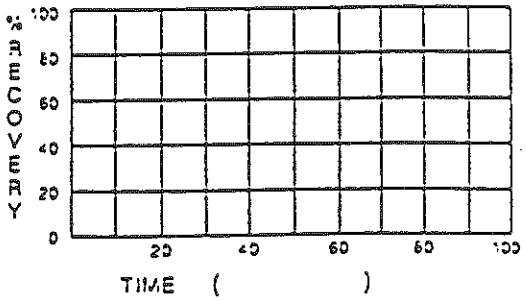
Well Volume (WV) = 13.8. gal
pumped 5 gal/45 mins.
Bailed till dry -> 2.5 gal

Stabilization Test Data:

Time	pH	Spec. Cond.	Temp (C)
Initial	9.53	6560	14.5

Recovery Data:

Q= S_o=



Comments: Upper sand pack 2-3'

SUPERVISED BY Terry Calloway 10/13/89

DATE

Well No. G343

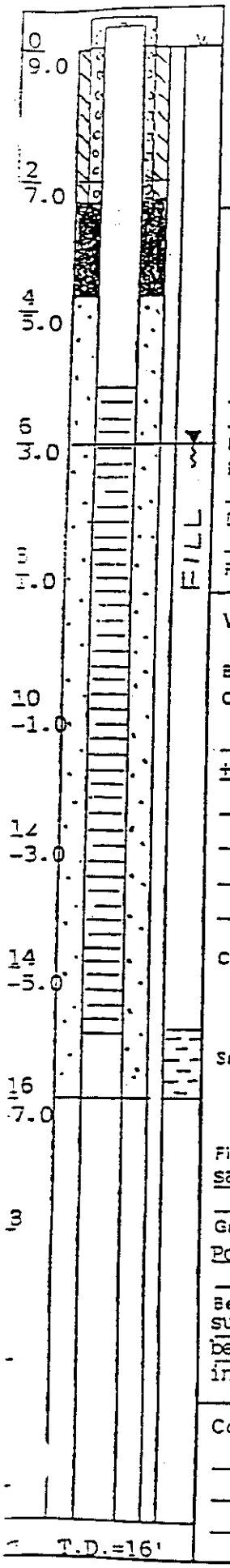
Boring No. X-Ref:

MONITOR WELL CONSTRUCTION SUMMARY

Survey Coords:

Elevation Ground Level 9.0'

Top of Casing 11.97'



Drilling Summary:

Total Depth 16'

Borehole Diameter 8" dia. Auger (OD)

Casing Stick-up Height: 2.97'

Driller Dan Cass - Atec

Rig Mobile B-57

Bit(s) Hollow Stem Auger

Drilling Fluid None

Protective Casing Steel

Construction Time Log:

Task	Start Date	Start Time	Finish Date	Finish Time
Drilling	10/27	1030	10/27	1335
Geophys. Logging:				
Casing:				
Filter Placement:				
Cementing:				
Development:	11/8	1435	11/8	1815
	11/9	0750	11/9	0830

Well Design & Specifications

Basis: Geologic Log X Geophysical Log ___

Casing String (s): C = Casing S = Screen.

Depth	String(s)	Elevation
+3.5 - 5	C1	11.97 - 4
5 - 15	S1	4 - -6

Casing: C1 PVC 2" dia.

C2

Screen: S1 2" dia. PVC 10 slot

S2

Filter Pack: 16-3½' below surface sand retained in #20 sieve

Grout Seal: 2 1/2 - 0' below surface Portland 2 cement

Bentonite Seal: 3 1/2' - 2 1/2' below surface - Aquagel gold seal bentonite - dry bentonite pellets inside procover, capped w/sand

Well Development:

1 Well Volume = 40.5 gals (calc. using 9" dia and height of water column 66")

Well pumped - 55 gals/4.25 hrs

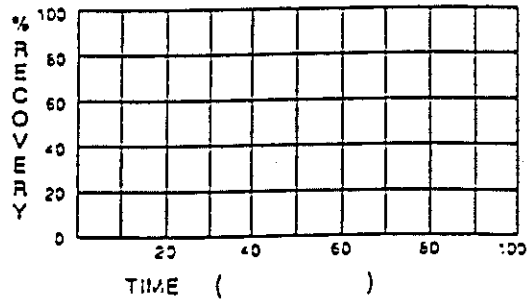
Developed using suction pump off rig.

Stabilization Test Data:

Time	pH	Spec. Cond.	Temp (C)
Initial	8.28	1760	12.5

Recovery Data:

Q= S_o=



Comments: *all dates are 1989

CWM SITE NAME Chicago LOCATION

SUPERVISED BY Tina Hanu 10/27/89 DATE

Printed on recycled paper

Well No. G344

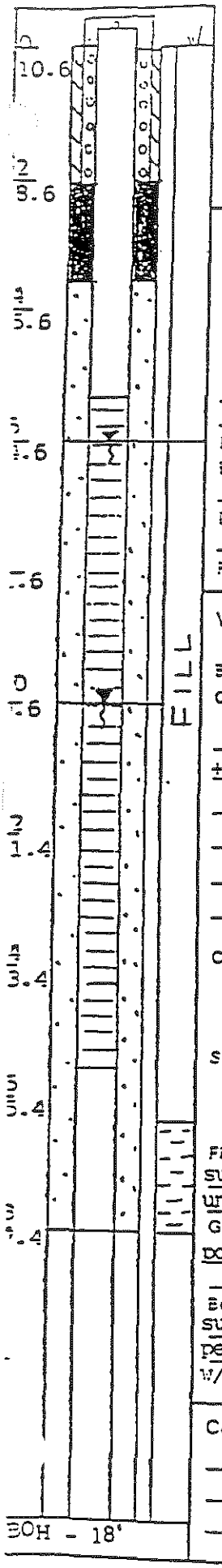
Boring No. X-Ref:

MONITOR WELL CONSTRUCTION SUMMARY

Survey Coords:

Elevation Ground Level 10.6'

Top of Casing 13.15'



Drilling Summary:

Total Depth 18'

Borehole Diameter 8"Auger (OD) → 9"

Casing Stick-up Height: 2.55'

Driller Dan Cass - Atec

Rig Mobile B-57

Bit(s) Hollow Stem Auger

Drilling Fluid None

Protective Casing Steel

Construction Time Log:

Task	Start Date	Start Time	Finish Date	Finish Time
Drilling	10/16	1010	10/16	1340
Geophys. Logging:				
Casing:				
Filter Placement:				
Cementing:				
Development:	11/7	1700	11/7	1800
	11/8	0715	11/8	1100

CWM

SITE NAME

LOCATION Chicago

Well Design & Specifications

Basis: Geologic Log X Geophysical Log ___

Casing String (s): C = Casing S = Screen.

Depth	String(s)	Elevation
+2.5' - 5.5'	C1	13.15' - 5.1'
5.5' - 15.5'	S1	5.1' - -4.9'
-		-
-		-
-		-

Casing: C1 2" dia. PVC

C2

Screen: S1 2" dia. PVC 10 slot

S2

Filter Pack: (3 1/2 - 5 1/2') below surface sand retained in #20 - uniformly graded between #10 and #20

Grout Seal: (0 - 2') below surface portland type 2 cement

Bentonite Seal: (2 - 3 1/2') below surface Aquagel cold seal bentonite pellets in side procover capped w/sand

Well Development:

1 Well Volume (WV) = 26.4 gals/calc using 9" dia and height of water column (96")

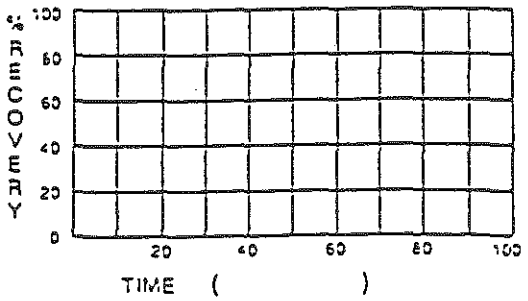
1. Pumped ~ 265 gals/4.75 hrs Developed using suction from rig.

Stabilization Test Data:

Time	pH	Spec. Cond.	Temp (C)
Initial	9.74	5320	9.74
7WV	10.05	5020	13.9
8WV	10.10	5150	14.8
9WV	10.09	5160	15.5
10WV	10.12	4980	15.9

Recovery Data:

Q= S_o=



SUPERVISED BY Tina Harris 10/16/89

DATE

Comments:

Well No. 3347

Boring No. X-Ref:

MONITOR WELL CONSTRUCTION SUMMARY

Survey Coords:

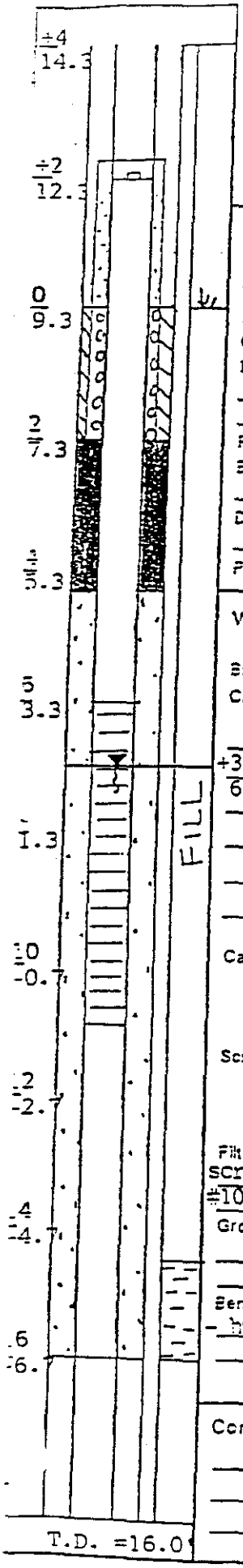
Elevation Ground Level 9.3'

Top of Casing 12.30'

CWM Chicago

SITE NAME

LOCATION



Drilling Summary:

Total Depth 16'

Borehole Diameter 8" Auger → 9"

Casing Stick-up Height: 3.0'

Driller Dennis Sheffield - Atec

Rig B57

Bit(s) Hollow Stem Auger

Drilling Fluid None

Protective Casing Steel

Construction Time Log:

Task	Start Date	Start Time	Finish Date	Finish Time
Drilling	10/1	1030	10/1	1230
Geophys.Logging:				
Casing:				
Filter Placement:				
Cementing:				
Development:	11/6		11/8	

Well Design & Specifications

Basis: Geologic Log ___ Geophysical Log ___

Casing String (s): C = Casing S = Screen.

Depth	String(s)	Elevation
+3.0' - 6'	C1	12.30' 3.3'
6' - 11'	S1	3.3' -1.7'

Casing: C1 2" PVC

C2

Screen: S1 2" PVC = #10 slot

S2

Filter Pack: Sand retained on #20 screen uniformly graded between #10 and #20 (4½- 16')

Grout Seal: Type 2 Portland cement (0-2')

Bentonite Seal: Dry bentonite pellets hydrated (2-4½')

Well Development:

Well Volume (WV) = 23.1 gal

Pumped 231 gal/ 2.2 hrs

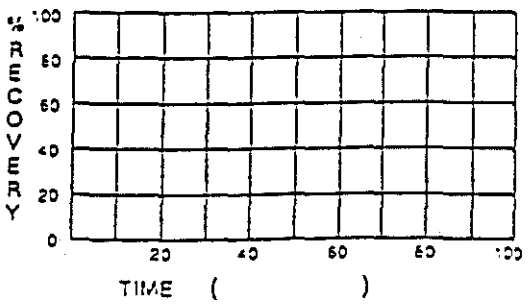
Well developed using suction from rig.

Stabilization Test Data:

Time	p H	Spec. Cond.	Temp (C)
Initial	7.94	921	
7WV	7.86	1680	16.1
8WV	7.79	1730	16.2
9WV	7.83	1780	16.2
10WV	7.9	1880	15.6

Recovery Data:

Q= S_o=



Comments:

SUPERVISED BY Terry Callaway

DATE 10/7/89

Well No. G348

Boring No. X-Ref:

MONITOR WELL CONSTRUCTION SUMMARY

Survey Coords:

Elevation Ground Level 10.5'

Top of Casing 13.03'

SITE NAME CWM

LOCATION Chicago

Drilling Summary:

Total Depth 16'

Borehole Diameter 8" Auger → 9"

Casing Stick-up Height: 2.53

Driller Dennis Sheffield - Atec

Rig B57

Bit(s) Hollow Stem Auger

Drilling Fluid None

Protective Casing Steel

Construction Time Log:

Task	Start Date	Start Time	Finish Date	Finish Time
Drilling	9/30	1540	10/1	0915
Geophys. Logging:				
Casing:				
Filter Placement:				
Cementing:				
Development:	11/6		11/7	

Well Design & Specifications

Basis: Geologic Log X Geophysical Log ___

Casing String (s): C = Casing S = Screen.

Depth	String(s)	Elevation
+2.5' - 6'	C1	13.0' - 4.5'
6' - 11'	S1	4.5' - -0.5'
___ - ___	___	___ - ___
___ - ___	___	___ - ___
___ - ___	___	___ - ___

Casing: C1 2" PVC

C2

Screen: S1 2" PVC #10 slot

S2

Filter Pack: Sand retained on #20 screen, uniformly graded between #10 and #20 (4-16')

Grout Seal: Type 2 Portland cement (0-2')

Bentonite Seal: Dry bentonite pellets - hydrated (2-4')

Well Development:

Well Volume (WV) = 14.6 gal

Pumped 143 gal/ 6 hrs

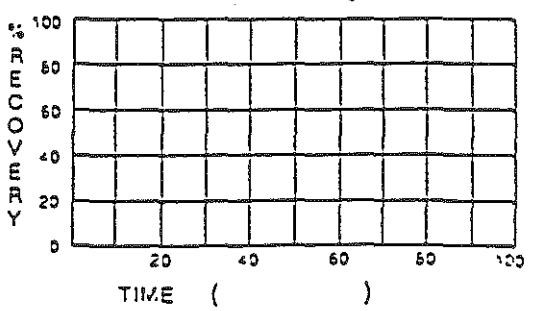
using suction from rig.

Stabilization Test Data:

Time	pH	Spec. Cond.	Temp (C)
Initial	8.79	2650	15.9
7WV	8.94	4220	12.3
8WV	9.03	4780	14.9
9WV	9.25	4930	12.6
10WV	9.26	4890	12.8

Recovery Data:

Q= S_o=



Comments:

SUPERVISED BY Terry Calloway

DATE 10/18/89

Well No. G349

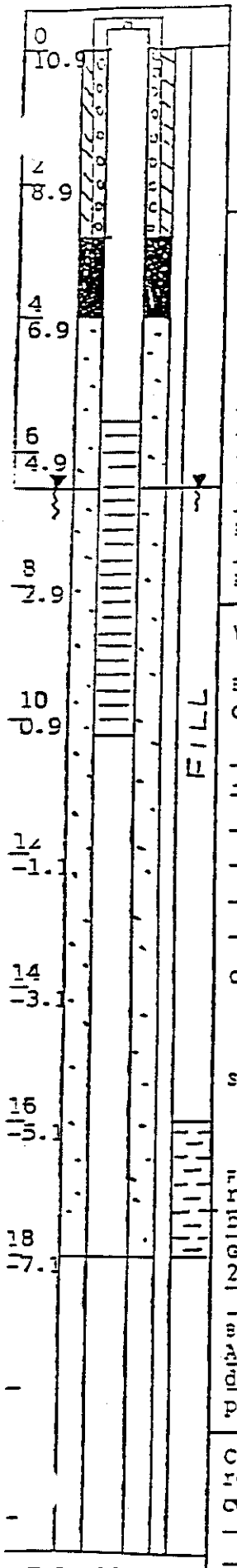
Boring No. X-Ref:

MONITOR WELL CONSTRUCTION SUMMARY

Survey Coords:

Elevation Ground Level 10.9'

Top of Casing 13.51'



Drilling Summary:

Total Depth 18'
Borehole Diameter 8" Auger (OD) → 9"
Casing Stick-up Height: 2.61'
Driller Dan Cass - Atec

Rig Mobile B-57
Bit(s) Hollow Stem Auger

Drilling Fluid None

Protective Casing Steel

Construction Time Log:

Task	Start Date	Start Time	Finish Date	Finish Time
Drilling	10/1	0940	10/1	1200
Geophys. Logging:				
Casing:				
Filter Placement:				
Cementing:				
Development:	11/7	1000	11/7	1500

Well Design & Specifications

Basis: Geologic Log X Geophysical Log ___
Casing String (s): C = Casing S = Screen.

Depth	String(s)	Elevation
+2.6' - 5.5'	C1	13.51' - 5.4'
5.5' - 10.5'	S1	5.4' - 0.4'
___ - ___	___	___ - ___
___ - ___	___	___ - ___
___ - ___	___	___ - ___

Casing: C1 2" dia. PVC

C2

Screen: S1 2" dia. PVC Slot 10

S2

Filter Pack: 4- 18') - sand retained on #20, uniformly graded between 10 and 20

Grout Seal: (0-3') Portland type 2 cement

Bentonite Seal: (3-4') below surface Aquagel gold seal bentonite dry bentonite pellets inside procover, capped w/sand

Well Development:

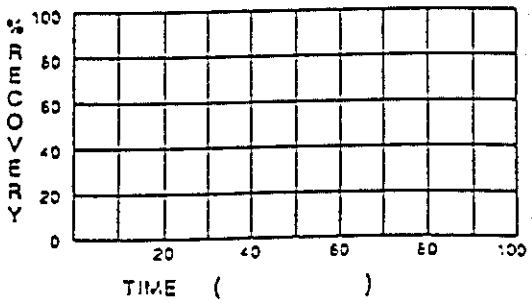
1 Well Volume = 13.8 gals. Well is developed when 10 well vols have been removed → comare S. cond. of 7th, 8th, 9th, and 10th W.V. if w/in 10 % → Developed using suction pump off rig.

Stabilization Test Data:

Time	pH	Spec. Cond.	Temp (C)
Initial	11.77	2840	11.77
7WV	9.76	2490	15.0
8WV	9.85	2820	11.6
9WV	9.85	2930	13.4
10WV	9.88	2860	14.0

Recovery Data:

Q= S_o=



Comments: Well developed - pumped for 4.7 Hrs/~ 138.6 gals removed WV calculated using 9" diameter and height of water column

SITE NAME CWM LOCATION Chicago

SUPERVISED BY Tina Harin DATE 10/7/89

T.D.=18'

Printed on recycled paper.

Well No. P315

Boring No. X-Ref:

MONITOR WELL CONSTRUCTION SUMMARY

Survey Coords:

Elevation Ground Level 15.1'

Top of Casing 17.5'

CWM

SITE NAME Chicago

LOCATION

Drilling Summary:

Total Depth 31'

Borehole Diameter 8" Auger → 9"

Casing Stick-up Height: 2.4 1'

Driller Dennis Sheffield - Atec

Rig B57

Bit(s) Hollow Stem Auger

Drilling Fluid None

Protective Casing Steel

Construction Time Log:

Task	Start Date	Start Time	Finish Date	Finish Time
Drilling	10/18	0900	10/19	1430
Geophys. Logging:				
Casing:				
Filter Placement:				
Cementing:				
Development:				

Well Development:

Well Design & Specifications

Basis: Geologic Log X Geophysical Log ___

Casing String (s): C = Casing S = Screen.

Depth	String(s)	Elevation
+2.4' - 8'	C1	17.5' - 7.1'
8' - 18'	S1	7.1' - -2.9'
___ - ___	___	___ - ___
___ - ___	___	___ - ___
___ - ___	___	___ - ___
___ - ___	___	___ - ___

Casing: C1 1 1/4" PVC

C2

Screen: S1 1 1/4" PVC #10 Slot

S2

Filter Pack: Sand retained on #20 sieve. uniformly graded between #10 and 20 (5-19')

Grout Seal: Type 2 Portland cement (0-2')

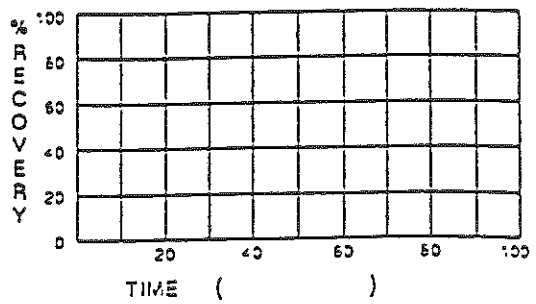
Bentonite Seal: Dry bentonite pellets - hydrated (2.5-5')

Stabilization Test Data:

Time	pH	Spec. Cond.	Temp (C)

Recovery Data:

Q= S_o=

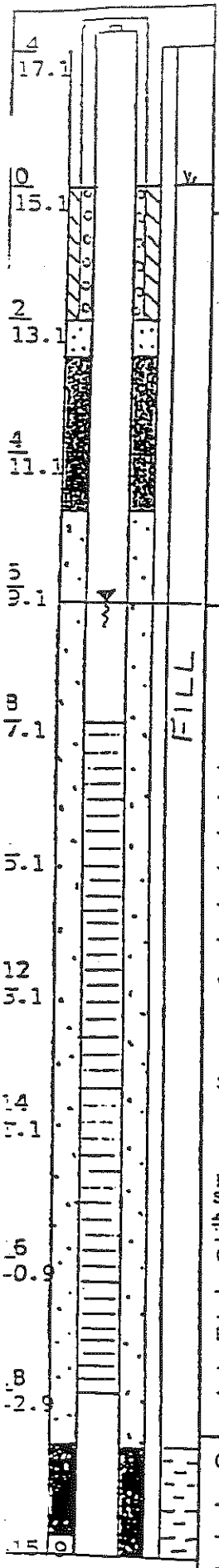


SUPERVISED BY Terry Calloway 10/19/89

DATE

Comments: Upper sand pack (2-2½')

Bentonite slurry (19-31')



Printed on recycled paper

Well No. P319

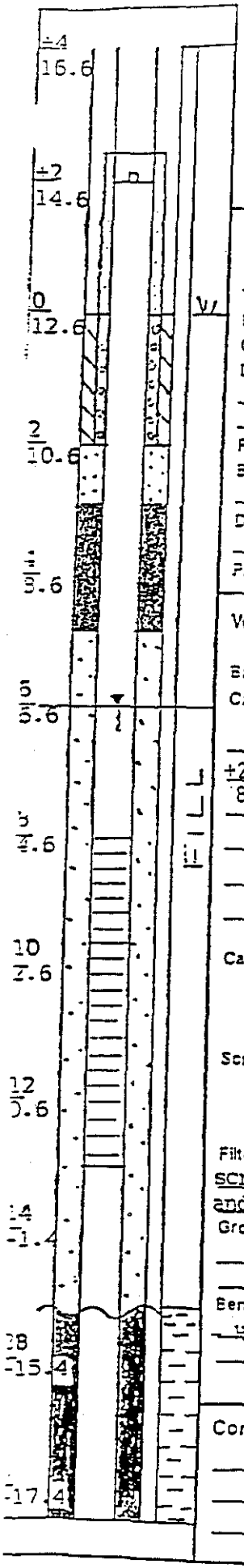
Boring No. X-Ref:

MONITOR WELL CONSTRUCTION SUMMARY

Survey Coords:

Elevation Ground Level 12.6'

Top of Casing 15.06'



Drilling Summary:

Total Depth 29'

Borehole Diameter 8" OD → 9"

Casing Stick-up Height: 2.46'

Driller Dennis Sheffield - Atec

Rig B57

Bit(s) Hollow Stem Auger

Drilling Fluid None

Protective Casing Steel

Construction Time Log:

Task	Start Date	Start Time	Finish Date	Finish Time
Drilling	10/5	1315	10/9	1715
Geophys. Logging:				
Casing:				
Filter Placement:				
Cementing:				
Development:				

Well Design & Specifications

Basis: Geologic Log X Geophysical Log ___

Casing String (s): C = Casing S = Screen.

Depth	String(s)	Elevation
+2.46' - 8'	C1	15.06' - 4.6'
8' - 13'	S1	4.6' - -0.4'
___ - ___	___	___ - ___
___ - ___	___	___ - ___
___ - ___	___	___ - ___

Casing: C1 1 1/4" OD PVC

C2

Screen: S1 1 1/4" OD PVC - #10 slot

S2

Filter Pack: sand retained on #20 screen uniformly graded between #10 and #20 (5-15')

Grout Seal: Type 2 Portland cement (0-2')

Bentonite Seal: dry bentonite pellets hydrated (3-5')

Well Development:

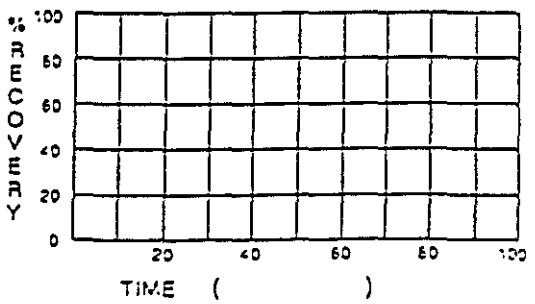
--

Stabilization Test Data:

Time	p H	Spec. Cond.	Temp (C)

Recovery Data:

Q= S_o=



Comments: Upper sand pack (2-3')

Bentonite slurry 15-29'

SITE NAME CWM

LOCATION Chicago

SUPERVISED BY Terry Calloway

DATE 10/9/89

Well No. P-322

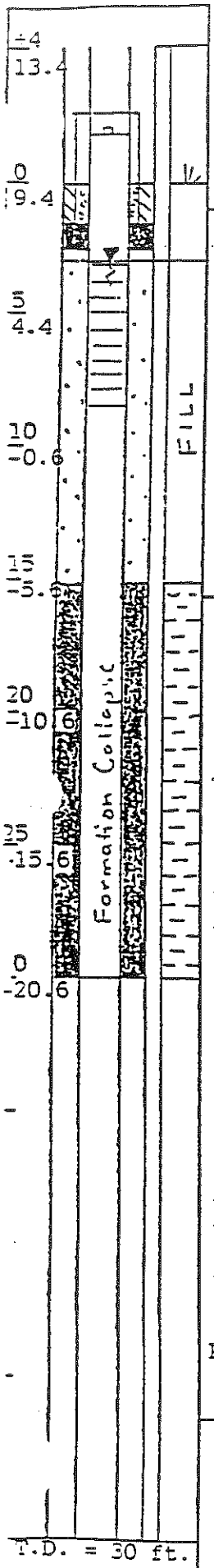
Boring No. X-Ref:

MONITOR WELL CONSTRUCTION SUMMARY

Survey Coords:

Elevation Ground Level 9.4'

Top of Casing 11.63'



Drilling Summary:

Total Depth 30'
Borehole Diameter 8.63"
Casing Stick-up Height: 2.23'
Driller Atec - Dan Cass

Rig Mobile B-57
Bit(s) 4.25" ID Hollow Stem Auger

Drilling Fluid None

Protective Casing

Construction Time Log:

Task	Start Date	Start Time	Finish Date	Finish Time
Drilling	9/22	1110	9/22	1500
Geophys. Logging:				
Casing:	9/25	1030	9/25	1040
Filter Placement:	9/25	1050	9/25	1130
Cementing:				
Development:				

Well Design & Specifications

Basis: Geologic Log X Geophysical Log ___
Casing String (s): C = Casing S = Screen.

Depth	String(s)	Elevation
±2.23' - 3.0'	C1	11.63' - 6.4'
3.0' - 8.0'	S1	6.4' - 1.4'

Casing: C1 1.25" dia. sch 40 PVC flush threaded
C2

Screen: S1 1.25" dia. sch 40 PVC 0.010" slot
S2

Filter Pack: #20 silica sand (20.0 - 2.5')

Grout Seal: Portland Type 2 cement (0-2.5')

Bentonite Seal: 1/4" volclay bentonite pellets (3.0 - 2.5')

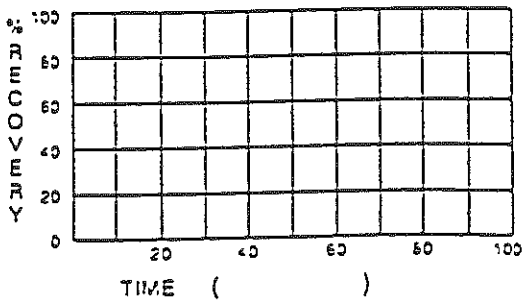
Well Development:

Stabilization Test Data:

Time	pH	Spec. Cond.	Temp (C)

Recovery Data:

Q= S_o=



Comments: Bentonite slurry 15-30'

SITE NAME CWM Chicago

LOCATION

SUPERVISED BY Jeff Steiner 9/25/89

DATE

Printed on recycled paper.

Well No. P323

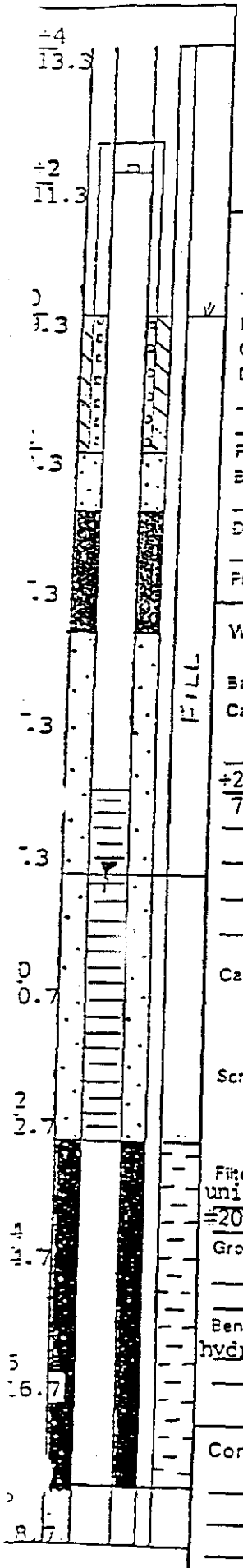
Boring No. X-Ref:

MONITOR WELL CONSTRUCTION SUMMARY

Survey Coords:

Elevation Ground Level 9.3'

Top of Casing 11.49'



Drilling Summary:

Total Depth 27'
Borehole Diameter 8" dia. Auger → 9"
Casing Stick-up Height: 2.19'
Driller Dennis Sheffield - Atec

Rig B-57
Bit(s) Hollow Stem Auger

Drilling Fluid None

Protective Casing Steel

Construction Time Log:

Task	Start Date	Start Time	Finish Date	Finish Time
Drilling	9/20	1415	9/21	1215
Geophys. Logging:				
Casing:				
Filter Placement:				
Cementing:				
Development:				

SITE NAME CWM

LOCATION Chicago

Well Design & Specifications

Basis: Geologic Log X Geophysical Log ___

Casing String (s): C = Casing S = Screen.

Depth	String(s)	Elevation
+2.2' - 7.5'	C1	11.49' - 1.8'
7.5' - 12.5	S1	1.8' - -3.4'

Casing: C1 1 1/4" PVC

C2

Screen: S1 1 1/4" PVC - #10 slot

S2

Filter Pack: Sand retained on #20 uniformly graded between #10 and #20 (5-13')

Grout Seal: Portland type 2 cemenet (0-2')

Bentonite Seal: Dry bentonite pellets hydrated (2-5')

Well Development:

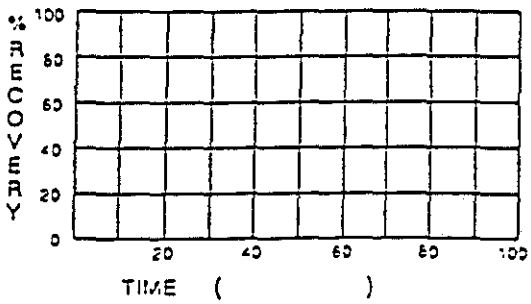
--

Stabilization Test Data:

Time	p H	Spec. Cond.	Temp (C)

Recovery Data:

Q= S_o=



SUPERVISED BY Terry Calloway 9/21/89

DATE

Comments: Upper sand pack 2-3'
Bentonite slurry 13-27'

Printed on recycled paper.

Well No. P-329

Boring No. X-Ref:

MONITOR WELL CONSTRUCTION SUMMARY

Survey Coords:

Elevation Ground Level 9.9'

Top of Casing 12.40'

SITE NAME CWM

LOCATION Chicago

Drilling Summary:

Total Depth 19.5'
Borehole Diameter 8.63"
Casing Stick-up Height: 2.5'
Driller Dan Cass - Atec

Rig Mobile B-57
Bit(s) 4.25" ID Hollow Stem Auger

Drilling Fluid None

Protective Casing 4" x 5' Steel

Construction Time Log:

Task	Start Date	Start Time	Finish Date	Finish Time
Drilling	9/23	1400	9/25	1515
Geophys. Logging:				
Casing:	9/26	0800	9/26	0810
Filter Placement:	9/26	0815	0926	0900
Cementing:				
Development:				

Well Design & Specifications

Basis: Geologic Log X Geophysical Log ___

Casing String (s): C = Casing S = Screen.

Depth		String(s)	Elevation	
+2.5'	14.5	C1	12.40'	-4.6'
14.5'	19.5'	S1	-4.6'	-9.6'

Casing: C1 1.25" dia sch 40 PVC flush threaded

C2

Screen: S1 2" dia. sch 40 PVC 0.010 " slot

S2

Filter Pack: #20 silica sand (19.5 - 9.0)

Grout Seal: Portland type II cement and Aquagel gold seal bentonite (7.1 - 0.0)

Bentonite Seal: 1/4" volclay bentonite pellets (9.0 - 7.1')

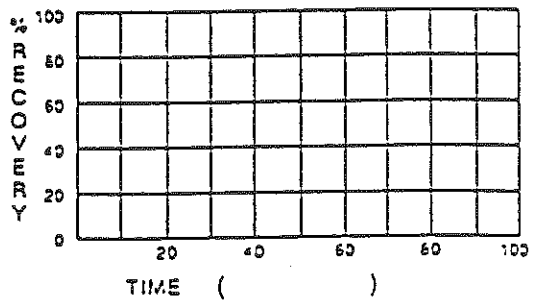
Well Development:

Stabilization Test Data:

Time	pH	Spec. Cond.	Temp (C)

Recovery Data:

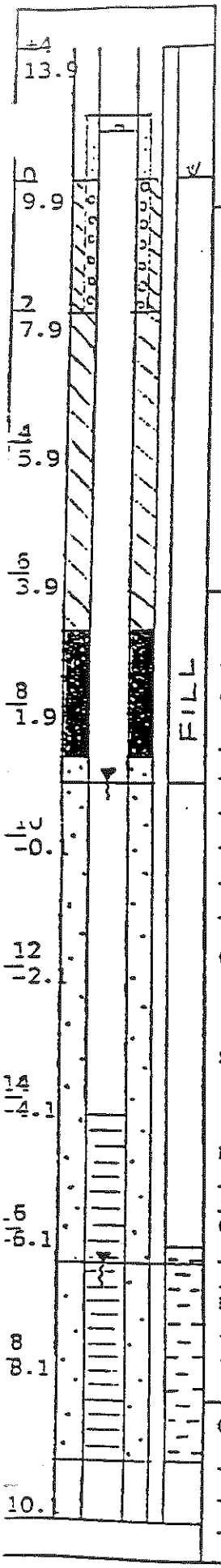
Q= S_o=



SUPERVISED BY Jeff Steiner 9/26/89

DATE

Comments:



Printed on recycled paper.

Well No. G800

Boring No. X-Ref:

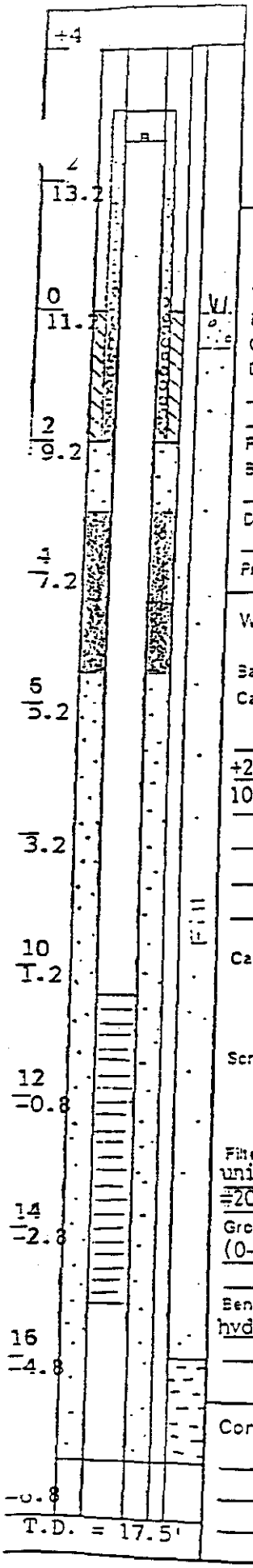
MONITOR WELL CONSTRUCTION SUMMARY

Survey Coords: _____ Elevation Ground Level 11.2'

Top of Casing 13.66'

SITE NAME CWM Chicago

LOCATION



Drilling Summary:

Total Depth 17.5

Borehole Diameter 8" Auger → 9"

Casing Stick-up Height: 2.46'

Driller Atec - Dennis Sheffield

Rig B57

Bit(s) Hollow Stem Auger

Drilling Fluid None

Protective Casing Steel

Construction Time Log:

Task	Start Date	Start Time	Finish Date	Finish Time
Drilling	10/11/89	1300	10/12	1750
Geophys. Logging:				
Casing:				
Filter Placement:				
Cementing:				
Development:	11/9/89		11/9	

Well Design & Specifications

Basis: Geologic Log X Geophysical Log ___

Casing String (s): C = Casing S = Screen.

Depth	String(s)	Elevation
+2.46' - 10.5'	C1	13.66' - 0.7'
10.5' - 15.5'	S1	0.7' - -4.3'
___ - ___	___	___ - ___
___ - ___	___	___ - ___
___ - ___	___	___ - ___

Casing: C1 2" PVC

C2 _____

Screen: S1 2" PVC - #10 Slot

S2 _____

Filter Pack: Sand retained on #20 sieve uniformly graded between #10 and #20 (5.5 - 17.5')

Grout Seal: Type 2 Portland cement (0-2')

Bentonite Seal: Dry bentonite pellets - hydrated (3-5.5')

Well Development:

1 well volume (WV) = 10.5 gal.

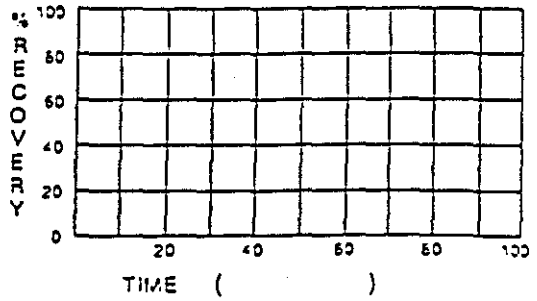
Pumped 10.5 gal/2 hrs using suction from rig

Stabilization Test Data:

Time	pH	Spec. Cond.	Temp (C)
Initial	12.41	3400	10.7
7WV	11.88	2270	10.8
8WV	11.91	2210	12.1
9WV	11.83	2270	9.8
10WV	11.90	2530	12.6

Recovery Data:

Q= S_o=



Comments: Upper fine sand packed 2-3'

SUPERVISED BY Terry Callaway 10/12/89

DATE _____

E

Manufactured By EconoPrint, Inc., Madison, WI

Printed On Recycled Paper

APPENDIX E
WELL CONSTRUCTION, PHASE II

Well No. C-2PS

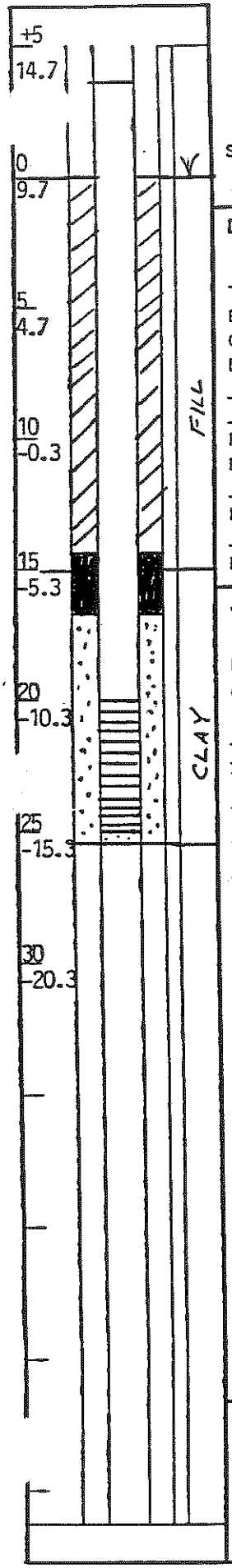
Boring No. X-Ref: C-2

MONITOR WELL CONSTRUCTION SUMMARY

Survey Coords: _____

Elevation Ground Level 9.7'

Top of Casing 12.65'



Drilling Summary:

Total Depth 25.5'
Borehole Diameter 4"
Casing Stick-up Height: 2.9'
Driller W T D Environmental Drilling

Rig BK-81
Bit(s) 4" OD Solid Stem Auger

Drilling Fluid None

Protective Casing None

Construction Time Log:

Task	Start Date	Start Time	Finish Date	Finish Time
Drilling	10/18	0730	10/18	1415
Geophys. Logging:				
Casing:				
Filter Placement:				
Cementing:				
Development:				

Well Design & Specifications

Basis: Geologic Log XX Geophysical Log ____

Casing String (s): C = Casing S = Screen.

Depth	String(s)	Elevation
+2.95 - 20	C1	12.65 - -10.3
20 - 25	S1	-10.3 - -15.3
____ - ____	____	____ - ____
____ - ____	____	____ - ____
____ - ____	____	____ - ____

Casing: C1 1 1/4" SCH 40 PVC

C2 _____

Screen: S1 1 1/4" SCH 40 PVC 0.010 slot

S2 _____

Filter Pack: #30 Red Flint Sand (17' - 25.5')

Grout Seal: Natural Collapse and Bentonite chips (0 - 14.5')

Bentonite Seal: 1/4" Bentonite pellets, (14.5' - 17')

Well Development:

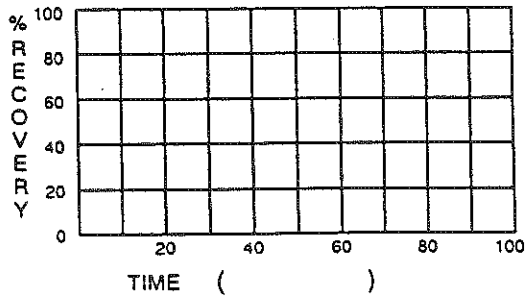
Bailed dry 7 times from 11/20/91 through 12/9/91. Removed a total volume of 7.25 gallons. Total development time of 1 hour, 40 minutes

Stabilization Test Data:

Time	pH	Spec. Cond.	Temp (C)

Recovery Data:

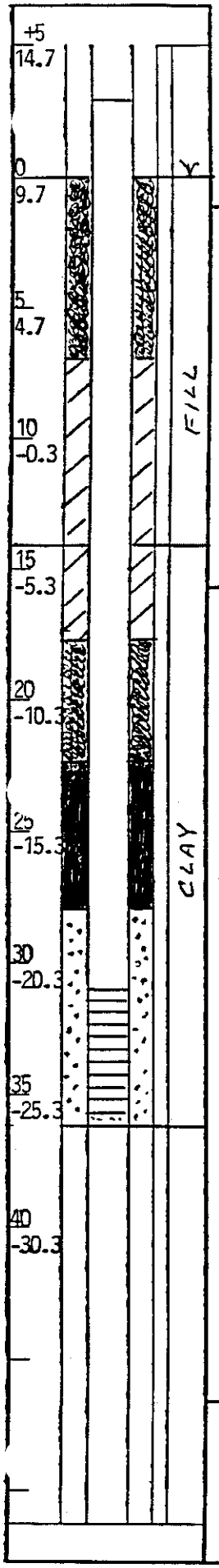
Q= S_o=



Comments: Temporary piezometer - not used as a monitoring well. C-2PS adjacent to C-2 boring. 9 7/8" mud rotary 0 - 15', 6" temporary casing set to 17.5', 10/18/91. Wood plug removed 10/18/91. 4" solid stem auger to 25.5'. Natural collapse and bentonite chip backfill when 6" casing removed.

SITE NAME C W M Chemical Services, Inc. LOCATION Chicago Incinerator Chicago IL.

SUPERVISED BY M. Mc Culloch



Well No. C-2PI

Boring No. X-Ref: C-2

MONITOR WELL CONSTRUCTION SUMMARY

Survey Coords: _____

Elevation Ground Level 9.7'

Top of Casing 12.53

Drilling Summary:

Total Depth 36.8'

Borehole Diameter 4"

Casing Stick-up Height: 2.8'

Driller W T D Environmental Drilling

Rig BK-81

Bit(s) 4" OD Solid Stem Auger

Drilling Fluid None

Protective Casing None

Construction Time Log:

Task	Start Date	Start Time	Finish Date	Finish Time
Drilling	10/17	1630	10/17	1845
Geophys. Logging:				
Casing:				
Filter Placement:				
Cementing:				
Development:	10/24	1000	10/24	1100
	11/20	1730	11/20	1845

Well Design & Specifications

Basis: Geologic Log XX Geophysical Log ____

Casing String (s): C = Casing S = Screen.

Depth	String(s)	Elevation
+2.83 - 31	C1	12.53 - -21.3
31 - 36	S1	-21.3 - -26.3
-		-
-		-
-		-

Casing: C1 1 1/4" SCH 40 PVC

C2

Screen: S1 1 1/4" SCH 40 PVC
0.010 Slot

S2

Filter Pack: #30 Red Flint Sand
(28' - 36.8')

Grout Seal: Bentonite Chips (0-7')
Natural Collapse (7-18')
Bentonite Chips (18-22.9')

Bentonite Seal: 1/4" Bentonite Pellets
(22.9' - 28')

Well Development:

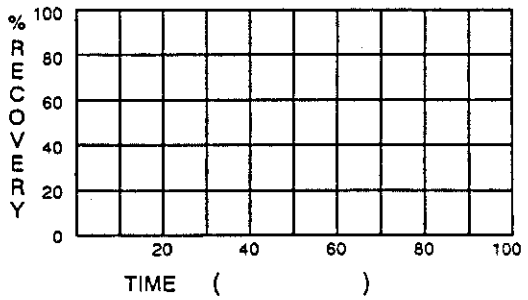
Bailed dry at 5 Gallons, 10/24/91
Bailed dry at 7 Gallons, 11/20/91
Total development time of 2 hours
15 min.

Stabilization Test Data:

Time	p H	Spec. Cond.	Temp (C)

Recovery Data:

Q= S_o=



Comments: Temporary piezometer - not used as a monitoring well.
C-2PI adjacent to C-2. 9 7/8" mud rotary 0-15', 6" casing set to 18', 10/17/91. Wood plug removed 10/17/91. 4" Solid stem auger to 36.8'. Natural collapse and Bentonite chip backfill when 6" casing removed.

SITE NAME C W M Chemical Services, Inc.

LOCATION Chicago Incinerator Chicago IL

W(0212

SUPERVISED BY M. MC Culloch

DATE 10/17/91

Well No. C-2RPS

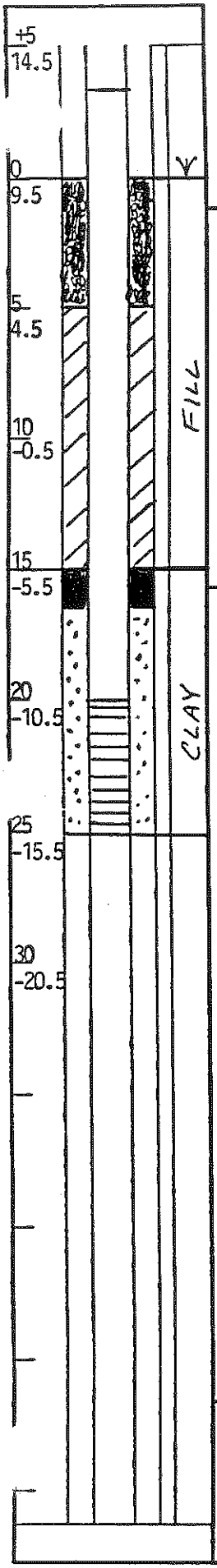
Boring No. X-Ref: C-2R

MONITOR WELL CONSTRUCTION SUMMARY

Survey Coords: _____

Elevation Ground Level 9.5'

Top of Casing 12.39



Drilling Summary:

Total Depth 25'
Borehole Diameter 4"
Casing Stick-up Height: 2.9'
Driller W T D Environmental Drilling

Rig BK-81
Bit(s) 4" OD Solid Stem Auger

Drilling Fluid None

Protective Casing None

Construction Time Log:

Task	Start Date	Start Time	Finish Date	Finish Time
Drilling	11/13	1130	11/13	1500
Geophys. Logging:				
Casing:				
Filter Placement:				
Cementing:				
Development:				

Well Design & Specifications

Basis: Geologic Log XX Geophysical Log ____
Casing String (s): C = Casing S = Screen.

Depth	String(s)	Elevation
+2.89 - 20	C1	12.39 - -10.5
20 - 25	S1	-10.5 - -15.5
____ - ____		____ - ____
____ - ____		____ - ____
____ - ____		____ - ____

Casing: C1 1 1/4" SCH 40 PVC

C2 _____

Screen: S1 1 1/4" SCH 40 PVC
0.010 Slot

S2 _____

Filter Pack: #30 Red Flint Sand
(17' - 25')

Grout Seal: Bentonite chips (0 - 5')
Natural collapse (5 - 15')

Bentonite Seal: 1/4" Bentonite pellets
(15' - 17')

Well Development:

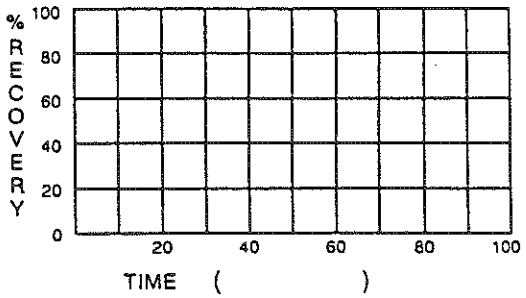
Bailed dry 7 times from 11/21/91 through 12/9/91. Removed a total of 6.5 Gallons. Total development time of 1 hour.

Stabilization Test Data:

Time	p H	Spec. Cond.	Temp (C)

Recovery Data:

Q= S_o=



Comments: Temporary piezometer - not used as a monitoring well. C-2RPS adjacent to C-2R. 9 7/8" mud rotary 0-15' 6", casing set to 18', 11/13/91. Wood plug removed 11/13/91. 4" Solid stem auger to 25'. Natural collapse and bentonite chip backfill when 6" casing removed.

SITE NAME C W M Chemical Services, Inc. LOCATION Chicago Incinerator Chicago, IL

SUPERVISED BY M. Mc Culloch

Well No. C-2RPI

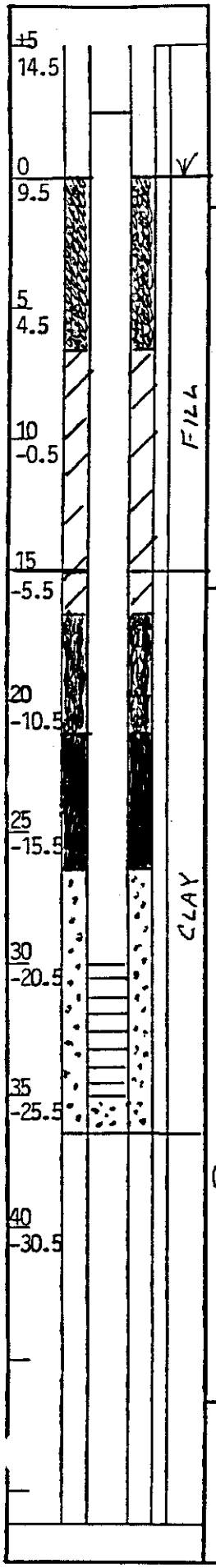
Boring No. X-Ref:

MONITOR WELL CONSTRUCTION SUMMARY

Survey Coords:

Elevation Ground Level 9.5'

Top of Casing 11.41'



Drilling Summary:

Total Depth 36.5'
Borehole Diameter 4"
Casing Stick-up Height: 1.9'
Driller W T D Environmental Drilling

Rig BK-81
Bit(s) 4" OD Solid Stem Auger

Drilling Fluid None

Protective Casing None

Construction Time Log:

Task	Start Date	Start Time	Finish Date	Finish Time
Drilling	11/13	0706	11/13	1100
Geophys. Logging:				
Casing:				
Filter Placement:				
Cementing:				
Development:	11/21	1400	11/21	1600

Well Design & Specifications

Basis: Geologic Log XX Geophysical Log ____
Casing String (s): C = Casing S = Screen.

Depth	String(s)	Elevation
+1.91 - 30.1	C1	11.41 - -20.6
30.1 - 35.1	S1	-20.6 - -25.6
____ - ____	____	____ - ____
____ - ____	____	____ - ____
____ - ____	____	____ - ____

Casing: C1 1 1/4" SCH 40 PVC
C2

Screen: S1 1 1/4" SCH 40 PVC 0.010 Slot
S2

Filter Pack: #30 Red Flint Sand (26.8' - 36.5')

Grout Seal: Bentonite Chips (0-7')
Natural Collapse (7-17')
Bentonite chips (17-21.5')

Bentonite Seal: 1/4" Bentonite pellets (21.5-26.8')

Well Development:

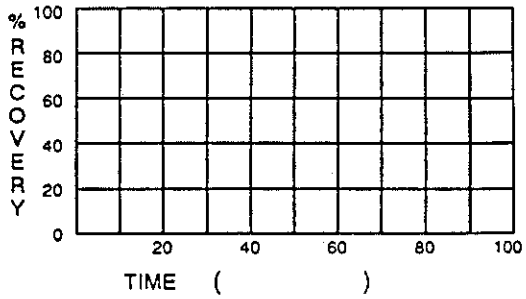
Bailed 16 Gallons, 11/21/91
Total development time of 2 hours.

Stabilization Test Data:

Time	pH	Spec. Cond.	Temp (C)

Recovery Data:

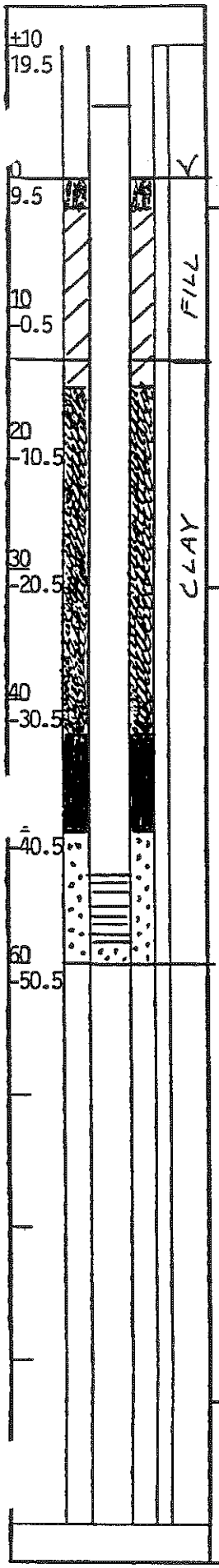
Q= S_o=



Comments: Temporary piezometer - not used as a monitoring well.
C-2RPI adjacent to C-2R. 9 7/8" mud rotary 0-15' 8', temporary casing set to 18 1/2', 11/13/91. Wood plug removed 11/13/91, 4" solid stem auger to 36.5'.
Natural collapse and bentonite chip backfill when 8" casing removed.

SITE NAME CWM Chemical Services, Inc. LOCATION Chicago Incinerator, Chicago IL.

SUPERVISED BY M. Mc Culloch DATE 11/13/91



Well No. C-2RPD

Boring No. X-Ref: C-2R

MONITOR WELL CONSTRUCTION SUMMARY

Survey Coords: _____ Elevation Ground Level 9.5'

Top of Casing 11.54'

Drilling Summary:

Total Depth 60'
Borehole Diameter 4"
Casing Stick-up Height: 2'
Driller W T D Environmental Drilling

Rig BK-81
Bit(s) 4" OD Solid Stem Auger

Drilling Fluid None

Protective Casing None

Construction Time Log:

Task	Start Date	Start Time	Finish Date	Finish Time
Drilling	11/06	1415	11/12	1500
Geophys. Logging:				
Casing:				
Filter Placement:				
Cementing:				
Development:				

Well Design & Specifications

Basis: Geologic Log XX Geophysical Log ____
Casing String (s): C = Casing S = Screen.

Depth	String(s)	Elevation
+2.04 - 53.2	C1	11.54 - -43.7
53.2 - 58.2	S1	-43.7 - -48.7
____ - ____		____ - ____
____ - ____		____ - ____
____ - ____		____ - ____

Casing: C1 1 1/4" SCH 40 PVC
C2 _____

Screen: S1 1 1/4" SCH 40 PVC 0.010 Slot
S2 _____

Filter Pack: #30 Red Flint Sand (50.2' - 60')

Grout Seal: Bentonite chips (0-3'), Natural collapse (3-17'), bentonite chips (17-43.5')

Bentonite Seal: 1/4" bentonite pellets (43.5-50.2')

Well Development:

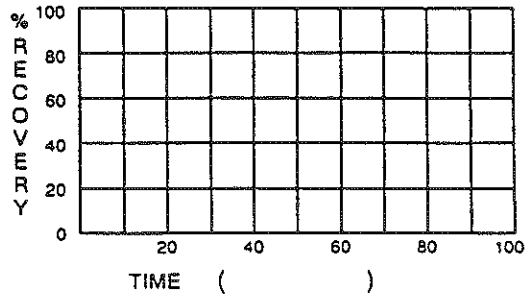
Bailed dry 6 times from 11/21/91 through 12/3/91. Removed a total volume of 16.25 gallons. Total development time of 3 hours, 20 minutes.

Stabilization Test Data:

Time	p H	Spec. Cond.	Temp (C)

Recovery Data:

Q= S_o=



Comments: Temporary piezometer - not used as a monitoring well. C-2RPD installed in C-2R borehole. 9 7/8" mud rotary 0-15', 8" temporary casing set 18' 10/6/91. Wood plug removed 11/7/91. 4" Solid stem auger to 60'. Piezometer installed 11/12/91. Natural collapse and bentonite chip backfill when 8" casing removed.

SITE NAME C W M Chemical Services, Inc.

SUPERVISED BY M. Mc Colloch

Well No. C-3PS

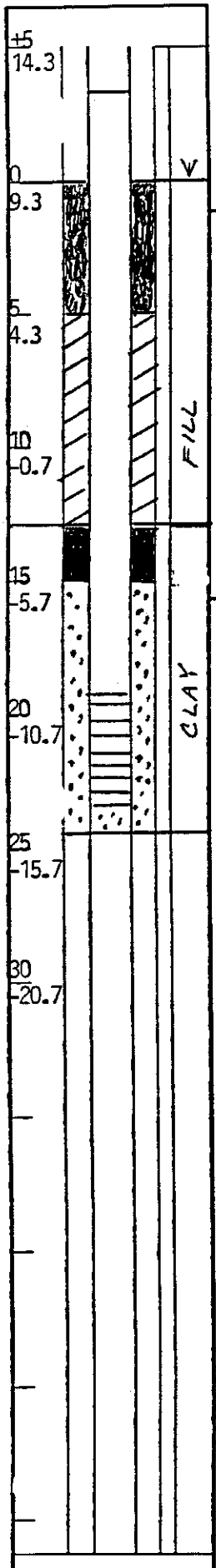
Boring No. X-Ref: C-3

MONITOR WELL CONSTRUCTION SUMMARY

Survey Coords: _____

Elevation Ground Level 9.3'

Top of Casing 12.27'



Drilling Summary:

Total Depth 24'
Borehole Diameter 4"
Casing Stick-up Height: 3'
Driller W T D Environmental Drilling

Rig BK-81
Bit(s) 4" OD Solid Stem Auger

Drilling Fluid None

Protective Casing None

Construction Time Log:

Task	Start Date	Start Time	Finish Date	Finish Time
Drilling	10/15	0900	10/15	1200
Geophys.Logging:				
Casing:				
Filter Placement:				
Cementing:				
Development:				

Well Design & Specifications

Basis: Geologic Log XX Geophysical Log ___

Casing String (s): C = Casing S = Screen.

Depth	String(s)	Elevation
+2.97 - 18	C1	12.27 - -8.7
18 - 23	S1	-8.7 - -13.7
___ - ___		___ - ___
___ - ___		___ - ___
___ - ___		___ - ___

Casing: C1 1 1/4" SCH 40 PVC

C2 _____

Screen: S1 1 1/4" SCH 40 PVC 0.010 Slot

S2 _____

Filter Pack: #30 Red Flint Sand (15 - 24')

Grout Seal: Bentonite chips (0-5'), Natural collapse (5-13')

Bentonite Seal: 1/4" bentonite pellets (13-15')

Well Development:

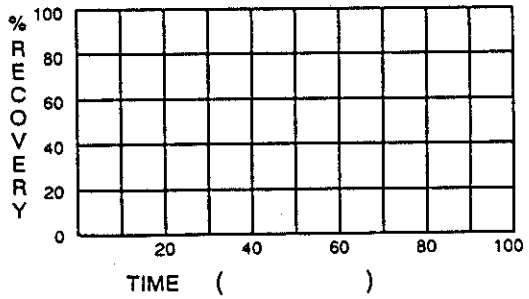
Bailed dry 8 times from 11/22/91 through 12/5/91. Removed a total of 10.5 Gallons. Total development time of 1 hour 55 minutes.

Stabilization Test Data:

Time	p H	Spec. Cond.	Temp (C)

Recovery Data:

Q= S_o=



Comments: Temporary piezometer - not used as a monitoring well. C-3PS adjacent to C-3 boring. 9 7/8" mud rotary 0 - 13' 8", temporary casing set to 15', 10/15/91. Wood plug removed 10/15/91. 4" Solid stem auger to 24'. Natural collapse and bentonite chip backfill when 8" casing removed.

SITE NAME C W M Chemical Services, Inc LOCATION Chicago Incinerator, Chicago IL

W 9316

SUPERVISED BY D. Trainor DATE 10/15/91

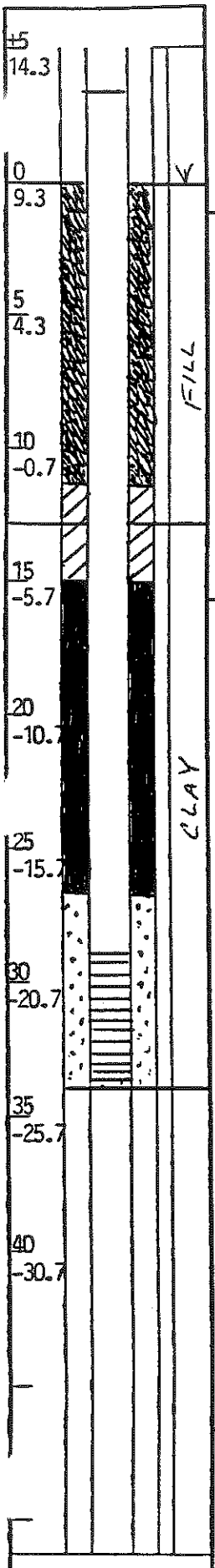
Well No. C-3PI

Boring No. X-Ref: C-3

MONITOR WELL CONSTRUCTION SUMMARY

Survey Coords: _____ Elevation Ground Level 9.3'

Top of Casing 12.31'



Drilling Summary:

Total Depth 34'
Borehole Diameter 4"
Casing Stick-up Height: 3'
Driller W T D Environmental Drilling
Rig BK-81
Bit(s) 4" OD Solid Stem Auger
Drilling Fluid None
Protective Casing None

Well Design & Specifications

Basis: Geologic Log XX Geophysical Log ____
Casing String (s): C = Casing S = Screen.

Depth	String(s)	Elevation
+3.01 - 28.9	C1	12.31 - -19.6
28.9 - 33.9	S1	-19.6 - -24.6
____ - ____	____	____ - ____
____ - ____	____	____ - ____
____ - ____	____	____ - ____

Casing: C1 1 1/4" SCH 40 PVC
C2 _____
Screen: S1 1 1/4" SCH 40 PVC 0.010 Slot
S2 _____
Filter Pack: #30 Red Flint Sand (26.8 - 34')
Grout Seal: Bentonite chips (0-11.5'), Natural Collapse (11.5-15')
Bentonite Seal: 1/4" bentonite pellets (15-26.8')

Construction Time Log:

Task	Start Date	Start Time	Finish Date	Finish Time
Drilling	10/09	1700	10/10	1200
Geophys. Logging:				
Casing:				
Filter Placement:				
Cementing:				
Development:	11/22	1100	11/22	1245
	11/25	1500	11/25	1630

Well Development:

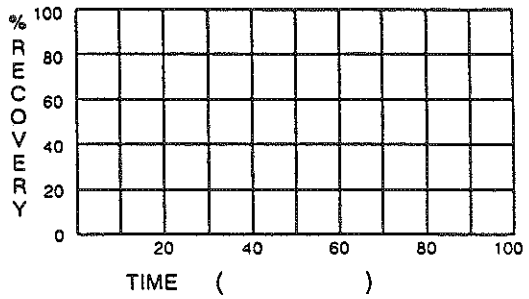
Bailed 13 1/2 gallons, 11/22/91
Bailed 6 gallons, 11/25/91
Total development time of 3 hours 15 min.

Stabilization Test Data:

Time	p H	Spec. Cond.	Temp (C)

Recovery Data:

Q= S_o=

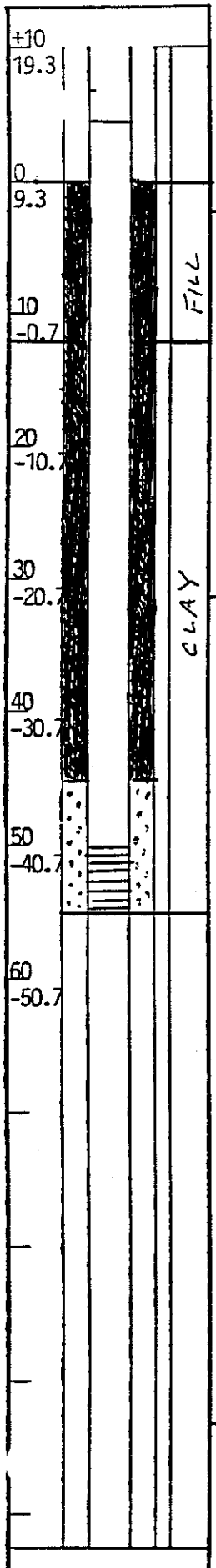


Comments: Temporary piezometer - not used as a monitoring well. C-3PI adjacent to C-3 borehole. 9 7/8" mud rotary 0-13', 8" temporary casing set to 15', 10/9/91. Wood plug removed 10/10/91. 4" Solid stem augers to 34'. Natural collapse and bentonite chip backfill when 8" casing removed.

SITE NAME C W M Chemical Services, Inc. LOCATION Chicago Incinerator, Chicago, IL.

WC 9217

SUPERVISED BY M. Mc Cullough DATE



Well No. C-3PD

Boring No. X-Ref: C-3

MONITOR WELL CONSTRUCTION SUMMARY

Survey Coords: _____

Elevation Ground Level 9.3'

Top of Casing 12.60'

Drilling Summary:

Total Depth 55'
Borehole Diameter 4"
Casing Stick-up Height: 3.3'
Driller W.T.D. Environmental Drilling

Rig BK-81
Bit(s) 4" OD Solid Stem Auger

Drilling Fluid None

Protective Casing None

Construction Time Log:

Task	Start Date	Start Time	Finish Date	Finish Time
Drilling	10/09	1200	10/09	1700
Geophys. Logging:				
Casing:				
Filter Placement:				
Cementing:				
Development:				

Well Design & Specifications

Basis: Geologic Log XX Geophysical Log ____
Casing String (s): C = Casing S = Screen.

Depth	String(s)	Elevation
+3.30 - 49	C1	12.60 - -39.7
49 - 54	S1	-39.7 - -44.7
____ - ____		____ - ____
____ - ____		____ - ____
____ - ____		____ - ____

Casing: C1 1 1/4" SCH 40 PVC
C2 _____

Screen: S1 1 1/4" SCH 40 PVC 0.010 Slot
S2 _____

Filter Pack: #30 Red Flint Sand (46-55')

Grout Seal: Bentonite slurry (0-46')

Bentonite Seal: Bentonite slurry (0-46')

Well Development:

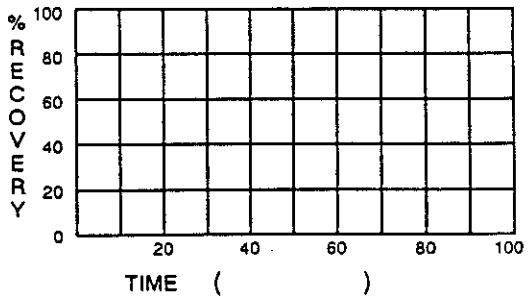
Bailed dry 8 times from 11/22/91 through 12/5/91. Removed a total of 15 gallons. Total development time of 3 hours, 45 minutes

Stabilization Test Data:

Time	p H	Spec. Cond.	Temp (C)

Recovery Data:

Q= S_o=



Comments: Temporary piezometer - not used as a monitoring well. C-3PD adjacent to C-3. 9 7/8" mud rotary 0-13'. 8" Temporary casing set to 15', 10/9/91. Wood plug removed 10/9/91. 4" Solid stem auger to 55'.

SITE NAME C W M Chemical Services, Inc. LOCATION Chicago Incinerator, Chicago, IL.

SUPERVISED BY D. Trainor

WC 2210

Well No. C-6PS

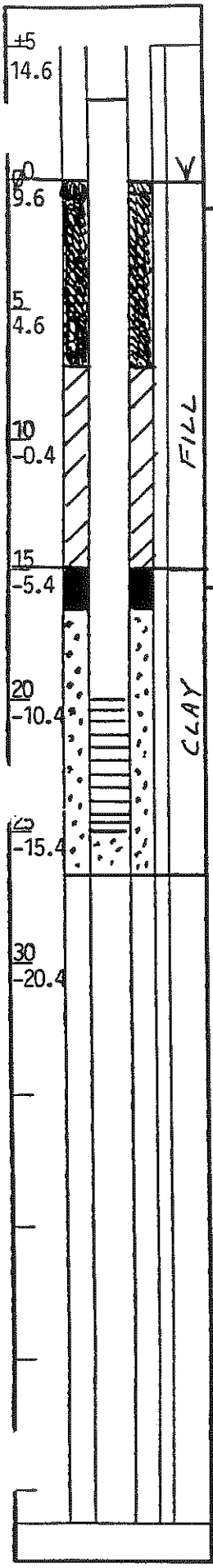
Boring No. X-Ref: C-6

MONITOR WELL CONSTRUCTION SUMMARY

Survey Coords: _____

Elevation Ground Level 9.6'

Top of Casing 11.84'



Drilling Summary:

Total Depth 27'
Borehole Diameter 4"
Casing Stick-up Height: 2.2'
Driller W T D Environmental Drilling
Rig BK-81
Bit(s) 4" OD Solid Stem Auger
Drilling Fluid None
Protective Casing None

Construction Time Log:

Task	Start Date	Start Time	Finish Date	Finish Time
Drilling	10/15	1200	10/15	1500
Geophys. Logging:				
Casing:				
Filter Placement:				
Cementing:				
Development:				

Well Design & Specifications

Basis: Geologic Log XX Geophysical Log ___
Casing String (s): C = Casing S = Screen.

Depth	String(s)	Elevation
+2.24 - 20	C1	11.84 - -10.4
20 - 25	S1	-10.4 - -15.4
___ - ___	___	___ - ___
___ - ___	___	___ - ___
___ - ___	___	___ - ___

Casing: C1 1 1/4" SCH 40 PVC
C2 _____
Screen: S1 1 1/4" SCH 40 PVC
0.010 Slot
S2 _____

Filter Pack: #30 Red Flint Sand (17-25')

Grout Seal: Bentonite chips (0-7.6')
Natural collapse (7.6-15.1')

Bentonite Seal: 1/4" Bentonite pellets (15.1-17')

Well Development:

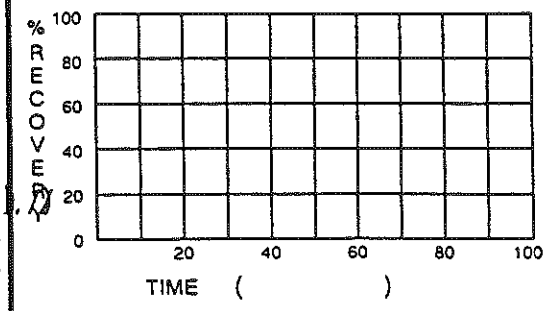
Bailed dry 6 times from 11/13/91 through 11/27/91. Removed a total volume of 9.25 gallons. Total development time of 2 hours, 10 minutes.

Stabilization Test Data:

Time	pH	Spec. Cond.	Temp (C)

Recovery Data:

Q= S_o=



Comments: Temporary piezometer - not used as a monitoring well. C-6PS adjacent to C-6 borehole. 9 7/8" mud rotary 0-15', 8" temporary casing set to 18', 10/15/91. Wood plug removed 10/15/91. 4" Solid stem auger to 27'. Natural collapse and bentonite chip backfill when 6" casing removed.

SITE NAME C W M Chemical Services, Inc.

SUPERVISED BY D. Trainor

Well No. C-6PI

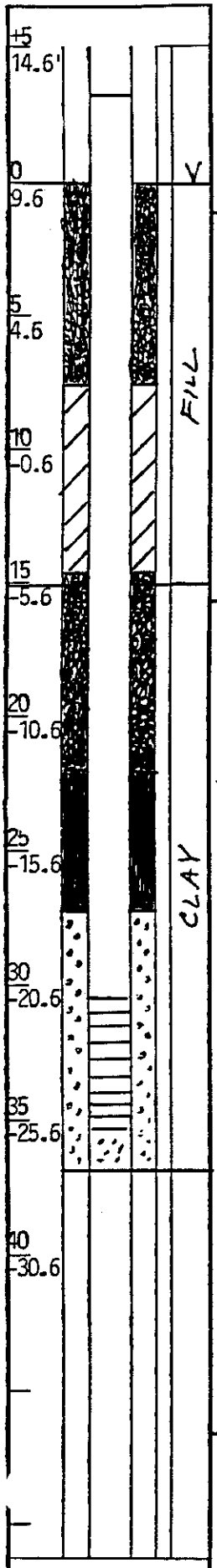
Boring No. X-Ref: C-6

MONITOR WELL CONSTRUCTION SUMMARY

Survey Coords: _____

Elevation Ground Level 9.6'

Top of Casing 12.60'



Drilling Summary:

Total Depth 37'
Borehole Diameter 4"
Casing Stick-up Height: 3'
Driller W.T.D Environmental Drilling

Rig BK-81
Bit(s) 4" OD Solid Stem Auger

Drilling Fluid None

Protective Casing None

Well Design & Specifications

Basis: Geologic Log XX Geophysical Log ___
Casing String (s): C = Casing S = Screen.

Depth	String(s)	Elevation
+3.0 - 31	C1	12.60 - 21.4
31 - 36	S1	-21.4 - 26.4
___ - ___	___	___ - ___
___ - ___	___	___ - ___
___ - ___	___	___ - ___

Casing: C1 1 1/4" SCH 40 PVC

C2 _____

Screen: S1 1 1/4" SCH 40 PVC 0.010 Slot

S2 _____

Filter Pack: #30 Red Flint Sand (27.8-37')

Grout Seal: Bentonite chips (0-7.5')
Natural collapse (7.5-14.9')
Bentonite chips (14.9-22')

Bentonite Seal: 1/4" Bentonite pellets (22-27.8')

Construction Time Log:

Task	Start Date	Start Time	Finish Date	Finish Time
Drilling	10/15	1500	10/15	1700
Geophys. Logging:				
Casing:				
Filter Placement:				
Cementing:				
Development:				

Well Development:

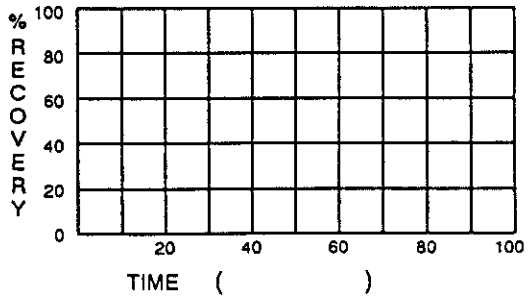
Bailed dry 6 times from 11/13/91 through 11/25/91. Removed a total of 12 1/2 gallons. Total development time of 2 hours, 45 minutes.

Stabilization Test Data:

Time	p H	Spec. Cond.	Temp (C)

Recovery Data:

Q= S_o=



Comments: Temporary piezometer - not used as a monitoring well. C-6PI adjacent to C-6 boring. 9 7/8" mud rotary 0-16'. 6" temporary casing set to 18', 10/15/91. Wood plug removed 10/15/91. 4" Solid stem auger to 37'. Natural collapse and bentonite chip backfill when 6" casing pulled.

SITE NAME C.W.M. Chemical Services, Inc. LOCATION Chicago, Illinois

SUPERVISED BY D. Trainor DATE 10/15/91

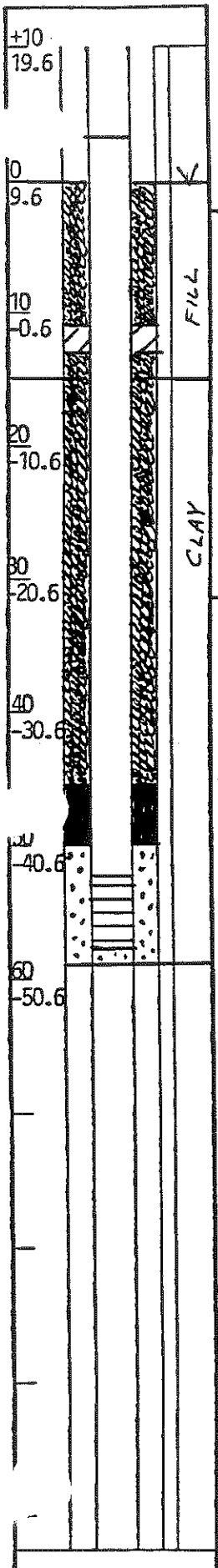
Well No. C-6PD

Boring No. X-Ref: C-6

MONITOR WELL CONSTRUCTION SUMMARY

Survey Coords: _____ Elevation Ground Level 9.6'

Top of Casing 10.32



Drilling Summary:

Total Depth 59'
Borehole Diameter 7"
Casing Stick-up Height: 0.7'
Driller W T D Environmental Drilling
Rig BK-81
Bit(s) 3 1/4" ID Hollow Stem Auger
Drilling Fluid None
Protective Casing None

Construction Time Log:

Task	Start Date	Start Time	Finish Date	Finish Time
Drilling	09/27	1200	10/01	1200
Geophys.Logging:				
Casing:				
Filter Placement:				
Cementing:				
Development:				

Well Design & Specifications

Basis: Geologic Log XX Geophysical Log ____
Casing String (s): C = Casing S = Screen.

Depth	String(s)	Elevation
+.072 - 53.8	C1	10.32 - -44.2
53.8 - 58.8	S1	-44.2 - -49.2
____ - ____		____ - ____
____ - ____		____ - ____
____ - ____		____ - ____

Casing: C1 1 1/4" SCH 40 PVC
C2 _____
Screen: S1 1 1/4" SCH 40 PVC
S2 _____
Filter Pack: #30 Red Flint Sand (50.8-59')
Grout Seal: Bentonite chips (0-12')
Natural collapse (12-13')
Bentonite chips (13-46.6')
Bentonite Seal: 1/4" Bentonite pellets (46.6-50.8')

Well Development:

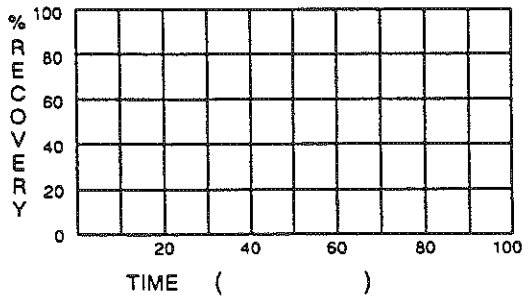
Bailed dry 10 times from 11/20/91 through 12/6/91. Removed a total of 19.75 gallons. Total development time of 4 hours, 5 minutes

Stabilization Test Data:

Time	p H	Spec. Cond.	Temp (C)

Recovery Data:

Q= S_o=



Comments: Temporary piezometer - not used as a monitoring well. C-6PD installed in C-6 borehole. 9 7/8" mud rotary 0-15', 8" temporary casing set to 18', 9/27/91. Wood plug removed 9/30/91. 3 1/4" ID HSA to 59'. Natural collapse and bentonite chip backfill when 8" casing removed.

SITE NAME C W M Chemical Services, Inc. LOCATION Chicago Incinerator, Chicago, IL.

WC 9222

SUPERVISED BY D. Trainor DATE 10/1/91

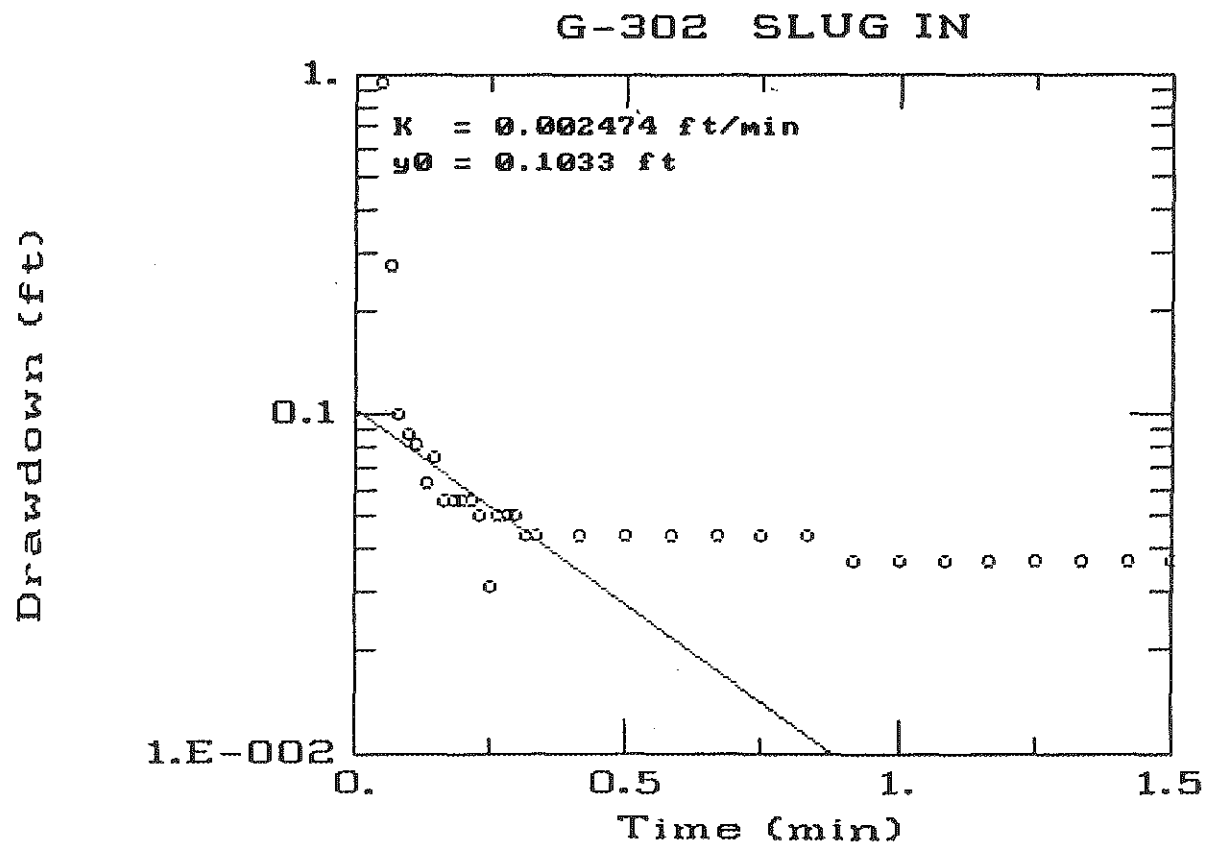
Printed on recycled paper ©

F

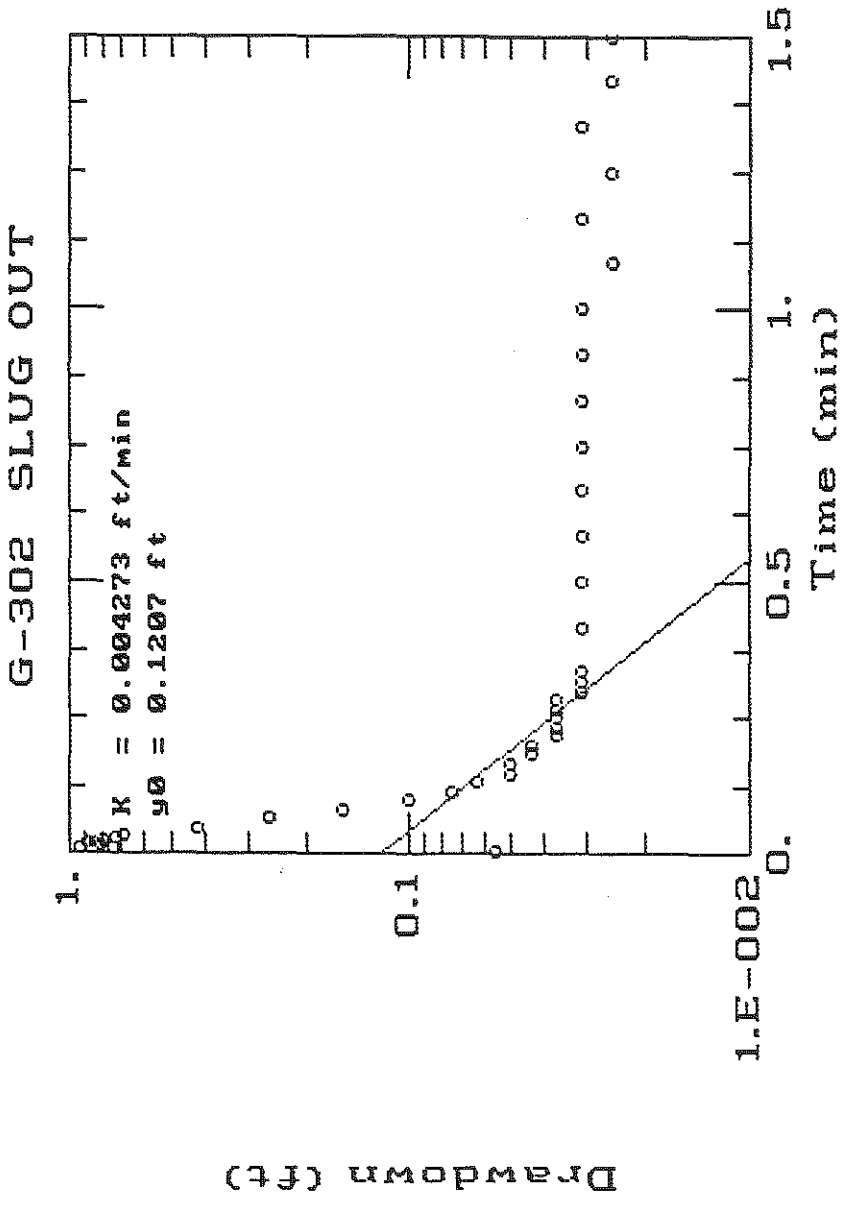
Manufactured By EconoPrint, Inc., Madison, WI

Printed On Recycled Paper

APPENDIX F
SLUG TEST RESULTS FOR RFI WELLS

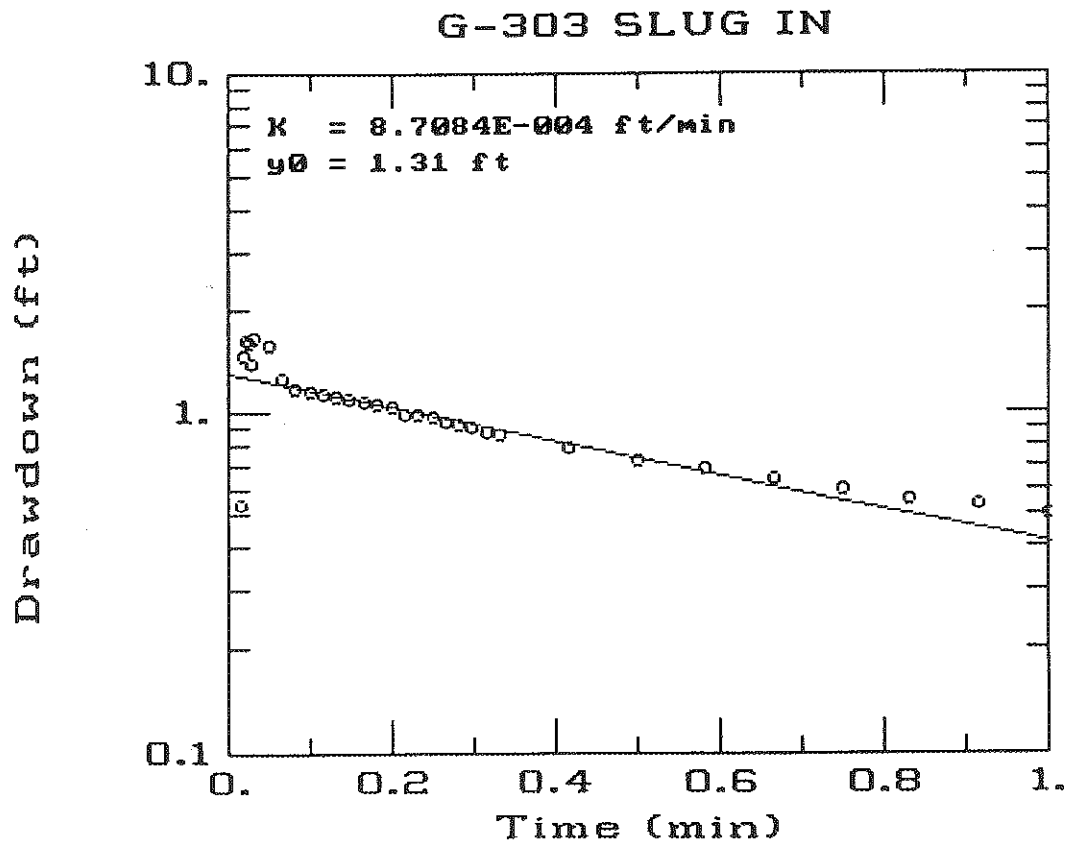

G-302 SLUG IN
K = 0.002474 ft/min
y0 = 0.1033 ft
1.
0.1
1.E-002
Drawdown (ft)
0.
0.5
1.
1.5
Time (min)

G-302 SLUG IN
slugt1
0.271
0.083
0.375
slugt2
5.8
5.8
3.8
tsdata
0.05 0.954 1
0.0666 0.271 1
0.0833 0.101 1
0.1 0.088 1
0.1166 0.082 1
0.1333 0.063 1
0.15 0.075 1
0.1666 0.056 1
0.1833 0.056 1
0.2 0.056 1
0.2166 0.056 1
0.2333 0.05 1
0.25 0.031 1
0.2666 0.05 1
0.2833 0.05 1
0.3 0.05 1
0.3166 0.044 1
0.3333 0.044 1
0.4166 0.044 1
0.5 0.044 1
0.5833 0.044 1
0.6666 0.044 1
0.75 0.044 1
0.8333 0.044 1
0.9166 0.037 1
1 0.037 1
1.0833 0.037 1
1.1666 0.037 1
1.25 0.037 1
1.3333 0.037 1
1.4166 0.037 1
1.5 0.037 1
1.5833 0.037 1
1.6666 0.037 1
1.75 0.037 1
1.8333 0.037 1
1.9166 0.037 1
2 0.037 1
2.5 0.037 1
3 0.037 1
3.5 0.037 1
4 0.037 1
4.5 0.044 1
5 0.044 1
5.5 0.044 1
6 0.044 1
6.5 0.044 1
7 0.044 1
7.5 0.044 1
8 0.044 1
8.5 0.037 1
9 0.044 1
9.5 0.037 1
10 0.044 1
11 0.044 1
12 0.037 1
13 0.037 1
14 0.037 1
15 0.037 1
16 0.037 1
17 0.037 1
18 0.037 1
19 0.044 1
20 0.044 1


G-302 SLUG OUT
K = 0.004273 ft/min
y0 = 0.1207 ft
Drawdown (ft)
1.
0.1
1.E-002
0.
0.5
1.
1.5
Time (min)

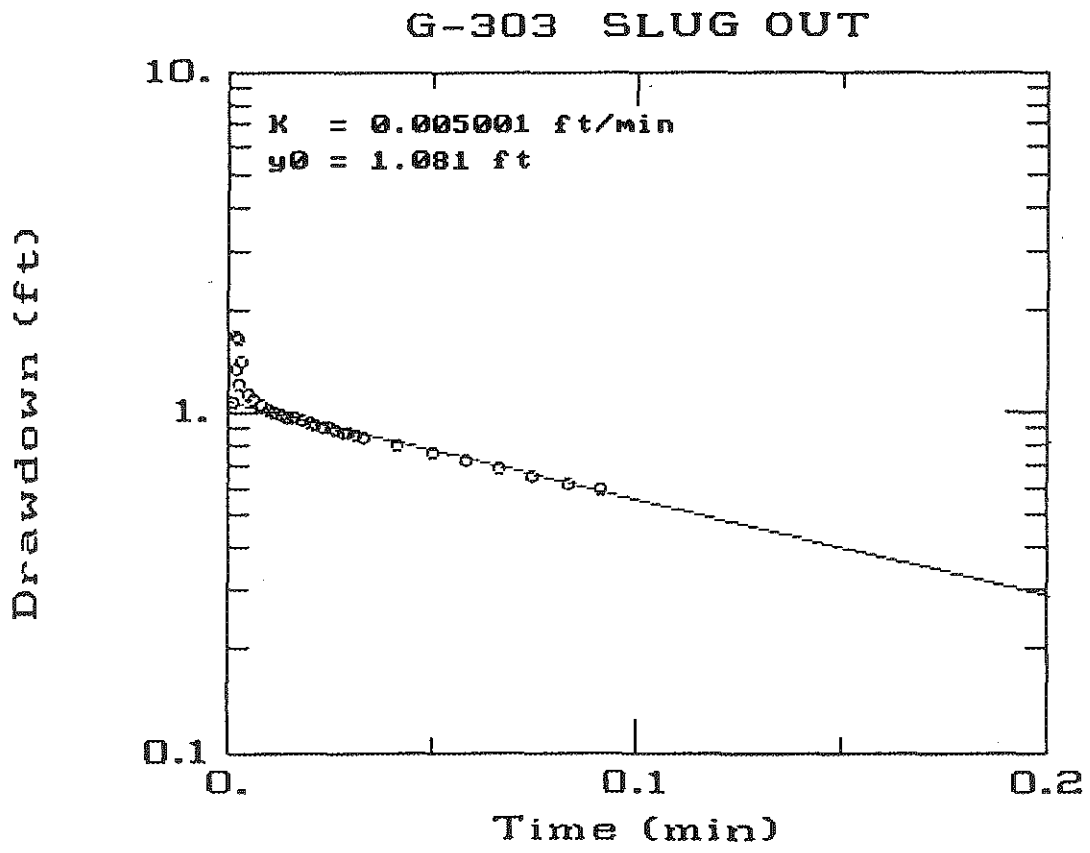
G-302 SLUG OUT
SLUGT1
0.929
0.083
0.375
SLUGT2
5.8
5.8
3.8
TSDATA

0.0000	0.000	1
0.0033	0.000	1
0.0066	0.056	1
0.0100	0.929	1
0.0133	0.746	1
0.0166	0.815	1
0.0200	0.878	1
0.0233	0.834	1
0.0266	0.790	1
0.0300	0.727	1
0.0333	0.689	1
0.0500	0.417	1
0.0666	0.259	1
0.0833	0.158	1
0.1000	0.101	1
0.1166	0.075	1
0.1333	0.063	1
0.1500	0.050	1
0.1666	0.050	1
0.1833	0.044	1
0.2000	0.044	1
0.2166	0.037	1
0.2333	0.037	1
0.2500	0.037	1
0.2666	0.037	1
0.2833	0.037	1
0.3000	0.031	1
0.3166	0.031	1
0.3333	0.031	1
0.4166	0.031	1
0.5000	0.031	1
0.5833	0.031	1
0.6666	0.031	1
0.7500	0.031	1
0.8333	0.031	1
0.9166	0.031	1
1.0000	0.031	1
1.0833	0.025	1
1.1666	0.031	1
1.2500	0.025	1
1.3333	0.031	1
1.4166	0.025	1
1.5000	0.025	1
1.5833	0.025	1
1.6666	0.025	1
1.7500	0.025	1
1.8333	0.025	1
1.9166	0.025	1
2.0000	0.025	1
2.5000	0.025	1
3.0000	0.025	1
3.5000	0.025	1
4.0000	0.025	1
4.5000	0.025	1
5.0000	0.025	1
5.5000	0.025	1
6.0000	0.050	1
6.5000	0.031	1
7.0000	0.031	1
7.5000	0.025	1
8.0000	0.025	1
8.5000	0.025	1
9.0000	0.025	1
9.5000	0.025	1
10.0000	0.025	1
11.0000	0.025	1
12.0000	0.018	1
13.0000	0.025	1
14.0000	0.037	1
15.0000	0.031	1
16.0000	0.031	1
17.0000	0.025	1
18.0000	0.025	1
19.0000	0.031	1
20.0000	0.031	1
21.0000	0.031	1
22.0000	0.025	1
23.0000	0.025	1
24.0000	0.031	1
25.0000	0.025	1
26.0000	0.082	1
27.0000	0.025	1
28.0000	0.025	1
29.0000	0.025	1
30.0000	0.037	1


G-303 SLUG IN
K = 8.7084E-004 ft/min
y0 = 1.31 ft
Drawdown (ft)
10.
1.
0.1
0.
0.2
0.4
0.6
0.8
1.
Time (min)

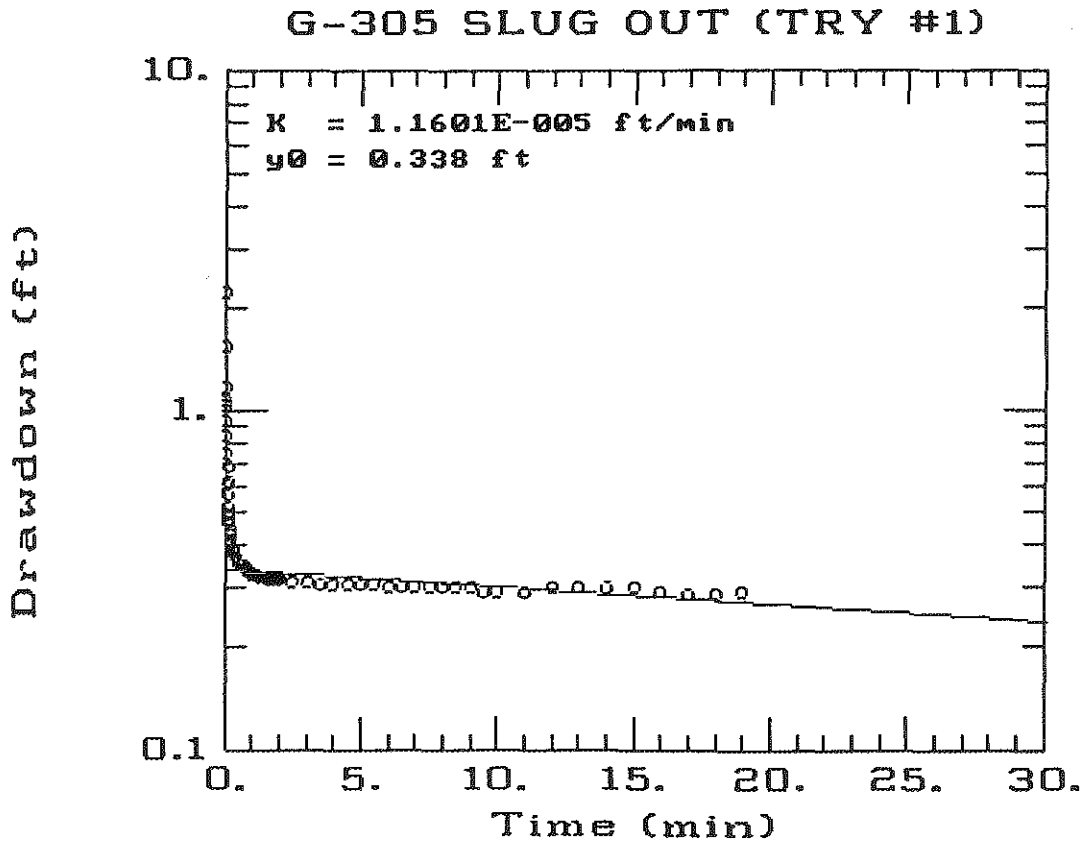
G-303 SLUG IN
slugt1
1.619
0.083
0.375
slugt2
8.24
8.24
5.24
tsdata

0.0000	0.000	1
0.0033	0.006	1
0.0066	0.000	1
0.0100	0.006	1
0.0133	0.006	1
0.0166	0.543	1
0.0200	1.454	1
0.0233	1.619	1
0.0266	1.587	1
0.0300	1.397	1
0.0333	1.656	1
0.0500	1.562	1
0.0666	1.252	1
0.0833	1.169	1
0.1000	1.151	1
0.1166	1.138	1
0.1333	1.113	1
0.1500	1.094	1
0.1666	1.075	1
0.1833	1.056	1
0.2000	1.030	1
0.2166	0.992	1
0.2333	0.986	1
0.2500	0.961	1
0.2666	0.942	1
0.2833	0.917	1
0.3000	0.898	1
0.3166	0.879	1
0.3333	0.860	1
0.4166	0.784	1
0.5000	0.727	1
0.5833	0.683	1
0.6666	0.638	1
0.7500	0.600	1
0.8333	0.562	1
0.9166	0.537	1
1.0000	0.505	1
1.0833	0.486	1
1.1666	0.461	1
1.2500	0.442	1
1.3333	0.423	1
1.4166	0.404	1
1.5000	0.392	1
1.5833	0.373	1
1.6666	0.366	1
1.7500	0.354	1
1.8333	0.347	1
1.9166	0.335	1
2.0000	0.322	1
2.5000	0.290	1
3.0000	0.265	1
3.5000	0.246	1
4.0000	0.233	1
4.5000	0.227	1
5.0000	0.221	1
5.5000	0.221	1
6.0000	0.215	1
6.5000	0.215	1
7.0000	0.208	1
7.5000	0.202	1
8.0000	0.196	1
8.5000	0.196	1
9.0000	0.189	1
9.5000	0.189	1
10.0000	0.189	1
11.0000	0.189	1
12.0000	0.183	1
13.0000	0.183	1
14.0000	0.177	1
15.0000	0.177	1
16.0000	0.177	1
17.0000	0.177	1
18.0000	0.177	1
19.0000	0.177	1
20.0000	0.183	1


G-303 SLUG OUT
K = 0.005001 ft/min
y0 = 1.081 ft
10.
1.
0.1
0.
0.1
0.2
Drawdown (ft)
Time (min)

G-303 SLUG OUT
slugt1
1.694
0.083
0.375
slugt2
8.24
8.24
5.24
tsdata

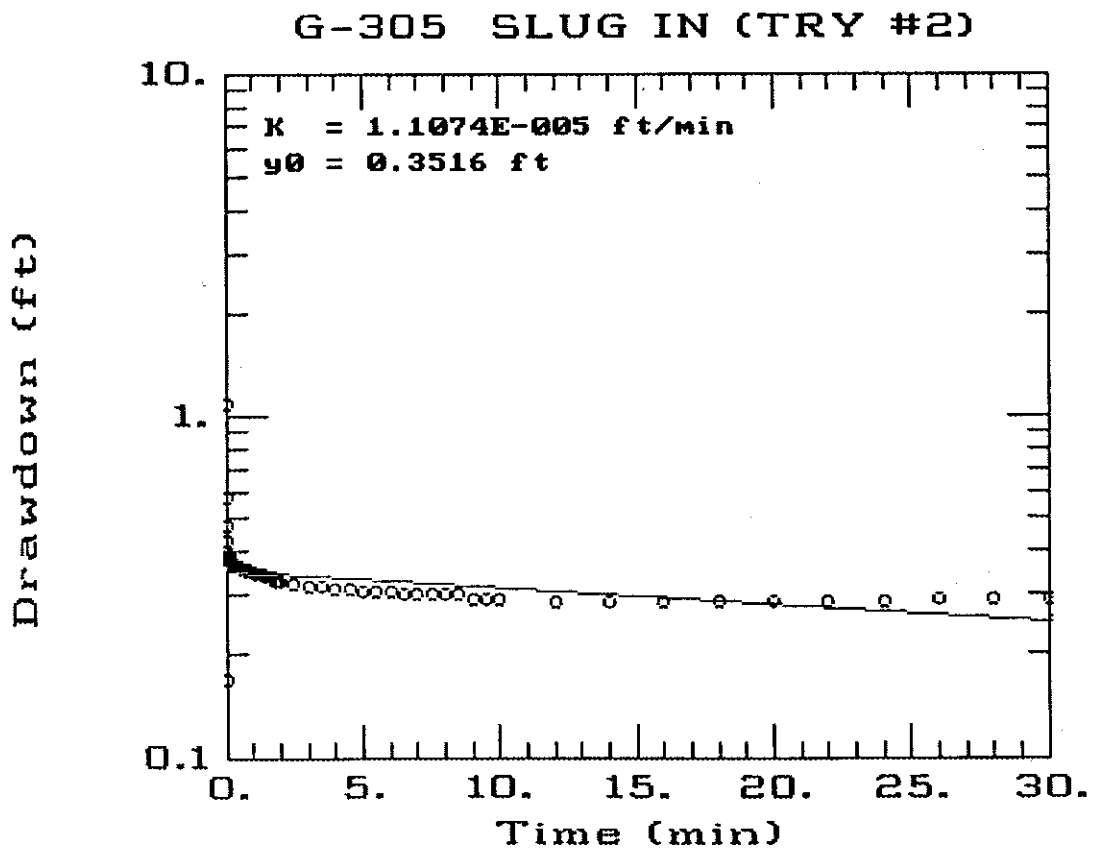
0.00000	0.0000	1
0.00033	0.0000	1
0.00066	0.006	1
0.00100	0.0006	1
0.00133	0.082	1
0.00166	1.075	1
0.00200	1.340	1
0.00233	1.694	1
0.00266	1.656	1
0.00300	1.220	1
0.00333	1.410	1
0.00500	1.138	1
0.00666	1.087	1
0.00833	1.049	1
0.01000	1.024	1
0.01166	1.005	1
0.01333	0.992	1
0.01500	0.973	1
0.01666	0.961	1
0.01833	0.948	1
0.02000	0.942	1
0.02166	0.923	1
0.02333	0.910	1
0.02500	0.904	1
0.02666	0.891	1
0.02833	0.879	1
0.03000	0.866	1
0.03166	0.860	1
0.03333	0.847	1
0.04166	0.796	1
0.05000	0.758	1
0.05833	0.720	1
0.06666	0.683	1
0.07500	0.651	1
0.08333	0.619	1
0.09166	0.594	1
1.00000	0.569	1
1.00833	0.543	1
1.01666	0.518	1
1.02500	0.505	1
1.03333	0.486	1
1.04166	0.474	1
1.05000	0.455	1
1.05833	0.436	1
1.06666	0.423	1
1.07500	0.417	1
1.08333	0.404	1
1.09166	0.392	1
2.0000	0.385	1
2.5000	0.335	1
3.0000	0.290	1
3.5000	0.271	1
4.0000	0.252	1
4.5000	0.240	1
5.0000	0.221	1
5.5000	0.202	1
6.0000	0.189	1
6.5000	0.183	1
7.0000	0.183	1
7.5000	0.170	1
8.0000	0.164	1
8.5000	0.164	1
9.0000	0.158	1
9.5000	0.151	1
10.0000	0.151	1
11.0000	0.139	1
12.0000	0.139	1
13.0000	0.126	1
14.0000	0.132	1
15.0000	0.126	1
16.0000	0.126	1
17.0000	0.120	1
18.0000	0.113	1
19.0000	0.107	1
20.0000	0.107	1


G-305 SLUG OUT (TRY #1)
K = 1.1601E-005 ft/min
y0 = 0.338 ft
10.
1.
0.1
Drawdown (ft)
0.
5.
10.
15.
20.
25.
30.
Time (min)

G-305 SLUG IN (TRY # 1)
slugt1
1.650
0.083
0.375
slugt2
4.96
4.96
2.96
tsdata

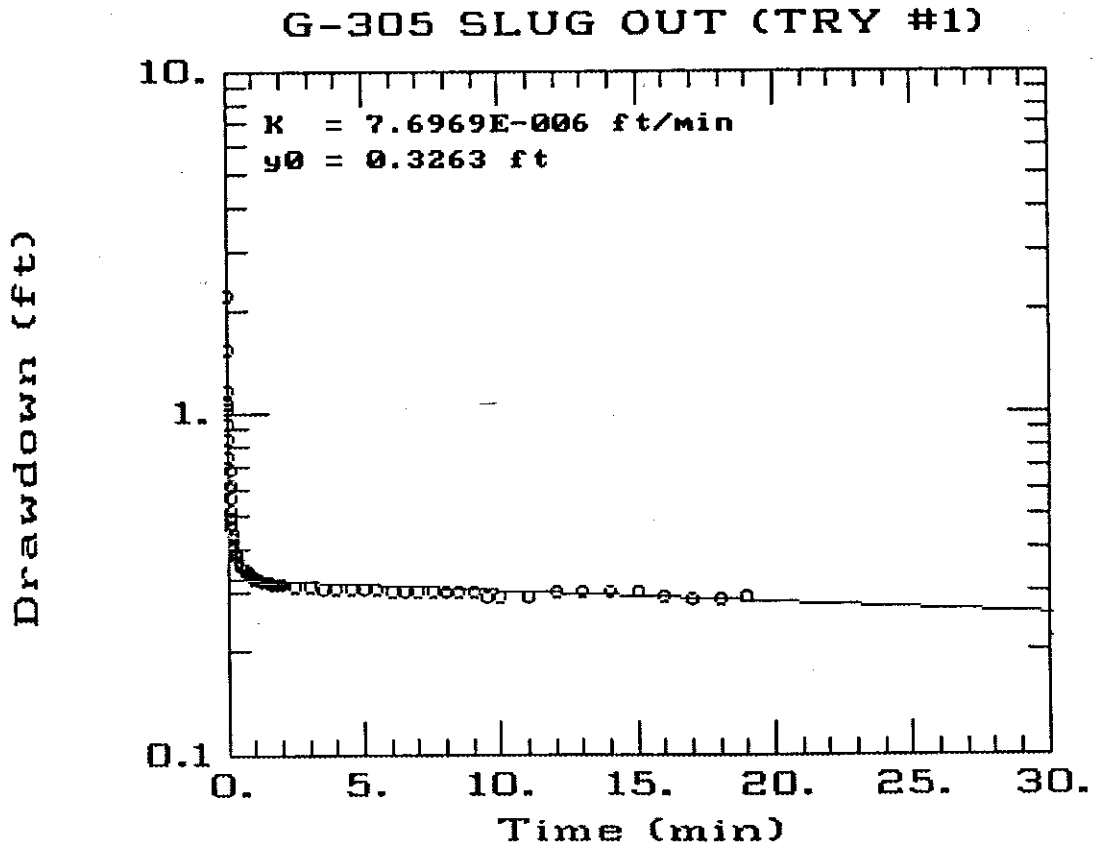
0.0000	0.000	1
0.0033	0.000	1
0.0066	0.000	1
0.0100	0.000	1
0.0133	0.000	1
0.0166	0.006	1
0.0200	0.006	1
0.0233	0.006	1
0.0266	1.138	1
0.0300	0.834	1
0.0333	1.650	1
0.0500	0.436	1
0.0666	0.284	1
0.0833	0.259	1
0.1000	0.252	1
0.1166	0.259	1
0.1333	0.259	1
0.1500	0.259	1
0.1666	0.259	1
0.1833	0.259	1
0.2000	0.265	1
0.2166	0.265	1
0.2333	0.265	1
0.2500	0.265	1
0.2666	0.265	1
0.2833	0.265	1
0.3000	0.265	1
0.3166	0.265	1
0.3333	0.265	1
0.4166	0.271	1
0.5000	0.271	1
0.5833	0.271	1
0.6666	0.271	1
0.7500	0.271	1
0.8333	0.271	1
0.9166	0.271	1
1.0000	0.271	1
1.0833	0.271	1
1.1666	0.271	1
1.2500	0.271	1
1.3333	0.271	1
1.4166	0.271	1
1.5000	0.271	1
1.5833	0.271	1
1.6666	0.271	1
1.7500	0.271	1
1.8333	0.271	1
1.9166	0.271	1
2.0000	0.271	1
2.5000	0.271	1
3.0000	0.271	1
3.5000	0.271	1
4.0000	0.271	1
4.5000	0.271	1
5.0000	0.271	1
5.5000	0.271	1
6.0000	0.271	1
6.5000	0.271	1
7.0000	0.278	1
7.5000	0.271	1
8.0000	0.278	1
8.5000	0.278	1
9.0000	0.278	1
9.5000	0.278	1
10.0000	0.278	1
11.0000	0.278	1
12.0000	0.271	1
13.0000	0.278	1
14.0000	0.278	1
15.0000	0.278	1
16.0000	0.278	1
17.0000	0.271	1
18.0000	0.271	1
19.0000	0.271	1
20.0000	0.271	1
21.0000	0.278	1
22.0000	0.278	1
23.0000	0.278	1
24.0000	0.271	1
25.0000	0.271	1
26.0000	0.271	1
27.0000	0.271	1
28.0000	0.271	1
29.0000	0.271	1
30.0000	0.271	1
31.0000	0.271	1

32.0000	0.271	1
33.0000	0.271	1
34.0000	0.278	1
35.0000	0.271	1
36.0000	0.278	1
37.0000	0.271	1
38.0000	0.271	1
39.0000	0.278	1
40.0000	0.278	1
41.0000	0.278	1
42.0000	0.278	1
43.0000	0.278	1
44.0000	0.278	1
45.0000	0.278	1
46.0000	0.278	1
47.0000	0.278	1
48.0000	0.278	1
49.0000	0.278	1
50.0000	0.278	1
51.0000	0.278	1
52.0000	0.278	1
53.0000	0.278	1
54.0000	0.278	1
55.0000	0.278	1
56.0000	0.278	1
57.0000	0.284	1
58.0000	0.278	1
59.0000	0.278	1
60.0000	0.278	1
61.0000	0.278	1
62.0000	0.278	1
63.0000	0.278	1
64.0000	0.278	1


G-305 SLUG IN (TRY #2)
K = 1.1074E-005 ft/min
y0 = 0.3516 ft
Drawdown (ft)
10.
1.
0.1
0.
5.
10.
15.
20.
25.
30.
Time (min)

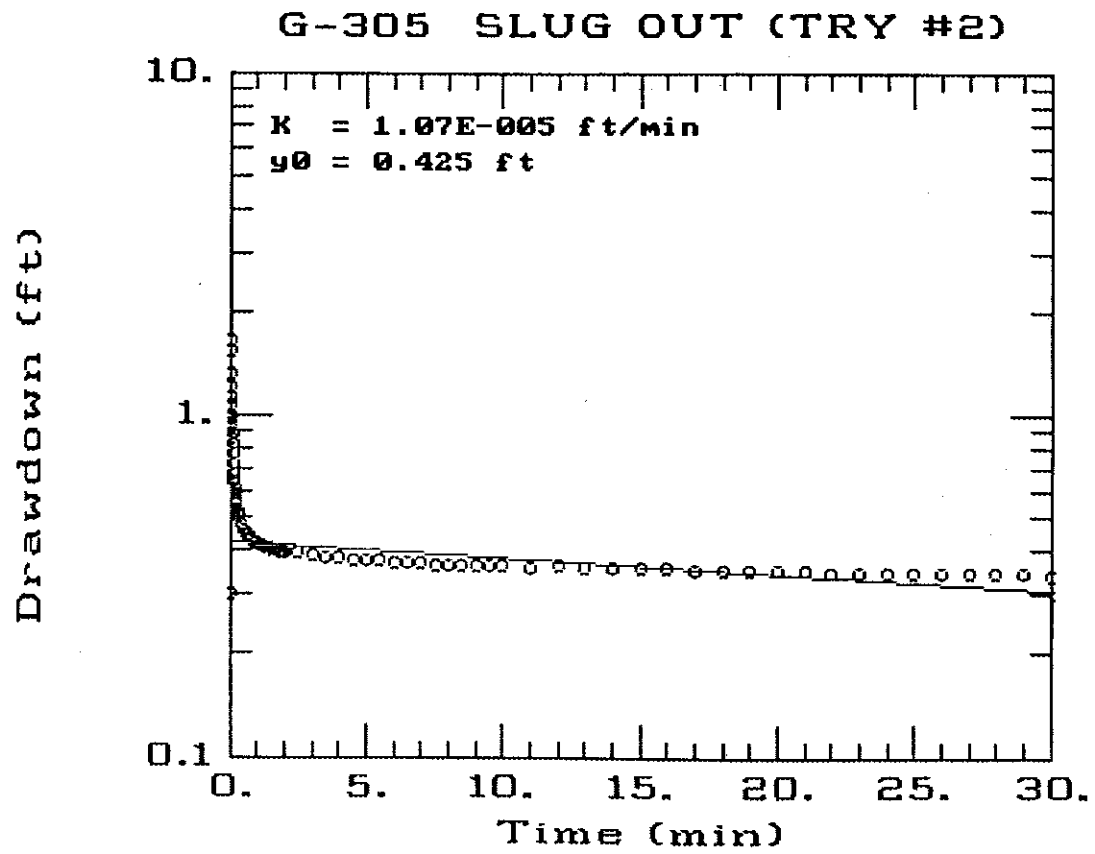
G-305 SLUG IN (TRY #2)
slugt1
1.087
0.083
0.375
slugt2
4.96
4.96
2.96
tsdata

0.0000	0.000	1
0.0033	0.000	1
0.0066	0.000	1
0.0100	0.006	1
0.0133	0.000	1
0.0166	0.000	1
0.0200	0.000	1
0.0233	0.000	1
0.0266	0.012	1
0.0300	0.480	1
0.0333	1.087	1
0.0500	0.170	1
0.0666	0.575	1
0.0833	0.430	1
0.1000	0.392	1
0.1166	0.385	1
0.1333	0.379	1
0.1500	0.379	1
0.1666	0.373	1
0.1833	0.373	1
0.2000	0.373	1
0.2166	0.373	1
0.2333	0.366	1
0.2500	0.366	1
0.2666	0.366	1
0.2833	0.366	1
0.3000	0.366	1
0.3166	0.366	1
0.3333	0.366	1
0.4166	0.360	1
0.5000	0.360	1
0.5833	0.354	1
0.6666	0.354	1
0.7500	0.354	1
0.8333	0.347	1
0.9166	0.347	1
1.0000	0.347	1
1.0833	0.341	1
1.1666	0.341	1
1.2500	0.341	1
1.3333	0.341	1
1.4166	0.335	1
1.5000	0.335	1
1.5833	0.335	1
1.6666	0.335	1
1.7500	0.335	1
1.8333	0.328	1
1.9166	0.328	1
2.0000	0.328	1
2.5000	0.322	1
3.0000	0.316	1
3.5000	0.316	1
4.0000	0.309	1
4.5000	0.309	1
5.0000	0.303	1
5.5000	0.303	1
6.0000	0.303	1
6.5000	0.297	1
7.0000	0.297	1
7.5000	0.297	1
8.0000	0.297	1
8.5000	0.297	1
9.0000	0.290	1
9.5000	0.290	1
10.0000	0.290	1
12.0000	0.284	1
14.0000	0.284	1
16.0000	0.284	1
18.0000	0.284	1
20.0000	0.284	1
22.0000	0.284	1
24.0000	0.284	1
26.0000	0.290	1
28.0000	0.290	1
30.0000	0.290	1
32.0000	0.290	1
34.0000	0.290	1
36.0000	0.290	1
38.0000	0.290	1
40.0000	0.297	1
42.0000	0.290	1
44.0000	0.297	1
46.0000	0.297	1
48.0000	0.297	1
50.0000	0.297	1


G-305 SLUG OUT (TRY #1)
K = 7.6969E-006 ft/min
y0 = 0.3263 ft
10.
1.
0.1
Drawdown (ft)
0.
5.
10.
15.
20.
25.
30.
Time (min)

G-305 SLUG OUT (TRY #1)
slugt1
1.536
0.083
0.375
slugt2
4.96
4.96
2.96
tsdata

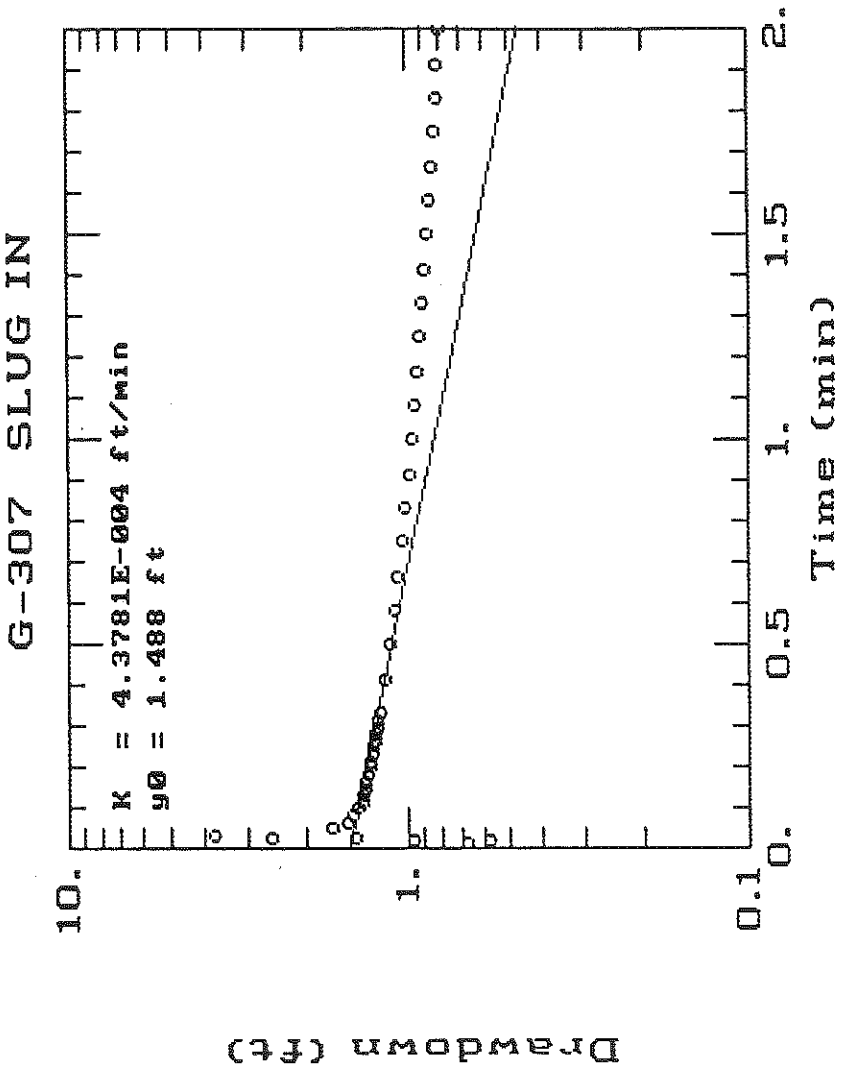
0.0000	0.000	1
0.0033	0.000	1
0.0066	0.006	1
0.0100	0.006	1
0.0133	2.213	1
0.0166	0.613	1
0.0200	1.536	1
0.0233	1.163	1
0.0266	1.081	1
0.0300	1.068	1
0.0333	1.037	1
0.0500	0.935	1
0.0666	0.841	1
0.0833	0.752	1
0.1000	0.683	1
0.1166	0.619	1
0.1333	0.569	1
0.1500	0.524	1
0.1666	0.493	1
0.1833	0.467	1
0.2000	0.448	1
0.2166	0.430	1
0.2333	0.417	1
0.2500	0.411	1
0.2666	0.404	1
0.2833	0.398	1
0.3000	0.392	1
0.3166	0.385	1
0.3333	0.379	1
0.4166	0.366	1
0.5000	0.354	1
0.5833	0.347	1
0.6666	0.347	1
0.7500	0.341	1
0.8333	0.335	1
0.9166	0.335	1
1.0000	0.328	1
1.0833	0.328	1
1.1666	0.328	1
1.2500	0.322	1
1.3333	0.322	1
1.4166	0.322	1
1.5000	0.322	1
1.5833	0.322	1
1.6666	0.316	1
1.7500	0.316	1
1.8333	0.316	1
1.9166	0.316	1
2.0000	0.316	1
2.5000	0.309	1
3.0000	0.309	1
3.5000	0.303	1
4.0000	0.303	1
4.5000	0.303	1
5.0000	0.303	1
5.5000	0.303	1
6.0000	0.297	1
6.5000	0.297	1
7.0000	0.297	1
7.5000	0.297	1
8.0000	0.297	1
8.5000	0.297	1
9.0000	0.297	1
9.5000	0.290	1
10.0000	0.290	1
11.0000	0.290	1
12.0000	0.297	1
13.0000	0.297	1
14.0000	0.297	1
15.0000	0.297	1
16.0000	0.290	1
17.0000	0.284	1
18.0000	0.284	1
19.0000	0.290	1


G-305 SLUG OUT (TRY #2)
K = 1.07E-005 ft/min
y0 = 0.425 ft
Drawdown (ft)
10.
1.
0.1
0.
5.
10.
15.
20.
25.
30.
Time (min)

G-305 SLUG OUT (TRY #2)
slugt1
1.321
0.083
0.375
slugt2
4.96
4.96
2.96
tsdata

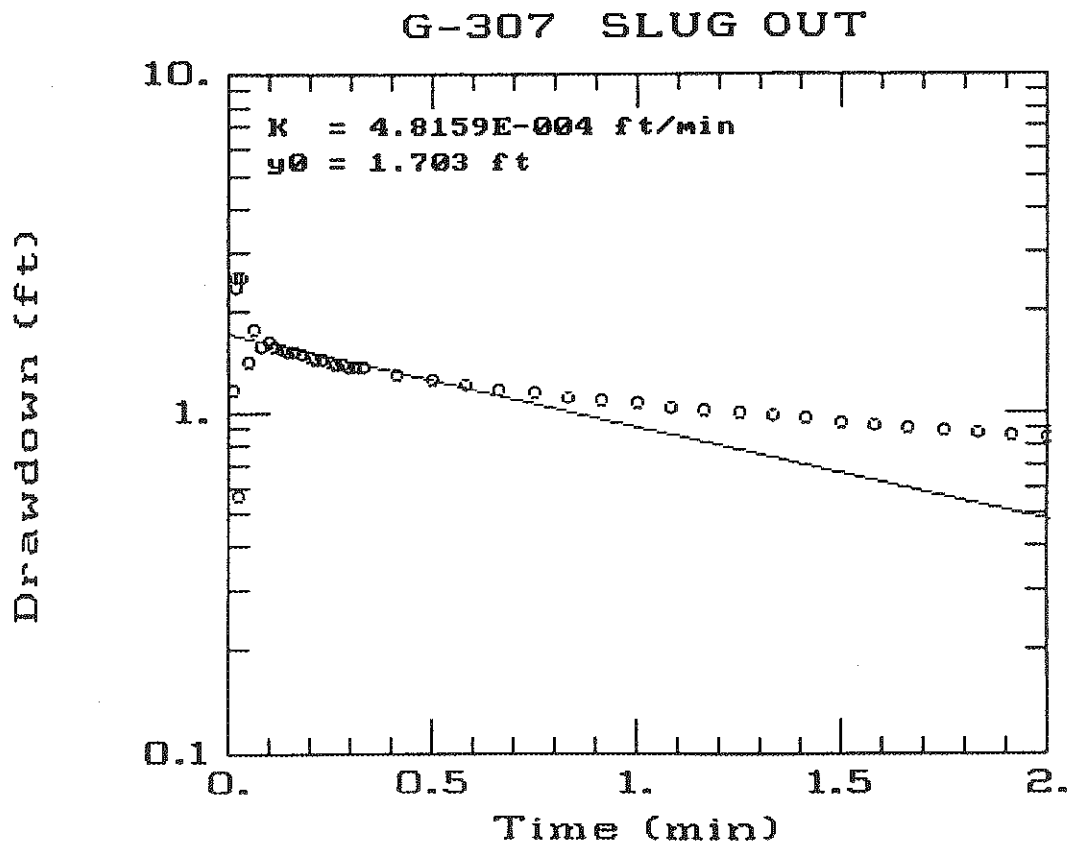
0.0000	0.000	1
0.0033	0.000	1
0.0066	0.006	1
0.0100	0.297	1
0.0133	1.542	1
0.0166	0.992	1
0.0200	0.853	1
0.0233	1.669	1
0.0266	1.005	1
0.0300	1.321	1
0.0333	1.125	1
0.0500	1.220	1
0.0666	1.068	1
0.0833	0.954	1
0.1000	0.885	1
0.1166	0.828	1
0.1333	0.771	1
0.1500	0.720	1
0.1666	0.676	1
0.1833	0.645	1
0.2000	0.613	1
0.2166	0.588	1
0.2333	0.562	1
0.2500	0.550	1
0.2666	0.531	1
0.2833	0.524	1
0.3000	0.512	1
0.3166	0.505	1
0.3333	0.499	1
0.4166	0.474	1
0.5000	0.461	1
0.5833	0.448	1
0.6666	0.442	1
0.7500	0.430	1
0.8333	0.430	1
0.9166	0.423	1
1.0000	0.423	1
1.0833	0.417	1
1.1666	0.417	1
1.2500	0.411	1
1.3333	0.411	1
1.4166	0.411	1
1.5000	0.404	1
1.5833	0.404	1
1.6666	0.404	1
1.7500	0.404	1
1.8333	0.398	1
1.9166	0.398	1
2.0000	0.398	1
2.5000	0.392	1
3.0000	0.385	1
3.5000	0.379	1
4.0000	0.379	1
4.5000	0.373	1
5.0000	0.373	1
5.5000	0.373	1
6.0000	0.366	1
6.5000	0.366	1
7.0000	0.366	1
7.5000	0.360	1
8.0000	0.360	1
8.5000	0.360	1
9.0000	0.360	1
9.5000	0.360	1
10.0000	0.360	1
11.0000	0.354	1
12.0000	0.360	1
13.0000	0.354	1
14.0000	0.354	1
15.0000	0.354	1
16.0000	0.354	1
17.0000	0.347	1
18.0000	0.347	1
19.0000	0.347	1
20.0000	0.347	1
21.0000	0.347	1
22.0000	0.341	1
23.0000	0.341	1
24.0000	0.341	1
25.0000	0.341	1
26.0000	0.341	1
27.0000	0.341	1
28.0000	0.341	1
29.0000	0.341	1
30.0000	0.335	1
31.0000	0.335	1

32.0000	0.328	1
33.0000	0.328	1
34.0000	0.328	1
35.0000	0.328	1
36.0000	0.322	1
37.0000	0.328	1
38.0000	0.328	1
39.0000	0.328	1
40.0000	0.328	1
41.0000	0.328	1
42.0000	0.322	1
43.0000	0.322	1
44.0000	0.322	1
45.0000	0.322	1


G-307 SLUG IN
K = 4.3781E-004 ft/min
y0 = 1.488 ft
10.
1.
0.1
0.
0.5
1.
1.5
2.
Time (min)
Drawdown (ft)

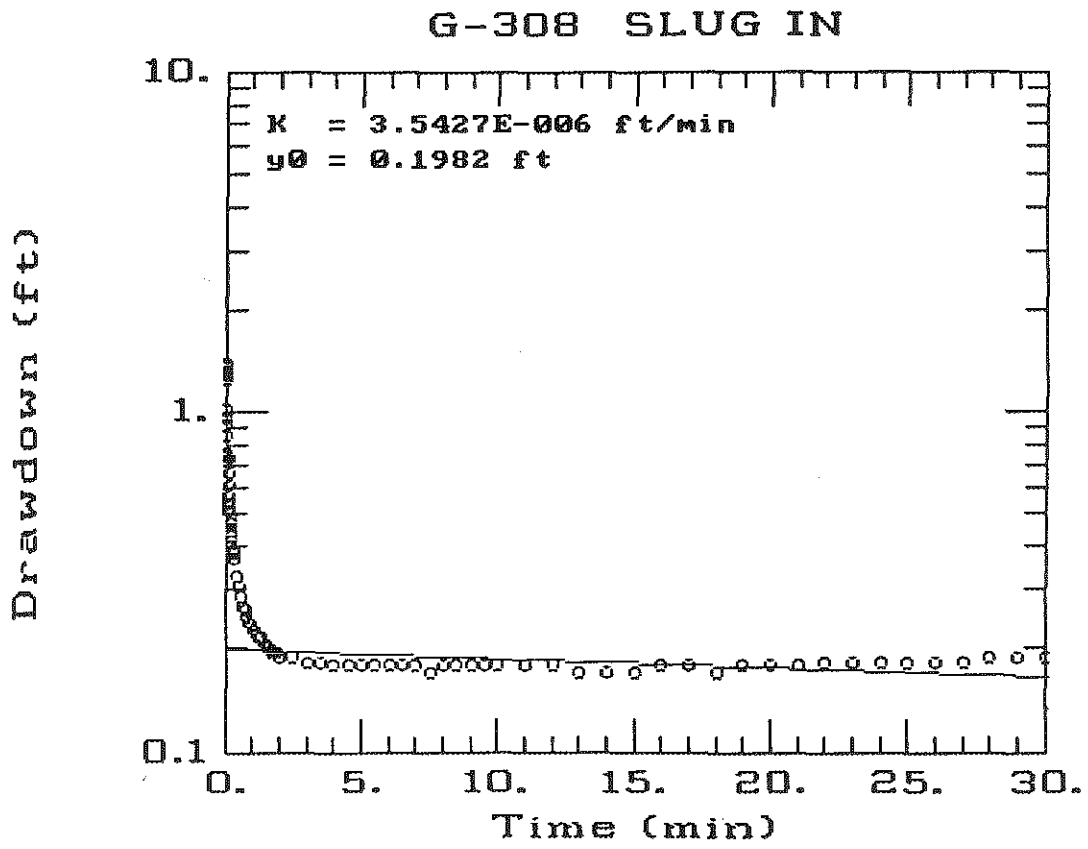
G-307 SLUG IN
slugt1
3.732
0.083
0.375
slugt2
11.94
11.94
11.94
tsdata

0.0000	0.088	1
0.0033	0.088	1
0.0066	0.088	1
0.0100	0.088	1
0.0133	0.075	1
0.0166	0.670	1
0.0200	0.967	1
0.0233	0.575	1
0.0266	1.442	1
0.0300	2.549	1
0.0333	3.732	1
0.0500	1.689	1
0.0666	1.524	1
0.0833	1.461	1
0.1000	1.410	1
0.1166	1.379	1
0.1333	1.366	1
0.1500	1.353	1
0.1666	1.334	1
0.1833	1.322	1
0.2000	1.309	1
0.2166	1.296	1
0.2333	1.284	1
0.2500	1.271	1
0.2666	1.258	1
0.2833	1.252	1
0.3000	1.233	1
0.3166	1.227	1
0.3333	1.214	1
0.4166	1.170	1
0.5000	1.132	1
0.5833	1.100	1
0.6666	1.069	1
0.7500	1.043	1
0.8333	1.018	1
0.9166	0.993	1
1.0000	0.974	1
1.0833	0.955	1
1.1666	0.936	1
1.2500	0.917	1
1.3333	0.904	1
1.4166	0.891	1
1.5000	0.872	1
1.5833	0.860	1
1.6666	0.847	1
1.7500	0.835	1
1.8333	0.822	1
1.9166	0.809	1
2.0000	0.797	1
2.5000	0.733	1
3.0000	0.676	1
3.5000	0.632	1
4.0000	0.594	1
4.5000	0.556	1
5.0000	0.525	1
5.5000	0.499	1
6.0000	0.468	1
6.5000	0.442	1
7.0000	0.423	1
7.5000	0.404	1
8.0000	0.392	1
8.5000	0.373	1
9.0000	0.360	1
9.5000	0.347	1
10.0000	0.335	1
11.0000	0.309	1
12.0000	0.290	1
13.0000	0.278	1
14.0000	0.265	1
15.0000	0.253	1
16.0000	0.240	1
17.0000	0.234	1
18.0000	0.227	1
19.0000	0.221	1
20.0000	0.215	1
21.0000	0.208	1
22.0000	0.202	1
23.0000	0.208	1
24.0000	0.202	1
25.0000	0.202	1


G-307 SLUG OUT
K = 4.8159E-004 ft/min
y0 = 1.703 ft
10.
1.
0.1
0.
0.5
1.
1.5
2.
Drawdown (ft)
Time (min)

G-307 SLUG OUT
slugt1
2.492
0.083
0.375
slugt2
11.94
11.94
11.94
tsdata

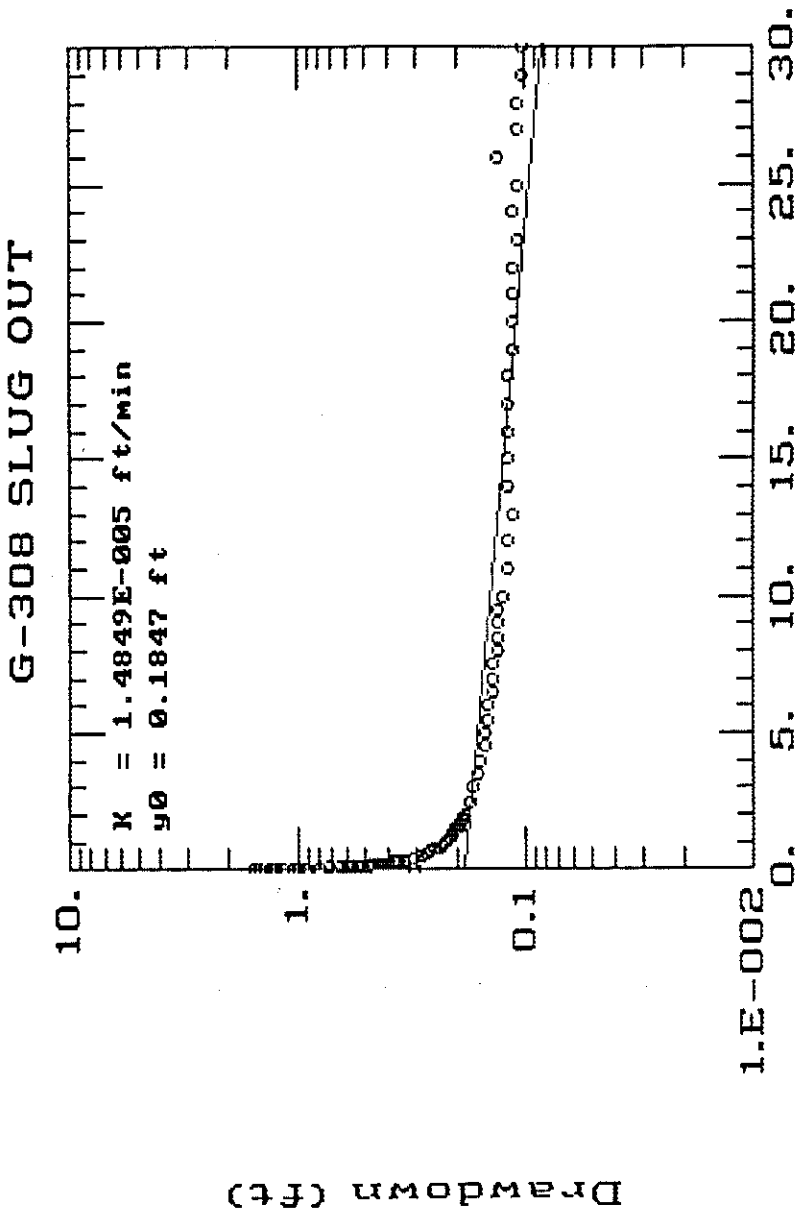
0.0000	0.000	1
0.0033	0.000	1
0.0066	0.006	1
0.0100	0.000	1
0.0133	0.012	1
0.0166	1.176	1
0.0200	2.492	1
0.0233	2.353	1
0.0266	0.094	1
0.0300	0.569	1
0.0333	2.492	1
0.0500	1.417	1
0.0666	1.771	1
0.0833	1.581	1
0.1000	1.613	1
0.1166	1.562	1
0.1333	1.543	1
0.1500	1.524	1
0.1666	1.505	1
0.1833	1.486	1
0.2000	1.467	1
0.2166	1.448	1
0.2333	1.436	1
0.2500	1.423	1
0.2666	1.404	1
0.2833	1.391	1
0.3000	1.379	1
0.3166	1.366	1
0.3333	1.366	1
0.4166	1.303	1
0.5000	1.252	1
0.5833	1.214	1
0.6666	1.176	1
0.7500	1.145	1
0.8333	1.119	1
0.9166	1.094	1
1.0000	1.069	1
1.0833	1.043	1
1.1666	1.024	1
1.2500	0.999	1
1.3333	0.980	1
1.4166	0.961	1
1.5000	0.942	1
1.5833	0.923	1
1.6666	0.904	1
1.7500	0.885	1
1.8333	0.873	1
1.9166	0.860	1
2.0000	0.841	1
2.5000	0.752	1
3.0000	0.683	1
3.5000	0.620	1
4.0000	0.575	1
4.5000	0.518	1
5.0000	0.480	1
5.5000	0.442	1
6.0000	0.404	1
6.5000	0.373	1
7.0000	0.348	1
7.5000	0.322	1
8.0000	0.297	1
8.5000	0.278	1
9.0000	0.259	1
9.5000	0.246	1
10.0000	0.227	1
11.0000	0.196	1
12.0000	0.177	1
13.0000	0.158	1
14.0000	0.139	1
15.0000	0.126	1
16.0000	0.113	1
17.0000	0.107	1
18.0000	0.101	1
19.0000	0.094	1
20.0000	0.082	1
21.0000	0.082	1
22.0000	0.082	1
23.0000	0.069	1
24.0000	0.063	1
25.0000	0.063	1


G-308 SLUG IN
K = 3.5427E-006 ft/min
y0 = 0.1982 ft
10.
1.
0.1
Drawdown (ft)
0.
5.
10.
15.
20.
25.
30.
Time (min)

G-308 SLUG IN
slugt1
1.385
0.083
0.375
slugt2
13.13
13.13
7.63
tsdata

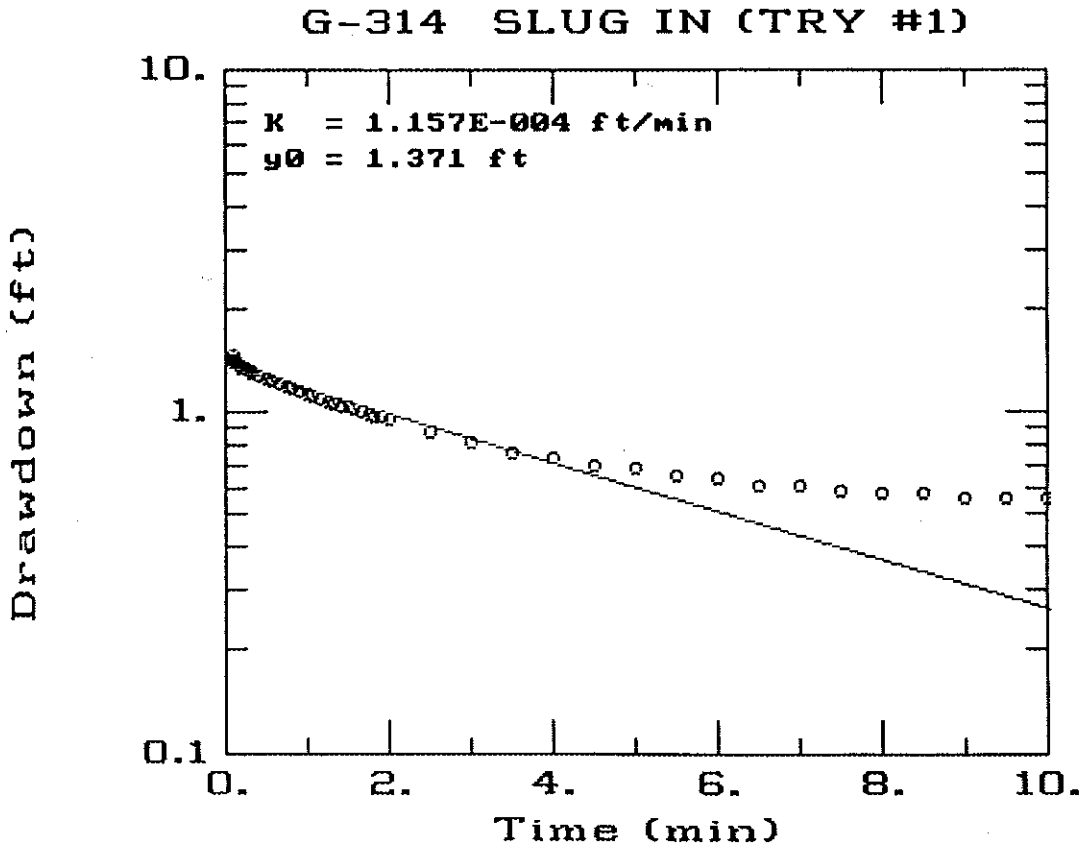
0.0000	0.000	1
0.0033	0.006	1
0.0066	0.752	1
0.0100	0.765	1
0.0133	0.721	1
0.0166	0.967	1
0.0200	1.258	1
0.0233	1.366	1
0.0266	1.385	1
0.0300	1.309	1
0.0333	1.315	1
0.0500	1.018	1
0.0666	0.923	1
0.0833	0.853	1
0.1000	0.733	1
0.1166	0.664	1
0.1333	0.613	1
0.1500	0.569	1
0.1666	0.543	1
0.1833	0.512	1
0.2000	0.487	1
0.2166	0.468	1
0.2333	0.449	1
0.2500	0.430	1
0.2666	0.417	1
0.2833	0.398	1
0.3000	0.385	1
0.3166	0.379	1
0.3333	0.366	1
0.4166	0.328	1
0.5000	0.303	1
0.5833	0.284	1
0.6666	0.265	1
0.7500	0.259	1
0.8333	0.246	1
0.9166	0.240	1
1.0000	0.234	1
1.0833	0.227	1
1.1666	0.221	1
1.2500	0.215	1
1.3333	0.215	1
1.4166	0.208	1
1.5000	0.202	1
1.5833	0.202	1
1.6666	0.202	1
1.7500	0.196	1
1.8333	0.196	1
1.9166	0.196	1
2.0000	0.189	1
2.5000	0.189	1
3.0000	0.183	1
3.5000	0.183	1
4.0000	0.177	1
4.5000	0.177	1
5.0000	0.177	1
5.5000	0.177	1
6.0000	0.177	1
6.5000	0.177	1
7.0000	0.177	1
7.5000	0.170	1
8.0000	0.177	1
8.5000	0.177	1
9.0000	0.177	1
9.5000	0.177	1
10.0000	0.177	1
11.0000	0.177	1
12.0000	0.177	1
13.0000	0.170	1
14.0000	0.170	1
15.0000	0.170	1
16.0000	0.177	1
17.0000	0.177	1
18.0000	0.170	1
19.0000	0.177	1
20.0000	0.177	1
21.0000	0.177	1
22.0000	0.183	1
23.0000	0.183	1
24.0000	0.183	1
25.0000	0.183	1
26.0000	0.183	1
27.0000	0.183	1
28.0000	0.189	1
29.0000	0.189	1
30.0000	0.189	1
31.0000	0.196	1

32.0000	0.189	1
33.0000	0.189	1
34.0000	0.196	1
35.0000	0.196	1
36.0000	0.196	1
37.0000	0.202	1
38.0000	0.202	1
39.0000	0.196	1
40.0000	0.202	1
41.0000	0.202	1
42.0000	0.202	1
43.0000	0.202	1
44.0000	0.202	1
45.0000	0.202	1
46.0000	0.202	1
47.0000	0.202	1
48.0000	0.202	1
49.0000	0.208	1
50.0000	0.202	1
51.0000	0.202	1
52.0000	0.208	1
53.0000	0.208	1
54.0000	0.208	1
55.0000	0.208	1
56.0000	0.208	1
57.0000	0.208	1
58.0000	0.208	1
59.0000	0.215	1


G-308 SLUG OUT
K = 1.4849E-005 ft/min
y0 = 0.1847 ft
10.
1.
0.1
1.E-002
0.
5.
10.
15.
20.
25.
30.
Time (min)
Drawdown (ft)

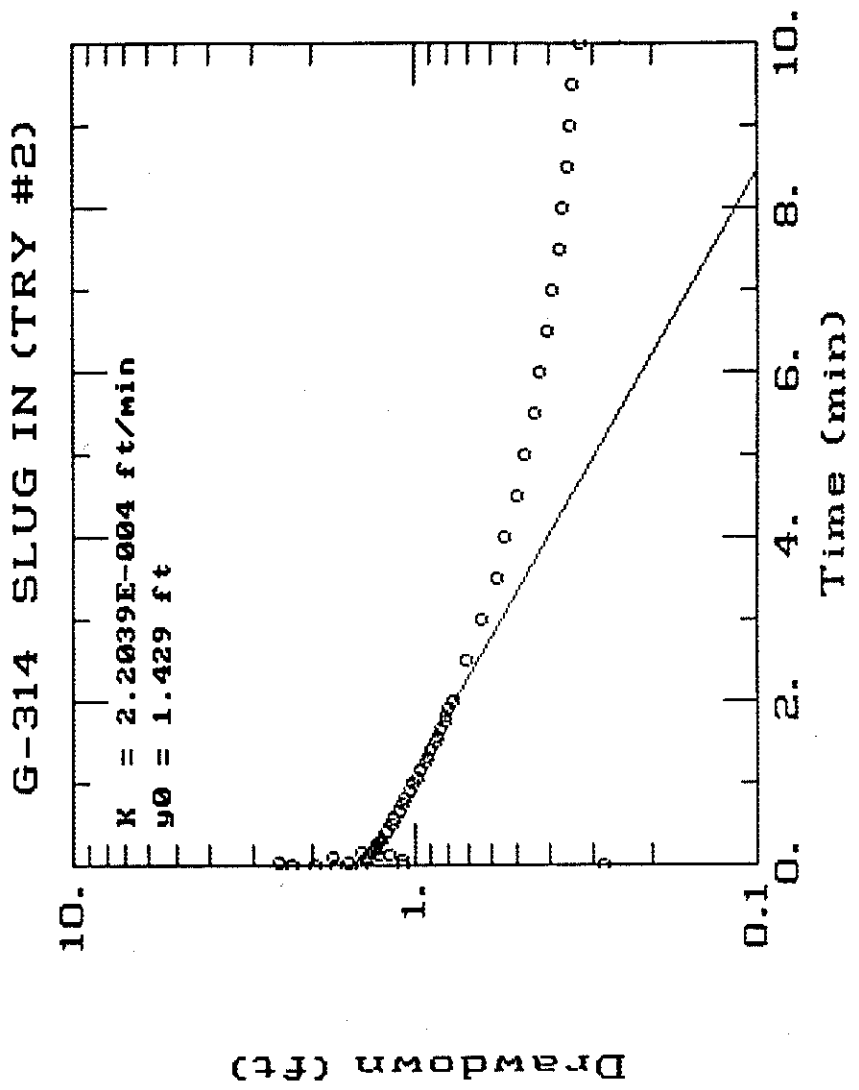
G-308 SLUG OUT
slugt1
1.530
0.083
0.375
slugt2
13.13
13.13
7.63
tsdata

0.0000	0.000	1
0.0033	0.000	1
0.0066	0.309	1
0.0100	1.163	1
0.0133	1.309	1
0.0166	1.037	1
0.0200	0.999	1
0.0233	1.479	1
0.0266	1.530	1
0.0300	1.283	1
0.0333	1.264	1
0.0500	1.056	1
0.0666	0.917	1
0.0833	0.809	1
0.1000	0.727	1
0.1166	0.664	1
0.1333	0.613	1
0.1500	0.569	1
0.1666	0.531	1
0.1833	0.499	1
0.2000	0.474	1
0.2166	0.449	1
0.2333	0.430	1
0.2500	0.411	1
0.2666	0.398	1
0.2833	0.385	1
0.3000	0.373	1
0.3166	0.360	1
0.3333	0.347	1
0.4166	0.309	1
0.5000	0.284	1
0.5833	0.271	1
0.6666	0.265	1
0.7500	0.253	1
0.8333	0.240	1
0.9166	0.234	1
1.0000	0.227	1
1.0833	0.221	1
1.1666	0.215	1
1.2500	0.208	1
1.3333	0.208	1
1.4166	0.202	1
1.5000	0.202	1
1.5833	0.196	1
1.6666	0.196	1
1.7500	0.196	1
1.8333	0.189	1
1.9166	0.189	1
2.0000	0.183	1
2.5000	0.177	1
3.0000	0.170	1
3.5000	0.164	1
4.0000	0.158	1
4.5000	0.151	1
5.0000	0.151	1
5.5000	0.145	1
6.0000	0.145	1
6.5000	0.139	1
7.0000	0.139	1
7.5000	0.139	1
8.0000	0.132	1
8.5000	0.132	1
9.0000	0.132	1
9.5000	0.132	1
10.0000	0.126	1
11.0000	0.120	1
12.0000	0.120	1
13.0000	0.113	1
14.0000	0.120	1
15.0000	0.120	1
16.0000	0.120	1
17.0000	0.120	1
18.0000	0.120	1
19.0000	0.113	1
20.0000	0.113	1
21.0000	0.113	1
22.0000	0.113	1
23.0000	0.107	1
24.0000	0.113	1
25.0000	0.107	1
26.0000	0.132	1
27.0000	0.107	1
28.0000	0.107	1
29.0000	0.101	1
30.0000	0.101	1


G-314 SLUG IN (TRY #1)
K = 1.157E-004 ft/min
y0 = 1.371 ft
10.
1.
0.1
0.
2.
4.
6.
8.
10.
Drawdown (ft)
Time (min)

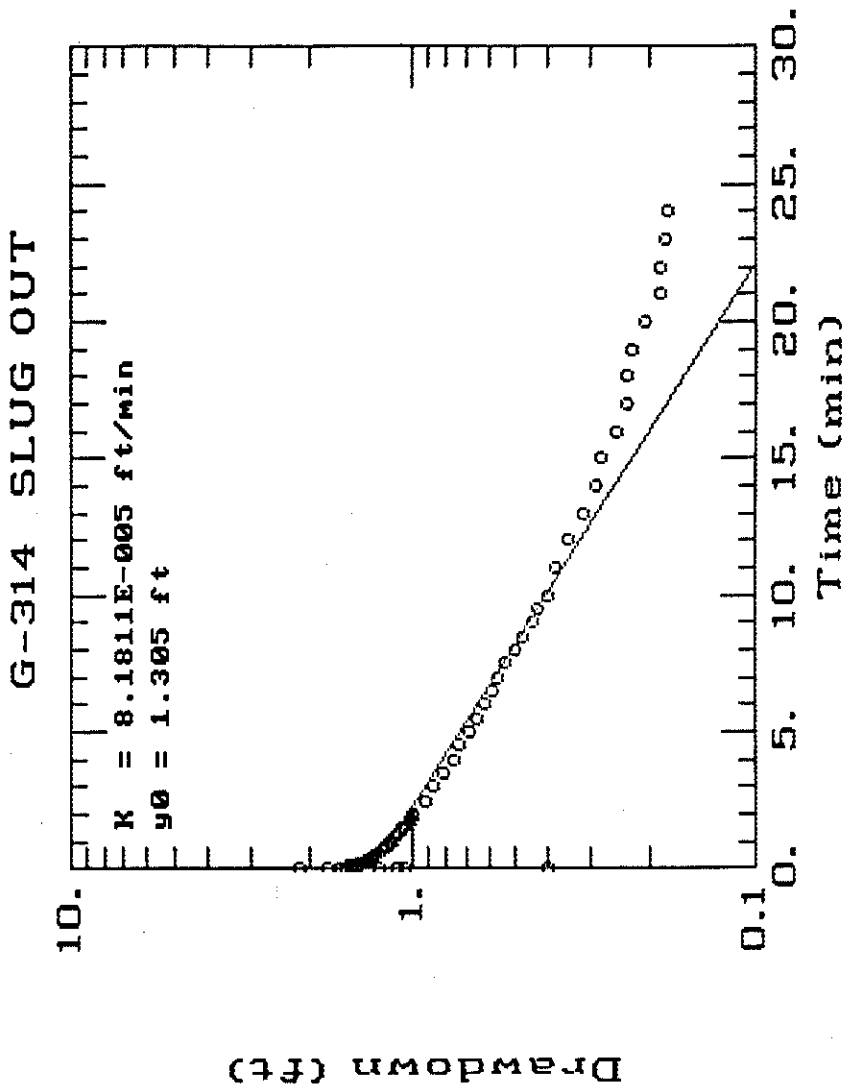
G-314 SLUG IN (TRY #1)
slugt1
4.624
0.083
0.375
slugt1
11.74
11.74
10.74
tsdata

0.0000	0.088	1
0.0033	0.088	1
0.0066	0.088	1
0.0100	0.272	1
0.0133	0.569	1
0.0166	1.005	1
0.0200	1.239	1
0.0233	1.866	1
0.0266	2.910	1
0.0300	3.909	1
0.0333	4.624	1
0.0500	1.821	1
0.0666	1.315	1
0.0833	1.436	1
0.1000	1.455	1
0.1166	1.423	1
0.1333	1.410	1
0.1500	1.398	1
0.1666	1.385	1
0.1833	1.372	1
0.2000	1.372	1
0.2166	1.353	1
0.2333	1.347	1
0.2500	1.341	1
0.2666	1.334	1
0.2833	1.328	1
0.3000	1.322	1
0.3166	1.315	1
0.3333	1.309	1
0.4166	1.277	1
0.5000	1.258	1
0.5833	1.233	1
0.6666	1.214	1
0.7500	1.189	1
0.8333	1.170	1
0.9166	1.151	1
1.0000	1.132	1
1.0833	1.113	1
1.1666	1.094	1
1.2500	1.075	1
1.3333	1.056	1
1.4166	1.031	1
1.5000	1.037	1
1.5833	1.012	1
1.6666	0.999	1
1.7500	0.986	1
1.8333	0.974	1
1.9166	0.961	1
2.0000	0.948	1
2.5000	0.879	1
3.0000	0.822	1
3.5000	0.765	1
4.0000	0.733	1
4.5000	0.695	1
5.0000	0.683	1
5.5000	0.651	1
6.0000	0.638	1
6.5000	0.613	1
7.0000	0.607	1
7.5000	0.588	1
8.0000	0.582	1
8.5000	0.575	1
9.0000	0.562	1
9.5000	0.562	1
10.0000	0.556	1
11.0000	0.550	1
12.0000	0.537	1
13.0000	0.531	1
14.0000	0.531	1
15.0000	0.525	1
16.0000	0.531	1
17.0000	0.512	1
18.0000	0.531	1
19.0000	0.531	1
20.0000	0.531	1


G-314 SLUG IN (TRY #2)
K = 2.2039E-004 ft/min
y0 = 1.429 ft
Drawdown (ft)
Time (min)
10.
1.
0.1
0.
2.
4.
6.
8.
10.

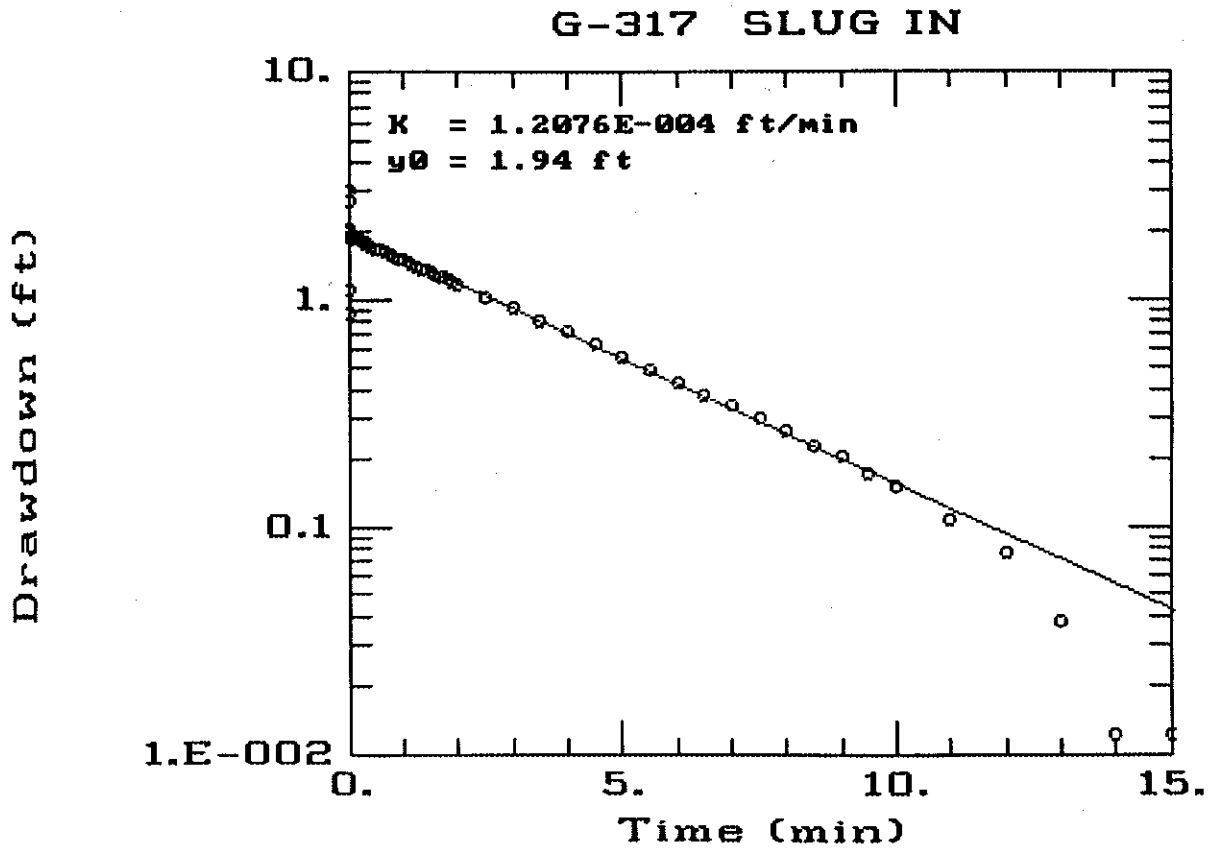
G-314 SLUG IN (TRY #2)
slugt1
2.511
0.083
0.375
slugt2
11.74
11.74
10.74
tsdata

0.0000	0.006	1
0.0033	0.006	1
0.0066	0.025	1
0.0100	0.006	1
0.0133	0.278	1
0.0166	1.088	1
0.0200	1.429	1
0.0233	1.714	1
0.0266	1.961	1
0.0300	2.315	1
0.0333	2.511	1
0.0500	1.575	1
0.0666	1.094	1
0.0833	1.404	1
0.1000	1.404	1
0.1166	1.739	1
0.1333	1.284	1
0.1500	1.202	1
0.1666	1.429	1
0.1833	1.353	1
0.2000	1.322	1
0.2166	1.309	1
0.2333	1.303	1
0.2500	1.296	1
0.2666	1.290	1
0.2833	1.284	1
0.3000	1.271	1
0.3166	1.259	1
0.3333	1.252	1
0.4166	1.214	1
0.5000	1.176	1
0.5833	1.151	1
0.6666	1.119	1
0.7500	1.094	1
0.8333	1.069	1
0.9166	1.037	1
1.0000	1.012	1
1.0833	0.993	1
1.1666	0.967	1
1.2500	0.942	1
1.3333	0.923	1
1.4166	0.898	1
1.5000	0.879	1
1.5833	0.860	1
1.6666	0.847	1
1.7500	0.822	1
1.8333	0.809	1
1.9166	0.797	1
2.0000	0.778	1
2.5000	0.708	1
3.0000	0.639	1
3.5000	0.582	1
4.0000	0.544	1
4.5000	0.506	1
5.0000	0.474	1
5.5000	0.442	1
6.0000	0.430	1
6.5000	0.411	1
7.0000	0.392	1
7.5000	0.373	1
8.0000	0.366	1
8.5000	0.354	1
9.0000	0.348	1
9.5000	0.341	1
10.0000	0.329	1
11.0000	0.316	1
12.0000	0.310	1
13.0000	0.303	1
14.0000	0.291	1
15.0000	0.284	1
16.0000	0.278	1
17.0000	0.278	1
18.0000	0.272	1
19.0000	0.272	1
20.0000	0.259	1


G-314 SLUG OUT
K = 8.1811E-005 ft/min
y0 = 1.305 ft
10.
1.
0.1
0.
5.
10.
15.
20.
25.
30.
Time (min)
Drawdown (ft)

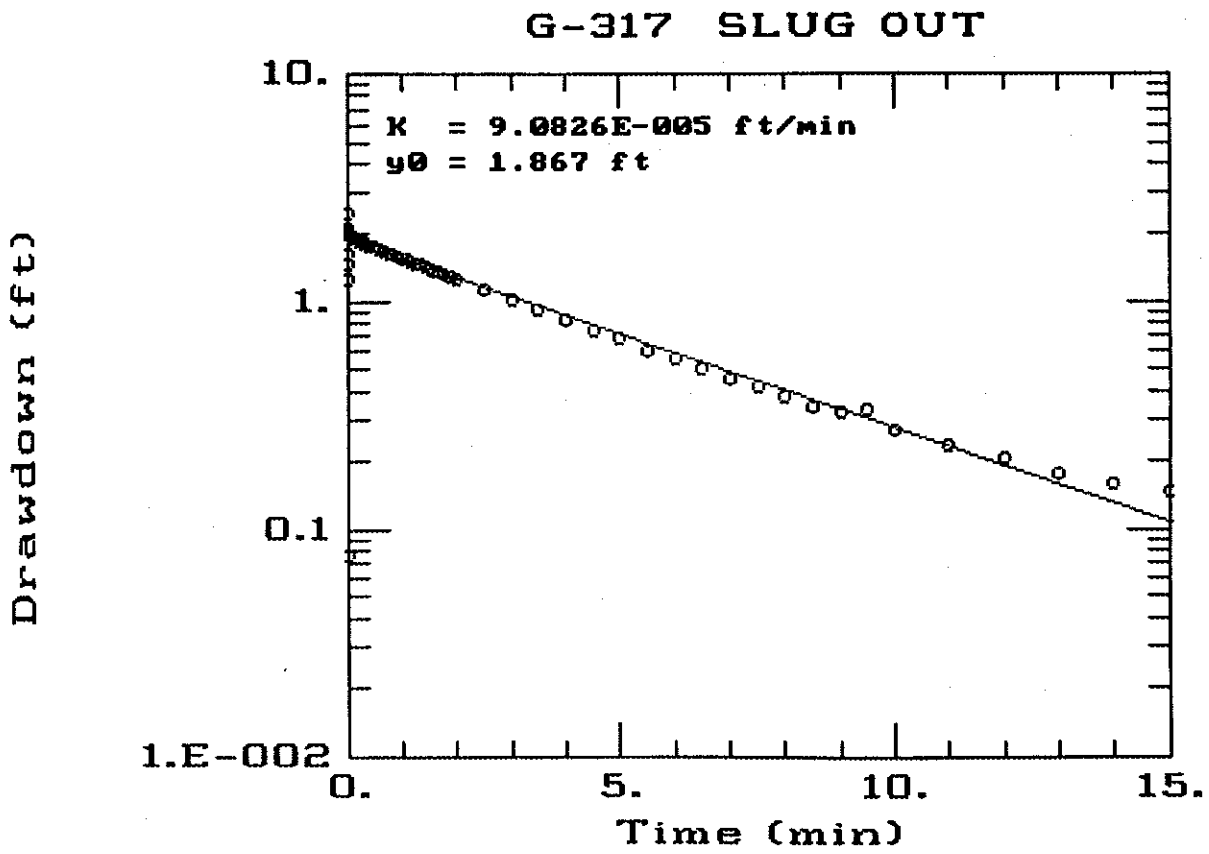
G-314 SLUG OUT
slugt1
2.144
0.083
0.375
slugt2
11.74
11.74
10.74
tsdata

0.0000	0.006	1
0.0033	0.006	1
0.0066	0.000	1
0.0100	0.404	1
0.0133	1.505	1
0.0166	1.784	1
0.0200	1.258	1
0.0233	1.056	1
0.0266	1.107	1
0.0300	1.480	1
0.0333	2.144	1
0.0500	1.771	1
0.0666	1.638	1
0.0833	1.581	1
0.1000	1.543	1
0.1166	1.518	1
0.1333	1.493	1
0.1500	1.474	1
0.1666	1.455	1
0.1833	1.442	1
0.2000	1.429	1
0.2166	1.417	1
0.2333	1.410	1
0.2500	1.398	1
0.2666	1.385	1
0.2833	1.372	1
0.3000	1.366	1
0.3166	1.353	1
0.3333	1.347	1
0.4166	1.315	1
0.5000	1.290	1
0.5833	1.265	1
0.6666	1.239	1
0.7500	1.221	1
0.8333	1.202	1
0.9166	1.183	1
1.0000	1.157	1
1.0833	1.145	1
1.1666	1.138	1
1.2500	1.113	1
1.3333	1.094	1
1.4166	1.081	1
1.5000	1.069	1
1.5833	1.056	1
1.6666	1.037	1
1.7500	1.024	1
1.8333	1.012	1
1.9166	1.005	1
2.0000	1.005	1
2.5000	0.923	1
3.0000	0.866	1
3.5000	0.809	1
4.0000	0.765	1
4.5000	0.733	1
5.0000	0.683	1
5.5000	0.651	1
6.0000	0.620	1
6.5000	0.588	1
7.0000	0.563	1
7.5000	0.537	1
8.0000	0.506	1
8.5000	0.480	1
9.0000	0.449	1
9.5000	0.430	1
10.0000	0.404	1
11.0000	0.379	1
12.0000	0.348	1
13.0000	0.316	1
14.0000	0.291	1
15.0000	0.278	1
16.0000	0.253	1
17.0000	0.234	1
18.0000	0.234	1
19.0000	0.227	1
20.0000	0.208	1
21.0000	0.189	1
22.0000	0.189	1
23.0000	0.183	1
24.0000	0.177	1


G-317 SLUG IN
K = 1.2076E-004 ft/min
y0 = 1.94 ft
10.
1.
0.1
1.E-002
0.
5.
10.
15.
Drawdown (ft)
Time (min)

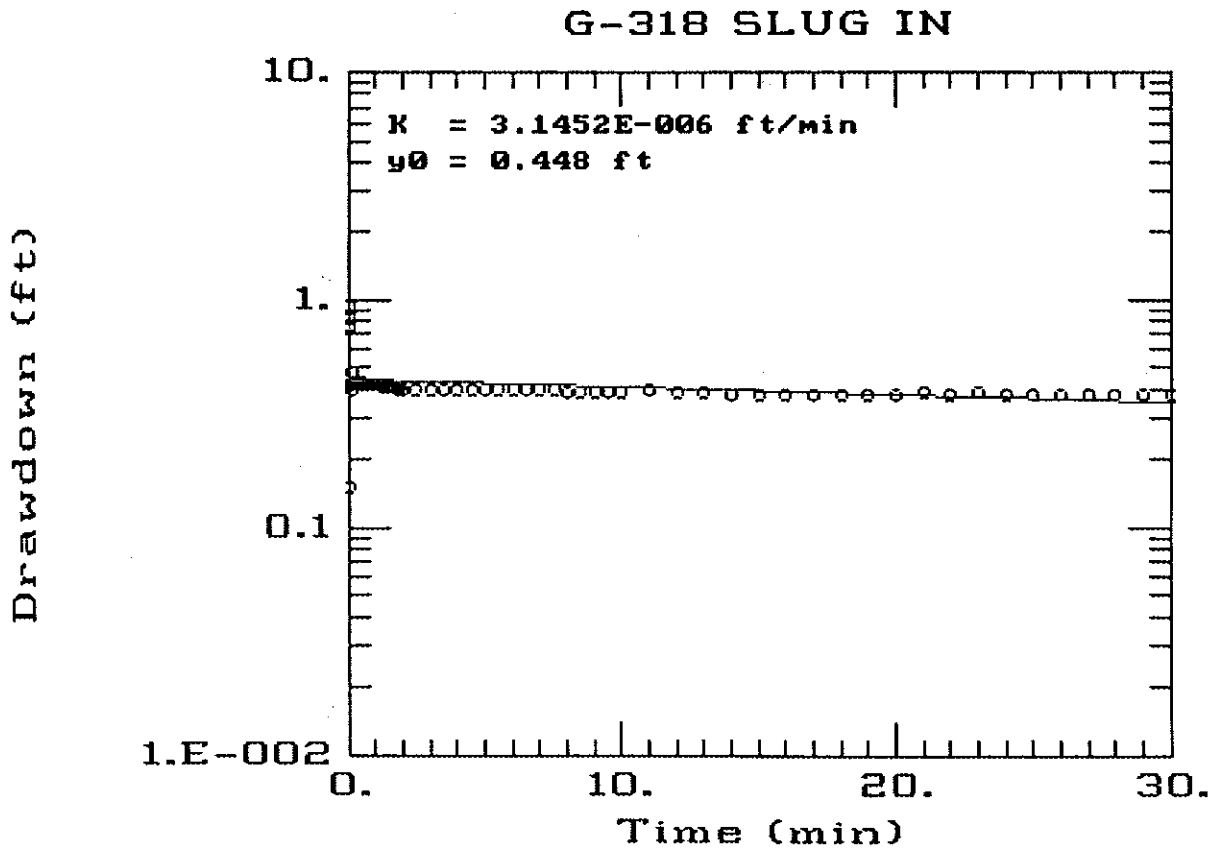
G-317 SLUG IN
slugt1
2.707
0.083
0.375
slugt2
17.58
17.58
11.58
tsdata

0.0000	0.000	1
0.0033	0.000	1
0.0066	0.000	1
0.0100	0.000	1
0.0133	0.000	1
0.0166	0.879	1
0.0200	1.100	1
0.0233	1.999	1
0.0266	3.049	1
0.0300	2.049	1
0.0333	2.707	1
0.0500	1.828	1
0.0666	1.897	1
0.0833	1.929	1
0.1000	1.916	1
0.1166	1.904	1
0.1333	1.891	1
0.1500	1.878	1
0.1666	1.866	1
0.1833	1.853	1
0.2000	1.847	1
0.2166	1.834	1
0.2333	1.828	1
0.2500	1.815	1
0.2666	1.809	1
0.2833	1.796	1
0.3000	1.790	1
0.3166	1.777	1
0.3333	1.771	1
0.4166	1.727	1
0.5000	1.682	1
0.5833	1.651	1
0.6666	1.613	1
0.7500	1.581	1
0.8333	1.550	1
0.9166	1.518	1
1.0000	1.486	1
1.0833	1.455	1
1.1666	1.423	1
1.2500	1.398	1
1.3333	1.366	1
1.4166	1.341	1
1.5000	1.315	1
1.5833	1.284	1
1.6666	1.258	1
1.7500	1.240	1
1.8333	1.214	1
1.9166	1.189	1
2.0000	1.164	1
2.5000	1.031	1
3.0000	0.917	1
3.5000	0.816	1
4.0000	0.727	1
4.5000	0.645	1
5.0000	0.563	1
5.5000	0.493	1
6.0000	0.436	1
6.5000	0.385	1
7.0000	0.341	1
7.5000	0.303	1
8.0000	0.265	1
8.5000	0.227	1
9.0000	0.202	1
9.5000	0.170	1
10.0000	0.151	1
11.0000	0.107	1
12.0000	0.076	1
13.0000	0.038	1
14.0000	0.012	1
15.0000	0.012	1


G-317 SLUG OUT
K = 9.0826E-005 ft/min
y0 = 1.867 ft
10.
1.
0.1
1.E-002
0.
5.
10.
15.
Drawdown (ft)
Time (min)

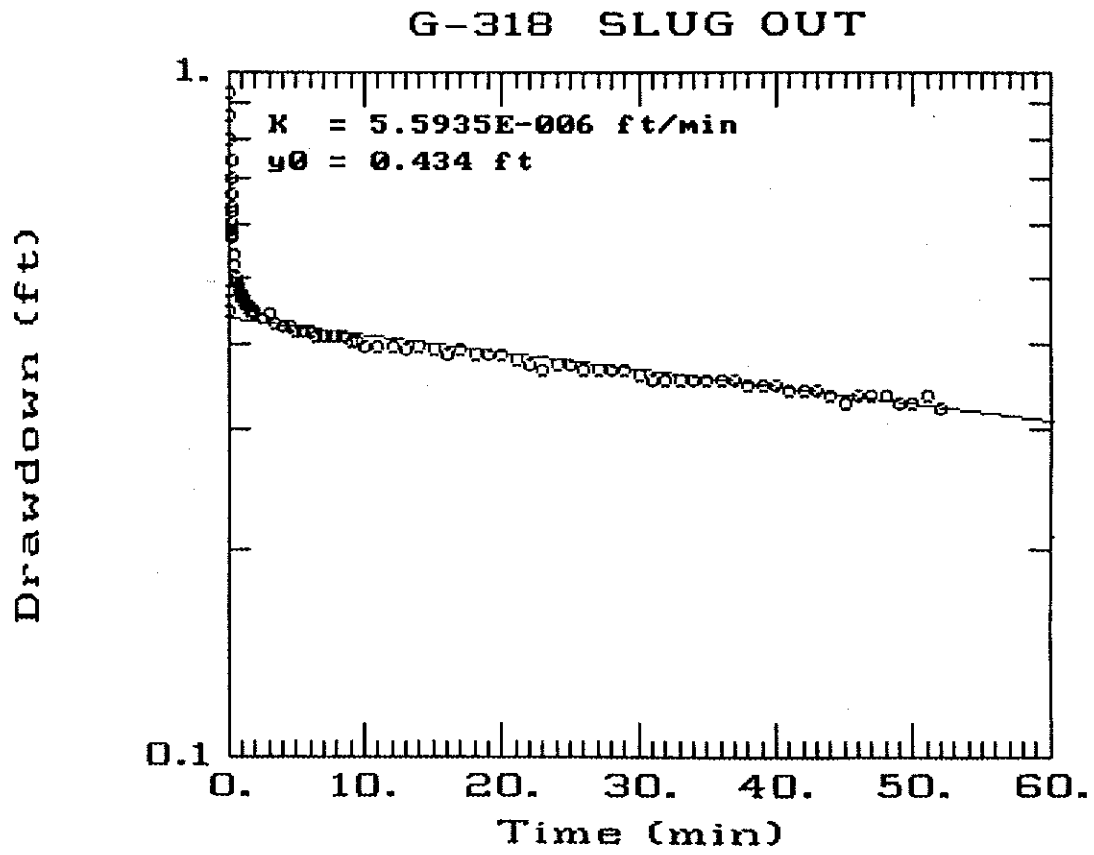
G-317 SLUG OUT
slugt1
2.100
0.083
0.375
slugt2
17.58
17.58
11.58
tsdata

0.0000	0.063	1
0.0033	0.076	1
0.0066	2.435	1
0.0100	1.448	1
0.0133	1.265	1
0.0166	1.631	1
0.0200	2.100	1
0.0233	2.005	1
0.0266	2.036	1
0.0300	2.043	1
0.0333	2.036	1
0.0500	1.998	1
0.0666	1.922	1
0.0833	1.954	1
0.1000	1.941	1
0.1166	1.929	1
0.1333	1.916	1
0.1500	1.903	1
0.1666	1.897	1
0.1833	1.884	1
0.2000	1.878	1
0.2166	1.866	1
0.2333	1.859	1
0.2500	1.847	1
0.2666	1.840	1
0.2833	1.834	1
0.3000	1.828	1
0.3166	1.821	1
0.3333	1.809	1
0.4166	1.771	1
0.5000	1.739	1
0.5833	1.707	1
0.6666	1.676	1
0.7500	1.638	1
0.8333	1.612	1
0.9166	1.581	1
1.0000	1.556	1
1.0833	1.524	1
1.1666	1.499	1
1.2500	1.473	1
1.3333	1.448	1
1.4166	1.423	1
1.5000	1.397	1
1.5833	1.372	1
1.6666	1.353	1
1.7500	1.328	1
1.8333	1.303	1
1.9166	1.277	1
2.0000	1.258	1
2.5000	1.132	1
3.0000	1.018	1
3.5000	0.923	1
4.0000	0.828	1
4.5000	0.752	1
5.0000	0.683	1
5.5000	0.613	1
6.0000	0.556	1
6.5000	0.506	1
7.0000	0.461	1
7.5000	0.423	1
8.0000	0.385	1
8.5000	0.347	1
9.0000	0.322	1
9.5000	0.335	1
10.0000	0.272	1
11.0000	0.234	1
12.0000	0.202	1
13.0000	0.177	1
14.0000	0.158	1
15.0000	0.145	1
16.0000	0.132	1
17.0000	0.120	1
18.0000	0.113	1
19.0000	0.101	1
20.0000	0.094	1
21.0000	0.094	1
22.0000	0.088	1
23.0000	0.082	1
24.0000	0.082	1
25.0000	0.082	1
26.0000	0.082	1
27.0000	0.075	1
28.0000	0.075	1
29.0000	0.075	1
30.0000	0.069	1


G-318 SLUG IN
K = 3.1452E-006 ft/min
y0 = 0.448 ft
10.
1.
0.1
1.E-002
Drawdown (ft)
0.
10.
20.
30.
Time (min)

G-318 SLUG IN
slugt1
0.942
0.083
0.375
slugt2
18.32
18.32
6.82
tsdata

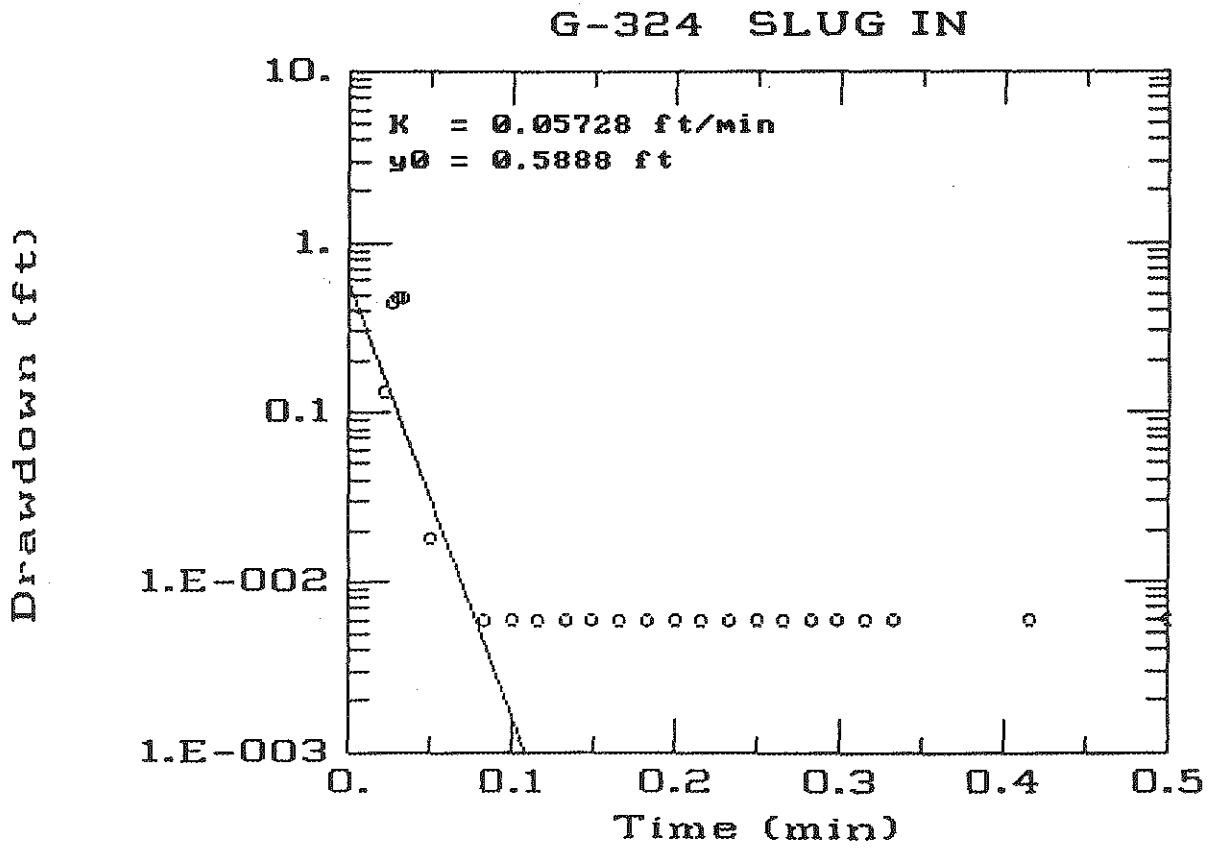
0.0000	0.000	1
0.0033	0.000	1
0.0066	0.000	1
0.0100	0.000	1
0.0133	0.000	1
0.0166	0.006	1
0.0200	0.000	1
0.0233	0.000	1
0.0266	0.151	1
0.0300	0.771	1
0.0333	0.739	1
0.0500	0.942	1
0.0666	0.822	1
0.0833	0.841	1
0.1000	0.486	1
0.1166	0.404	1
0.1333	0.398	1
0.1500	0.417	1
0.1666	0.430	1
0.1833	0.436	1
0.2000	0.436	1
0.2166	0.436	1
0.2333	0.436	1
0.2500	0.436	1
0.2666	0.436	1
0.2833	0.430	1
0.3000	0.430	1
0.3166	0.430	1
0.3333	0.430	1
0.4166	0.430	1
0.5000	0.430	1
0.5833	0.423	1
0.6666	0.423	1
0.7500	0.423	1
0.8333	0.423	1
0.9166	0.417	1
1.0000	0.417	1
1.0833	0.417	1
1.1666	0.417	1
1.2500	0.411	1
1.3333	0.411	1
1.4166	0.417	1
1.5000	0.411	1
1.5833	0.411	1
1.6666	0.411	1
1.7500	0.411	1
1.8333	0.404	1
1.9166	0.411	1
2.0000	0.404	1
2.5000	0.404	1
3.0000	0.404	1
3.5000	0.404	1
4.0000	0.404	1
4.5000	0.398	1
5.0000	0.398	1
5.5000	0.398	1
6.0000	0.398	1
6.5000	0.398	1
7.0000	0.398	1
7.5000	0.398	1
8.0000	0.392	1
8.5000	0.392	1
9.0000	0.392	1
9.5000	0.392	1
10.0000	0.392	1
11.0000	0.398	1
12.0000	0.392	1
13.0000	0.392	1
14.0000	0.385	1
15.0000	0.385	1
16.0000	0.385	1
17.0000	0.385	1
18.0000	0.385	1
19.0000	0.385	1
20.0000	0.379	1
21.0000	0.392	1
22.0000	0.385	1
23.0000	0.392	1
24.0000	0.385	1
25.0000	0.385	1
26.0000	0.385	1
27.0000	0.385	1
28.0000	0.385	1
29.0000	0.385	1
30.0000	0.385	1


G-318 SLUG OUT
K = 5.5935E-006 ft/min
y0 = 0.434 ft
1.
0.1
Drawdown (ft)
0.
10.
20.
30.
40.
50.
60.
Time (min)

G-318 SLUG OUT
slugt1
1.656
0.083
0.375
slugt2
6.43
6.43
5.43
tsdata

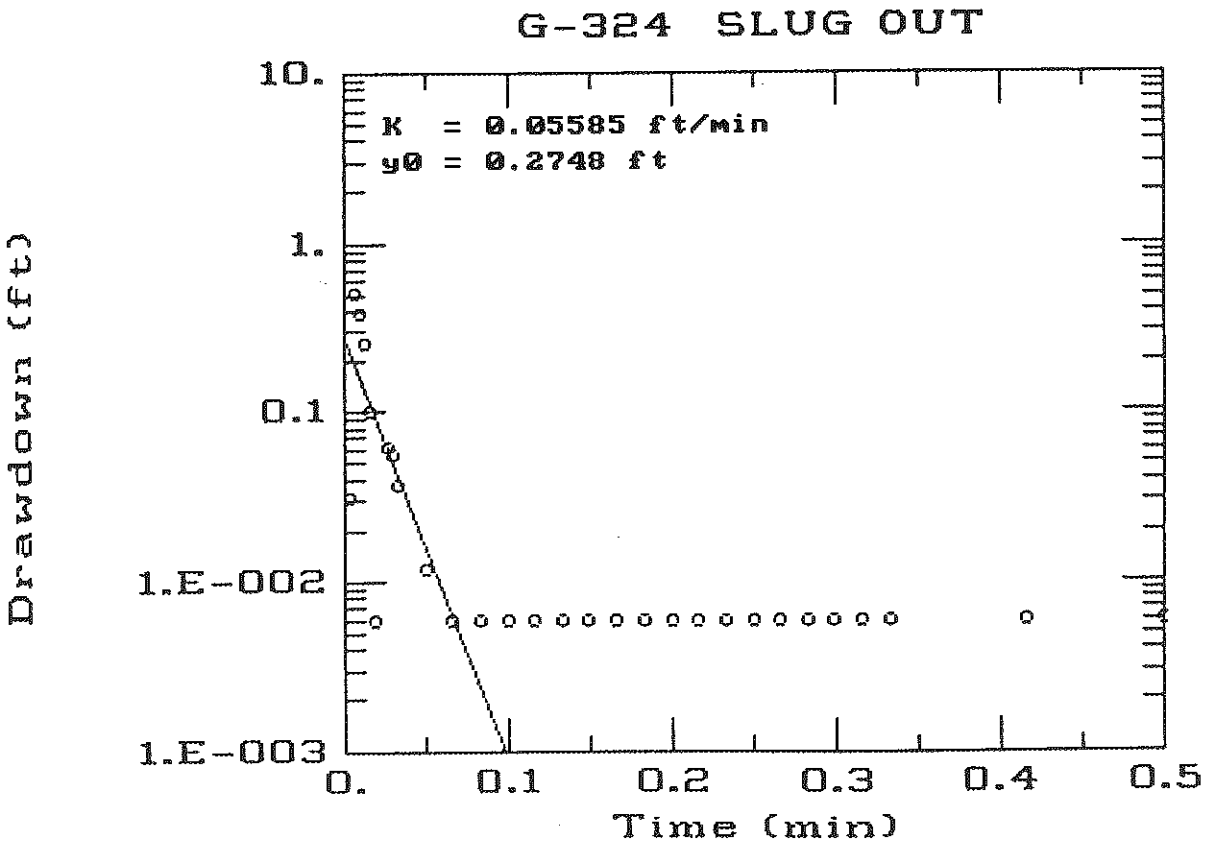
0.0000	0.000	1
0.0033	0.006	1
0.0066	0.006	1
0.0100	0.006	1
0.0133	0.006	1
0.0166	0.006	1
0.0200	0.449	1
0.0233	1.258	1
0.0266	1.448	1
0.0300	1.018	1
0.0333	0.480	1
0.0500	1.656	1
0.0666	1.448	1
0.0833	1.334	1
0.1000	1.220	1
0.1166	1.113	1
0.1333	1.024	1
0.1500	0.929	1
0.1666	0.860	1
0.1833	0.796	1
0.2000	0.746	1
0.2166	0.702	1
0.2333	0.664	1
0.2500	0.638	1
0.2666	0.626	1
0.2833	0.607	1
0.3000	0.588	1
0.3166	0.581	1
0.3333	0.575	1
0.4166	0.543	1
0.5000	0.524	1
0.5833	0.499	1
0.6666	0.493	1
0.7500	0.486	1
0.8333	0.480	1
0.9166	0.474	1
1.0000	0.474	1
1.0833	0.468	1
1.1666	0.468	1
1.2500	0.461	1
1.3333	0.461	1
1.4166	0.455	1
1.5000	0.455	1
1.5833	0.449	1
1.6666	0.455	1
1.7500	0.449	1
1.8333	0.449	1
1.9166	0.449	1
2.0000	0.442	1
2.5000	0.436	1
3.0000	0.442	1
3.5000	0.430	1
4.0000	0.423	1
4.5000	0.423	1
5.0000	0.417	1
5.5000	0.417	1
6.0000	0.417	1
6.5000	0.411	1
7.0000	0.411	1
7.5000	0.411	1
8.0000	0.411	1
8.5000	0.411	1
9.0000	0.404	1
9.5000	0.404	1
10.0000	0.398	1
11.0000	0.398	1
12.0000	0.398	1
13.0000	0.392	1
14.0000	0.398	1
15.0000	0.392	1
16.0000	0.385	1
17.0000	0.392	1
18.0000	0.385	1
19.0000	0.385	1
20.0000	0.385	1
21.0000	0.379	1
22.0000	0.373	1
23.0000	0.366	1
24.0000	0.373	1
25.0000	0.373	1
26.0000	0.366	1
27.0000	0.366	1
28.0000	0.366	1
29.0000	0.366	1
30.0000	0.360	1
31.0000	0.354	1

32.0000	0.354	1
33.0000	0.354	1
34.0000	0.354	1
35.0000	0.354	1
36.0000	0.354	1
37.0000	0.354	1
38.0000	0.347	1
39.0000	0.347	1
40.0000	0.347	1
41.0000	0.341	1
42.0000	0.341	1
43.0000	0.341	1
44.0000	0.335	1
45.0000	0.328	1
46.0000	0.335	1
47.0000	0.335	1
48.0000	0.335	1
49.0000	0.328	1
50.0000	0.328	1
51.0000	0.335	1
52.0000	0.322	1


G-324 SLUG IN
K = 0.05728 ft/min
y0 = 0.5888 ft
10.
1.
0.1
1.E-002
1.E-003
Drawdown (ft)
0.
0.1
0.2
0.3
0.4
0.5
Time (min)

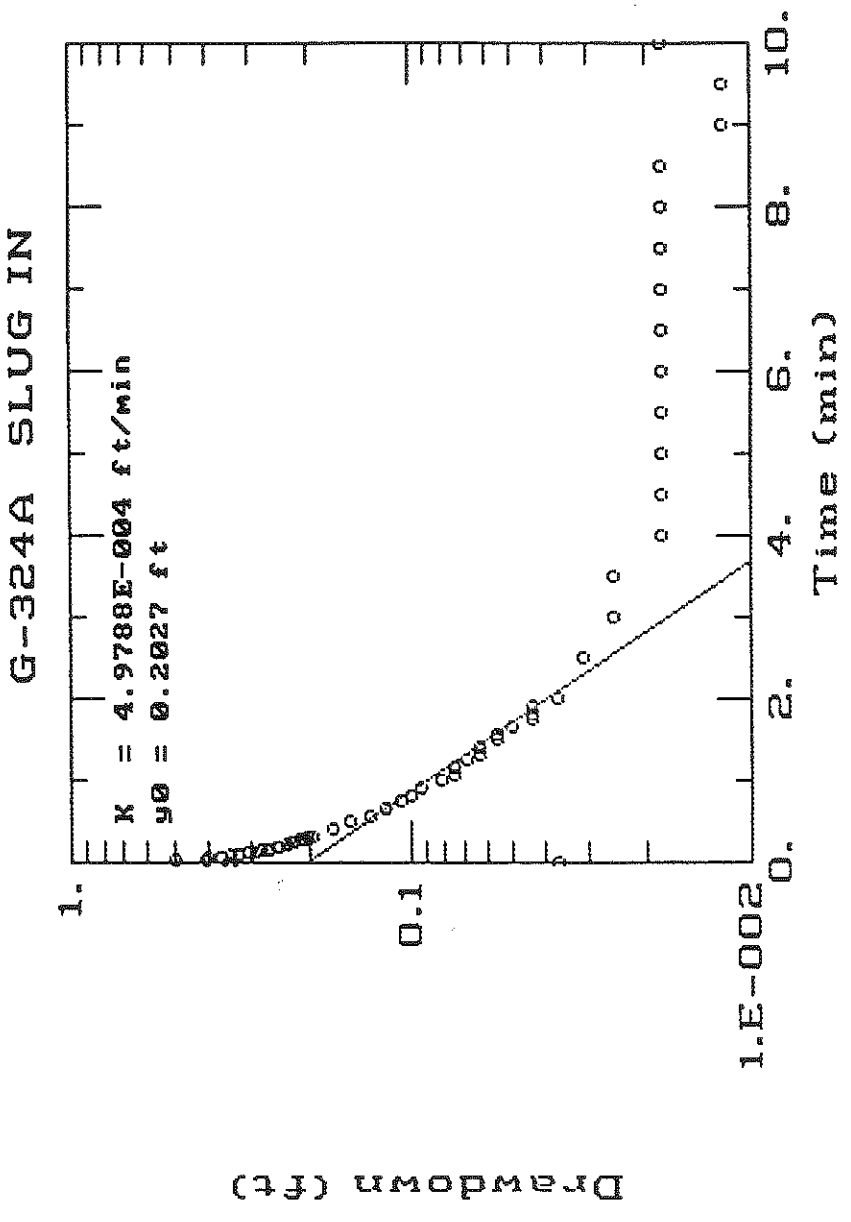
G-324 SLUG IN
slugt1
0.480
0.083
0.375
slugt2
6.43
6.43
5.43
tsdata

0.0000	0.000	1
0.0033	0.000	1
0.0066	0.000	1
0.0100	0.000	1
0.0133	0.000	1
0.0166	0.000	1
0.0200	0.000	1
0.0233	0.132	1
0.0266	0.442	1
0.0300	0.480	1
0.0333	0.480	1
0.0500	0.018	1
0.0666	0.000	1
0.0833	0.006	1
0.1000	0.006	1
0.1166	0.006	1
0.1333	0.006	1
0.1500	0.006	1
0.1666	0.006	1
0.1833	0.006	1
0.2000	0.006	1
0.2166	0.006	1
0.2333	0.006	1
0.2500	0.006	1
0.2666	0.006	1
0.2833	0.006	1
0.3000	0.006	1
0.3166	0.006	1
0.3333	0.006	1
0.4166	0.006	1
0.5000	0.006	1
0.5833	0.006	1
0.6666	0.006	1
0.7500	0.006	1
0.8333	0.006	1
0.9166	0.006	1
1.0000	0.006	1
1.0833	0.006	1
1.1666	0.006	1
1.2500	0.006	1
1.3333	0.006	1
1.4166	0.006	1
1.5000	0.006	1
1.5833	0.012	1
1.6666	0.006	1
1.7500	0.006	1
1.8333	0.006	1
1.9166	0.006	1
2.0000	0.006	1
2.5000	0.006	1
3.0000	0.006	1
3.5000	0.006	1
4.0000	0.012	1
4.5000	0.012	1
5.0000	0.006	1
5.5000	0.006	1
6.0000	0.006	1
6.5000	0.006	1
7.0000	0.012	1
7.5000	0.006	1
8.0000	0.012	1
8.5000	0.006	1
9.0000	0.012	1
9.5000	0.012	1
10.0000	0.012	1


G-324 SLUG OUT
K = 0.05585 ft/min
y0 = 0.2748 ft
Drawdown (ft)
10.
1.
0.1
1.E-002
1.E-003
0.
0.1
0.2
0.3
0.4
0.5
Time (min)

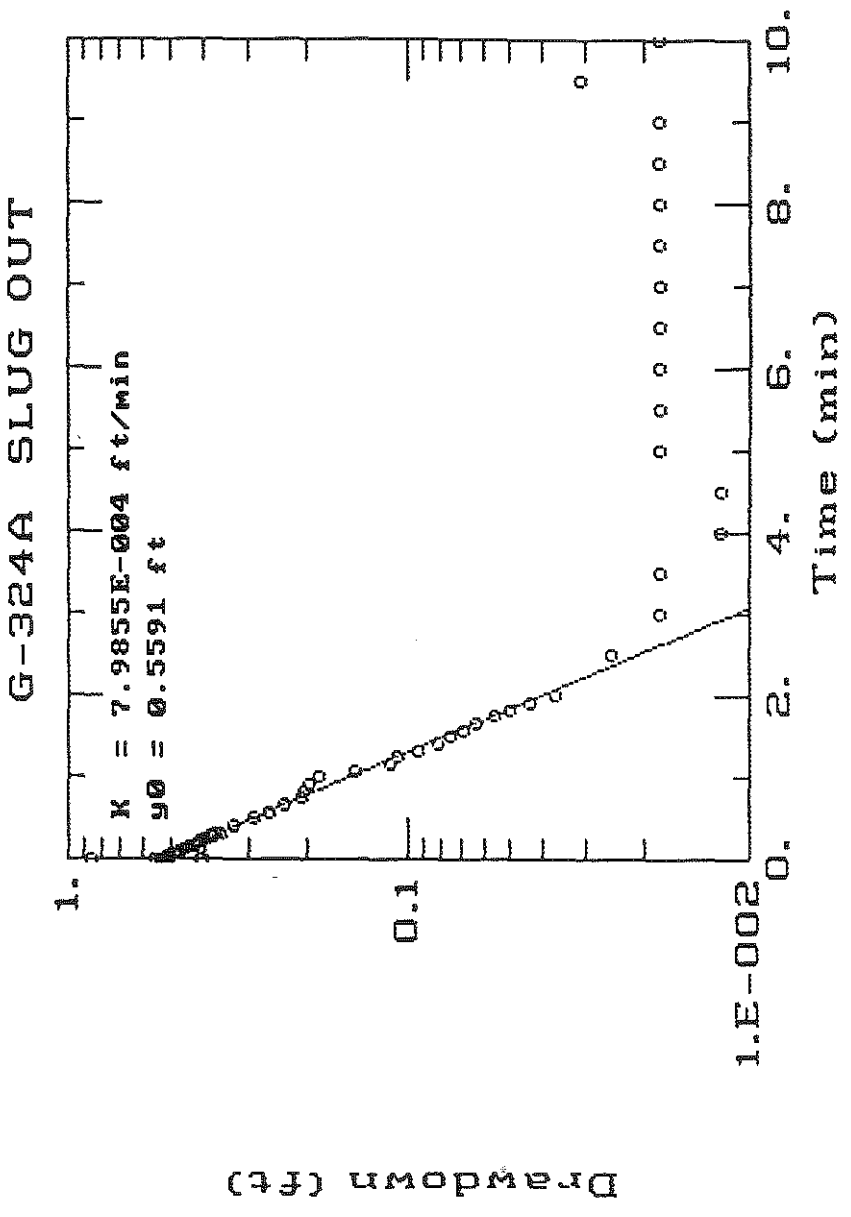
G-324 SLUG OUT
slugt1
0.518
0.083
0.375
slugt2
6.43
6.43
5.43
tsdata

0.0000	0.000	1
0.0033	0.031	1
0.0066	0.518	1
0.0100	0.385	1
0.0133	0.252	1
0.0166	0.101	1
0.0200	0.006	1
0.0233	0.000	1
0.0266	0.063	1
0.0300	0.056	1
0.0333	0.037	1
0.0500	0.012	1
0.0666	0.006	1
0.0833	0.006	1
0.1000	0.006	1
0.1166	0.006	1
0.1333	0.006	1
0.1500	0.006	1
0.1666	0.006	1
0.1833	0.006	1
0.2000	0.006	1
0.2166	0.006	1
0.2333	0.006	1
0.2500	0.006	1
0.2666	0.006	1
0.2833	0.006	1
0.3000	0.006	1
0.3166	0.006	1
0.3333	0.006	1
0.4166	0.006	1
0.5000	0.006	1
0.5833	0.006	1
0.6666	0.006	1
0.7500	0.006	1
0.8333	0.006	1
0.9166	0.006	1
1.0000	0.006	1
1.0833	0.006	1
1.1666	0.006	1
1.2500	0.006	1
1.3333	0.006	1
1.4166	0.006	1
1.5000	0.006	1
1.5833	0.006	1
1.6666	0.006	1
1.7500	0.006	1
1.8333	0.006	1
1.9166	0.006	1
2.0000	0.006	1
2.5000	0.006	1
3.0000	0.006	1
3.5000	0.006	1
4.0000	0.006	1
4.5000	0.006	1
5.0000	0.006	1
5.5000	0.006	1
6.0000	0.006	1
6.5000	0.006	1
7.0000	0.006	1
7.5000	0.006	1
8.0000	0.006	1
8.5000	0.006	1
9.0000	0.006	1
9.5000	0.006	1
10.0000	0.006	1


G-324A SLUG IN
K = 4.9788E-004 ft/min
y0 = 0.2027 ft
1.
0.1
1.E-002
0.
2.
4.
6.
8.
10.
Time (min)
Drawdown (ft)

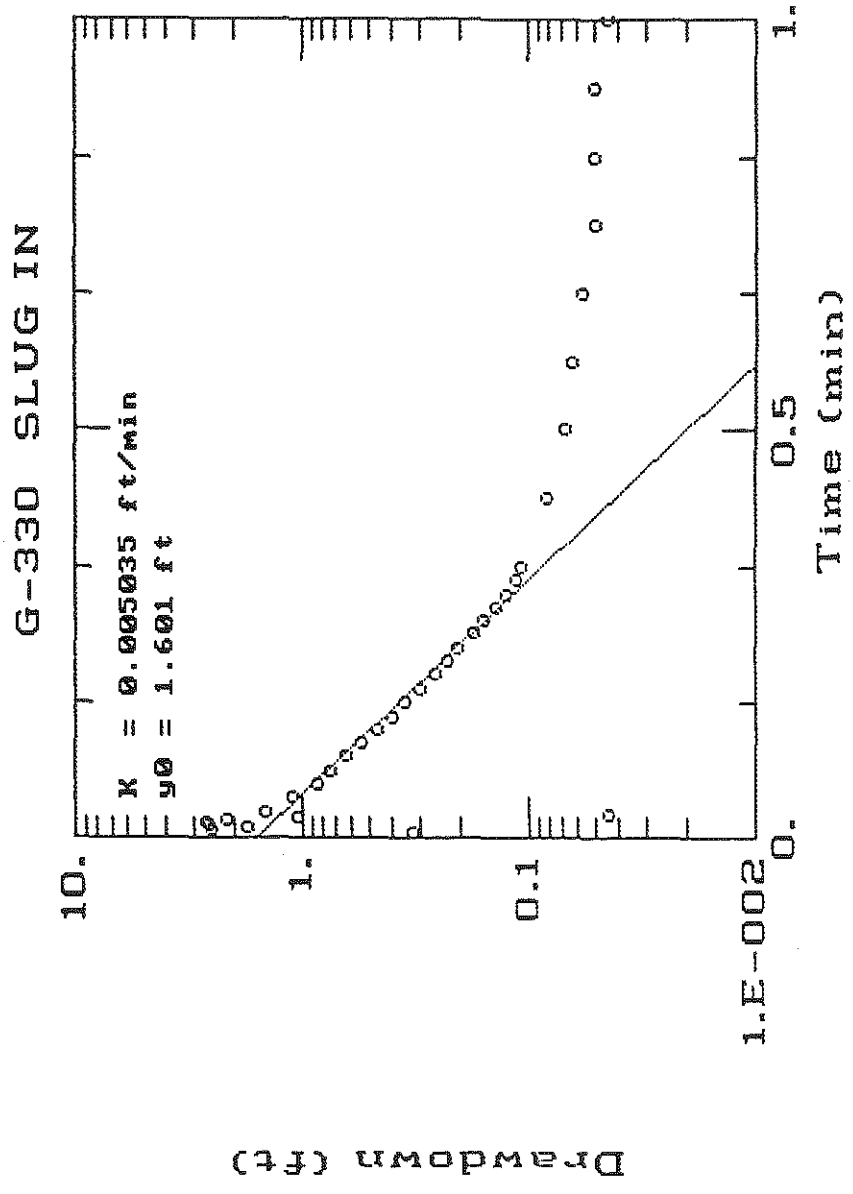
G-324A SLUG IN
slugt1
0.499
0.083
0.375
slugt2
9.57
9.57
4.07
tsdata

0.0000	0.000	1
0.0033	0.000	1
0.0066	0.000	1
0.0100	0.006	1
0.0133	0.000	1
0.0166	0.006	1
0.0200	0.006	1
0.0233	0.037	1
0.0266	0.341	1
0.0300	0.347	1
0.0333	0.499	1
0.0500	0.404	1
0.0666	0.398	1
0.0833	0.366	1
0.1000	0.341	1
0.1166	0.322	1
0.1333	0.303	1
0.1500	0.290	1
0.1666	0.278	1
0.1833	0.265	1
0.2000	0.252	1
0.2166	0.246	1
0.2333	0.233	1
0.2500	0.227	1
0.2666	0.221	1
0.2833	0.214	1
0.3000	0.208	1
0.3166	0.202	1
0.3333	0.196	1
0.4166	0.170	1
0.5000	0.151	1
0.5833	0.132	1
0.6666	0.120	1
0.7500	0.107	1
0.8333	0.101	1
0.9166	0.094	1
1.0000	0.082	1
1.0833	0.075	1
1.1666	0.075	1
1.2500	0.069	1
1.3333	0.063	1
1.4166	0.063	1
1.5000	0.056	1
1.5833	0.056	1
1.6666	0.050	1
1.7500	0.044	1
1.8333	0.044	1
1.9166	0.044	1
2.0000	0.037	1
2.5000	0.031	1
3.0000	0.025	1
3.5000	0.025	1
4.0000	0.018	1
4.5000	0.018	1
5.0000	0.018	1
5.5000	0.018	1
6.0000	0.018	1
6.5000	0.018	1
7.0000	0.018	1
7.5000	0.018	1
8.0000	0.018	1
8.5000	0.018	1
9.0000	0.012	1
9.5000	0.012	1
10.0000	0.018	1

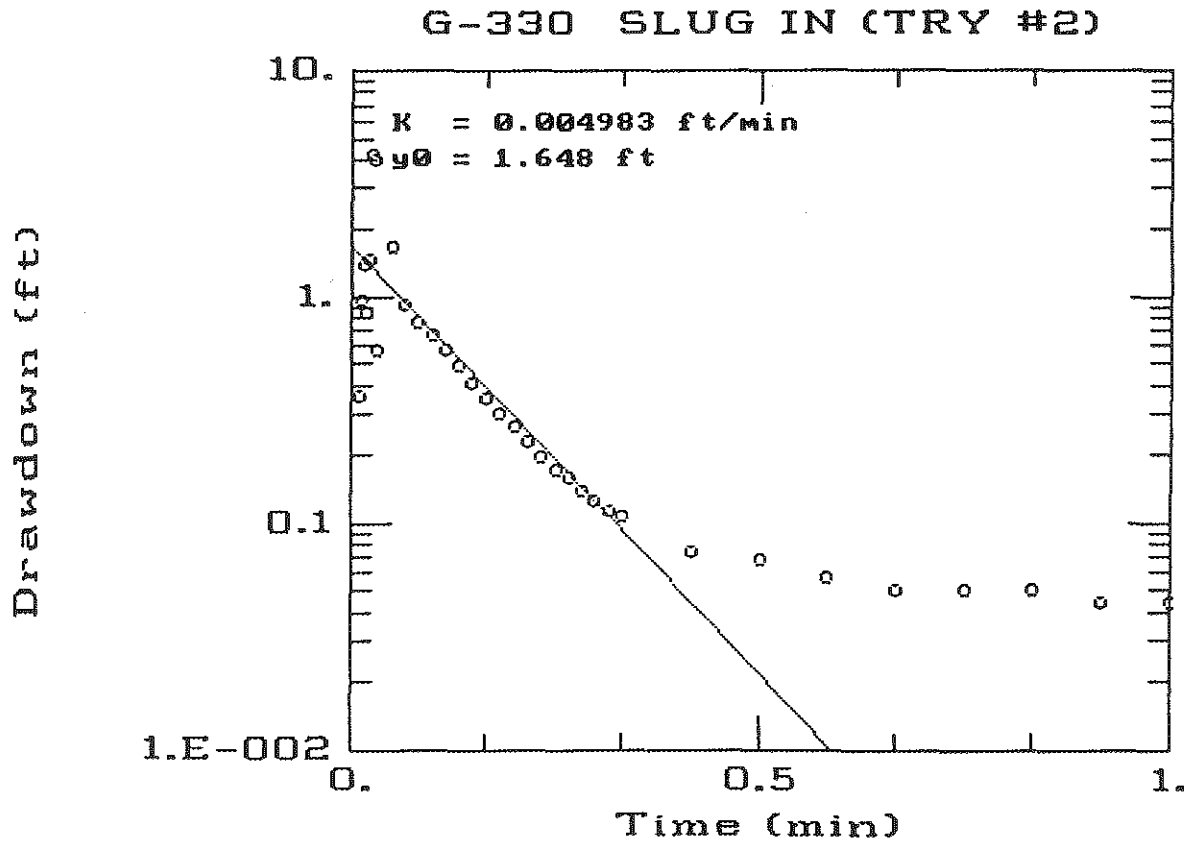

G-324A SLUG OUT
K = 7.9855E-004 ft/min
y0 = 0.5591 ft
Drawdown (ft)
Time (min)
1.
0.1
1.E-002
0.
2.
4.
6.
8.
10.

G-324A SLUG OUT
slugt1
0.556
0.083
0.375
slugt2
9.57
9.57
4.07
tsdata

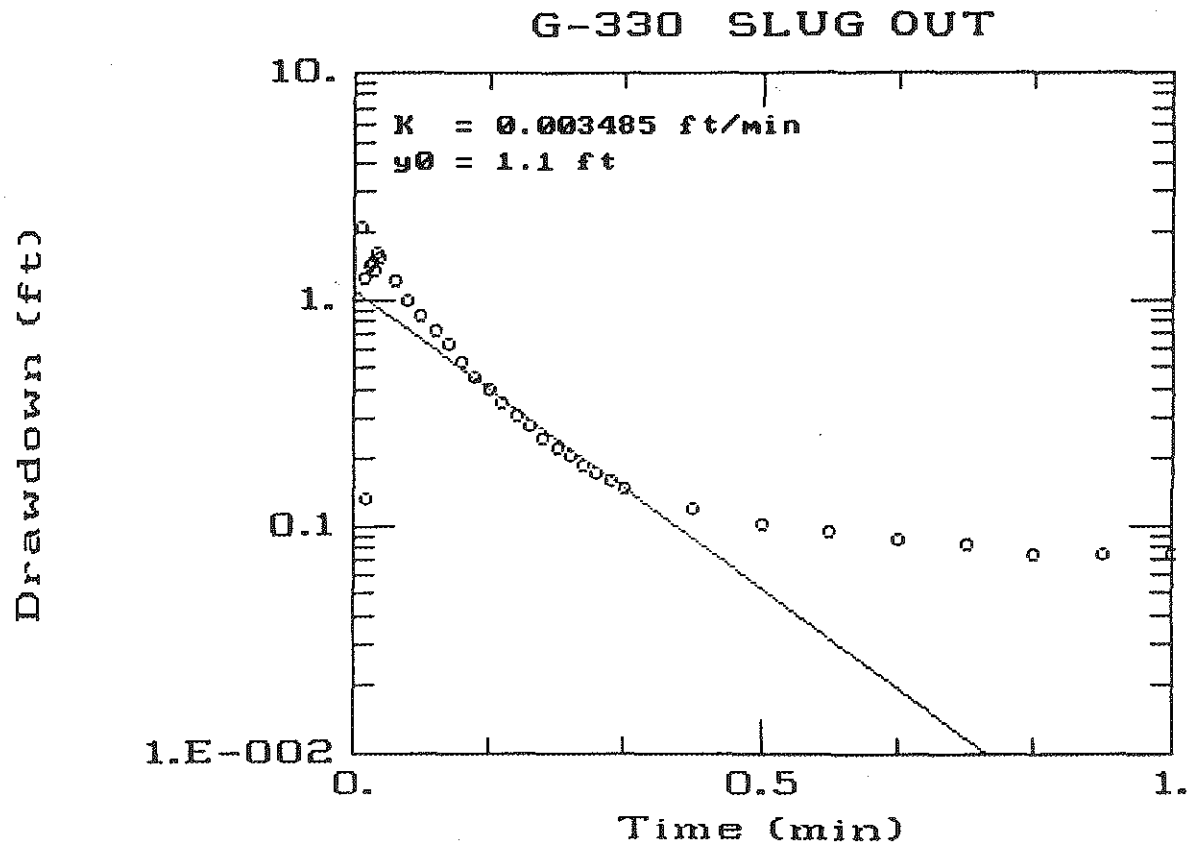
0.0000	0.006	1
0.0033	0.006	1
0.0066	0.859	1
0.0100	0.404	1
0.0133	0.550	1
0.0166	0.556	1
0.0200	0.531	1
0.0233	0.531	1
0.0266	0.512	1
0.0300	0.524	1
0.0333	0.518	1
0.0500	0.499	1
0.0666	0.499	1
0.0833	0.480	1
0.1000	0.474	1
0.1166	0.467	1
0.1333	0.455	1
0.1500	0.448	1
0.1666	0.442	1
0.1833	0.429	1
0.2000	0.423	1
0.2166	0.417	1
0.2333	0.411	1
0.2500	0.398	1
0.2666	0.392	1
0.2833	0.385	1
0.3000	0.379	1
0.3166	0.373	1
0.3333	0.360	1
0.4166	0.328	1
0.5000	0.290	1
0.5833	0.259	1
0.6666	0.233	1
0.7500	0.208	1
0.8333	0.202	1
0.9166	0.196	1
1.0000	0.183	1
1.0833	0.145	1
1.1666	0.113	1
1.2500	0.107	1
1.3333	0.094	1
1.4166	0.082	1
1.5000	0.075	1
1.5833	0.069	1
1.6666	0.063	1
1.7500	0.056	1
1.8333	0.050	1
1.9166	0.044	1
2.0000	0.037	1
2.5000	0.025	1
3.0000	0.018	1
3.5000	0.018	1
4.0000	0.012	1
4.5000	0.012	1
5.0000	0.018	1
5.5000	0.018	1
6.0000	0.018	1
6.5000	0.018	1
7.0000	0.018	1
7.5000	0.018	1
8.0000	0.018	1
8.5000	0.018	1
9.0000	0.018	1
9.5000	0.031	1
10.0000	0.018	1


G-330 SLUG IN
K = 0.005035 ft/min
y0 = 1.601 ft
10.
1.
0.1
1.E-002
0.
0.5
1.
Time (min)
Drawdown (ft)

```
G-330  SLUG IN
slugt1
1.461
0.083
0.375
slugt2
14.05
14.05
10.55
tsdata
  0.0000  0.000  1
  0.0033  0.000  1
  0.0066  0.322  1
  0.0100  2.492  1
  0.0133  1.739  1
  0.0166  2.574  1
  0.0200  2.682  1
  0.0233  2.138  1
  0.0266  1.050  1
  0.0300  0.044  1
  0.0333  1.461  1
  0.0500  1.113  1
  0.0666  0.860  1
  0.0833  0.752  1
  0.1000  0.645  1
  0.1166  0.550  1
  0.1333  0.474  1
  0.1500  0.404  1
  0.1666  0.348  1
  0.1833  0.303  1
  0.2000  0.259  1
  0.2166  0.227  1
  0.2333  0.202  1
  0.2500  0.177  1
  0.2666  0.158  1
  0.2833  0.139  1
  0.3000  0.126  1
  0.3166  0.113  1
  0.3333  0.107  1
  0.4166  0.082  1
  0.5000  0.069  1
  0.5833  0.063  1
  0.6666  0.057  1
  0.7500  0.050  1
  0.8333  0.050  1
  0.9166  0.050  1
  1.0000  0.044  1
  1.0833  0.044  1
  1.1666  0.050  1
  1.2500  0.044  1
  1.3333  0.044  1
  1.4166  0.038  1
  1.5000  0.038  1
  1.5833  0.038  1
  1.6666  0.038  1
  1.7500  0.031  1
  1.8333  0.031  1
  1.9166  0.031  1
  2.0000  0.031  1
  2.5000  0.025  1
  3.0000  0.025  1
  3.5000  0.025  1
  4.0000  0.025  1
  4.5000  0.019  1
  5.0000  0.019  1
  5.5000  0.019  1
  6.0000  0.019  1
  6.5000  0.019  1
  7.0000  0.019  1
  7.5000  0.019  1
  8.0000  0.012  1
  8.5000  0.012  1
  9.0000  0.012  1
  9.5000  0.012  1
 10.0000  0.012  1
 11.0000  0.012  1
 12.0000  0.012  1
 13.0000  0.012  1
```

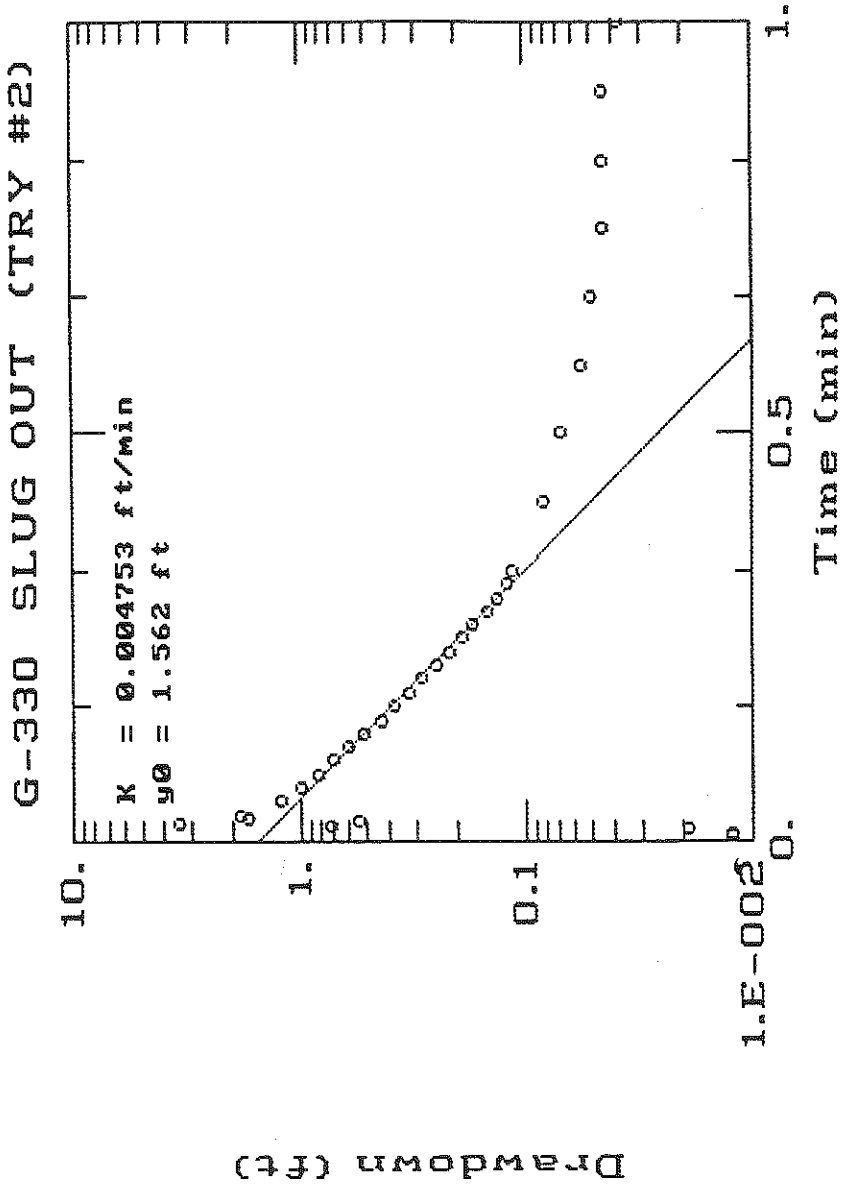

G-330 SLUG IN (TRY #2)
K = 0.004983 ft/min
Sy0 = 1.648 ft
10.
1.
0.1
1.E-002
0.
0.5
1.
Drawdown (ft)
Time (min)

```
G-330  SLUG IN
slugt1
1.676
0.083
0.375
slugt2
14.05
14.05
10.55
tsdata
  0.0000  0.000  1
  0.0033  0.000  1
  0.0066  0.000  1
  0.0100  0.366  1
  0.0133  0.980  1
  0.0166  1.398  1
  0.0200  0.841  1
  0.0233  1.448  1
  0.0266  4.238  1
  0.0300  4.004  1
  0.0333  0.575  1
  0.0500  1.676  1
  0.0666  0.917  1
  0.0833  0.771  1
  0.1000  0.670  1
  0.1166  0.569  1
  0.1333  0.487  1
  0.1500  0.411  1
  0.1666  0.354  1
  0.1833  0.303  1
  0.2000  0.265  1
  0.2166  0.227  1
  0.2333  0.196  1
  0.2500  0.170  1
  0.2666  0.158  1
  0.2833  0.139  1
  0.3000  0.126  1
  0.3166  0.113  1
  0.3333  0.107  1
  0.4166  0.075  1
  0.5000  0.069  1
  0.5833  0.057  1
  0.6666  0.050  1
  0.7500  0.050  1
  0.8333  0.050  1
  0.9166  0.044  1
  1.0000  0.044  1
  1.0833  0.044  1
  1.1666  0.044  1
  1.2500  0.038  1
  1.3333  0.038  1
  1.4166  0.038  1
  1.5000  0.038  1
  1.5833  0.038  1
  1.6666  0.031  1
  1.7500  0.031  1
  1.8333  0.031  1
  1.9166  0.031  1
  2.0000  0.031  1
  2.5000  0.025  1
  3.0000  0.025  1
  3.5000  0.025  1
  4.0000  0.025  1
  4.5000  0.025  1
  5.0000  0.019  1
  5.5000  0.019  1
  6.0000  0.019  1
  6.5000  0.019  1
  7.0000  0.019  1
  7.5000  0.019  1
  8.0000  0.019  1
  8.5000  0.019  1
  9.0000  0.012  1
  9.5000  0.019  1
 10.0000  0.012  1
```


G-330 SLUG OUT
K = 0.003485 ft/min
y0 = 1.1 ft
10.
1.
0.1
1.E-002
0.
0.5
1.
Drawdown (ft)
Time (min)

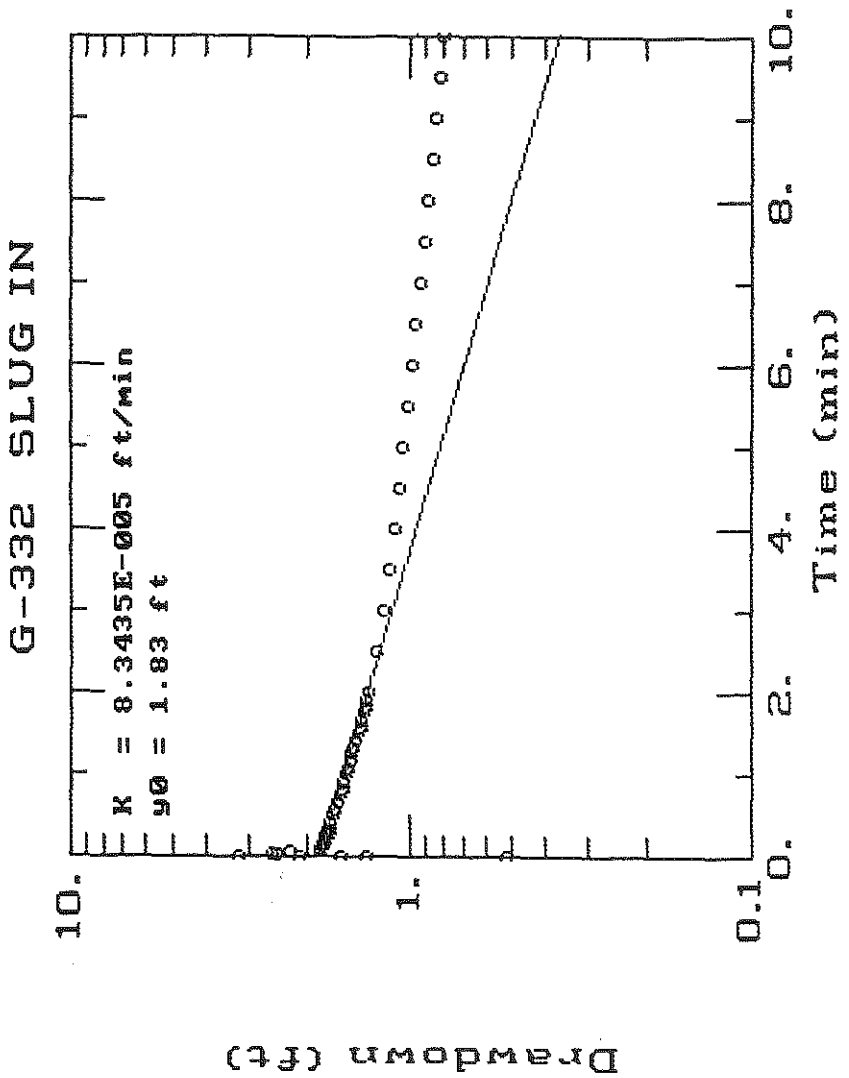
G-330 SLUG OUT
slugt1
1.853
0.083
0.375
slugt2
14.05
14.05
10.55
tsdata

0.0000	0.006	1
0.0033	0.006	1
0.0066	0.012	1
0.0100	0.012	1
0.0133	0.000	1
0.0166	0.019	1
0.0200	0.733	1
0.0233	3.472	1
0.0266	0.550	1
0.0300	1.726	1
0.0333	1.853	1
0.0500	1.233	1
0.0666	0.993	1
0.0833	0.834	1
0.1000	0.708	1
0.1166	0.600	1
0.1333	0.518	1
0.1500	0.436	1
0.1666	0.379	1
0.1833	0.329	1
0.2000	0.284	1
0.2166	0.246	1
0.2333	0.215	1
0.2500	0.189	1
0.2666	0.170	1
0.2833	0.145	1
0.3000	0.132	1
0.3166	0.120	1
0.3333	0.113	1
0.4166	0.082	1
0.5000	0.069	1
0.5833	0.056	1
0.6666	0.050	1
0.7500	0.044	1
0.8333	0.044	1
0.9166	0.044	1
1.0000	0.038	1
1.0833	0.038	1
1.1666	0.038	1
1.2500	0.031	1
1.3333	0.031	1
1.4166	0.031	1
1.5000	0.031	1
1.5833	0.031	1
1.6666	0.025	1
1.7500	0.025	1
1.8333	0.025	1
1.9166	0.025	1
2.0000	0.018	1
2.5000	0.018	1
3.0000	0.018	1
3.5000	0.018	1
4.0000	0.018	1
4.5000	0.012	1
5.0000	0.012	1
5.5000	0.018	1
6.0000	0.018	1
6.5000	0.018	1
7.0000	0.018	1
7.5000	0.012	1
8.0000	0.018	1
8.5000	0.012	1
9.0000	0.018	1
9.5000	0.012	1
10.0000	0.012	1


G-330 SLUG OUT (TRY #2)
K = 0.004753 ft/min
y0 = 1.562 ft
10.
1.
0.1
1.E-002
0.
0.5
1.
Time (min)
Drawdown (ft)

G-330 SLUG OUT
slugt1
1.638
0.083
0.375
slugt2
14.05
14.05
10.55
tsdata

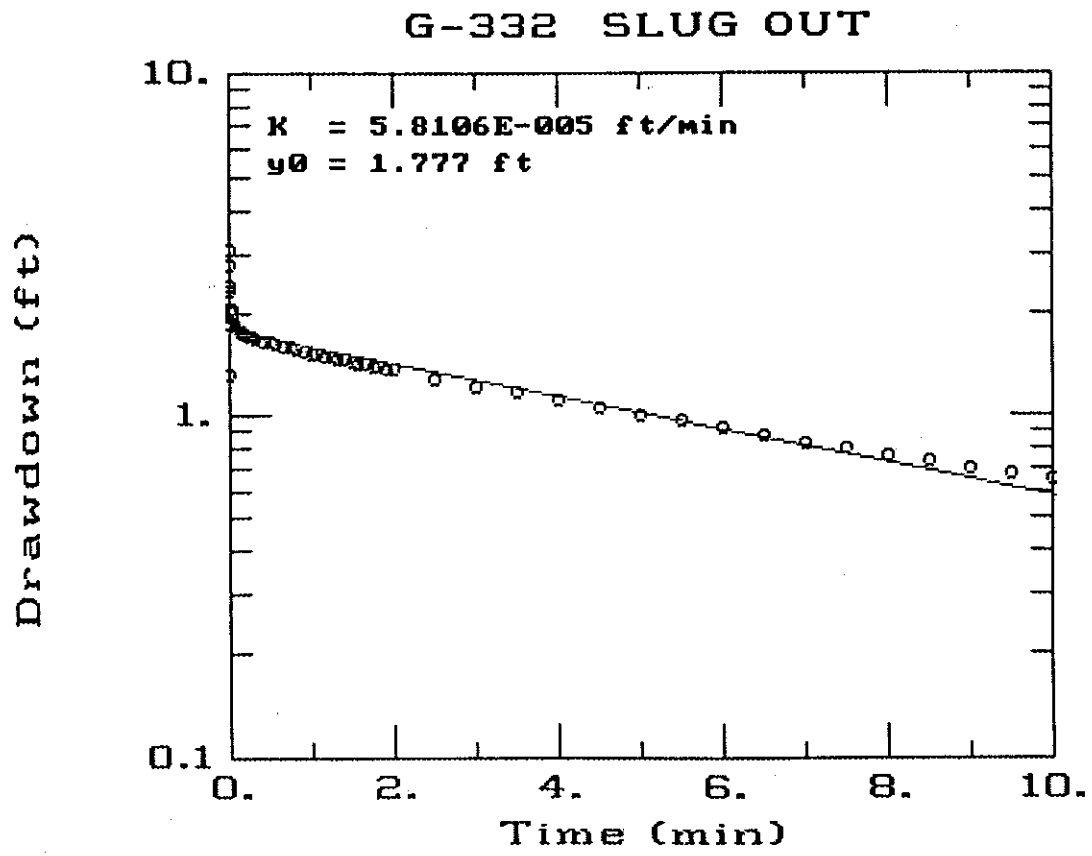
0.0000	0.000	1
0.0033	0.000	1
0.0066	0.006	1
0.0100	2.100	1
0.0133	1.252	1
0.0166	0.132	1
0.0200	1.435	1
0.0233	1.454	1
0.0266	1.347	1
0.0300	1.638	1
0.0333	1.530	1
0.0500	1.214	1
0.0666	1.005	1
0.0833	0.847	1
0.1000	0.727	1
0.1166	0.632	1
0.1333	0.531	1
0.1500	0.461	1
0.1666	0.404	1
0.1833	0.354	1
0.2000	0.309	1
0.2166	0.278	1
0.2333	0.246	1
0.2500	0.221	1
0.2666	0.202	1
0.2833	0.183	1
0.3000	0.170	1
0.3166	0.158	1
0.3333	0.145	1
0.4166	0.120	1
0.5000	0.101	1
0.5833	0.094	1
0.6666	0.088	1
0.7500	0.082	1
0.8333	0.075	1
0.9166	0.075	1
1.0000	0.075	1
1.0833	0.069	1
1.1666	0.069	1
1.2500	0.069	1
1.3333	0.069	1
1.4166	0.069	1
1.5000	0.075	1
1.5833	0.075	1
1.6666	0.063	1
1.7500	0.063	1
1.8333	0.063	1
1.9166	0.063	1
2.0000	0.056	1
2.5000	0.056	1
3.0000	0.050	1
3.5000	0.050	1
4.0000	0.050	1
4.5000	0.044	1
5.0000	0.044	1
5.5000	0.044	1
6.0000	0.044	1
6.5000	0.044	1
7.0000	0.044	1
7.5000	0.050	1
8.0000	0.050	1
8.5000	0.050	1
9.0000	0.050	1
9.5000	0.050	1
10.0000	0.050	1
11.0000	0.050	1


G-332 SLUG IN
K = 8.3435E-005 ft/min
y0 = 1.83 ft
10.
1.
0.1
0.
2.
4.
6.
8.
10.
Time (min)
Drawdown (ft)

G-332 SLUG IN
slugt1
3.200
0.083
0.375
slugt2
13.39
13.39
6.39
tsdata

0.0000	0.044	1
0.0033	0.044	1
0.0066	0.037	1
0.0100	0.037	1
0.0133	0.044	1
0.0166	0.518	1
0.0200	1.334	1
0.0233	1.612	1
0.0266	2.099	1
0.0300	3.200	1
0.0333	2.473	1
0.0500	2.549	1
0.0666	2.245	1
0.0833	1.846	1
0.1000	1.834	1
0.1166	1.821	1
0.1333	1.809	1
0.1500	1.796	1
0.1666	1.790	1
0.1833	1.783	1
0.2000	1.777	1
0.2166	1.771	1
0.2333	1.764	1
0.2500	1.758	1
0.2666	1.752	1
0.2833	1.745	1
0.3000	1.739	1
0.3166	1.733	1
0.3333	1.726	1
0.4166	1.701	1
0.5000	1.676	1
0.5833	1.650	1
0.6666	1.625	1
0.7500	1.606	1
0.8333	1.581	1
0.9166	1.562	1
1.0000	1.536	1
1.0833	1.517	1
1.1666	1.492	1
1.2500	1.480	1
1.3333	1.461	1
1.4166	1.442	1
1.5000	1.423	1
1.5833	1.404	1
1.6666	1.385	1
1.7500	1.372	1
1.8333	1.353	1
1.9166	1.340	1
2.0000	1.321	1
2.5000	1.246	1
3.0000	1.195	1
3.5000	1.151	1
4.0000	1.119	1
4.5000	1.081	1
5.0000	1.049	1
5.5000	1.018	1
6.0000	0.986	1
6.5000	0.961	1
7.0000	0.936	1
7.5000	0.910	1
8.0000	0.885	1
8.5000	0.860	1
9.0000	0.841	1
9.5000	0.822	1
10.0000	0.803	1
11.0000	0.765	1
12.0000	0.733	1
13.0000	0.702	1
14.0000	0.676	1
15.0000	0.645	1
16.0000	0.619	1
17.0000	0.600	1
18.0000	0.581	1
19.0000	0.569	1
20.0000	0.556	1
21.0000	0.543	1
22.0000	0.524	1
23.0000	0.518	1
24.0000	0.506	1
25.0000	0.493	1
26.0000	0.487	1
27.0000	0.480	1
28.0000	0.474	1
29.0000	0.468	1
30.0000	0.461	1
31.0000	0.455	1

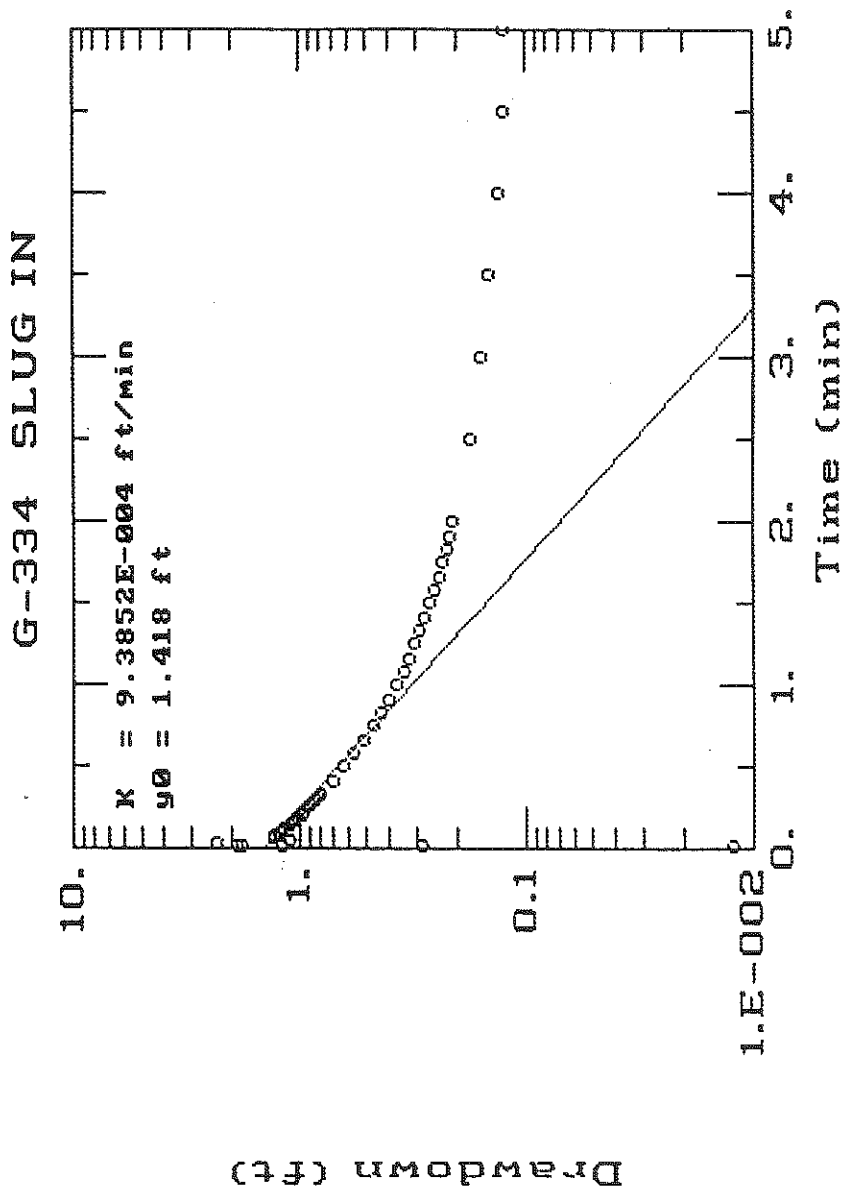
32.0000	0.449	1
33.0000	0.442	1
34.0000	0.436	1
35.0000	0.436	1
36.0000	0.430	1
37.0000	0.430	1
38.0000	0.423	1
39.0000	0.417	1
40.0000	0.417	1
41.0000	0.417	1
42.0000	0.411	1
43.0000	0.411	1
44.0000	0.411	1


G-332 SLUG OUT
K = 5.8106E-005 ft/min
y0 = 1.777 ft
10.
1.
0.1
0.
2.
4.
6.
8.
10.
Drawdown (ft)
Time (min)

G-332 SLUG OUT
slugt1
2.087
0.083
0.375
slugt2
13.39
13.39
6.39
tsdata

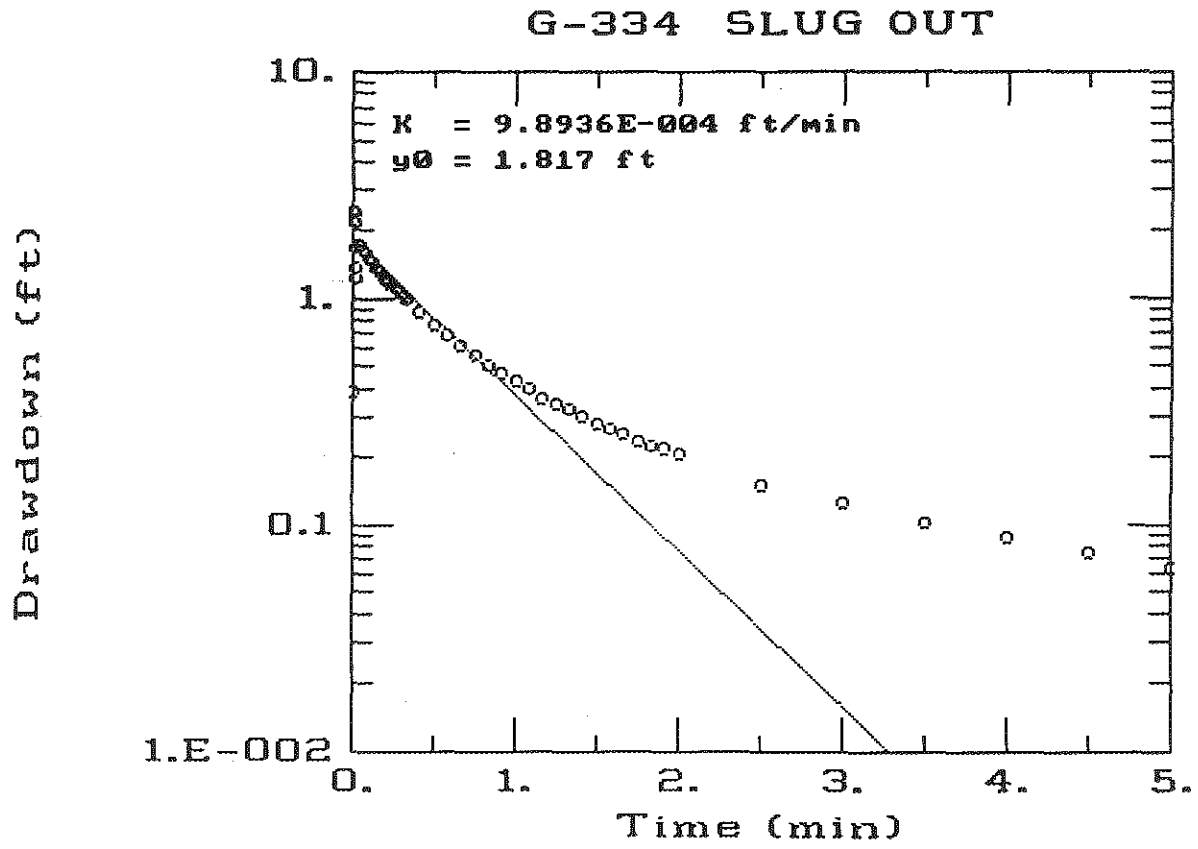
0.0000	0.000	1
0.0033	0.025	1
0.0066	2.409	1
0.0100	2.763	1
0.0133	3.092	1
0.0166	1.315	1
0.0200	2.346	1
0.0233	1.878	1
0.0266	2.068	1
0.0300	2.049	1
0.0333	2.087	1
0.0500	1.922	1
0.0666	1.872	1
0.0833	1.840	1
0.1000	1.815	1
0.1166	1.796	1
0.1333	1.783	1
0.1500	1.770	1
0.1666	1.758	1
0.1833	1.751	1
0.2000	1.745	1
0.2166	1.732	1
0.2333	1.726	1
0.2500	1.720	1
0.2666	1.713	1
0.2833	1.701	1
0.3000	1.701	1
0.3166	1.694	1
0.3333	1.688	1
0.4166	1.663	1
0.5000	1.644	1
0.5833	1.625	1
0.6666	1.606	1
0.7500	1.587	1
0.8333	1.568	1
0.9166	1.549	1
1.0000	1.530	1
1.0833	1.517	1
1.1666	1.498	1
1.2500	1.486	1
1.3333	1.467	1
1.4166	1.454	1
1.5000	1.442	1
1.5833	1.423	1
1.6666	1.410	1
1.7500	1.397	1
1.8333	1.385	1
1.9166	1.372	1
2.0000	1.359	1
2.5000	1.283	1
3.0000	1.220	1
3.5000	1.163	1
4.0000	1.106	1
4.5000	1.056	1
5.0000	1.005	1
5.5000	0.961	1
6.0000	0.917	1
6.5000	0.879	1
7.0000	0.834	1
7.5000	0.803	1
8.0000	0.765	1
8.5000	0.733	1
9.0000	0.702	1
9.5000	0.676	1
10.0000	0.651	1
11.0000	0.594	1
12.0000	0.556	1
13.0000	0.512	1
14.0000	0.474	1
15.0000	0.442	1
16.0000	0.411	1
17.0000	0.385	1
18.0000	0.354	1
19.0000	0.328	1
20.0000	0.309	1
21.0000	0.290	1
22.0000	0.271	1
23.0000	0.259	1
24.0000	0.240	1
25.0000	0.221	1
26.0000	0.208	1
27.0000	0.189	1
28.0000	0.177	1
29.0000	0.158	1
30.0000	0.151	1
31.0000	0.139	1

32.0000	0.126	1
33.0000	0.120	1
34.0000	0.107	1
35.0000	0.101	1
36.0000	0.094	1
37.0000	0.094	1
38.0000	0.088	1
39.0000	0.082	1
40.0000	0.082	1
41.0000	0.075	1
42.0000	0.075	1
43.0000	0.069	1
44.0000	0.063	1


G-334 SLUG IN
K = 9.3852E-004 ft/min
y0 = 1.418 ft
10.
1.
0.1
1.E-002
0.
1.
2.
3.
4.
5.
Time (min)
Drawdown (ft)

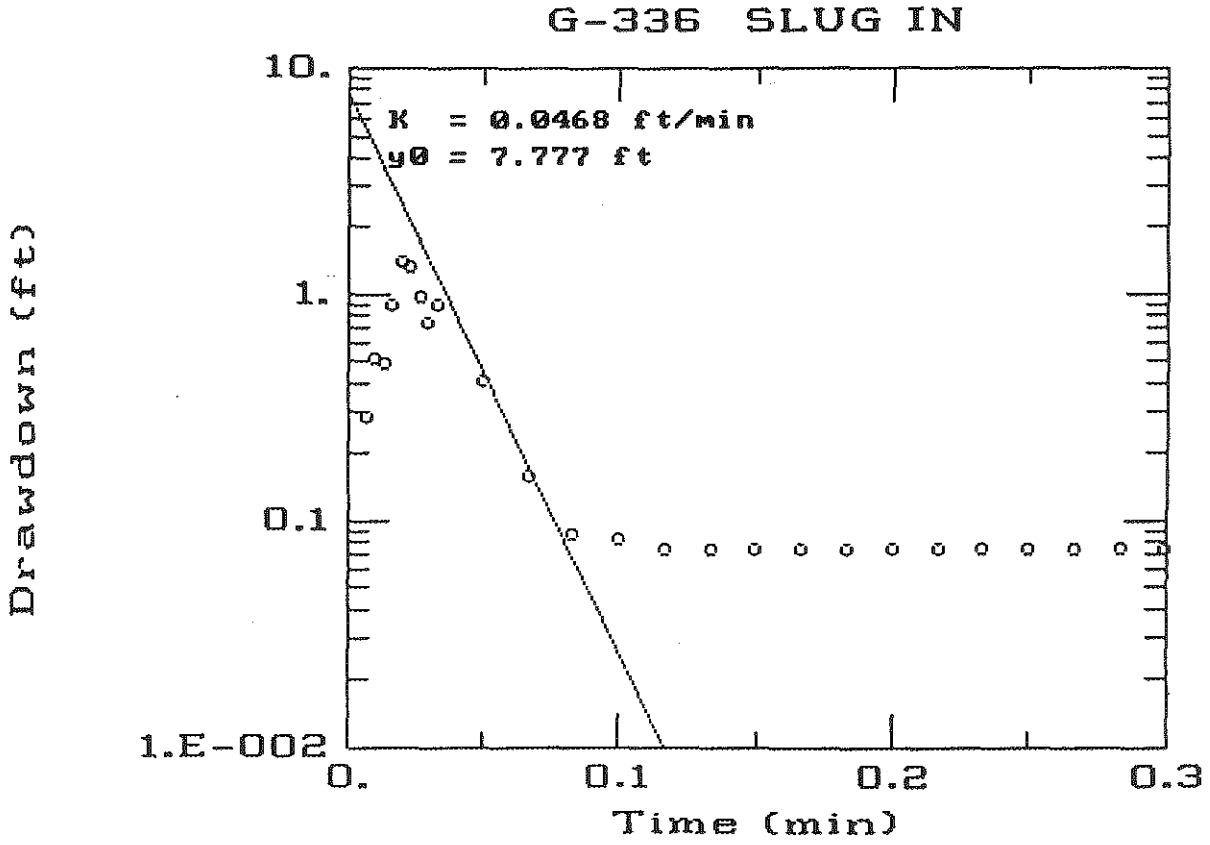
G-334 SLUG IN
slugt1
1.277
0.083
0.375
slugt2
11.6
11.6
7.6
tsdata

0.0000	0.006	1
0.0033	0.006	1
0.0066	0.006	1
0.0100	0.006	1
0.0133	0.006	1
0.0166	0.012	1
0.0200	0.284	1
0.0233	1.201	1
0.0266	1.802	1
0.0300	1.891	1
0.0333	2.340	1
0.0500	1.106	1
0.0666	1.277	1
0.0833	1.277	1
0.1000	1.233	1
0.1166	1.195	1
0.1333	1.151	1
0.1500	1.113	1
0.1666	1.075	1
0.1833	1.043	1
0.2000	1.012	1
0.2166	0.980	1
0.2333	0.955	1
0.2500	0.923	1
0.2666	0.898	1
0.2833	0.872	1
0.3000	0.853	1
0.3166	0.828	1
0.3333	0.809	1
0.4166	0.714	1
0.5000	0.632	1
0.5833	0.569	1
0.6666	0.518	1
0.7500	0.468	1
0.8333	0.430	1
0.9166	0.398	1
1.0000	0.373	1
1.0833	0.347	1
1.1666	0.328	1
1.2500	0.309	1
1.3333	0.291	1
1.4166	0.278	1
1.5000	0.265	1
1.5833	0.253	1
1.6666	0.240	1
1.7500	0.234	1
1.8333	0.221	1
1.9166	0.215	1
2.0000	0.208	1
2.5000	0.177	1
3.0000	0.158	1
3.5000	0.145	1
4.0000	0.132	1
4.5000	0.126	1
5.0000	0.126	1
5.5000	0.120	1
6.0000	0.113	1
6.5000	0.113	1
7.0000	0.107	1
7.5000	0.107	1
8.0000	0.107	1
8.5000	0.101	1
9.0000	0.101	1
9.5000	0.101	1
10.0000	0.094	1
11.0000	0.094	1
12.0000	0.094	1
13.0000	0.088	1
14.0000	0.088	1


G-334 SLUG OUT
K = 9.8936E-004 ft/min
y0 = 1.817 ft
10.
1.
0.1
1.E-002
0.
1.
2.
3.
4.
5.
Drawdown (ft)
Time (min)

G-334 SLUG OUT
slugt1
2.156
0.083
0.375
slugt2
11.6
11.6
7.6
tsdata

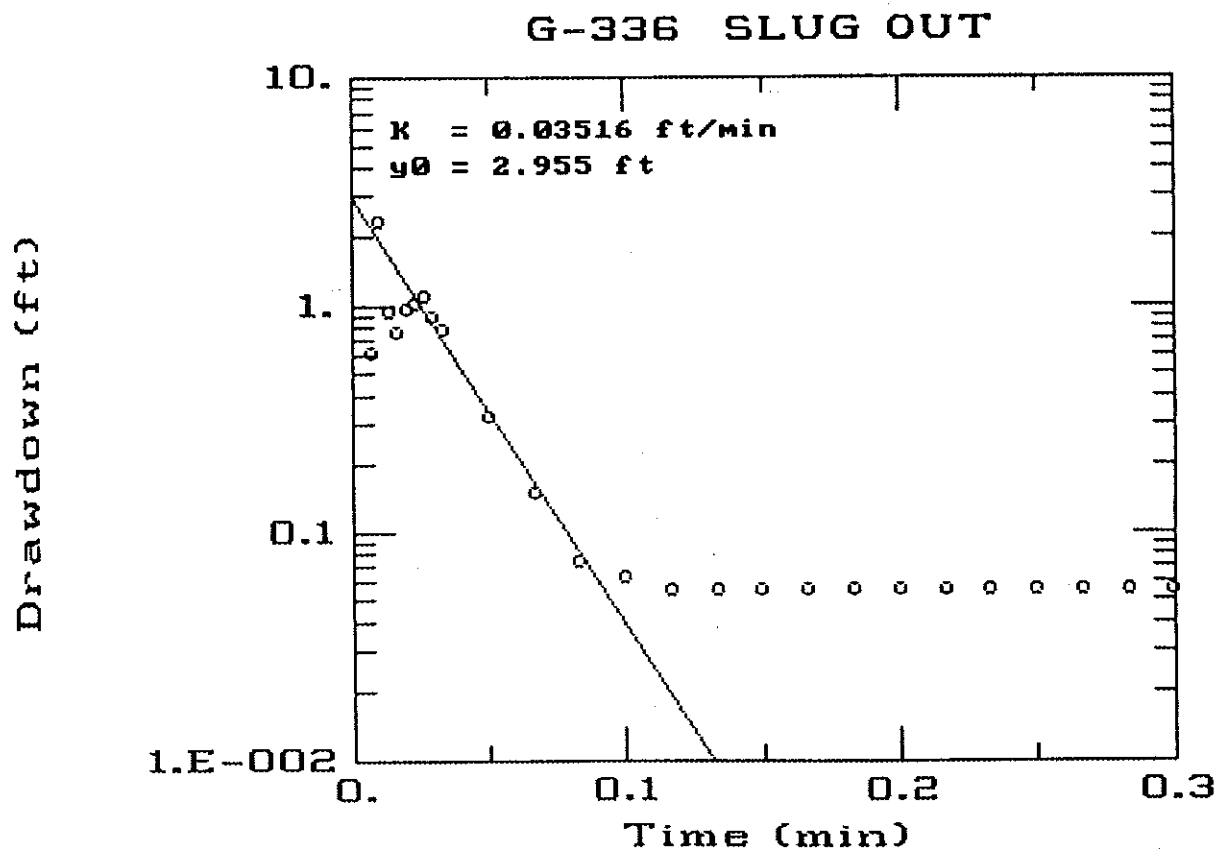
0.0000	0.006	1
0.0033	0.000	1
0.0066	0.392	1
0.0100	2.384	1
0.0133	2.219	1
0.0166	1.682	1
0.0200	1.214	1
0.0233	2.371	1
0.0266	1.347	1
0.0300	2.156	1
0.0333	1.707	1
0.0500	1.720	1
0.0666	1.638	1
0.0833	1.574	1
0.1000	1.517	1
0.1166	1.454	1
0.1333	1.410	1
0.1500	1.359	1
0.1666	1.315	1
0.1833	1.271	1
0.2000	1.233	1
0.2166	1.195	1
0.2333	1.163	1
0.2500	1.132	1
0.2666	1.100	1
0.2833	1.068	1
0.3000	1.037	1
0.3166	1.011	1
0.3333	0.986	1
0.4166	0.866	1
0.5000	0.771	1
0.5833	0.695	1
0.6666	0.619	1
0.7500	0.562	1
0.8333	0.512	1
0.9166	0.468	1
1.0000	0.430	1
1.0833	0.398	1
1.1666	0.366	1
1.2500	0.341	1
1.3333	0.322	1
1.4166	0.303	1
1.5000	0.278	1
1.5833	0.265	1
1.6666	0.252	1
1.7500	0.234	1
1.8333	0.221	1
1.9166	0.215	1
2.0000	0.202	1
2.5000	0.151	1
3.0000	0.126	1
3.5000	0.101	1
4.0000	0.088	1
4.5000	0.075	1
5.0000	0.063	1
5.5000	0.056	1
6.0000	0.050	1
6.5000	0.044	1
7.0000	0.037	1
7.5000	0.037	1
8.0000	0.031	1
8.5000	0.031	1
9.0000	0.025	1
9.5000	0.025	1
10.0000	0.025	1
11.0000	0.018	1
12.0000	0.025	1
13.0000	0.018	1
14.0000	0.012	1


G-336 SLUG IN
K = 0.0468 ft/min
y0 = 7.777 ft
10.
1.
0.1
1.E-002
0.
0.1
0.2
0.3
Drawdown (ft)
Time (min)

G-336 SLUG IN
slugt1
1.391
0.083
0.375
slugt2
8.01
8.01
6.01
tsdata

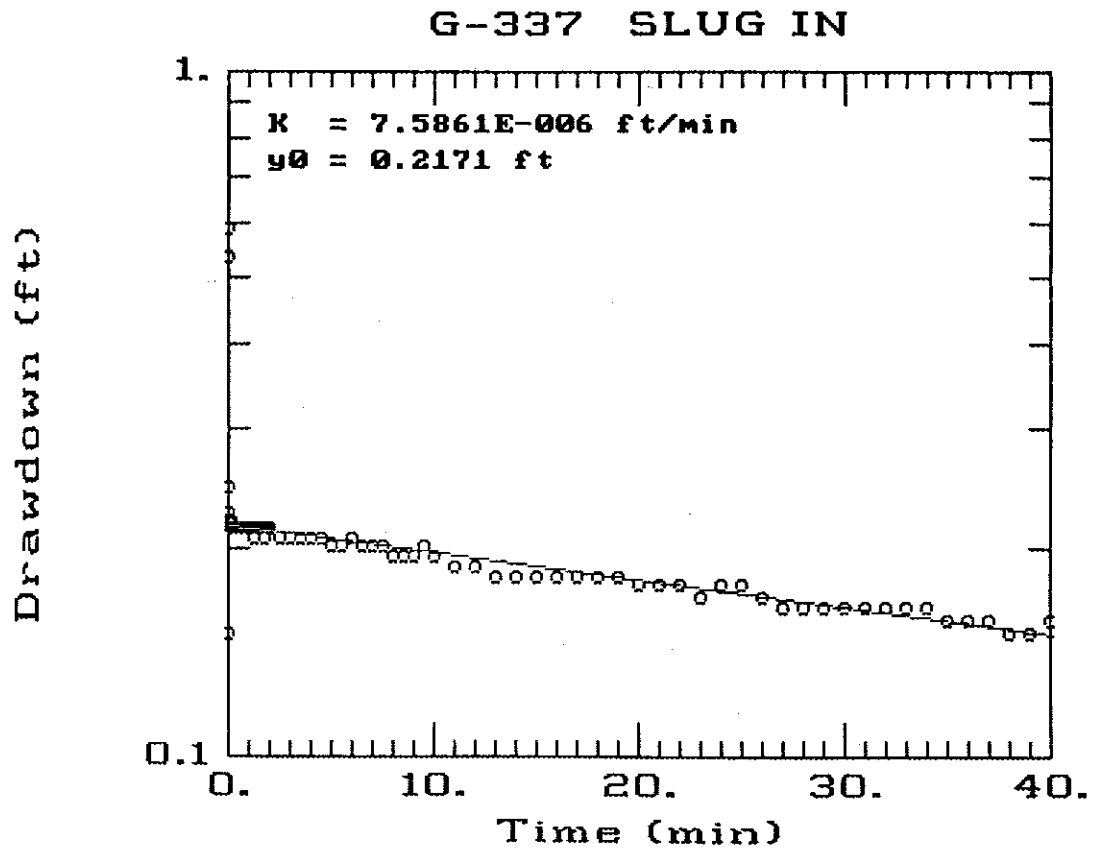
0.0000	0.000	1
0.0033	0.000	1
0.0066	0.284	1
0.0100	0.518	1
0.0133	0.493	1
0.0166	0.891	1
0.0200	1.391	1
0.0233	1.321	1
0.0266	0.973	1
0.0300	0.752	1
0.0333	0.904	1
0.0500	0.411	1
0.0666	0.158	1
0.0833	0.088	1
0.1000	0.082	1
0.1166	0.075	1
0.1333	0.075	1
0.1500	0.075	1
0.1666	0.075	1
0.1833	0.075	1
0.2000	0.075	1
0.2166	0.075	1
0.2333	0.075	1
0.2500	0.075	1
0.2666	0.075	1
0.2833	0.075	1
0.3000	0.075	1
0.3166	0.075	1
0.3333	0.075	1
0.4166	0.075	1
0.5000	0.075	1
0.5833	0.075	1
0.6666	0.075	1
0.7500	0.075	1
0.8333	0.075	1
0.9166	0.075	1
1.0000	0.075	1
1.0833	0.075	1
1.1666	0.075	1
1.2500	0.075	1
1.3333	0.075	1
1.4166	0.075	1
1.5000	0.075	1
1.5833	0.075	1
1.6666	0.075	1
1.7500	0.075	1
1.8333	0.075	1
1.9166	0.075	1
2.0000	0.075	1
2.5000	0.075	1
3.0000	0.075	1
3.5000	0.075	1
4.0000	0.075	1
4.5000	0.075	1
5.0000	0.075	1
5.5000	0.075	1
6.0000	0.075	1
6.5000	0.075	1
7.0000	0.075	1
7.5000	0.075	1
8.0000	0.075	1
8.5000	0.075	1
9.0000	0.075	1
9.5000	0.075	1
10.0000	0.075	1
11.0000	0.075	1
12.0000	0.075	1
13.0000	0.075	1
14.0000	0.075	1
15.0000	0.075	1
16.0000	0.069	1
17.0000	0.069	1
18.0000	0.069	1
19.0000	0.069	1
20.0000	0.069	1
21.0000	0.069	1
22.0000	0.069	1
23.0000	0.069	1
24.0000	0.069	1
25.0000	0.069	1
26.0000	0.075	1
27.0000	0.069	1
28.0000	0.069	1
29.0000	0.069	1
30.0000	0.069	1
31.0000	0.069	1

32.0000 0.069 1
33.0000 0.069 1
34.0000 0.069 1
35.0000 0.075 1


G-336 SLUG OUT
K = 0.03516 ft/min
y0 = 2.955 ft
10.
1.
0.1
1.E-002
0.
0.1
0.2
0.3
Drawdown (ft)
Time (min)

G-336 SLUG OUT
slugt1
1.106
0.083
0.375
slugt2
6.68
6.68
3.68
tsdata

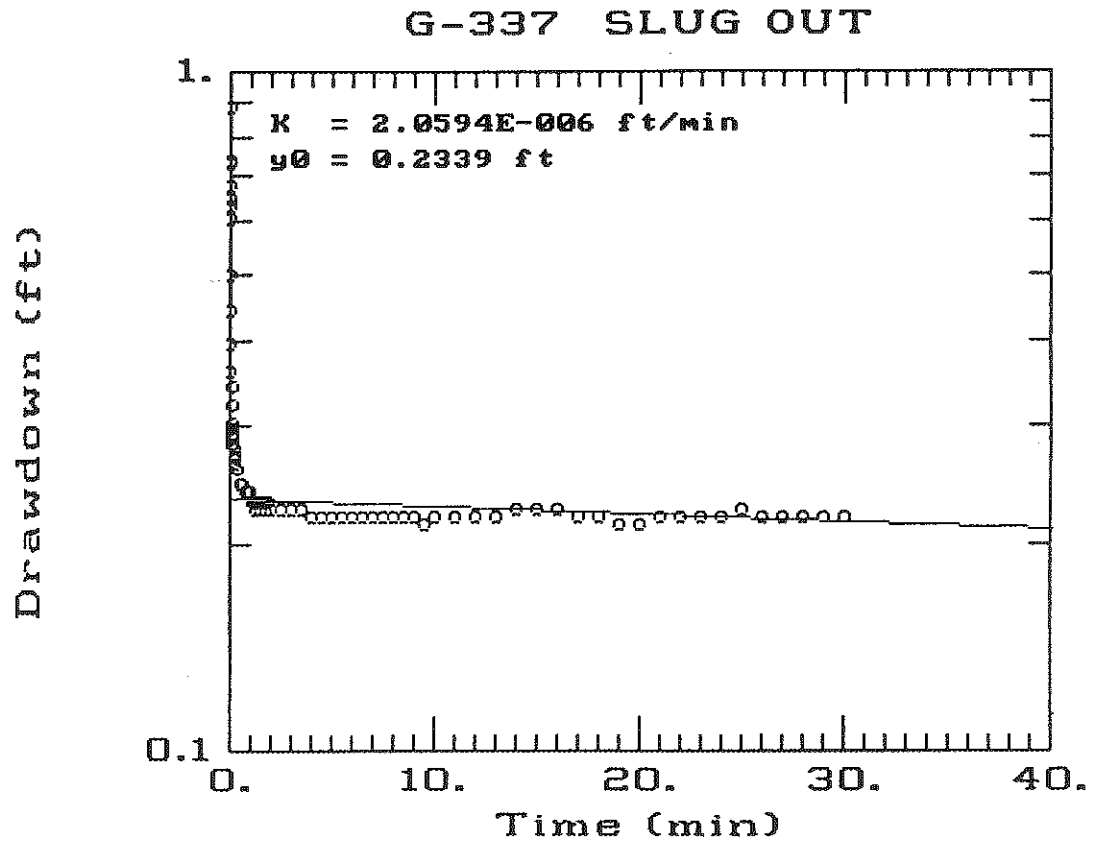
0.0000	0.006	1
0.0033	0.006	1
0.0066	0.619	1
0.0100	2.333	1
0.0133	0.936	1
0.0166	0.765	1
0.0200	0.973	1
0.0233	1.018	1
0.0266	1.106	1
0.0300	0.891	1
0.0333	0.777	1
0.0500	0.328	1
0.0666	0.151	1
0.0833	0.075	1
0.1000	0.063	1
0.1166	0.056	1
0.1333	0.056	1
0.1500	0.056	1
0.1666	0.056	1
0.1833	0.056	1
0.2000	0.056	1
0.2166	0.056	1
0.2333	0.056	1
0.2500	0.056	1
0.2666	0.056	1
0.2833	0.056	1
0.3000	0.056	1
0.3166	0.056	1
0.3333	0.056	1
0.4166	0.056	1
0.5000	0.056	1
0.5833	0.056	1
0.6666	0.056	1
0.7500	0.063	1
0.8333	0.056	1
0.9166	0.056	1
1.0000	0.056	1
1.0833	0.056	1
1.1666	0.056	1
1.2500	0.056	1
1.3333	0.056	1
1.4166	0.056	1
1.5000	0.056	1
1.5833	0.056	1
1.6666	0.056	1
1.7500	0.056	1
1.8333	0.056	1
1.9166	0.056	1
2.0000	0.056	1
2.5000	0.056	1
3.0000	0.056	1
3.5000	0.063	1
4.0000	0.056	1
4.5000	0.063	1
5.0000	0.056	1
5.5000	0.056	1
6.0000	0.056	1
6.5000	0.056	1
7.0000	0.056	1
7.5000	0.056	1
8.0000	0.056	1
8.5000	0.056	1
9.0000	0.056	1
9.5000	0.063	1
10.0000	0.056	1
11.0000	0.056	1
12.0000	0.056	1


G-337 SLUG IN
K = 7.5861E-006 ft/min
y0 = 0.2171 ft
1.
0.1
0.
10.
20.
30.
40.
Drawdown (ft)
Time (min)

G-337 SLUG IN
slugt1
0.588
0.083
0.375
slugt2
6.68
6.68
3.68
tsdata

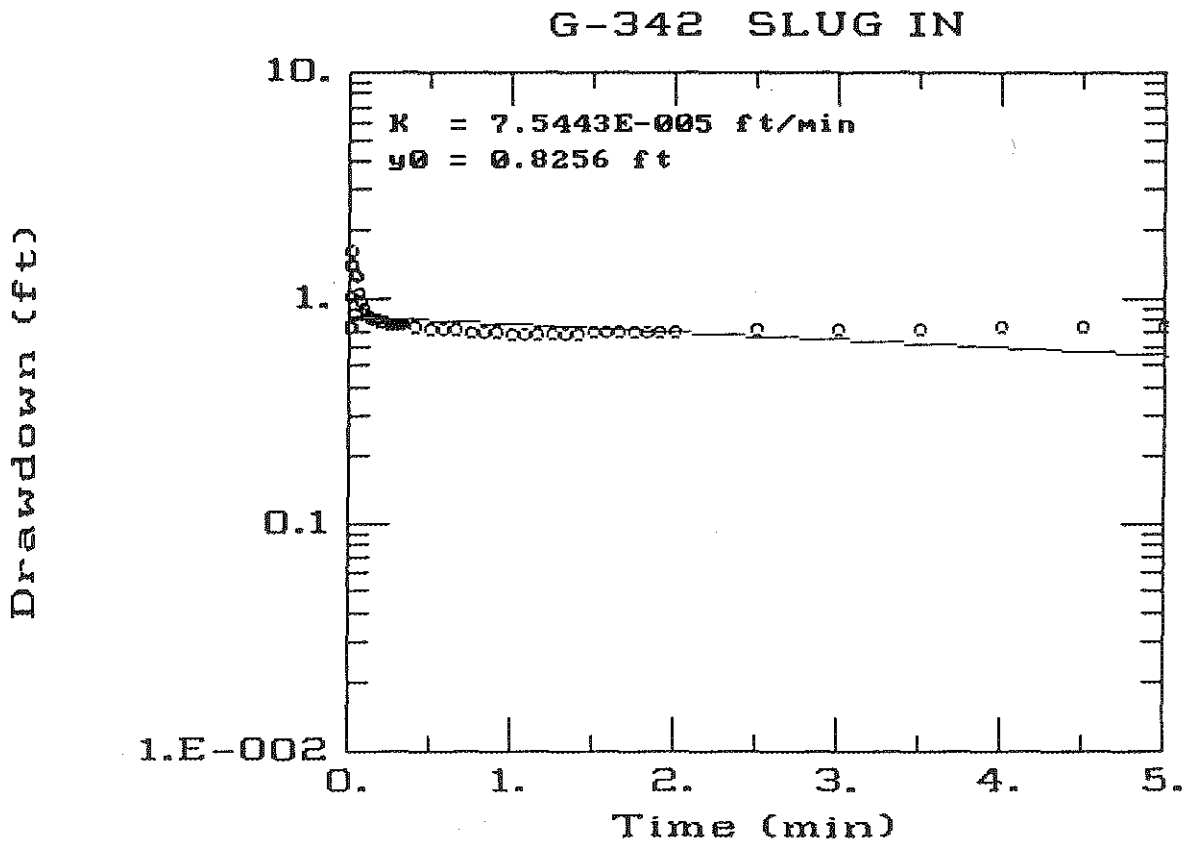
0.0000	0.000	1
0.0033	0.006	1
0.0066	0.006	1
0.0100	0.000	1
0.0133	0.000	1
0.0166	0.000	1
0.0200	0.006	1
0.0233	0.000	1
0.0266	0.000	1
0.0300	0.151	1
0.0333	0.537	1
0.0500	0.588	1
0.0666	0.246	1
0.0833	0.246	1
0.1000	0.227	1
0.1166	0.221	1
0.1333	0.221	1
0.1500	0.221	1
0.1666	0.221	1
0.1833	0.215	1
0.2000	0.215	1
0.2166	0.215	1
0.2333	0.215	1
0.2500	0.215	1
0.2666	0.215	1
0.2833	0.215	1
0.3000	0.215	1
0.3166	0.215	1
0.3333	0.215	1
0.4166	0.215	1
0.5000	0.215	1
0.5833	0.215	1
0.6666	0.215	1
0.7500	0.215	1
0.8333	0.215	1
0.9166	0.215	1
1.0000	0.215	1
1.0833	0.215	1
1.1666	0.215	1
1.2500	0.208	1
1.3333	0.215	1
1.4166	0.215	1
1.5000	0.215	1
1.5833	0.215	1
1.6666	0.215	1
1.7500	0.208	1
1.8333	0.215	1
1.9166	0.215	1
2.0000	0.215	1
2.5000	0.208	1
3.0000	0.208	1
3.5000	0.208	1
4.0000	0.208	1
4.5000	0.208	1
5.0000	0.202	1
5.5000	0.202	1
6.0000	0.208	1
6.5000	0.202	1
7.0000	0.202	1
7.5000	0.202	1
8.0000	0.196	1
8.5000	0.196	1
9.0000	0.196	1
9.5000	0.202	1
10.0000	0.196	1
11.0000	0.189	1
12.0000	0.189	1
13.0000	0.183	1
14.0000	0.183	1
15.0000	0.183	1
16.0000	0.183	1
17.0000	0.183	1
18.0000	0.183	1
19.0000	0.183	1
20.0000	0.177	1
21.0000	0.177	1
22.0000	0.177	1
23.0000	0.170	1
24.0000	0.177	1
25.0000	0.177	1
26.0000	0.170	1
27.0000	0.164	1
28.0000	0.164	1
29.0000	0.164	1
30.0000	0.164	1
31.0000	0.164	1

32.0000	0.164	1
33.0000	0.164	1
34.0000	0.164	1
35.0000	0.158	1
36.0000	0.158	1
37.0000	0.158	1
38.0000	0.151	1
39.0000	0.151	1
40.0000	0.158	1

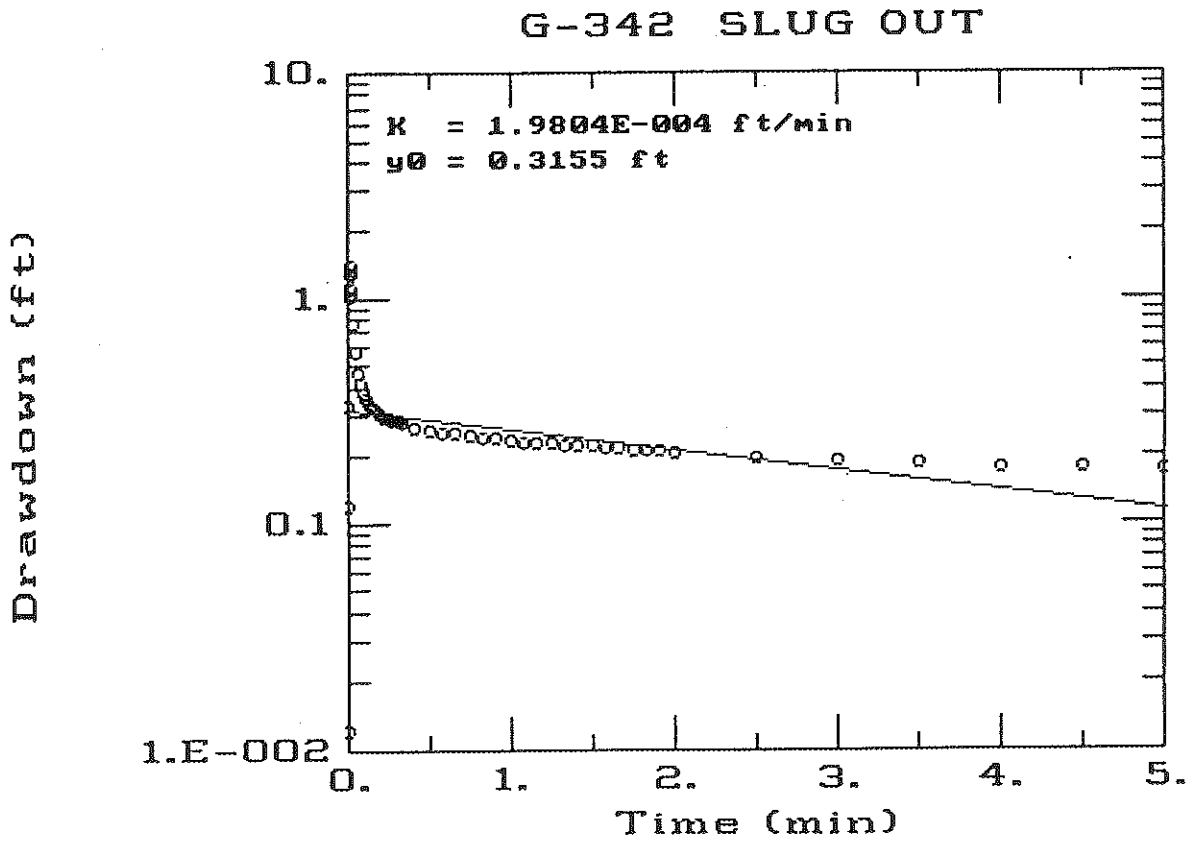

G-337 SLUG OUT
K = 2.0594E-006 ft/min
y0 = 0.2339 ft
1.
0.1
0.
10.
20.
30.
40.
Drawdown (ft)
Time (min)

G-337 SLUG OUT
slugt1
0.651
0.083
0.375
slugt2
6.68
6.68
3.63
tsdata

0.0000	0.000	1
0.0033	0.000	1
0.0066	0.000	1
0.0100	0.044	1
0.0133	0.739	1
0.0166	0.885	1
0.0200	0.651	1
0.0233	0.733	1
0.0266	0.632	1
0.0300	0.676	1
0.0333	0.651	1
0.0500	0.607	1
0.0666	0.499	1
0.0833	0.442	1
0.1000	0.398	1
0.1166	0.360	1
0.1333	0.341	1
0.1500	0.322	1
0.1666	0.303	1
0.1833	0.297	1
0.2000	0.290	1
0.2166	0.284	1
0.2333	0.284	1
0.2500	0.278	1
0.2666	0.271	1
0.2833	0.271	1
0.3000	0.271	1
0.3166	0.265	1
0.3333	0.265	1
0.4166	0.259	1
0.5000	0.246	1
0.5833	0.246	1
0.6666	0.246	1
0.7500	0.240	1
0.8333	0.240	1
0.9166	0.240	1
1.0000	0.240	1
1.0833	0.240	1
1.1666	0.233	1
1.2500	0.233	1
1.3333	0.227	1
1.4166	0.233	1
1.5000	0.233	1
1.5833	0.227	1
1.6666	0.233	1
1.7500	0.233	1
1.8333	0.227	1
1.9166	0.233	1
2.0000	0.227	1
2.5000	0.227	1
3.0000	0.227	1
3.5000	0.227	1
4.0000	0.221	1
4.5000	0.221	1
5.0000	0.221	1
5.5000	0.221	1
6.0000	0.221	1
6.5000	0.221	1
7.0000	0.221	1
7.5000	0.221	1
8.0000	0.221	1
8.5000	0.221	1
9.0000	0.221	1
9.5000	0.214	1
10.0000	0.221	1
11.0000	0.221	1
12.0000	0.221	1
13.0000	0.221	1
14.0000	0.227	1
15.0000	0.227	1
16.0000	0.227	1
17.0000	0.221	1
18.0000	0.221	1
19.0000	0.214	1
20.0000	0.214	1
21.0000	0.221	1
22.0000	0.221	1
23.0000	0.221	1
24.0000	0.221	1
25.0000	0.227	1
26.0000	0.221	1
27.0000	0.221	1
28.0000	0.221	1
29.0000	0.221	1
30.0000	0.221	1

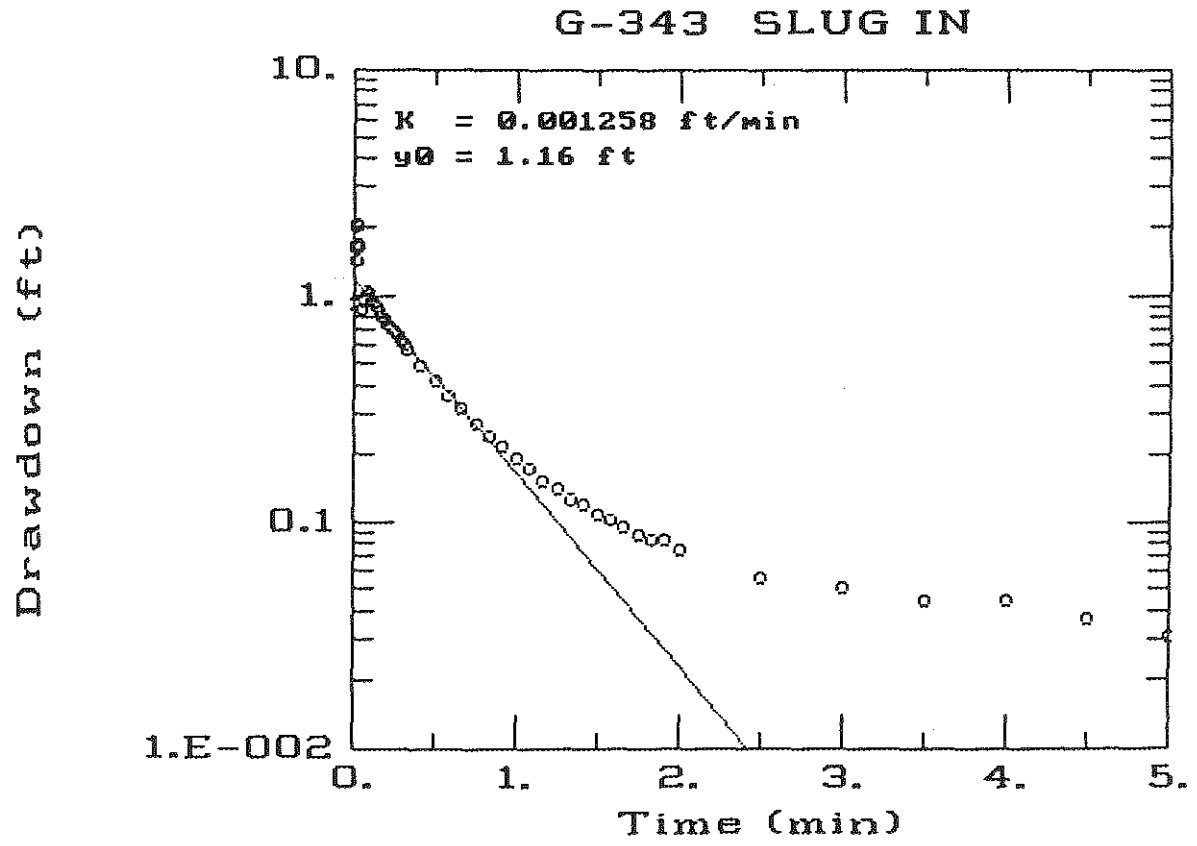

G-342 SLUG IN
K = 7.5443E-005 ft/min
y0 = 0.8256 ft
10.
1.
0.1
1.E-002
0.
1.
2.
3.
4.
5.
Drawdown (ft)
Time (min)

```
G-342  SLUG IN
slugt1
0.942
0.083
0.375
slugt2
6.07
6.07
4.57
tsdata
  0.0000  0.056  1
  0.0033  0.050  1
  0.0066  0.056  1
  0.0100  0.056  1
  0.0133  0.056  1
  0.0166  0.056  1
  0.0200  0.341  1
  0.0233  0.942  1
  0.0266  0.746  1
  0.0300  0.714  1
  0.0333  0.600  1
  0.0500  0.569  1
  0.0666  0.354  1
  0.0833  0.265  1
  0.1000  0.196  1
  0.1166  0.158  1
  0.1333  0.132  1
  0.1500  0.120  1
  0.1666  0.113  1
  0.1833  0.107  1
  0.2000  0.101  1
  0.2166  0.094  1
  0.2333  0.088  1
  0.2500  0.082  1
  0.2666  0.082  1
  0.2833  0.082  1
  0.3000  0.075  1
  0.3166  0.069  1
  0.3333  0.069  1
  0.4166  0.056  1
  0.5000  0.044  1
  0.5833  0.037  1
  0.6666  0.031  1
  0.7500  0.018  1
  0.8333  0.018  1
  0.9166  0.012  1
  1.0000  0.006  1
  1.0833  0.006  1
  1.1666  0.000  1
  1.2500  0.006  1
  1.3333  0.006  1
  1.4166  0.006  1
  1.5000  0.012  1
  1.5833  0.012  1
  1.6666  0.018  1
  1.7500  0.018  1
  1.8333  0.018  1
  1.9166  0.025  1
  2.0000  0.025  1
  2.5000  0.031  1
  3.0000  0.037  1
  3.5000  0.044  1
  4.0000  0.050  1
  4.5000  0.056  1
  5.0000  0.056  1
  5.5000  0.056  1
  6.0000  0.063  1
  6.5000  0.063  1
  7.0000  0.063  1
  7.5000  0.063  1
  8.0000  0.063  1
  8.5000  0.069  1
  9.0000  0.069  1
  9.5000  0.069  1
 10.0000  0.069  1
```


G-342 SLUG OUT
K = 1.9804E-004 ft/min
y0 = 0.3155 ft
10.
1.
0.1
1.E-002
Drawdown (ft)
0.
1.
2.
3.
4.
5.
Time (min)

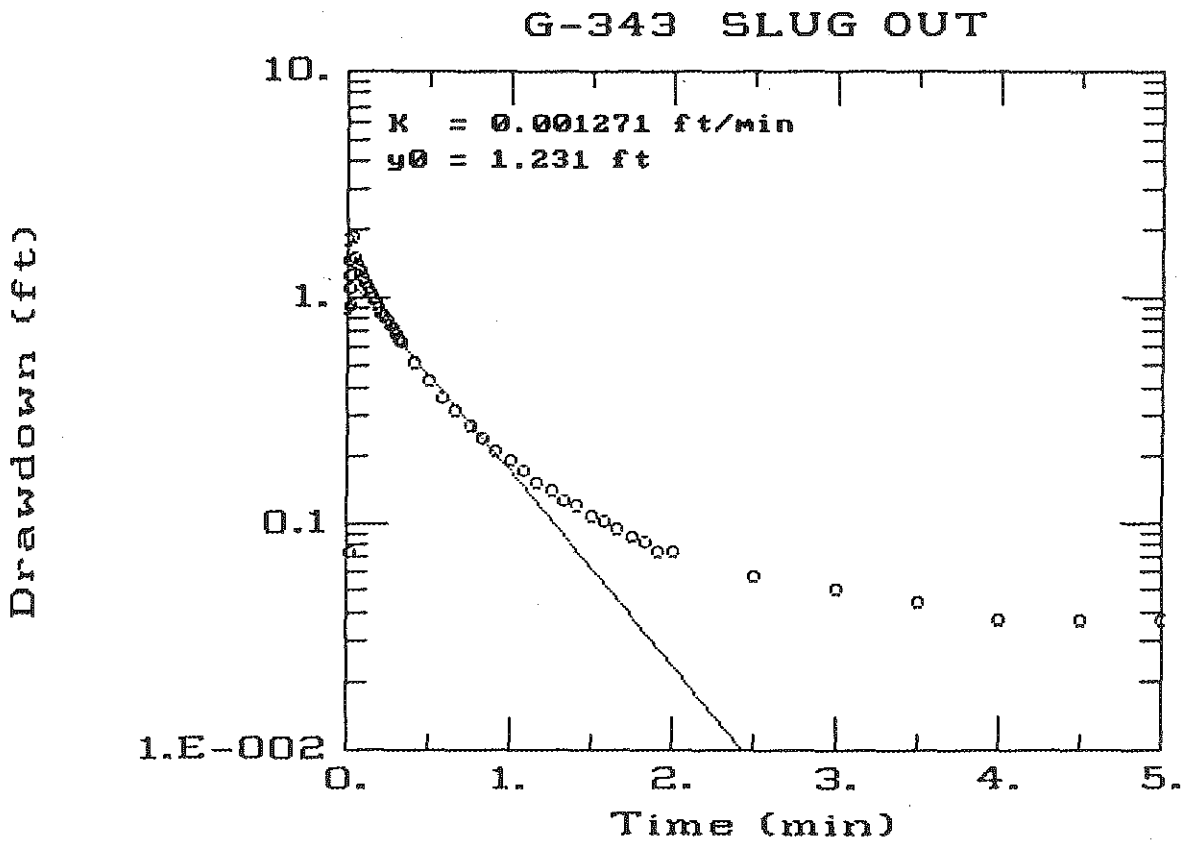
G-342 SLUG OUT
slugt1
1.384
0.083
0.375
slugt2
6.07
6.07
4.57
tsdata

0.0000	0.006	1
0.0033	0.012	1
0.0066	0.120	1
0.0100	1.214	1
0.0133	0.335	1
0.0166	1.302	1
0.0200	1.100	1
0.0233	1.283	1
0.0266	1.384	1
0.0300	1.018	1
0.0333	0.765	1
0.0500	0.575	1
0.0666	0.467	1
0.0833	0.417	1
0.1000	0.385	1
0.1166	0.360	1
0.1333	0.341	1
0.1500	0.335	1
0.1666	0.322	1
0.1833	0.316	1
0.2000	0.309	1
0.2166	0.303	1
0.2333	0.297	1
0.2500	0.297	1
0.2666	0.290	1
0.2833	0.290	1
0.3000	0.284	1
0.3166	0.284	1
0.3333	0.278	1
0.4166	0.265	1
0.5000	0.259	1
0.5833	0.252	1
0.6666	0.252	1
0.7500	0.246	1
0.8333	0.240	1
0.9166	0.240	1
1.0000	0.234	1
1.0833	0.227	1
1.1666	0.227	1
1.2500	0.227	1
1.3333	0.221	1
1.4166	0.221	1
1.5000	0.221	1
1.5833	0.215	1
1.6666	0.215	1
1.7500	0.208	1
1.8333	0.208	1
1.9166	0.208	1
2.0000	0.202	1
2.5000	0.196	1
3.0000	0.189	1
3.5000	0.183	1
4.0000	0.177	1
4.5000	0.177	1
5.0000	0.170	1
5.5000	0.170	1
6.0000	0.164	1
6.5000	0.164	1
7.0000	0.164	1
7.5000	0.164	1
8.0000	0.164	1
8.5000	0.164	1
9.0000	0.164	1
9.5000	0.164	1
10.0000	0.164	1


G-343 SLUG IN
K = 0.001258 ft/min
y0 = 1.16 ft
10.
1.
0.1
1.E-002
0.
1.
2.
3.
4.
5.
Drawdown (ft)
Time (min)

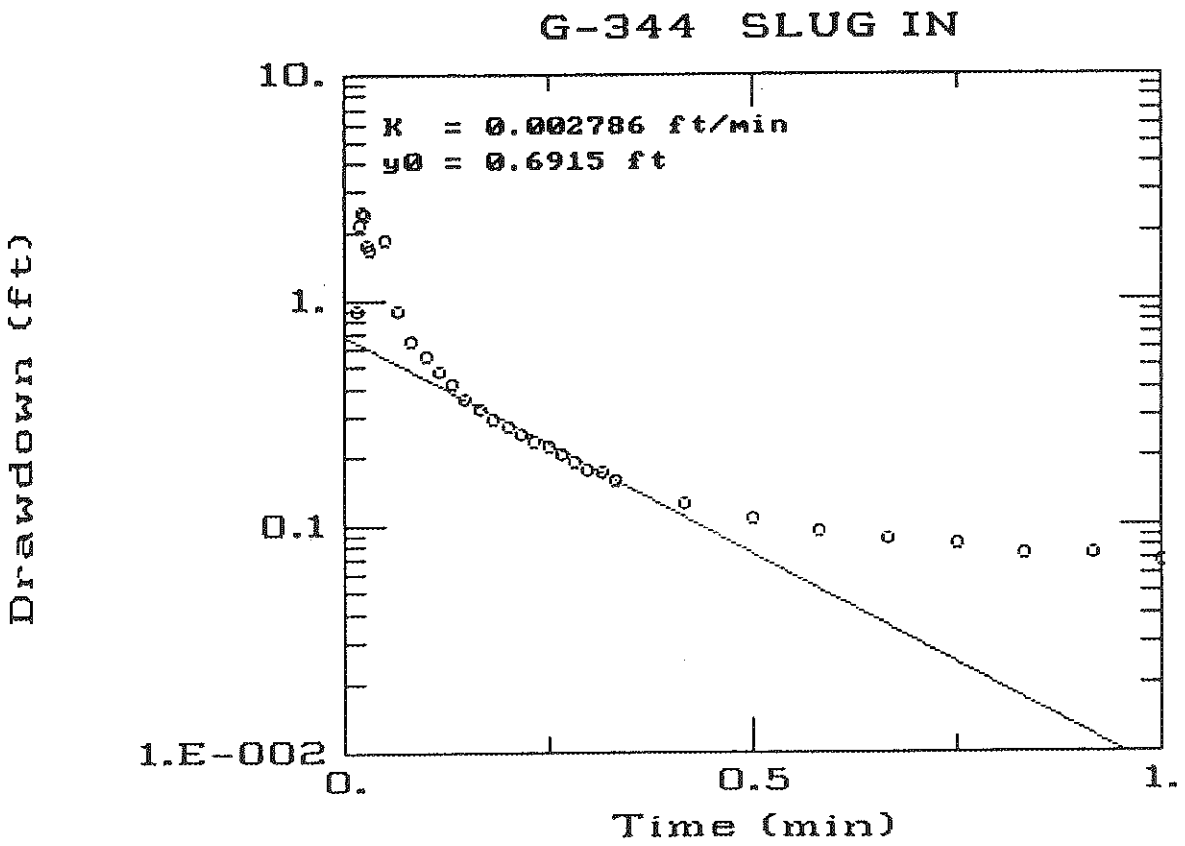
G-343 SLUG IN
slugt1
1.012
0.083
0.375
slugt2
13.52
13.52
12.52
tsdata

0.0000	0.006	1
0.0033	0.006	1
0.0066	0.006	1
0.0100	0.006	1
0.0133	0.917	1
0.0166	1.638	1
0.0200	1.423	1
0.0233	1.682	1
0.0266	1.992	1
0.0300	2.037	1
0.0333	1.663	1
0.0500	0.873	1
0.0666	0.955	1
0.0833	1.043	1
0.1000	1.012	1
0.1166	0.967	1
0.1333	0.923	1
0.1500	0.885	1
0.1666	0.847	1
0.1833	0.816	1
0.2000	0.784	1
0.2166	0.752	1
0.2333	0.721	1
0.2500	0.695	1
0.2666	0.670	1
0.2833	0.645	1
0.3000	0.619	1
0.3166	0.601	1
0.3333	0.582	1
0.4166	0.487	1
0.5000	0.417	1
0.5833	0.360	1
0.6666	0.316	1
0.7500	0.272	1
0.8333	0.240	1
0.9166	0.215	1
1.0000	0.189	1
1.0833	0.170	1
1.1666	0.151	1
1.2500	0.139	1
1.3333	0.126	1
1.4166	0.120	1
1.5000	0.107	1
1.5833	0.101	1
1.6666	0.094	1
1.7500	0.088	1
1.8333	0.082	1
1.9166	0.082	1
2.0000	0.075	1
2.5000	0.056	1
3.0000	0.050	1
3.5000	0.044	1
4.0000	0.044	1
4.5000	0.037	1
5.0000	0.031	1
5.5000	0.031	1
6.0000	0.025	1
6.5000	0.031	1
7.0000	0.031	1
7.5000	0.031	1
8.0000	0.031	1
8.5000	0.025	1
9.0000	0.031	1
9.5000	0.037	1
10.0000	0.025	1
11.0000	0.025	1
12.0000	0.025	1


G-343 SLUG OUT
K = 0.001271 ft/min
y0 = 1.231 ft
10.
1.
0.1
1.E-002
0.
1.
2.
3.
4.
5.
Drawdown (ft)
Time (min)

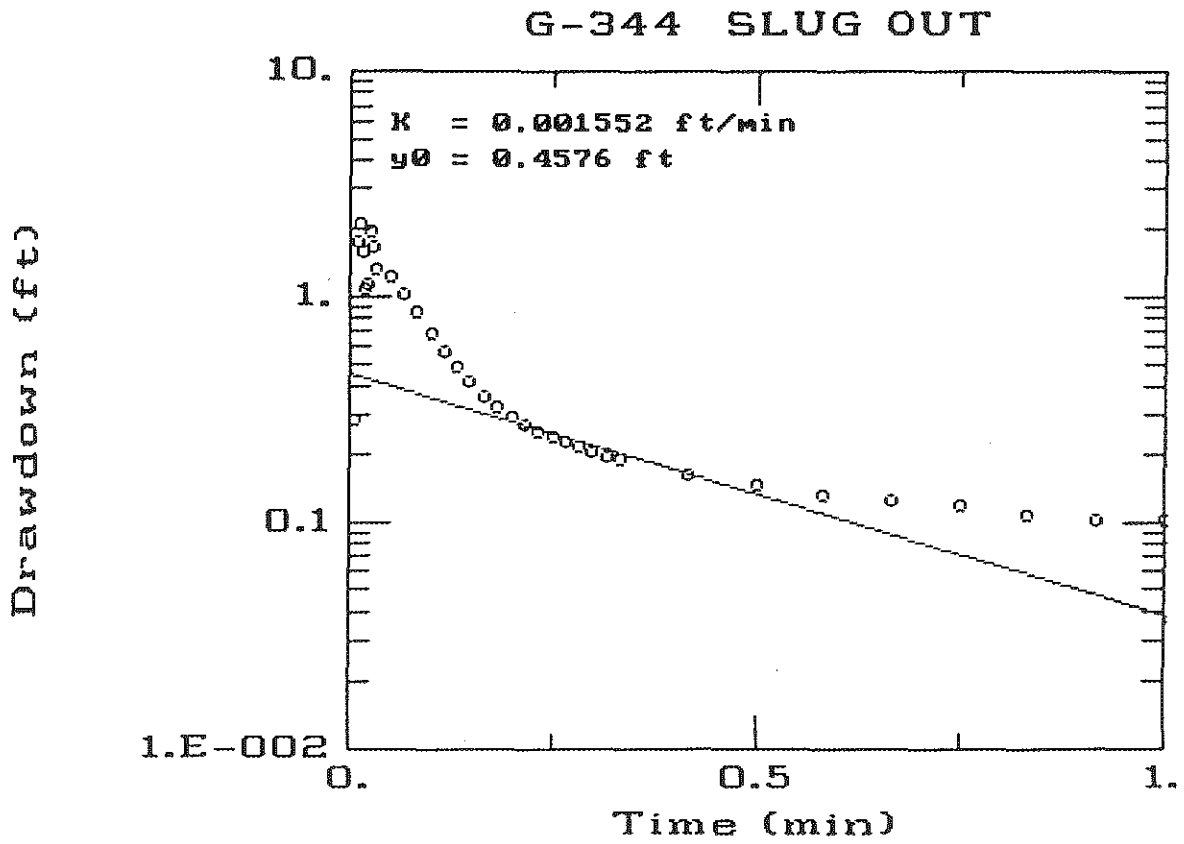
G-343 SLUG OUT
slugt1
1.847
0.083
0.375
slugt2
13.52
13.52
12.52
tsdata

0.0000	0.006	1
0.0033	0.006	1
0.0066	0.006	1
0.0100	0.898	1
0.0133	1.790	1
0.0166	0.923	1
0.0200	0.075	1
0.0233	1.094	1
0.0266	1.252	1
0.0300	1.473	1
0.0333	1.847	1
0.0500	1.518	1
0.0666	1.385	1
0.0833	1.309	1
0.1000	1.233	1
0.1166	1.163	1
0.1333	1.100	1
0.1500	1.043	1
0.1666	0.993	1
0.1833	0.948	1
0.2000	0.904	1
0.2166	0.860	1
0.2333	0.822	1
0.2500	0.784	1
0.2666	0.752	1
0.2833	0.721	1
0.3000	0.689	1
0.3166	0.664	1
0.3333	0.632	1
0.4166	0.518	1
0.5000	0.436	1
0.5833	0.366	1
0.6666	0.316	1
0.7500	0.272	1
0.8333	0.240	1
0.9166	0.208	1
1.0000	0.189	1
1.0833	0.170	1
1.1666	0.151	1
1.2500	0.139	1
1.3333	0.126	1
1.4166	0.120	1
1.5000	0.107	1
1.5833	0.101	1
1.6666	0.094	1
1.7500	0.088	1
1.8333	0.082	1
1.9166	0.075	1
2.0000	0.075	1
2.5000	0.057	1
3.0000	0.050	1
3.5000	0.044	1
4.0000	0.037	1
4.5000	0.037	1
5.0000	0.037	1
5.5000	0.025	1
6.0000	0.031	1
6.5000	0.031	1
7.0000	0.031	1
7.5000	0.031	1
8.0000	0.025	1
8.5000	0.031	1
9.0000	0.025	1
9.5000	0.025	1
10.0000	0.025	1
11.0000	0.018	1
12.0000	0.018	1


G-344 SLUG IN
K = 0.002786 ft/min
y0 = 0.6915 ft
10.
1.
0.1
1.E-002
0.
0.5
1.
Drawdown (ft)
Time (min)

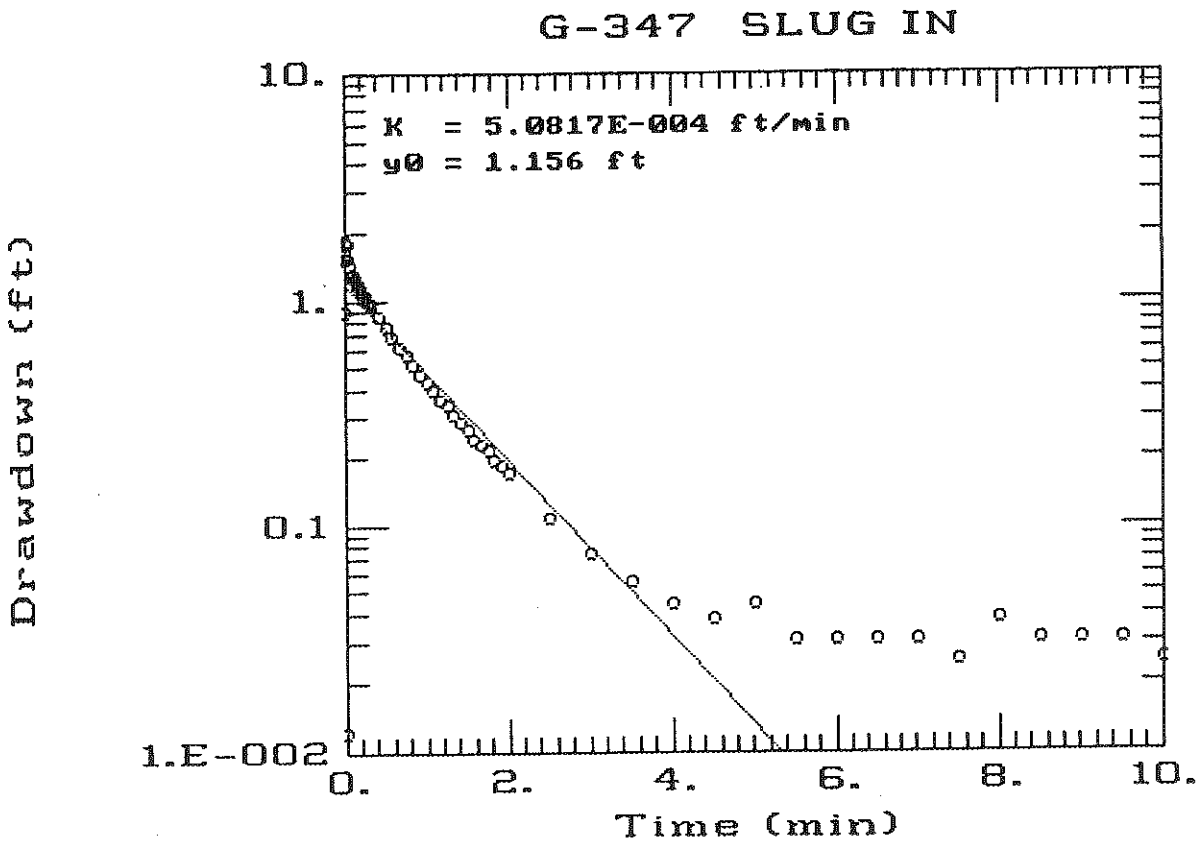
G-344 SLUG IN
slugt1
2.454
0.083
0.375
slugt2
12.8
12.8
10.3
tsdata

0.0000	0.000	1
0.0033	0.000	1
0.0066	0.000	1
0.0100	0.000	1
0.0133	0.000	1
0.0166	0.891	1
0.0200	2.157	1
0.0233	2.454	1
0.0266	2.384	1
0.0300	1.758	1
0.0333	1.670	1
0.0500	1.828	1
0.0666	0.891	1
0.0833	0.657	1
0.1000	0.563	1
0.1166	0.480	1
0.1333	0.417	1
0.1500	0.366	1
0.1666	0.322	1
0.1833	0.291	1
0.2000	0.272	1
0.2166	0.253	1
0.2333	0.234	1
0.2500	0.221	1
0.2666	0.202	1
0.2833	0.189	1
0.3000	0.177	1
0.3166	0.170	1
0.3333	0.158	1
0.4166	0.126	1
0.5000	0.107	1
0.5833	0.094	1
0.6666	0.088	1
0.7500	0.082	1
0.8333	0.075	1
0.9166	0.075	1
1.0000	0.069	1
1.0833	0.063	1
1.1666	0.063	1
1.2500	0.056	1
1.3333	0.056	1
1.4166	0.056	1
1.5000	0.050	1
1.5833	0.050	1
1.6666	0.050	1
1.7500	0.050	1
1.8333	0.044	1
1.9166	0.044	1
2.0000	0.044	1
2.5000	0.037	1
3.0000	0.031	1
3.5000	0.025	1
4.0000	0.025	1
4.5000	0.025	1
5.0000	0.019	1
5.5000	0.019	1
6.0000	0.019	1
6.5000	0.019	1
7.0000	0.019	1
7.5000	0.019	1
8.0000	0.019	1
8.5000	0.012	1
9.0000	0.012	1
9.5000	0.012	1
10.0000	0.012	1


G-344 SLUG OUT
K = 0.001552 ft/min
y0 = 0.4576 ft
10.
1.
0.1
1.E-002
0.
0.5
1.
Drawdown (ft)
Time (min)

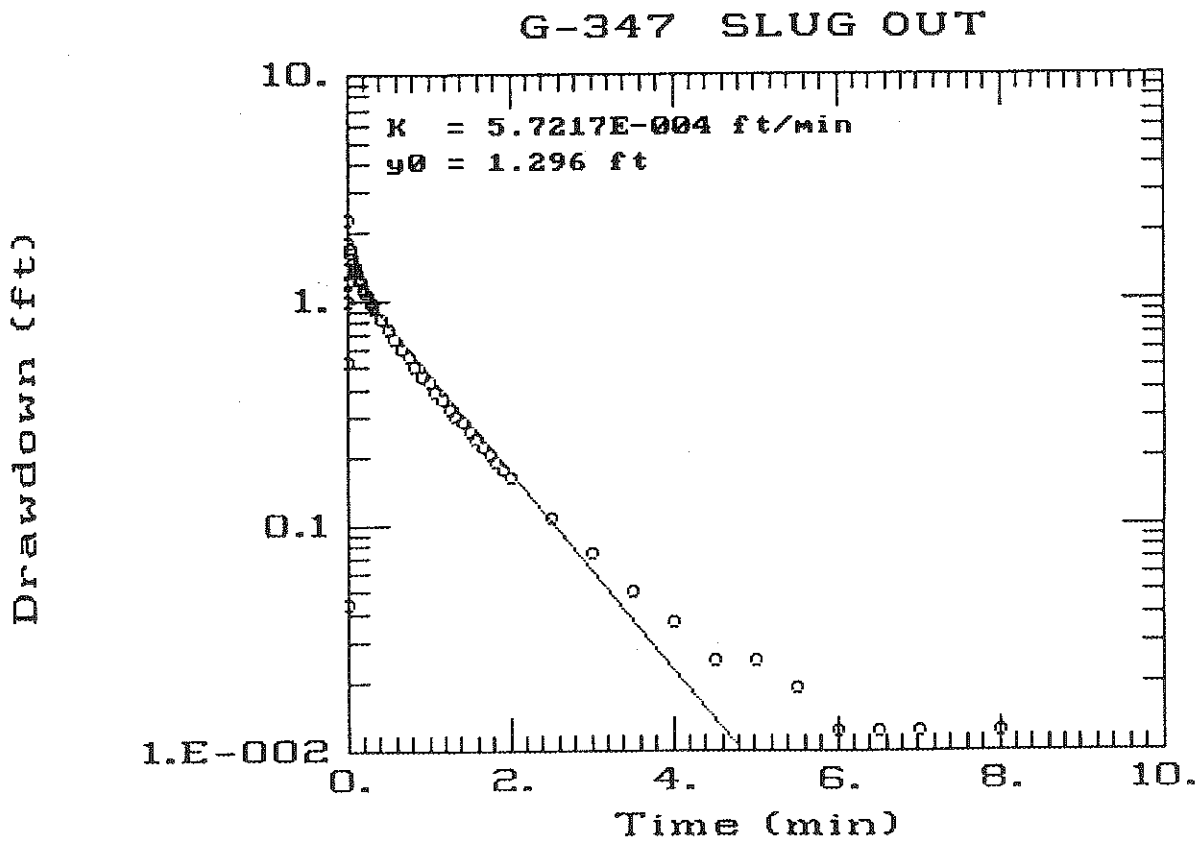
G-344 SLUG OUT
slugt1
1.922
0.083
0.375
slugt2
12.80
12.80
10.3
tsdata

0.0000	0.006	1
0.0033	0.006	1
0.0066	0.284	1
0.0100	1.752	1
0.0133	2.093	1
0.0166	1.600	1
0.0200	1.081	1
0.0233	1.144	1
0.0266	1.922	1
0.0300	1.676	1
0.0333	1.309	1
0.0500	1.220	1
0.0666	1.018	1
0.0833	0.841	1
0.1000	0.695	1
0.1166	0.575	1
0.1333	0.487	1
0.1500	0.417	1
0.1666	0.366	1
0.1833	0.328	1
0.2000	0.297	1
0.2166	0.271	1
0.2333	0.252	1
0.2500	0.240	1
0.2666	0.227	1
0.2833	0.215	1
0.3000	0.202	1
0.3166	0.196	1
0.3333	0.189	1
0.4166	0.164	1
0.5000	0.145	1
0.5833	0.132	1
0.6666	0.126	1
0.7500	0.120	1
0.8333	0.107	1
0.9166	0.101	1
1.0000	0.101	1
1.0833	0.094	1
1.1666	0.088	1
1.2500	0.088	1
1.3333	0.082	1
1.4166	0.082	1
1.5000	0.082	1
1.5833	0.075	1
1.6666	0.075	1
1.7500	0.075	1
1.8333	0.069	1
1.9166	0.069	1
2.0000	0.069	1
2.5000	0.063	1
3.0000	0.056	1
3.5000	0.056	1
4.0000	0.056	1
4.5000	0.050	1
5.0000	0.050	1
5.5000	0.044	1
6.0000	0.044	1
6.5000	0.044	1
7.0000	0.044	1
7.5000	0.044	1
8.0000	0.037	1
8.5000	0.037	1
9.0000	0.037	1
9.5000	0.037	1
10.0000	0.037	1


G-347 SLUG IN
K = 5.0817E-004 ft/min
y0 = 1.156 ft
10.
1.
0.1
1.E-002
0.
2.
4.
6.
8.
10.
Drawdown (ft)
Time (min)

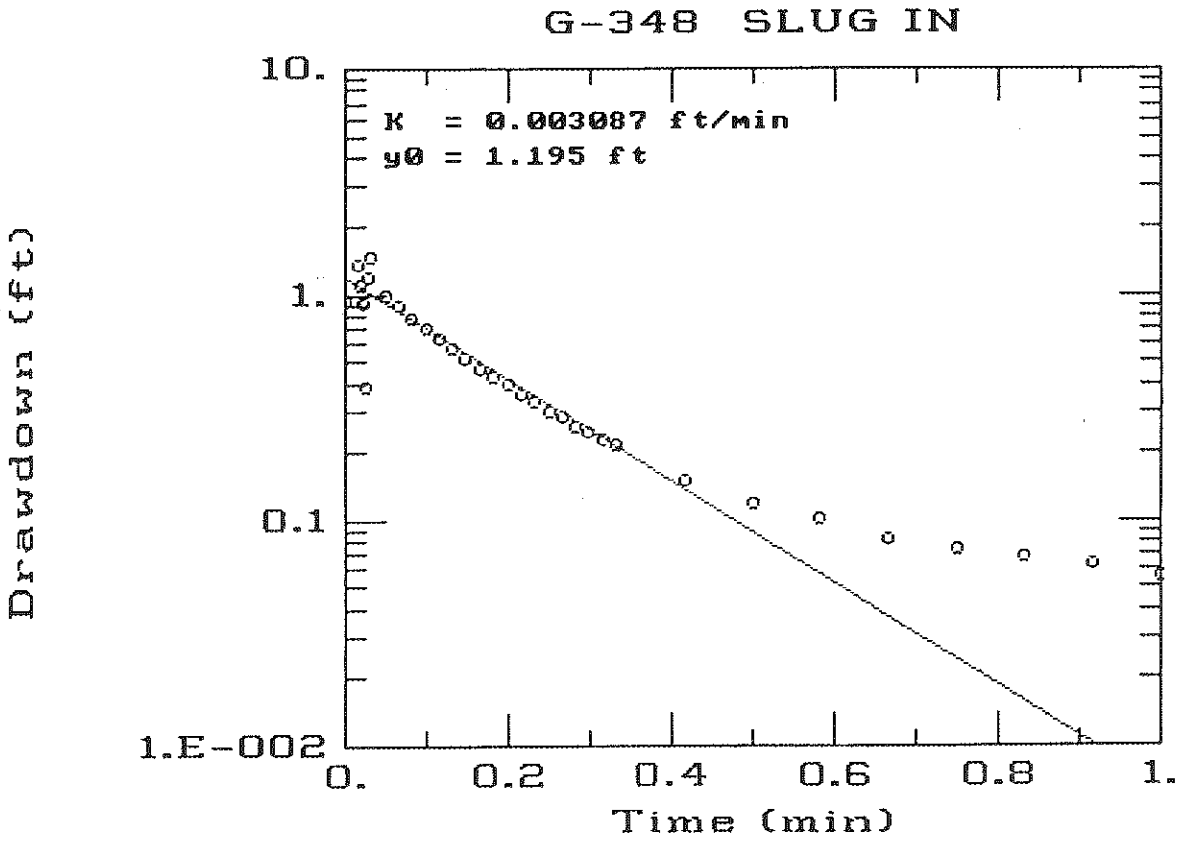
G-347 SLUG IN
slugt1
1.872
0.083
0.375
slugt2
13.18
13.18
8.18
tsdata

0.0000	0.006	1
0.0033	0.006	1
0.0066	0.012	1
0.0100	0.006	1
0.0133	0.012	1
0.0166	0.898	1
0.0200	1.543	1
0.0233	1.606	1
0.0266	1.790	1
0.0300	1.827	1
0.0333	1.796	1
0.0500	1.530	1
0.0666	1.277	1
0.0833	1.410	1
0.1000	1.302	1
0.1166	1.321	1
0.1333	1.265	1
0.1500	1.214	1
0.1666	1.182	1
0.1833	1.151	1
0.2000	1.125	1
0.2166	1.094	1
0.2333	1.068	1
0.2500	1.043	1
0.2666	1.018	1
0.2833	0.993	1
0.3000	0.974	1
0.3166	0.955	1
0.3333	0.936	1
0.4166	0.841	1
0.5000	0.765	1
0.5833	0.695	1
0.6666	0.626	1
0.7500	0.569	1
0.8333	0.518	1
0.9166	0.474	1
1.0000	0.436	1
1.0833	0.398	1
1.1666	0.366	1
1.2500	0.341	1
1.3333	0.309	1
1.4166	0.284	1
1.5000	0.265	1
1.5833	0.240	1
1.6666	0.227	1
1.7500	0.215	1
1.8333	0.196	1
1.9166	0.183	1
2.0000	0.170	1
2.5000	0.107	1
3.0000	0.075	1
3.5000	0.056	1
4.0000	0.044	1
4.5000	0.038	1
5.0000	0.044	1
5.5000	0.031	1
6.0000	0.031	1
6.5000	0.031	1
7.0000	0.031	1
7.5000	0.025	1
8.0000	0.038	1
8.5000	0.031	1
9.0000	0.031	1
9.5000	0.031	1
10.0000	0.025	1


G-347 SLUG OUT
K = 5.7217E-004 ft/min
y0 = 1.296 ft
10.
1.
0.1
1.E-002
Drawdown (ft)
0.
2.
4.
6.
8.
10.
Time (min)

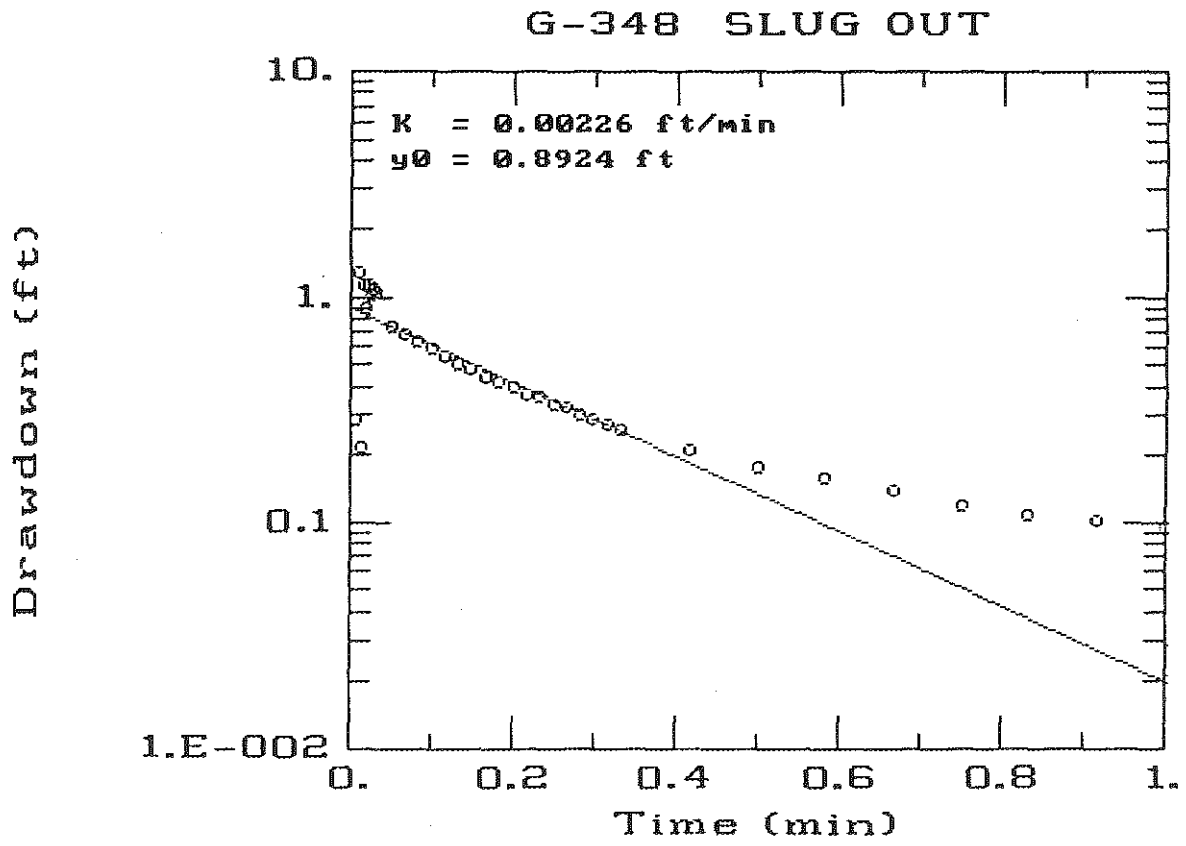
G-347 SLUG OUT
slugt1
2.270
0.083
0.375
slugt2
13.18
13.18
8.18
tsdata

0.0000	0.000	1
0.0033	0.000	1
0.0066	0.044	1
0.0100	1.227	1
0.0133	0.531	1
0.0166	0.992	1
0.0200	1.783	1
0.0233	1.189	1
0.0266	2.270	1
0.0300	1.562	1
0.0333	1.707	1
0.0500	1.631	1
0.0666	1.536	1
0.0833	1.467	1
0.1000	1.410	1
0.1166	1.359	1
0.1333	1.309	1
0.1500	1.264	1
0.1666	1.220	1
0.1833	1.182	1
0.2000	1.144	1
0.2166	1.113	1
0.2333	1.081	1
0.2500	1.049	1
0.2666	1.024	1
0.2833	0.999	1
0.3000	0.974	1
0.3166	0.948	1
0.3333	0.929	1
0.4166	0.828	1
0.5000	0.746	1
0.5833	0.676	1
0.6666	0.613	1
0.7500	0.556	1
0.8333	0.512	1
0.9166	0.461	1
1.0000	0.430	1
1.0833	0.392	1
1.1666	0.360	1
1.2500	0.328	1
1.3333	0.303	1
1.4166	0.284	1
1.5000	0.259	1
1.5833	0.240	1
1.6666	0.221	1
1.7500	0.202	1
1.8333	0.189	1
1.9166	0.177	1
2.0000	0.164	1
2.5000	0.107	1
3.0000	0.075	1
3.5000	0.050	1
4.0000	0.037	1
4.5000	0.025	1
5.0000	0.025	1
5.5000	0.019	1
6.0000	0.012	1
6.5000	0.012	1
7.0000	0.012	1
7.5000	0.006	1
8.0000	0.012	1
8.5000	0.006	1
9.0000	0.006	1
9.5000	0.006	1
10.0000	0.006	1


G-348 SLUG IN
K = 0.003087 ft/min
y0 = 1.195 ft
10.
1.
0.1
1.E-002
0.
0.2
0.4
0.6
0.8
1.
Drawdown (ft)
Time (min)

G-348 SLUG IN
slugt1
1.479
0.083
0.375
slugt2
11.89
11.89
6.89
tsdata

0.0000	0.000	1
0.0033	0.000	1
0.0066	0.000	1
0.0100	0.000	1
0.0133	0.942	1
0.0166	1.372	1
0.0200	1.100	1
0.0233	0.923	1
0.0266	0.392	1
0.0300	1.188	1
0.0333	1.479	1
0.0500	0.992	1
0.0666	0.891	1
0.0833	0.790	1
0.1000	0.714	1
0.1166	0.638	1
0.1333	0.581	1
0.1500	0.524	1
0.1666	0.474	1
0.1833	0.436	1
0.2000	0.398	1
0.2166	0.360	1
0.2333	0.335	1
0.2500	0.303	1
0.2666	0.284	1
0.2833	0.259	1
0.3000	0.246	1
0.3166	0.227	1
0.3333	0.215	1
0.4166	0.151	1
0.5000	0.120	1
0.5833	0.101	1
0.6666	0.082	1
0.7500	0.075	1
0.8333	0.069	1
0.9166	0.063	1
1.0000	0.056	1
1.0833	0.050	1
1.1666	0.050	1
1.2500	0.050	1
1.3333	0.044	1
1.4166	0.044	1
1.5000	0.044	1
1.5833	0.037	1
1.6666	0.037	1
1.7500	0.037	1
1.8333	0.037	1
1.9166	0.037	1
2.0000	0.037	1
2.5000	0.031	1
3.0000	0.025	1
3.5000	0.025	1
4.0000	0.031	1
4.5000	0.025	1
5.0000	0.025	1
5.5000	0.025	1
6.0000	0.025	1
6.5000	0.025	1
7.0000	0.025	1
7.5000	0.025	1
8.0000	0.025	1
8.5000	0.025	1
9.0000	0.031	1
9.5000	0.025	1
10.0000	0.025	1


G-348 SLUG OUT
K = 0.00226 ft/min
y0 = 0.8924 ft
10.
1.
0.1
1.E-002
0.
0.2
0.4
0.6
0.8
1.
Drawdown (ft)
Time (min)

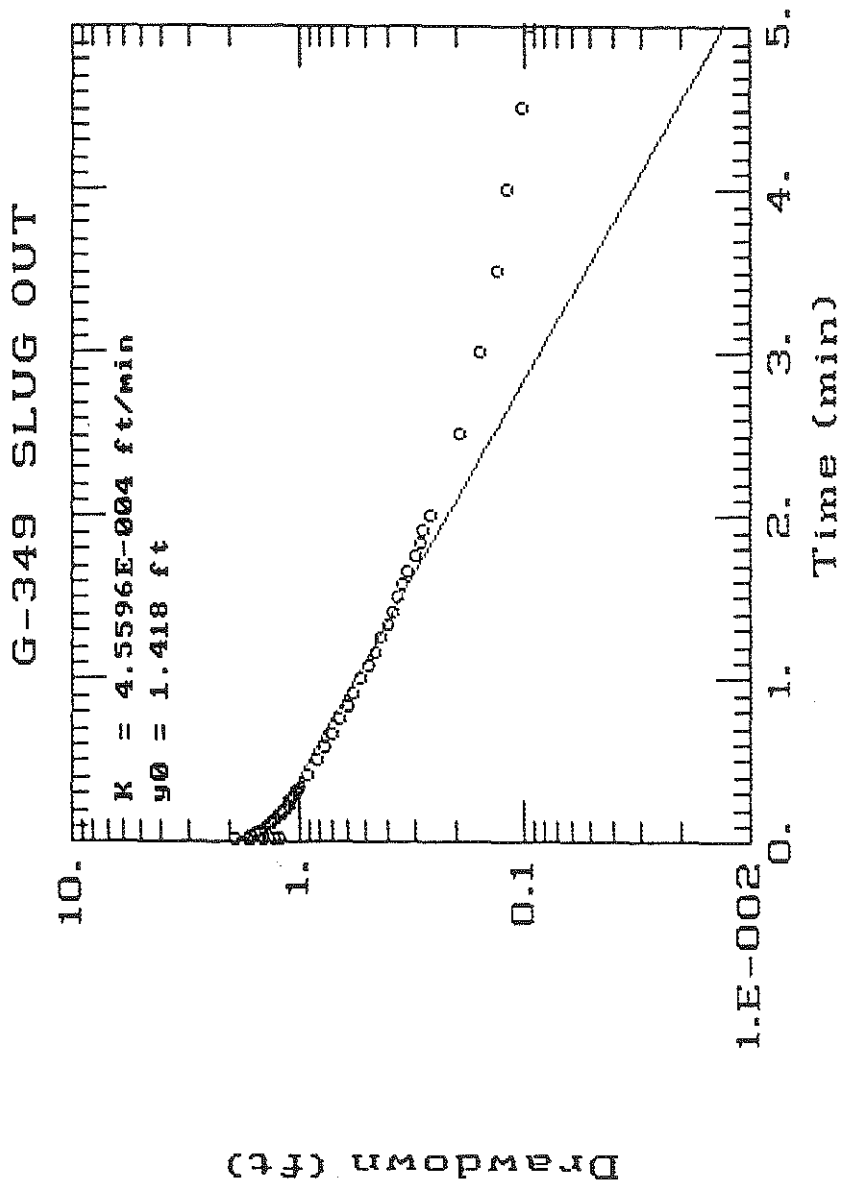
G-348 SLUG OUT
slugt1
1.144
0.083
0.375
slugt2
11.89
11.89
6.89
tsdata

0.0000	0.000	1
0.0033	0.000	1
0.0066	0.284	1
0.0100	1.302	1
0.0133	0.215	1
0.0166	1.144	1
0.0200	0.885	1
0.0233	1.144	1
0.0266	1.011	1
0.0300	1.075	1
0.0333	1.056	1
0.0500	0.746	1
0.0666	0.689	1
0.0833	0.638	1
0.1000	0.594	1
0.1166	0.550	1
0.1333	0.512	1
0.1500	0.480	1
0.1666	0.449	1
0.1833	0.423	1
0.2000	0.398	1
0.2166	0.373	1
0.2333	0.360	1
0.2500	0.335	1
0.2666	0.322	1
0.2833	0.303	1
0.3000	0.284	1
0.3166	0.271	1
0.3333	0.259	1
0.4166	0.208	1
0.5000	0.177	1
0.5833	0.158	1
0.6666	0.139	1
0.7500	0.120	1
0.8333	0.107	1
0.9166	0.101	1
1.0000	0.094	1
1.0833	0.088	1
1.1666	0.082	1
1.2500	0.082	1
1.3333	0.075	1
1.4166	0.075	1
1.5000	0.069	1
1.5833	0.069	1
1.6666	0.069	1
1.7500	0.069	1
1.8333	0.063	1
1.9166	0.063	1
2.0000	0.063	1
2.5000	0.056	1
3.0000	0.056	1
3.5000	0.056	1
4.0000	0.050	1
4.5000	0.050	1
5.0000	0.050	1
5.5000	0.050	1
6.0000	0.050	1
6.5000	0.050	1
7.0000	0.044	1
7.5000	0.044	1
8.0000	0.044	1
8.5000	0.044	1
9.0000	0.044	1
9.5000	0.044	1
10.0000	0.044	1

G-349 SLUG IN
K = 3.9318E-004 ft/min
y0 = 1.208 ft
10.
1.
0.1
1.E-002
0.
1.
2.
3.
4.
5.
Time (min)
Drawdown (ft)

G-349 SLUG IN
slugt1
1.581
0.083
0.375
slugt2
15.33
15.33
7.83
tsdata

0.0000	0.000	1
0.0033	0.000	1
0.0066	0.000	1
0.0100	0.000	1
0.0133	0.025	1
0.0166	0.000	1
0.0200	0.000	1
0.0233	0.758	1
0.0266	1.258	1
0.0300	1.663	1
0.0333	1.840	1
0.0500	0.373	1
0.0666	1.581	1
0.0833	1.353	1
0.1000	1.296	1
0.1166	1.258	1
0.1333	1.214	1
0.1500	1.176	1
0.1666	1.138	1
0.1833	1.106	1
0.2000	1.081	1
0.2166	1.049	1
0.2333	1.030	1
0.2500	1.005	1
0.2666	0.986	1
0.2833	0.967	1
0.3000	0.948	1
0.3166	0.929	1
0.3333	0.910	1
0.4166	0.834	1
0.5000	0.758	1
0.5833	0.702	1
0.6666	0.651	1
0.7500	0.600	1
0.8333	0.562	1
0.9166	0.524	1
1.0000	0.487	1
1.0833	0.461	1
1.1666	0.430	1
1.2500	0.404	1
1.3333	0.385	1
1.4166	0.366	1
1.5000	0.341	1
1.5833	0.322	1
1.6666	0.309	1
1.7500	0.297	1
1.8333	0.278	1
1.9166	0.265	1
2.0000	0.252	1
2.5000	0.202	1
3.0000	0.164	1
3.5000	0.145	1
4.0000	0.126	1
4.5000	0.120	1
5.0000	0.107	1
5.5000	0.107	1
6.0000	0.101	1
6.5000	0.101	1
7.0000	0.094	1
7.5000	0.094	1
8.0000	0.088	1
8.5000	0.088	1
9.0000	0.088	1
9.5000	0.088	1
10.0000	0.088	1
11.0000	0.088	1

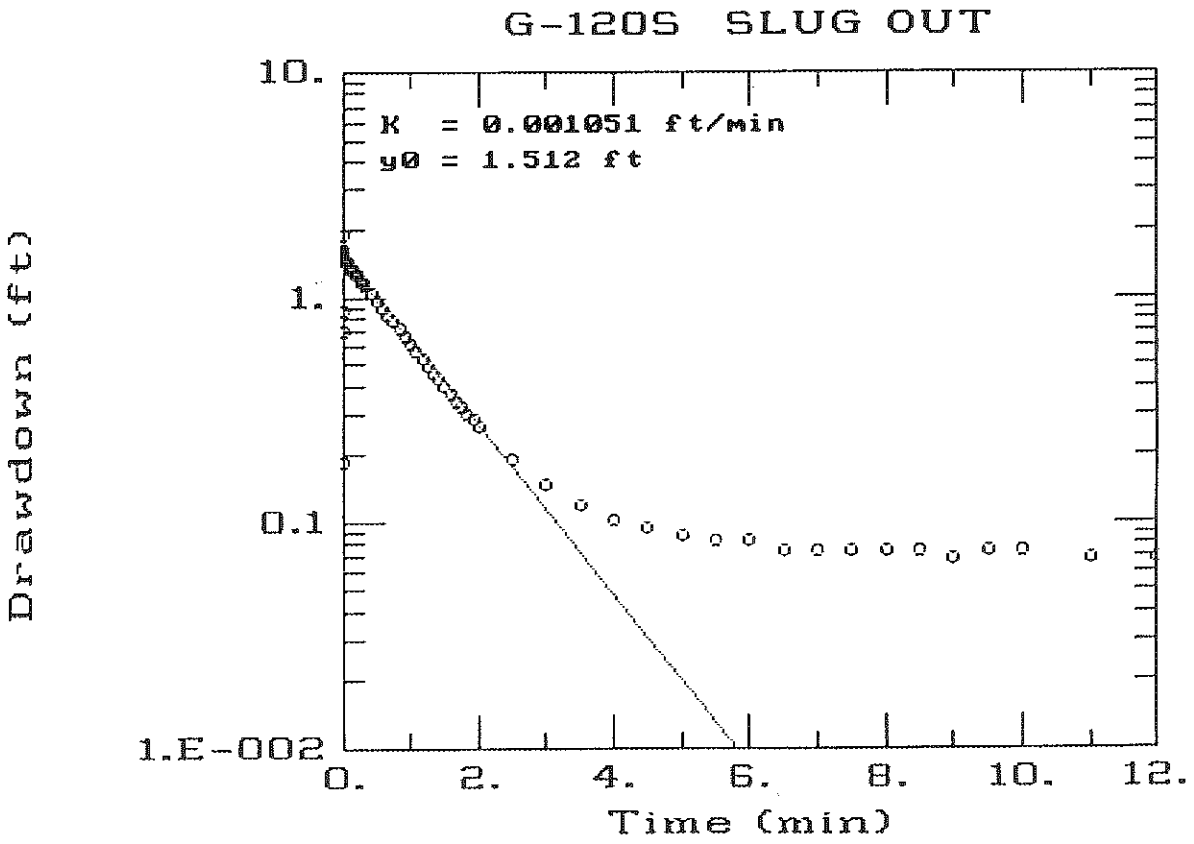

G-349 SLUG OUT
K = 4.5596E-004 ft/min
y0 = 1.418 ft
10.
1.
0.1
1.E-002
0.
1.
2.
3.
4.
5.
Time (min)
Drawdown (ft)

G-349 SLUG OUT
slugt1
1.916
0.083
0.375
slugt2
15.33
15.33
7.83
tsdata

0.0000	0.000	1
0.0033	0.000	1
0.0066	0.006	1
0.0100	1.498	1
0.0133	1.770	1
0.0166	1.441	1
0.0200	1.207	1
0.0233	1.271	1
0.0266	1.916	1
0.0300	1.650	1
0.0333	1.644	1
0.0500	1.562	1
0.0666	1.448	1
0.0833	1.391	1
0.1000	1.347	1
0.1166	1.309	1
0.1333	1.271	1
0.1500	1.245	1
0.1666	1.214	1
0.1833	1.189	1
0.2000	1.163	1
0.2166	1.138	1
0.2333	1.113	1
0.2500	1.094	1
0.2666	1.068	1
0.2833	1.049	1
0.3000	1.030	1
0.3166	1.011	1
0.3333	0.992	1
0.4166	0.910	1
0.5000	0.834	1
0.5833	0.765	1
0.6666	0.708	1
0.7500	0.657	1
0.8333	0.613	1
0.9166	0.569	1
1.0000	0.531	1
1.0833	0.493	1
1.1666	0.461	1
1.2500	0.430	1
1.3333	0.404	1
1.4166	0.379	1
1.5000	0.360	1
1.5833	0.341	1
1.6666	0.322	1
1.7500	0.303	1
1.8333	0.290	1
1.9166	0.278	1
2.0000	0.259	1
2.5000	0.196	1
3.0000	0.158	1
3.5000	0.132	1
4.0000	0.120	1
4.5000	0.101	1
5.0000	0.094	1
5.5000	0.088	1
6.0000	0.088	1
6.5000	0.082	1
7.0000	0.075	1
7.5000	0.075	1
8.0000	0.069	1
8.5000	0.075	1
9.0000	0.075	1
9.5000	0.069	1
10.0000	0.069	1

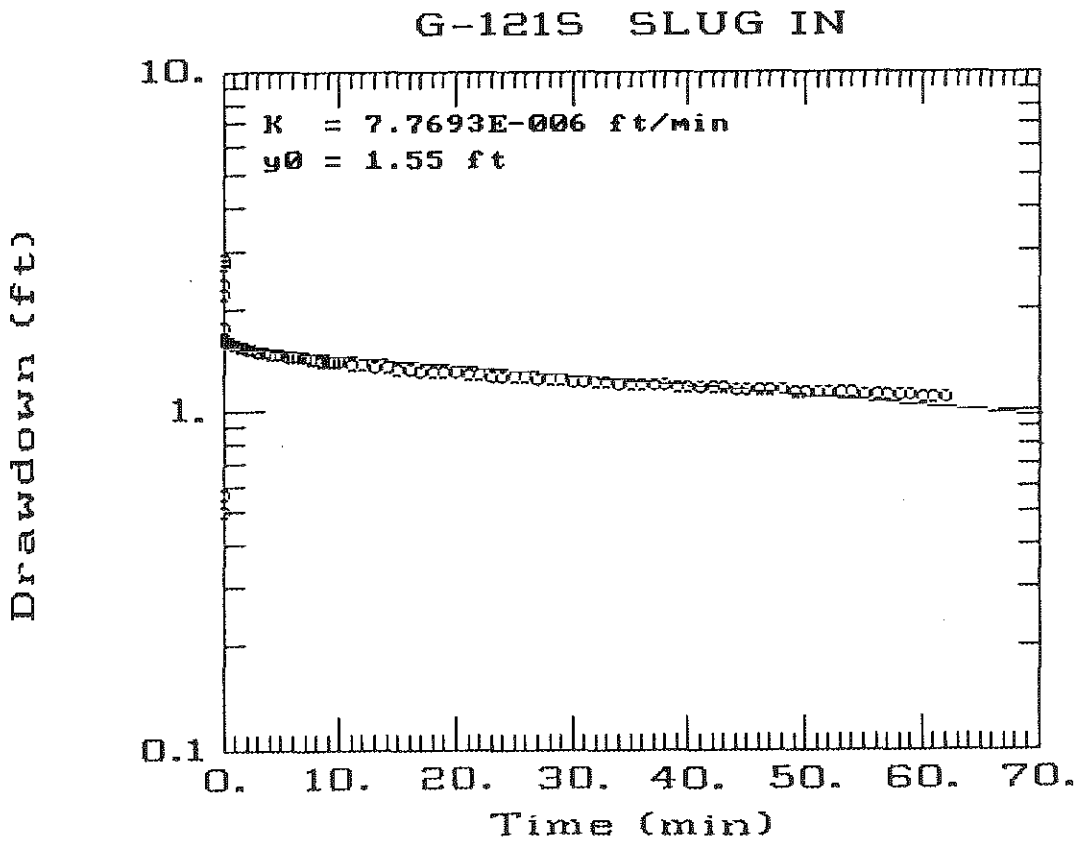
G-120S SLUG IN
K = 0.0011 ft/min
y0 = 1.414 ft
10.
1.
0.1
1.E-002
Drawdown (ft)
0.
2.
4.
6.
8.
10.
12.
Time (min)

```
G-120S  SLUG IN
slugt1
2.435
0.099
0.292
slugt2
10.3
10.3
9.89
tsdata
  0.0000  0.000  1
  0.0033  0.000  1
  0.0066  0.006  1
  0.0100  0.006  1
  0.0133  0.284  1
  0.0166  0.929  1
  0.0200  0.702  1
  0.0233  0.853  1
  0.0266  1.511  1
  0.0300  1.992  1
  0.0333  0.904  1
  0.0500  2.435  1
  0.0666  1.606  1
  0.0833  1.227  1
  0.1000  1.233  1
  0.1166  1.328  1
  0.1333  1.353  1
  0.1500  1.328  1
  0.1666  1.277  1
  0.1833  1.258  1
  0.2000  1.239  1
  0.2166  1.214  1
  0.2333  1.195  1
  0.2500  1.176  1
  0.2666  1.157  1
  0.2833  1.138  1
  0.3000  1.119  1
  0.3166  1.100  1
  0.3333  1.088  1
  0.4166  0.999  1
  0.5000  0.917  1
  0.5833  0.847  1
  0.6666  0.784  1
  0.7500  0.721  1
  0.8333  0.664  1
  0.9166  0.613  1
  1.0000  0.562  1
  1.0833  0.518  1
  1.1666  0.474  1
  1.2500  0.436  1
  1.3333  0.404  1
  1.4166  0.373  1
  1.5000  0.347  1
  1.5833  0.322  1
  1.6666  0.297  1
  1.7500  0.278  1
  1.8333  0.259  1
  1.9166  0.240  1
  2.0000  0.227  1
  2.5000  0.158  1
  3.0000  0.120  1
  3.5000  0.101  1
  4.0000  0.088  1
  4.5000  0.082  1
  5.0000  0.082  1
  5.5000  0.075  1
  6.0000  0.075  1
  6.5000  0.075  1
  7.0000  0.075  1
  7.5000  0.069  1
  8.0000  0.069  1
  8.5000  0.069  1
  9.0000  0.069  1
  9.5000  0.063  1
 10.0000  0.063  1
 11.0000  0.063  1
 12.0000  0.063  1
```


G-120S SLUG OUT
K = 0.001051 ft/min
y0 = 1.512 ft
10.
1.
0.1
1.E-002
Drawdown (ft)
0.
2.
4.
6.
8.
10.
12.
Time (min)

G-120S SLUG OUT
ıgt1
1.612
0.099
0.292
slugt2
10.3
10.3
9.89
tsdata

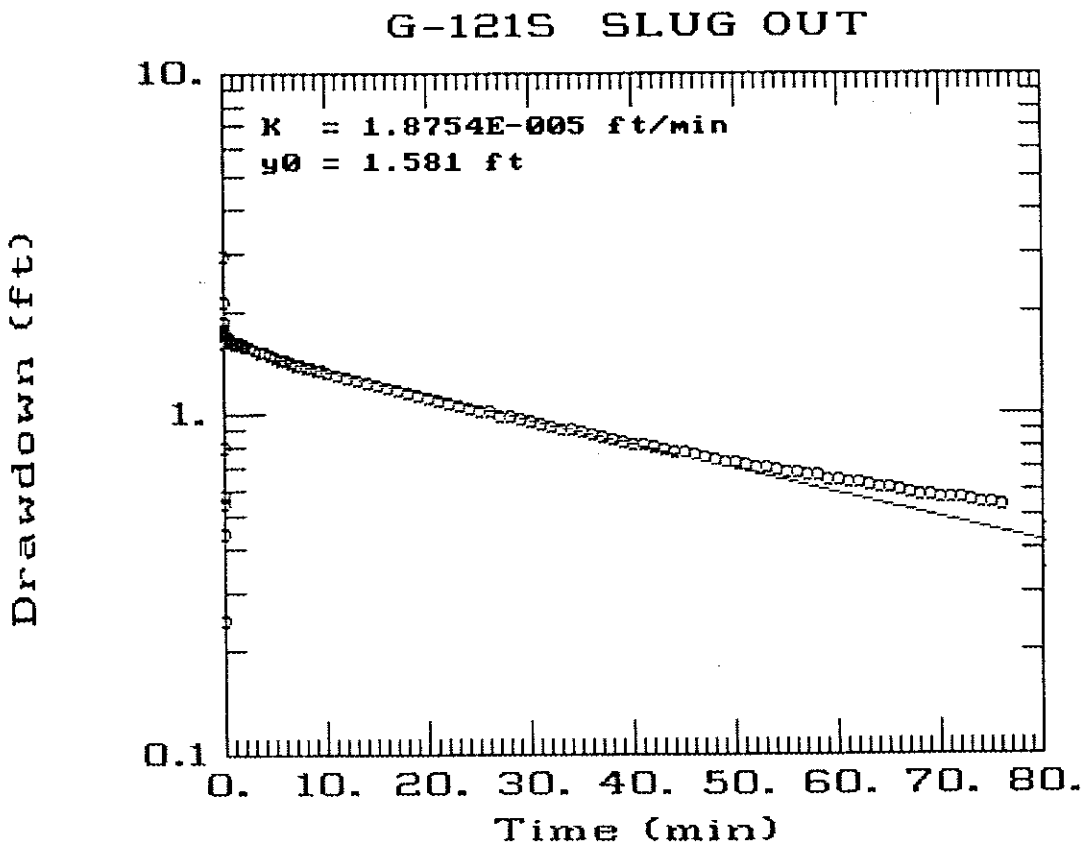
0.0000	0.031	1
0.0033	0.879	1
0.0066	1.878	1
0.0100	0.183	1
0.0133	0.702	1
0.0166	1.587	1
0.0200	1.612	1
0.0233	1.581	1
0.0266	1.524	1
0.0300	1.543	1
0.0333	1.518	1
0.0500	1.480	1
0.0666	1.442	1
0.0833	1.410	1
0.1000	1.391	1
0.1166	1.366	1
0.1333	1.347	1
0.1500	1.328	1
0.1666	1.309	1
0.1833	1.290	1
0.2000	1.271	1
0.2166	1.252	1
0.2333	1.233	1
0.2500	1.220	1
0.2666	1.201	1
0.2833	1.182	1
0.3000	1.163	1
0.3166	1.151	1
0.3333	1.132	1
0.4166	1.050	1
0.5000	0.974	1
0.5833	0.904	1
0.6666	0.834	1
0.7500	0.778	1
0.8333	0.721	1
0.9166	0.670	1
1.0000	0.619	1
1.0833	0.575	1
1.1666	0.531	1
1.2500	0.493	1
1.3333	0.461	1
1.4166	0.430	1
1.5000	0.398	1
1.5833	0.373	1
1.6666	0.347	1
1.7500	0.322	1
1.8333	0.303	1
1.9166	0.284	1
2.0000	0.265	1
2.5000	0.189	1
3.0000	0.145	1
3.5000	0.120	1
4.0000	0.101	1
4.5000	0.094	1
5.0000	0.088	1
5.5000	0.082	1
6.0000	0.082	1
6.5000	0.075	1
7.0000	0.075	1
7.5000	0.075	1
8.0000	0.075	1
8.5000	0.075	1
9.0000	0.069	1
9.5000	0.075	1
10.0000	0.075	1
11.0000	0.069	1
12.0000	0.069	1


G-121S SLUG IN
K = 7.7693E-006 ft/min
y0 = 1.55 ft
10.
1.
0.1
Drawdown (ft)
0. 10. 20. 30. 40. 50. 60. 70.
Time (min)

G-121S SLUG IN
ugt1
2.745
0.099
0.292
slugt2
11.41
11.41
10.91
tsdata

0.0000	0.000	1
0.0033	0.000	1
0.0066	0.006	1
0.0100	0.000	1
0.0133	0.006	1
0.0166	2.365	1
0.0200	2.821	1
0.0233	0.569	1
0.0266	1.771	1
0.0300	2.745	1
0.0333	2.384	1
0.0500	2.233	1
0.0666	0.506	1
0.0833	1.644	1
0.1000	1.638	1
0.1166	1.638	1
0.1333	1.632	1
0.1500	1.625	1
0.1666	1.625	1
0.1833	1.625	1
0.2000	1.619	1
0.2166	1.619	1
0.2333	1.619	1
0.2500	1.619	1
0.2666	1.613	1
0.2833	1.613	1
0.3000	1.613	1
0.3166	1.613	1
0.3333	1.606	1
0.4166	1.606	1
0.5000	1.600	1
0.5833	1.594	1
0.6666	1.587	1
0.7500	1.581	1
0.8333	1.581	1
0.9166	1.575	1
1.0000	1.575	1
1.0833	1.568	1
1.1666	1.562	1
1.2500	1.562	1
1.3333	1.556	1
1.4166	1.549	1
1.5000	1.549	1
1.5833	1.549	1
1.6666	1.543	1
1.7500	1.537	1
1.8333	1.537	1
1.9166	1.537	1
2.0000	1.530	1
2.5000	1.511	1
3.0000	1.499	1
3.5000	1.486	1
4.0000	1.473	1
4.5000	1.467	1
5.0000	1.454	1
5.5000	1.448	1
6.0000	1.442	1
6.5000	1.435	1
7.0000	1.429	1
7.5000	1.417	1
8.0000	1.410	1
8.5000	1.404	1
9.0000	1.398	1
9.5000	1.391	1
10.0000	1.385	1
11.0000	1.372	1
12.0000	1.360	1
13.0000	1.347	1
14.0000	1.341	1
15.0000	1.328	1
16.0000	1.322	1
17.0000	1.309	1
18.0000	1.303	1
19.0000	1.296	1
20.0000	1.290	1
21.0000	1.277	1
22.0000	1.271	1
23.0000	1.265	1
24.0000	1.258	1
25.0000	1.252	1
26.0000	1.246	1
27.0000	1.239	1
28.0000	1.233	1
29.0000	1.233	1
30.0000	1.220	1
31.0000	1.220	1

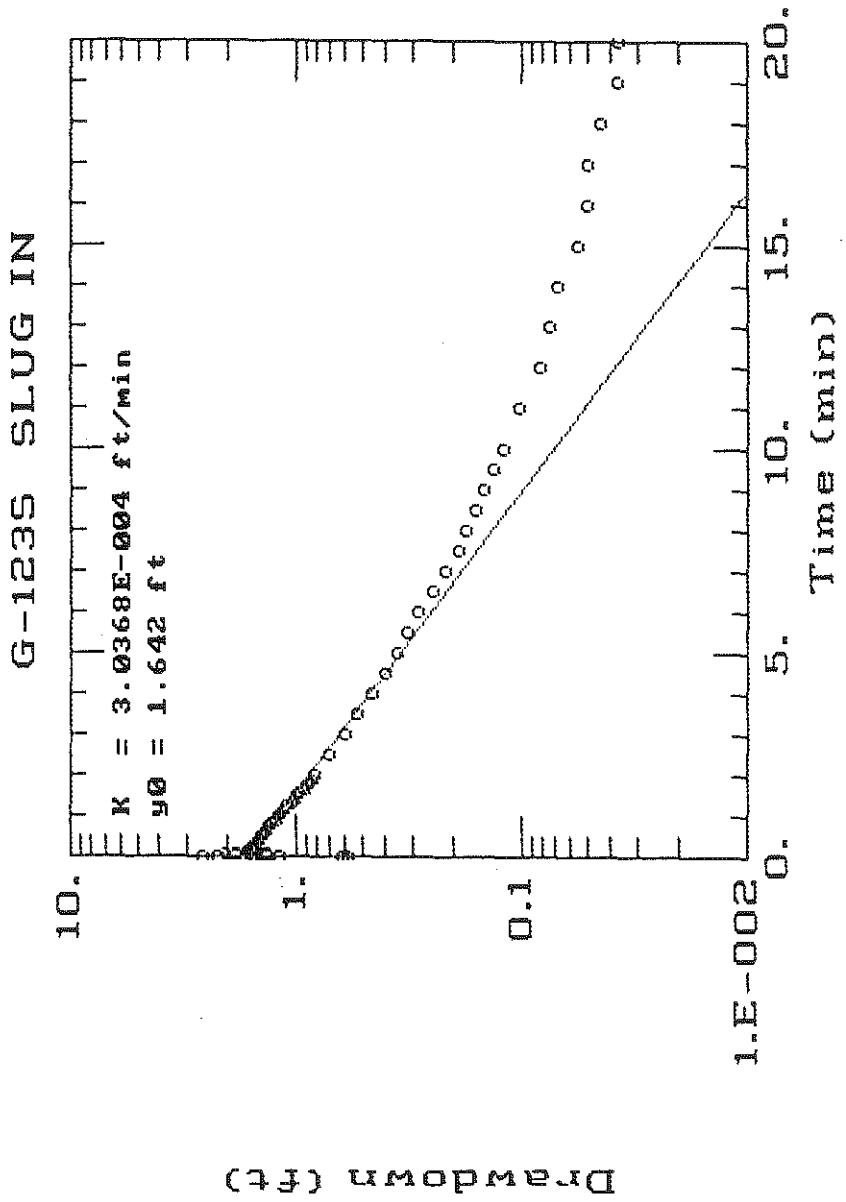
32.0000	1.214	1
33.0000	1.208	1
34.0000	1.201	1
35.0000	1.195	1
36.0000	1.195	1
37.0000	1.189	1
38.0000	1.182	1
39.0000	1.176	1
40.0000	1.176	1
41.0000	1.170	1
42.0000	1.170	1
43.0000	1.163	1
44.0000	1.157	1
45.0000	1.157	1
46.0000	1.151	1
47.0000	1.151	1
48.0000	1.144	1
49.0000	1.138	1
50.0000	1.132	1
51.0000	1.125	1
52.0000	1.132	1
53.0000	1.125	1
54.0000	1.125	1
55.0000	1.119	1
56.0000	1.113	1
57.0000	1.113	1
58.0000	1.107	1
59.0000	1.107	1
60.0000	1.100	1
61.0000	1.100	1
62.0000	1.094	1


G-121S SLUG OUT
K = 1.8754E-005 ft/min
y0 = 1.581 ft
10.
1.
0.1
Drawdown (ft)
0. 10. 20. 30. 40. 50. 60. 70. 80.
Time (min)

G-121S SLUG OUT
lugt1
2.150
0.099
0.292
slugt2
11.41
11.41
10.91
tsdata

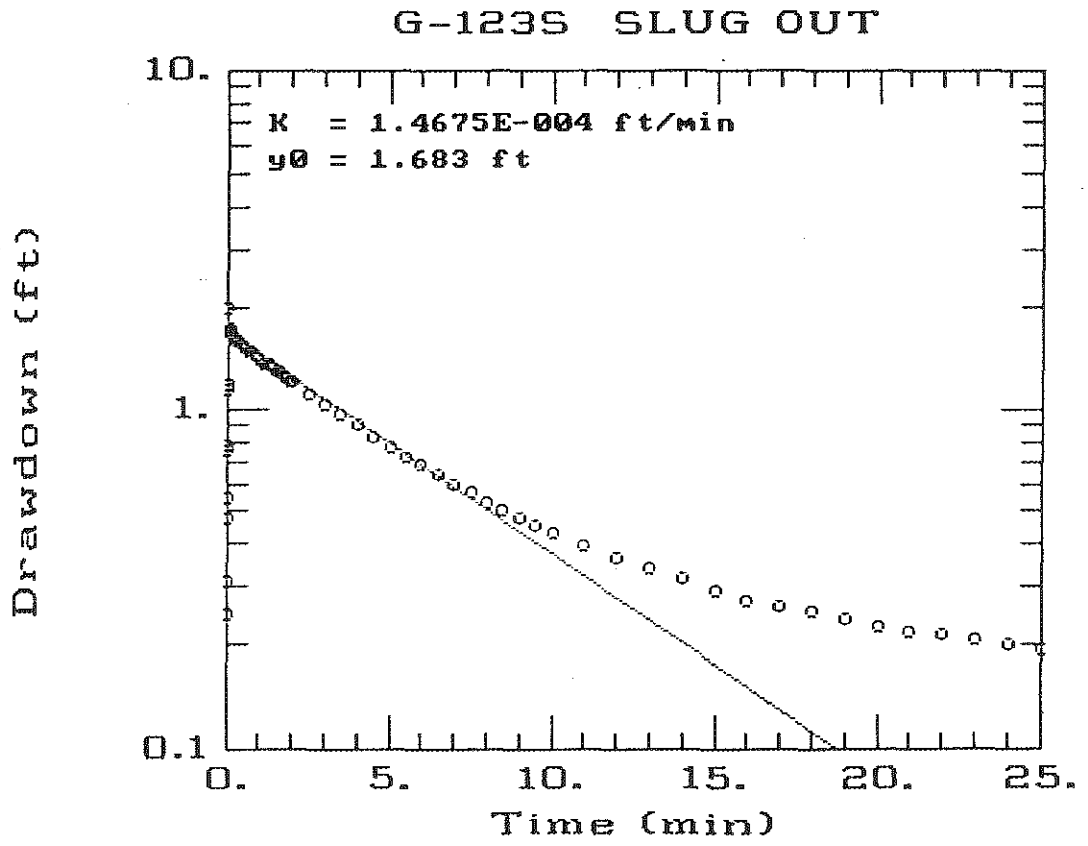
0.0000	0.000	1
0.0033	0.246	1
0.0066	1.878	1
0.0100	0.442	1
0.0133	1.632	1
0.0166	0.094	1
0.0200	0.019	1
0.0233	2.928	1
0.0266	0.803	1
0.0300	0.575	1
0.0333	0.544	1
0.0500	2.150	1
0.0666	1.777	1
0.0833	1.739	1
0.1000	1.727	1
0.1166	1.720	1
0.1333	1.727	1
0.1500	1.720	1
0.1666	1.720	1
0.1833	1.714	1
0.2000	1.714	1
0.2166	1.714	1
0.2333	1.708	1
0.2500	1.708	1
0.2666	1.701	1
0.2833	1.701	1
0.3000	1.701	1
0.3166	1.695	1
0.3333	1.695	1
0.4166	1.689	1
0.5000	1.676	1
0.5833	1.670	1
0.6666	1.663	1
0.7500	1.657	1
0.8333	1.651	1
0.9166	1.644	1
1.0000	1.638	1
1.0833	1.638	1
1.1666	1.632	1
1.2500	1.632	1
1.3333	1.625	1
1.4166	1.619	1
1.5000	1.613	1
1.5833	1.613	1
1.6666	1.606	1
1.7500	1.600	1
1.8333	1.594	1
1.9166	1.594	1
2.0000	1.594	1
2.5000	1.568	1
3.0000	1.543	1
3.5000	1.524	1
4.0000	1.505	1
4.5000	1.486	1
5.0000	1.467	1
5.5000	1.448	1
6.0000	1.436	1
6.5000	1.417	1
7.0000	1.404	1
7.5000	1.391	1
8.0000	1.372	1
8.5000	1.360	1
9.0000	1.347	1
9.5000	1.334	1
10.0000	1.322	1
11.0000	1.296	1
12.0000	1.271	1
13.0000	1.252	1
14.0000	1.227	1
15.0000	1.208	1
16.0000	1.183	1
17.0000	1.164	1
18.0000	1.145	1
19.0000	1.126	1
20.0000	1.113	1
21.0000	1.094	1
22.0000	1.075	1
23.0000	1.056	1
24.0000	1.043	1
25.0000	1.024	1
26.0000	1.012	1
27.0000	0.993	1
28.0000	0.980	1
29.0000	0.961	1
30.0000	0.949	1
31.0000	0.936	1

32.0000 0.923 1
33.0000 0.911 1
34.0000 0.898 1
35.0000 0.885 1
36.0000 0.873 1
37.0000 0.860 1
38.0000 0.847 1
39.0000 0.835 1
40.0000 0.822 1
41.0000 0.816 1
42.0000 0.803 1
43.0000 0.790 1
44.0000 0.778 1
45.0000 0.771 1
46.0000 0.759 1
47.0000 0.752 1
48.0000 0.740 1
49.0000 0.727 1
50.0000 0.721 1
51.0000 0.708 1
52.0000 0.702 1
53.0000 0.695 1
54.0000 0.689 1
55.0000 0.676 1
56.0000 0.670 1
57.0000 0.664 1
58.0000 0.657 1
59.0000 0.645 1
60.0000 0.639 1
61.0000 0.632 1
62.0000 0.626 1
63.0000 0.620 1
64.0000 0.613 1
65.0000 0.607 1
66.0000 0.594 1
67.0000 0.588 1
68.0000 0.582 1
69.0000 0.575 1
70.0000 0.569 1
71.0000 0.569 1
72.0000 0.563 1
73.0000 0.556 1
74.0000 0.544 1
75.0000 0.544 1
76.0000 0.537 1


G-1235 SLUG IN
K = 3.0368E-004 ft/min
y0 = 1.642 ft
10.
1.
0.1
1.E-002
0.
5.
10.
15.
20.
Time (min)
Drawdown (ft)

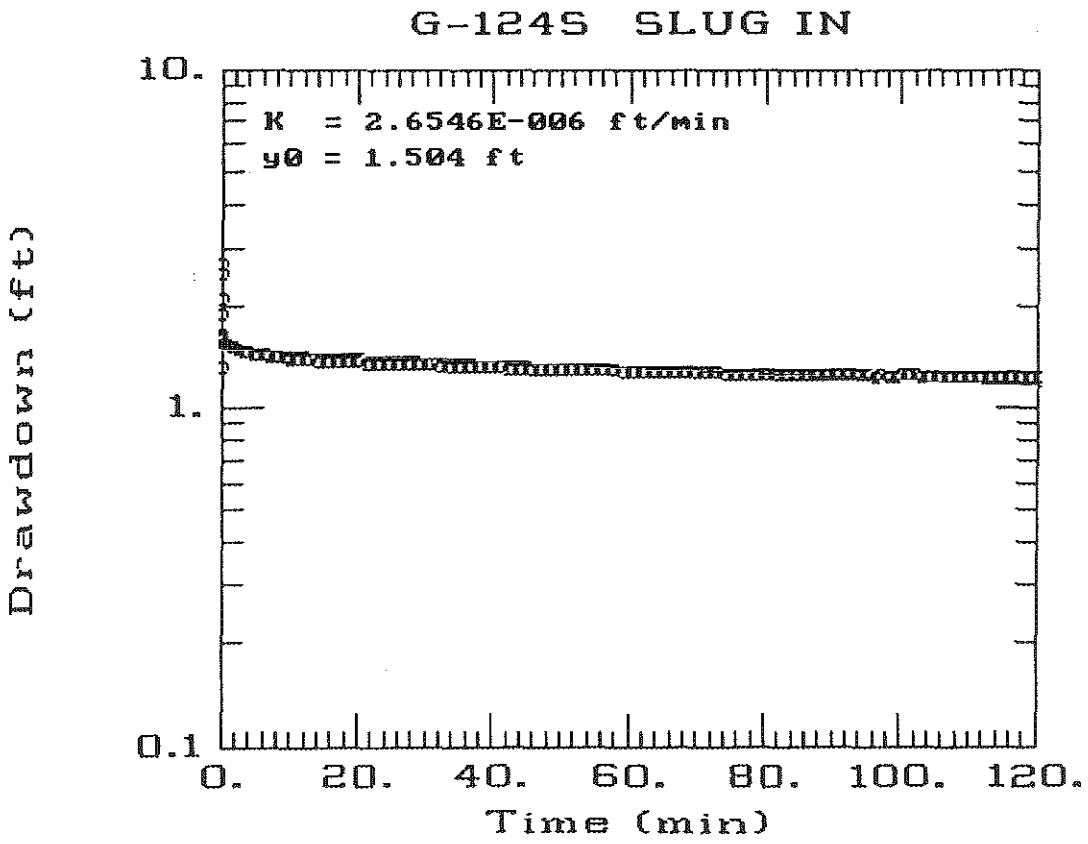
G-123S SLUG IN
'ugt1
2.613
0.099
0.292
slugt2
14.60
14.60
14.27
tsdata

0.0000	0.588	1
0.0033	0.588	1
0.0066	0.620	1
0.0100	1.189	1
0.0133	1.341	1
0.0166	2.227	1
0.0200	2.227	1
0.0233	1.524	1
0.0266	1.537	1
0.0300	1.866	1
0.0333	1.569	1
0.0500	2.613	1
0.0666	2.043	1
0.0833	1.360	1
0.1000	1.632	1
0.1166	1.872	1
0.1333	1.638	1
0.1500	1.607	1
0.1666	1.594	1
0.1833	1.581	1
0.2000	1.569	1
0.2166	1.562	1
0.2333	1.550	1
0.2500	1.537	1
0.2666	1.531	1
0.2833	1.524	1
0.3000	1.512	1
0.3166	1.505	1
0.3333	1.499	1
0.4166	1.455	1
0.5000	1.417	1
0.5833	1.379	1
0.6666	1.347	1
0.7500	1.309	1
0.8333	1.271	1
0.9166	1.233	1
1.0000	1.195	1
1.0833	1.164	1
1.1666	1.126	1
1.2500	1.088	1
1.3333	1.056	1
1.4166	1.024	1
1.5000	0.993	1
1.5833	0.961	1
1.6666	0.930	1
1.7500	0.904	1
1.8333	0.879	1
1.9166	0.847	1
2.0000	0.828	1
2.5000	0.708	1
3.0000	0.613	1
3.5000	0.531	1
4.0000	0.461	1
4.5000	0.404	1
5.0000	0.354	1
5.5000	0.316	1
6.0000	0.284	1
6.5000	0.246	1
7.0000	0.215	1
7.5000	0.189	1
8.0000	0.177	1
8.5000	0.158	1
9.0000	0.145	1
9.5000	0.132	1
10.0000	0.120	1
11.0000	0.101	1
12.0000	0.082	1
13.0000	0.075	1
14.0000	0.069	1
15.0000	0.056	1
16.0000	0.050	1
17.0000	0.050	1
18.0000	0.044	1
19.0000	0.037	1
20.0000	0.037	1


G-123S SLUG OUT
K = 1.4675E-004 ft/min
y0 = 1.683 ft
10.
1.
0.1
0.
5.
10.
15.
20.
25.
Drawdown (ft)
Time (min)

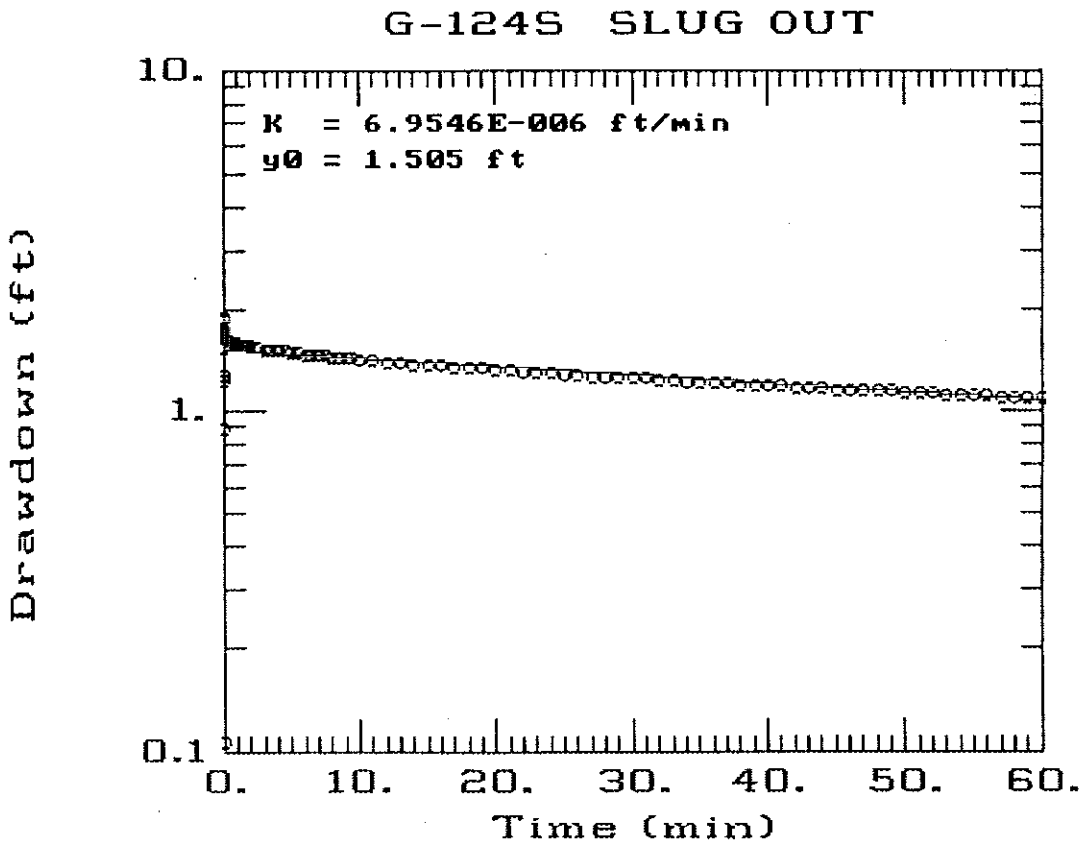
G-123S SLUG OUT
igt1
1.992
0.099
0.292
slugt2
14.60
14.60
14.27
tsdata

0.0000	0.006	1
0.0033	0.006	1
0.0066	0.057	1
0.0100	0.544	1
0.0133	1.992	1
0.0166	0.759	1
0.0200	0.246	1
0.0233	0.765	1
0.0266	0.790	1
0.0300	1.195	1
0.0333	0.310	1
0.0500	0.480	1
0.0666	1.151	1
0.0833	1.739	1
0.1000	1.708	1
0.1166	1.689	1
0.1333	1.682	1
0.1500	1.676	1
0.1666	1.663	1
0.1833	1.657	1
0.2000	1.651	1
0.2166	1.644	1
0.2333	1.638	1
0.2500	1.625	1
0.2666	1.625	1
0.2833	1.619	1
0.3000	1.607	1
0.3166	1.607	1
0.3333	1.594	1
0.4166	1.569	1
0.5000	1.543	1
0.5833	1.524	1
0.6666	1.499	1
0.7500	1.480	1
0.8333	1.455	1
0.9166	1.436	1
1.0000	1.410	1
1.0833	1.398	1
1.1666	1.379	1
1.2500	1.360	1
1.3333	1.341	1
1.4166	1.322	1
1.5000	1.303	1
1.5833	1.290	1
1.6666	1.271	1
1.7500	1.259	1
1.8333	1.240	1
1.9166	1.221	1
2.0000	1.208	1
2.5000	1.119	1
3.0000	1.037	1
3.5000	0.961	1
4.0000	0.898	1
4.5000	0.835	1
5.0000	0.778	1
5.5000	0.727	1
6.0000	0.683	1
6.5000	0.639	1
7.0000	0.601	1
7.5000	0.563	1
8.0000	0.531	1
8.5000	0.506	1
9.0000	0.480	1
9.5000	0.455	1
10.0000	0.430	1
11.0000	0.392	1
12.0000	0.360	1
13.0000	0.335	1
14.0000	0.316	1
15.0000	0.291	1
16.0000	0.272	1
17.0000	0.259	1
18.0000	0.253	1
19.0000	0.240	1
20.0000	0.227	1
21.0000	0.221	1
22.0000	0.215	1
23.0000	0.208	1
24.0000	0.202	1
25.0000	0.196	1


G-124S SLUG IN
K = 2.6546E-006 ft/min
y0 = 1.504 ft
10.
1.
0.1
Drawdown (ft)
0.
20.
40.
60.
80.
100.
120.
Time (min)

```
G-124S  SLUG IN
  igt1
2.492
0.099
0.292
slugt2
10.43
10.43
10.02
tsdata
   0.0000  0.000  1
   0.0033  0.000  1
   0.0066  0.006  1
   0.0100  0.000  1
   0.0133  1.322  1
   0.0166  1.910  1
   0.0200  2.119  1
   0.0233  2.707  1
   0.0266  1.657  1
   0.0300  0.018  1
   0.0333  2.492  1
   0.0500  1.885  1
   0.0666  1.606  1
   0.0833  1.613  1
   0.1000  1.613  1
   0.1166  1.606  1
   0.1333  1.606  1
   0.1500  1.606  1
   0.1666  1.606  1
   0.1833  1.606  1
   0.2000  1.606  1
   0.2166  1.600  1
   0.2333  1.600  1
   0.2500  1.600  1
   0.2666  1.600  1
   0.2833  1.594  1
   0.3000  1.594  1
   0.3166  1.587  1
   0.3333  1.587  1
   0.4166  1.575  1
   0.5000  1.568  1
   0.5833  1.562  1
   0.6666  1.556  1
   0.7500  1.556  1
   0.8333  1.549  1
   0.9166  1.543  1
   1.0000  1.543  1
   1.0833  1.537  1
   1.1666  1.530  1
   1.2500  1.530  1
   1.3333  1.524  1
   1.4166  1.524  1
   1.5000  1.518  1
   1.5833  1.518  1
   1.6666  1.511  1
   1.7500  1.511  1
   1.8333  1.505  1
   1.9166  1.505  1
   2.0000  1.505  1
   2.5000  1.486  1
   3.0000  1.473  1
   3.5000  1.461  1
   4.0000  1.461  1
   4.5000  1.448  1
   5.0000  1.442  1
   5.5000  1.435  1
   6.0000  1.435  1
   6.5000  1.429  1
   7.0000  1.423  1
   7.5000  1.423  1
   8.0000  1.417  1
   8.5000  1.417  1
   9.0000  1.410  1
   9.5000  1.410  1
  10.0000  1.404  1
  11.0000  1.398  1
  12.0000  1.391  1
  13.0000  1.385  1
  14.0000  1.379  1
  15.0000  1.379  1
  16.0000  1.372  1
  17.0000  1.372  1
  18.0000  1.366  1
  19.0000  1.360  1
  20.0000  1.360  1
  21.0000  1.353  1
  22.0000  1.353  1
  23.0000  1.347  1
  24.0000  1.347  1
  25.0000  1.347  1
  26.0000  1.347  1
  27.0000  1.341  1
  28.0000  1.341  1
  29.0000  1.334  1
  30.0000  1.334  1
  31.0000  1.334  1
```

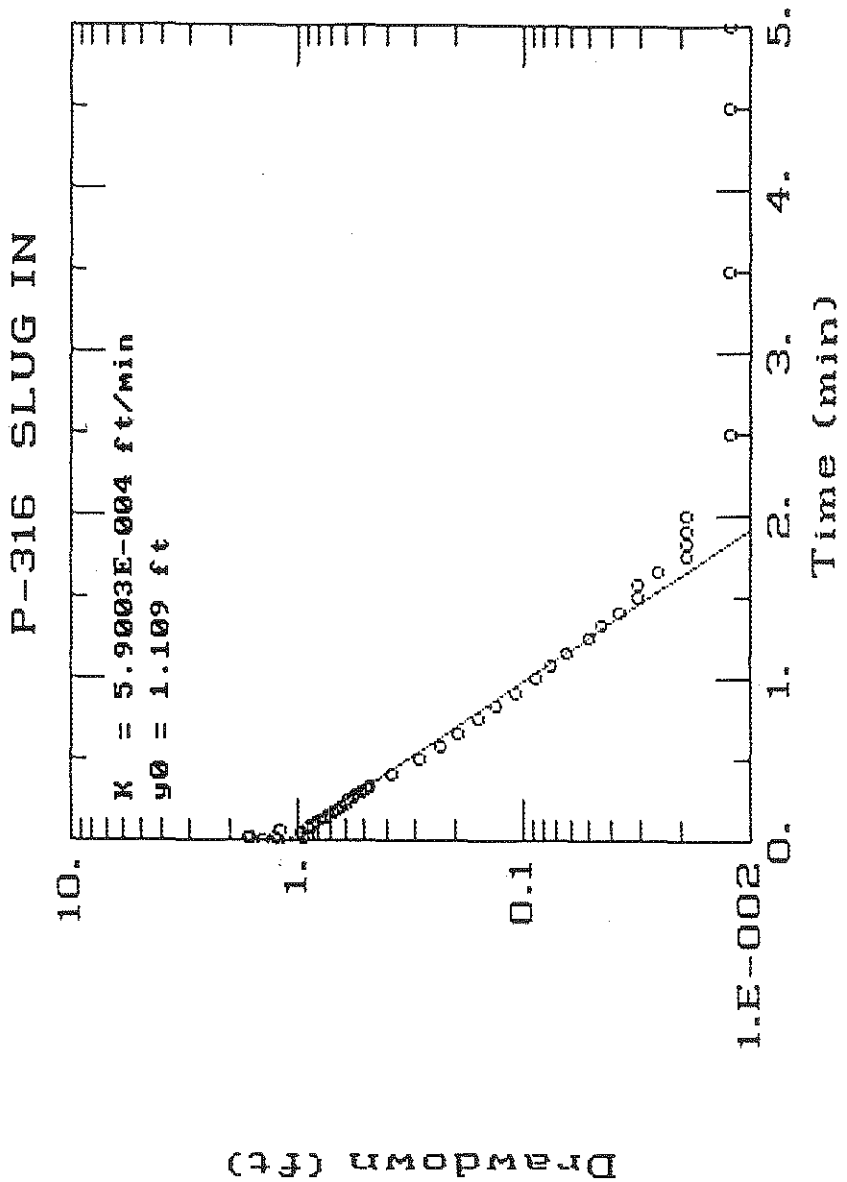
32.0000	1.328	1
33.0000	1.328	1
34.0000	1.328	1
35.0000	1.328	1
36.0000	1.322	1
37.0000	1.322	1
38.0000	1.315	1
39.0000	1.315	1
40.0000	1.315	1
41.0000	1.315	1
42.0000	1.309	1
43.0000	1.309	1
44.0000	1.309	1
45.0000	1.303	1
46.0000	1.303	1
47.0000	1.303	1
48.0000	1.303	1
49.0000	1.303	1
50.0000	1.303	1
51.0000	1.296	1
52.0000	1.296	1
53.0000	1.296	1
54.0000	1.296	1
55.0000	1.296	1
56.0000	1.290	1
57.0000	1.290	1
58.0000	1.290	1
59.0000	1.284	1
60.0000	1.284	1
61.0000	1.284	1
62.0000	1.284	1
63.0000	1.284	1
64.0000	1.277	1
65.0000	1.277	1
66.0000	1.277	1
67.0000	1.277	1
68.0000	1.277	1
69.0000	1.277	1
70.0000	1.271	1
71.0000	1.271	1
72.0000	1.271	1
73.0000	1.271	1
74.0000	1.265	1
75.0000	1.265	1
76.0000	1.265	1
77.0000	1.258	1
78.0000	1.265	1
79.0000	1.258	1
80.0000	1.258	1
81.0000	1.258	1
82.0000	1.258	1
83.0000	1.258	1
84.0000	1.258	1
85.0000	1.252	1
86.0000	1.252	1
87.0000	1.252	1
88.0000	1.252	1
89.0000	1.252	1
90.0000	1.252	1
91.0000	1.252	1
92.0000	1.252	1
93.0000	1.246	1
94.0000	1.246	1
95.0000	1.246	1
96.0000	1.239	1
97.0000	1.246	1
98.0000	1.239	1
99.0000	1.239	1
100.000	1.246	1
101.000	1.246	1
102.000	1.246	1
103.000	1.239	1
104.000	1.239	1
105.000	1.239	1
106.000	1.239	1
107.000	1.233	1
108.000	1.233	1
109.000	1.233	1
110.000	1.233	1
111.000	1.233	1
112.000	1.233	1
113.000	1.233	1
114.000	1.227	1
115.000	1.233	1
116.000	1.233	1
117.000	1.227	1
118.000	1.227	1
119.000	1.227	1
120.000	1.227	1


G-124S SLUG OUT
K = 6.9546E-006 ft/min
y0 = 1.505 ft
10.
1.
0.1
Drawdown (ft)
0.
10.
20.
30.
40.
50.
60.
Time (min)

G-124S SLUG OUT
ugt1
1.739
0.099
0.292
slugt2
10.43
10.43
10.02
tsdata

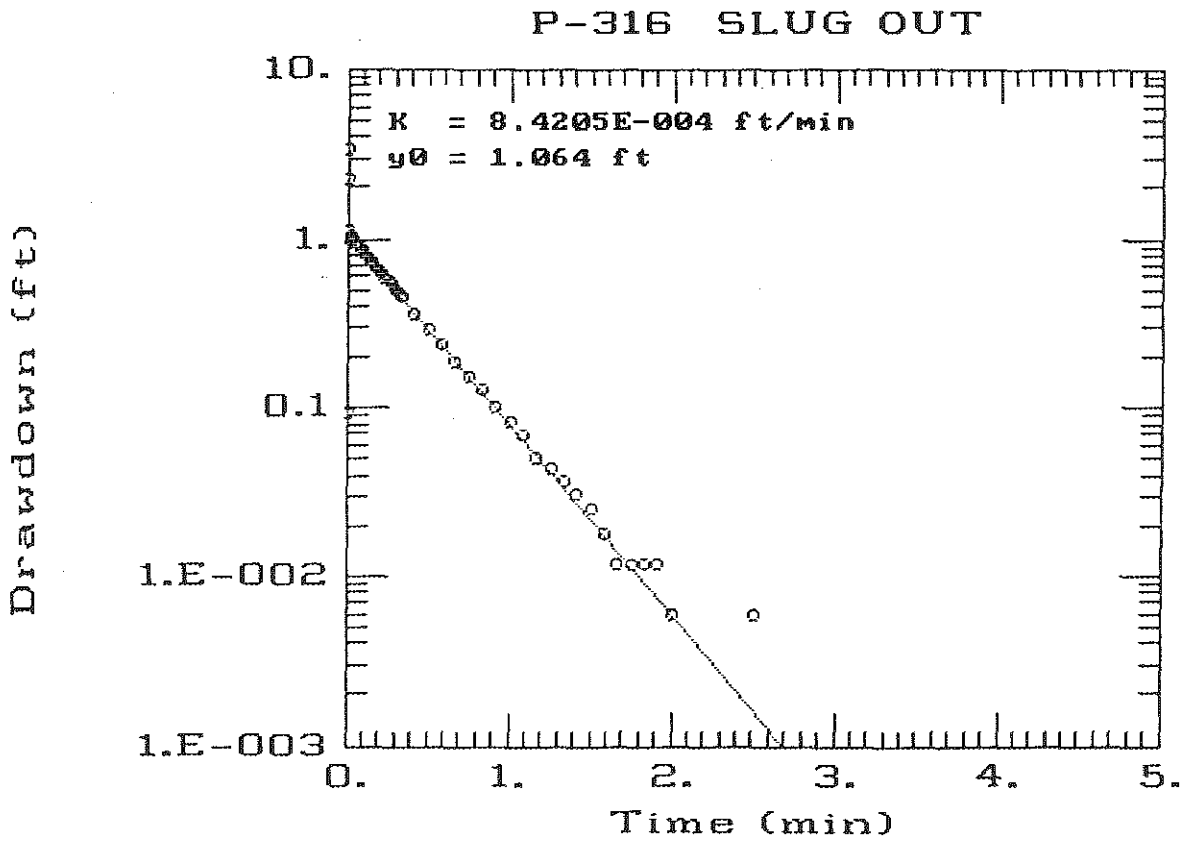
0.0000	0.000	1
0.0033	0.012	1
0.0066	1.897	1
0.0100	1.878	1
0.0133	0.107	1
0.0166	1.239	1
0.0200	0.012	1
0.0233	0.891	1
0.0266	1.549	1
0.0300	1.271	1
0.0333	1.739	1
0.0500	1.701	1
0.0666	1.688	1
0.0833	1.676	1
0.1000	1.663	1
0.1166	1.657	1
0.1333	1.657	1
0.1500	1.651	1
0.1666	1.651	1
0.1833	1.644	1
0.2000	1.644	1
0.2166	1.638	1
0.2333	1.638	1
0.2500	1.632	1
0.2666	1.632	1
0.2833	1.632	1
0.3000	1.632	1
0.3166	1.625	1
0.3333	1.625	1
0.4166	1.619	1
0.5000	1.613	1
0.5833	1.606	1
0.6666	1.600	1
0.7500	1.594	1
0.8333	1.594	1
0.9166	1.594	1
1.0000	1.587	1
1.0833	1.587	1
1.1666	1.581	1
1.2500	1.581	1
1.3333	1.575	1
1.4166	1.581	1
1.5000	1.568	1
1.5833	1.568	1
1.6666	1.562	1
1.7500	1.568	1
1.8333	1.562	1
1.9166	1.562	1
2.0000	1.556	1
2.5000	1.543	1
3.0000	1.530	1
3.5000	1.524	1
4.0000	1.511	1
4.5000	1.505	1
5.0000	1.492	1
5.5000	1.486	1
6.0000	1.473	1
6.5000	1.467	1
7.0000	1.461	1
7.5000	1.454	1
8.0000	1.442	1
8.5000	1.442	1
9.0000	1.435	1
9.5000	1.429	1
10.0000	1.417	1
11.0000	1.410	1
12.0000	1.404	1
13.0000	1.391	1
14.0000	1.378	1
15.0000	1.366	1
16.0000	1.360	1
17.0000	1.347	1
18.0000	1.341	1
19.0000	1.334	1
20.0000	1.322	1
21.0000	1.322	1
22.0000	1.309	1
23.0000	1.303	1
24.0000	1.296	1
25.0000	1.284	1
26.0000	1.277	1
27.0000	1.265	1
28.0000	1.258	1
29.0000	1.252	1
30.0000	1.246	1
31.0000	1.246	1

32.0000	1.233	1
33.0000	1.227	1
34.0000	1.220	1
35.0000	1.214	1
36.0000	1.208	1
37.0000	1.208	1
38.0000	1.201	1
39.0000	1.195	1
40.0000	1.189	1
41.0000	1.182	1
42.0000	1.176	1
43.0000	1.176	1
44.0000	1.163	1
45.0000	1.157	1
46.0000	1.157	1
47.0000	1.151	1
48.0000	1.144	1
49.0000	1.144	1
50.0000	1.132	1
51.0000	1.125	1
52.0000	1.125	1
53.0000	1.119	1
54.0000	1.119	1
55.0000	1.107	1
56.0000	1.107	1
57.0000	1.100	1
58.0000	1.100	1
59.0000	1.094	1
60.0000	1.088	1


P-316 SLUG IN
K = 5.9003E-004 ft/min
y0 = 1.109 ft
10.
1.
0.1
1.E-002
0.
1.
2.
3.
4.
5.
Time (min)
Drawdown (ft)

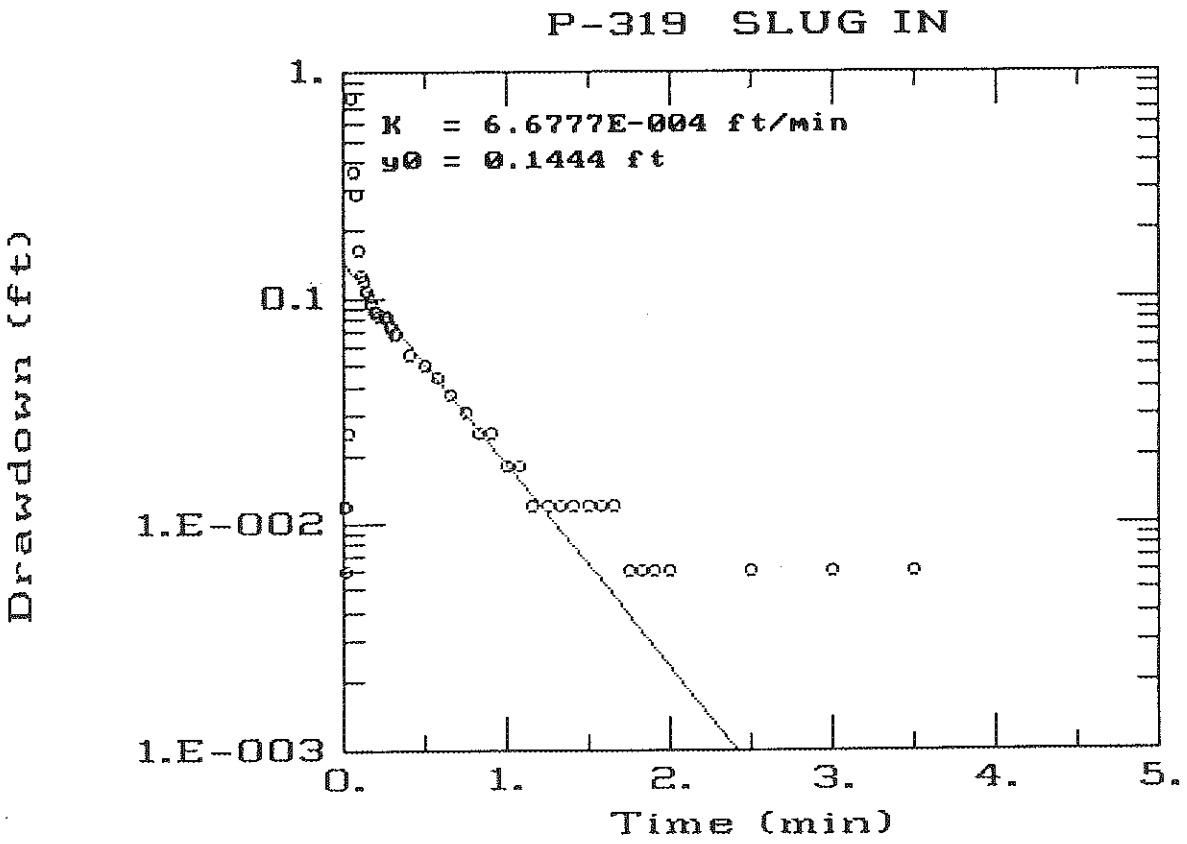
P-316 SLUG IN
slugt1
1.657
0.052
0.375
slugt2
14.52
14.52
13.52
tsdata

0.0000	0.006	1
0.0033	0.006	1
0.0066	0.006	1
0.0100	1.410	1
0.0133	1.208	1
0.0166	1.625	1
0.0200	1.606	1
0.0233	1.657	1
0.0266	1.258	1
0.0300	0.948	1
0.0333	0.898	1
0.0500	0.967	1
0.0666	1.189	1
0.0833	0.891	1
0.1000	0.853	1
0.1166	0.822	1
0.1333	0.784	1
0.1500	0.752	1
0.1666	0.727	1
0.1833	0.695	1
0.2000	0.664	1
0.2166	0.638	1
0.2333	0.613	1
0.2500	0.588	1
0.2666	0.562	1
0.2833	0.543	1
0.3000	0.518	1
0.3166	0.499	1
0.3333	0.480	1
0.4166	0.379	1
0.5000	0.290	1
0.5833	0.234	1
0.6666	0.196	1
0.7500	0.158	1
0.8333	0.132	1
0.9166	0.107	1
1.0000	0.088	1
1.0833	0.075	1
1.1666	0.063	1
1.2500	0.050	1
1.3333	0.044	1
1.4166	0.037	1
1.5000	0.031	1
1.5833	0.031	1
1.6666	0.025	1
1.7500	0.019	1
1.8333	0.019	1
1.9166	0.019	1
2.0000	0.019	1
2.5000	0.012	1
3.0000	0.006	1
3.5000	0.012	1
4.0000	0.006	1
4.5000	0.012	1
5.0000	0.012	1
5.5000	0.012	1
6.0000	0.012	1
6.5000	0.012	1
7.0000	0.012	1
7.5000	0.006	1
8.0000	0.012	1
8.5000	0.012	1
9.0000	0.012	1
9.5000	0.012	1
10.0000	0.012	1


P-316 SLUG OUT
K = 8.4205E-004 ft/min
y0 = 1.064 ft
10.
1.
0.1
1.E-002
1.E-003
Drawdown (ft)
0.
1.
2.
3.
4.
5.
Time (min)

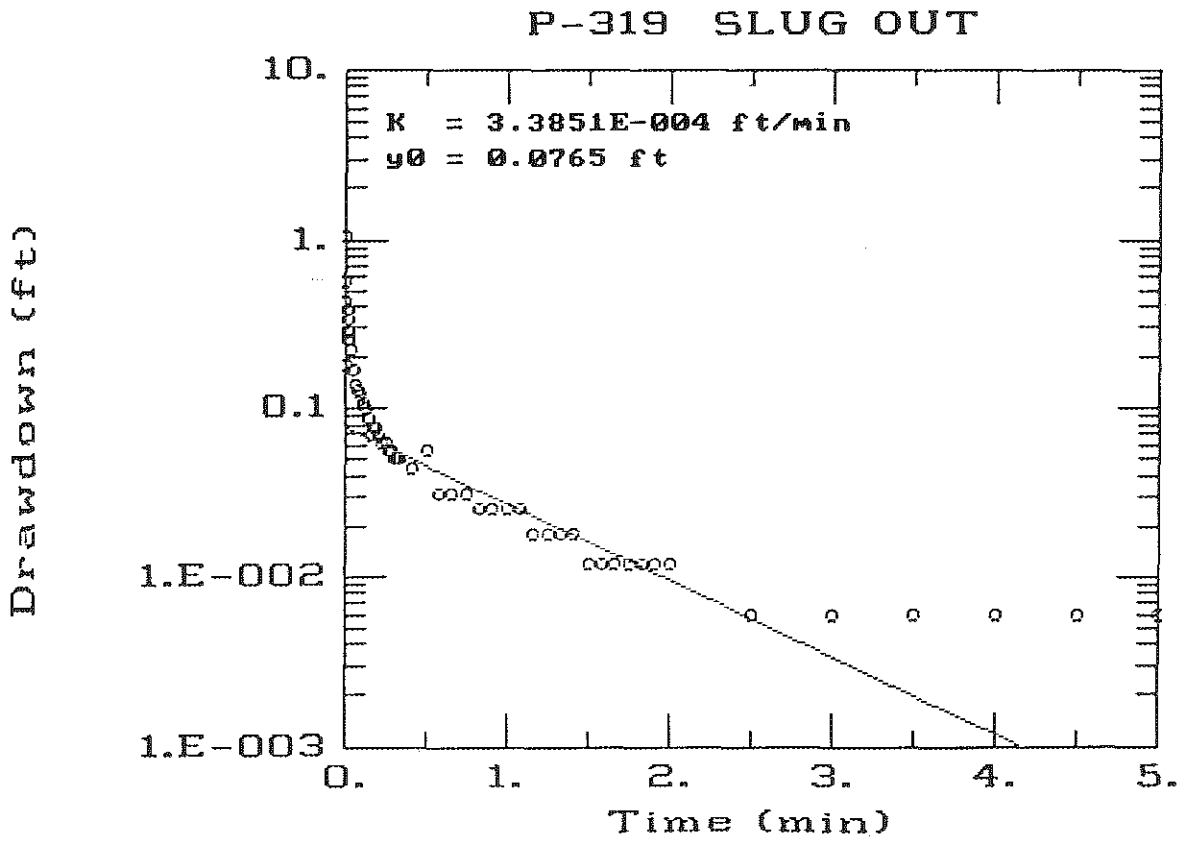
P-316 SLUG OUT
slugt1
3.352
0.052
0.375
slugt2
5.92
5.92
2.92
tsdata

0.0000	0.000	1
0.0033	0.094	1
0.0066	3.352	1
0.0100	2.283	1
0.0133	1.125	1
0.0166	1.056	1
0.0200	1.062	1
0.0233	1.043	1
0.0266	1.018	1
0.0300	0.999	1
0.0333	0.993	1
0.0500	0.955	1
0.0666	0.910	1
0.0833	0.872	1
0.1000	0.834	1
0.1166	0.796	1
0.1333	0.765	1
0.1500	0.733	1
0.1666	0.702	1
0.1833	0.670	1
0.2000	0.645	1
0.2166	0.619	1
0.2333	0.594	1
0.2500	0.569	1
0.2666	0.543	1
0.2833	0.518	1
0.3000	0.499	1
0.3166	0.480	1
0.3333	0.455	1
0.4166	0.366	1
0.5000	0.297	1
0.5833	0.240	1
0.6666	0.189	1
0.7500	0.151	1
0.8333	0.126	1
0.9166	0.101	1
1.0000	0.082	1
1.0833	0.069	1
1.1666	0.050	1
1.2500	0.044	1
1.3333	0.037	1
1.4166	0.031	1
1.5000	0.025	1
1.5833	0.018	1
1.6666	0.012	1
1.7500	0.012	1
1.8333	0.012	1
1.9166	0.012	1
2.0000	0.006	1
2.5000	0.006	1
3.0000	0.000	1
3.5000	0.000	1
4.0000	0.000	1
4.5000	0.000	1
5.0000	0.000	1
5.5000	0.000	1
6.0000	0.000	1
6.5000	0.000	1
7.0000	0.000	1
7.5000	0.000	1
8.0000	0.000	1
8.5000	0.000	1
9.0000	0.000	1
9.5000	0.000	1
10.0000	0.000	1


P-319 SLUG IN
K = 6.6777E-004 ft/min
y0 = 0.1444 ft
Drawdown (ft)
1.
0.1
1.E-002
1.E-003
0.
1.
2.
3.
4.
5.
Time (min)

P-319 SLUG IN
slugt1
0.765
0.052
0.375
slugt2
5.92
5.92
2.92
tsdata

0.0000	0.000	1
0.0033	0.000	1
0.0066	0.000	1
0.0100	0.000	1
0.0133	0.012	1
0.0166	0.000	1
0.0200	0.000	1
0.0233	0.006	1
0.0266	0.012	1
0.0300	0.000	1
0.0333	0.025	1
0.0500	0.765	1
0.0666	0.366	1
0.0833	0.290	1
0.1000	0.164	1
0.1166	0.126	1
0.1333	0.120	1
0.1500	0.107	1
0.1666	0.101	1
0.1833	0.094	1
0.2000	0.088	1
0.2166	0.088	1
0.2333	0.082	1
0.2500	0.082	1
0.2666	0.082	1
0.2833	0.075	1
0.3000	0.075	1
0.3166	0.069	1
0.3333	0.069	1
0.4166	0.056	1
0.5000	0.050	1
0.5833	0.044	1
0.6666	0.037	1
0.7500	0.031	1
0.8333	0.025	1
0.9166	0.025	1
1.0000	0.018	1
1.0833	0.018	1
1.1666	0.012	1
1.2500	0.012	1
1.3333	0.012	1
1.4166	0.012	1
1.5000	0.012	1
1.5833	0.012	1
1.6666	0.012	1
1.7500	0.006	1
1.8333	0.006	1
1.9166	0.006	1
2.0000	0.006	1
2.5000	0.006	1
3.0000	0.006	1
3.5000	0.006	1
4.0000	0.000	1
4.5000	0.000	1
5.0000	0.000	1
5.5000	0.000	1
6.0000	0.000	1
6.5000	0.000	1
7.0000	0.000	1
7.5000	0.000	1
8.0000	0.000	1
8.5000	0.000	1
9.0000	0.000	1
9.5000	0.000	1
10.0000	0.006	1
11.0000	0.006	1


P-319 SLUG OUT
K = 3.3851E-004 ft/min
y0 = 0.0765 ft
10.
1.
0.1
1.E-002
1.E-003
Drawdown (ft)
0.
1.
2.
3.
4.
5.
Time (min)

P-319 SLUG OUT
slugt1
1.049
0.052
0.375
slugt2
5.92
5.92
2.92
tsdata

0.0000	0.006	1
0.0033	0.183	1
0.0066	1.049	1
0.0100	0.556	1
0.0133	0.423	1
0.0166	0.385	1
0.0200	0.335	1
0.0233	0.297	1
0.0266	0.284	1
0.0300	0.259	1
0.0333	0.221	1
0.0500	0.170	1
0.0666	0.139	1
0.0833	0.126	1
0.1000	0.120	1
0.1166	0.107	1
0.1333	0.101	1
0.1500	0.088	1
0.1666	0.069	1
0.1833	0.075	1
0.2000	0.075	1
0.2166	0.069	1
0.2333	0.063	1
0.2500	0.063	1
0.2666	0.056	1
0.2833	0.056	1
0.3000	0.050	1
0.3166	0.050	1
0.3333	0.050	1
0.4166	0.044	1
0.5000	0.056	1
0.5833	0.031	1
0.6666	0.031	1
0.7500	0.031	1
0.8333	0.025	1
0.9166	0.025	1
1.0000	0.025	1
1.0833	0.025	1
1.1666	0.018	1
1.2500	0.018	1
1.3333	0.018	1
1.4166	0.018	1
1.5000	0.012	1
1.5833	0.012	1
1.6666	0.012	1
1.7500	0.012	1
1.8333	0.012	1
1.9166	0.012	1
2.0000	0.012	1
2.5000	0.006	1
3.0000	0.006	1
3.5000	0.006	1
4.0000	0.006	1
4.5000	0.006	1
5.0000	0.006	1
5.5000	0.000	1
6.0000	0.006	1
6.5000	0.006	1
7.0000	0.006	1
7.5000	0.006	1
8.0000	0.006	1
8.5000	0.006	1
9.0000	0.006	1
9.5000	0.012	1
10.0000	0.006	1

P-322 SLUG IN
K = 0.001097 ft/min
y0 = 0.3037 ft
10.
1.
0.1
1.E-002
1.E-003
0.
0.2
0.4
0.6
0.8
1.
Time (min)
Drawdown (ft)

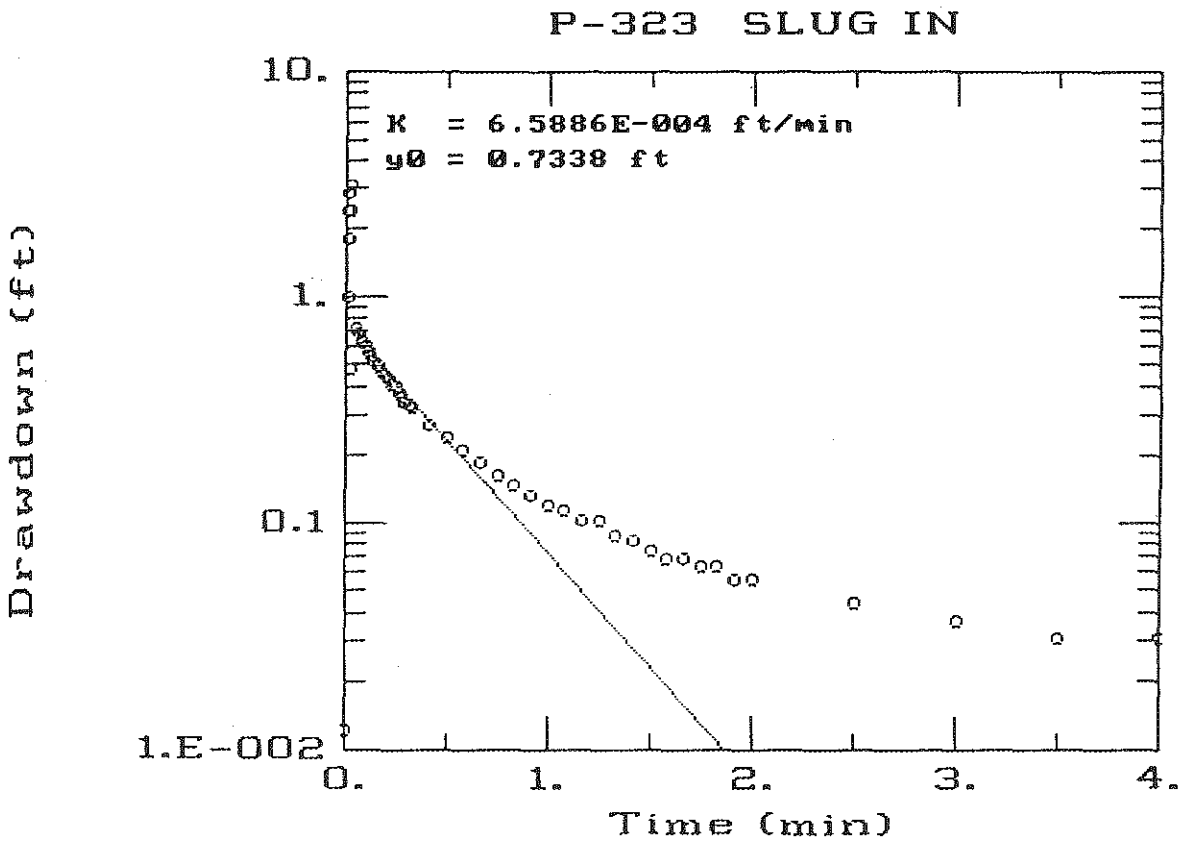
P-322 SLUG IN
slugt1
1.682
0.052
0.375
slugt2
14.37
14.37
7.37
tsdata

0.0000	0.006	1
0.0033	0.006	1
0.0066	0.006	1
0.0100	0.012	1
0.0133	0.189	1
0.0166	0.360	1
0.0200	0.505	1
0.0233	0.999	1
0.0266	1.511	1
0.0300	1.676	1
0.0333	1.682	1
0.0500	0.860	1
0.0666	0.322	1
0.0833	0.246	1
0.1000	0.202	1
0.1166	0.164	1
0.1333	0.139	1
0.1500	0.126	1
0.1666	0.107	1
0.1833	0.101	1
0.2000	0.088	1
0.2166	0.082	1
0.2333	0.082	1
0.2500	0.075	1
0.2666	0.069	1
0.2833	0.069	1
0.3000	0.069	1
0.3166	0.063	1
0.3333	0.063	1
0.4166	0.063	1
0.5000	0.056	1
0.5833	0.056	1
0.6666	0.063	1
0.7500	0.056	1
0.8333	0.050	1
0.9166	0.056	1
1.0000	0.056	1
1.0833	0.050	1
1.1666	0.050	1
1.2500	0.050	1
1.3333	0.050	1
1.4166	0.050	1
1.5000	0.056	1
1.5833	0.056	1
1.6666	0.056	1
1.7500	0.050	1
1.8333	0.050	1
1.9166	0.050	1
2.0000	0.050	1
2.5000	0.050	1
3.0000	0.044	1
3.5000	0.037	1
4.0000	0.037	1
4.5000	0.031	1
5.0000	0.031	1
5.5000	0.025	1
6.0000	0.025	1
6.5000	0.018	1
7.0000	0.018	1
7.5000	0.012	1
8.0000	0.018	1
8.5000	0.012	1
9.0000	0.018	1
9.5000	0.012	1
10.0000	0.012	1
11.0000	0.012	1

P-322 SLUG IN
K = 0.002381 ft/min
y0 = 0.563 ft
10.
1.
0.1
1.E-002
1.E-003
0.
0.2
0.4
0.6
0.8
1.
Time (min)
Drawdown (ft)

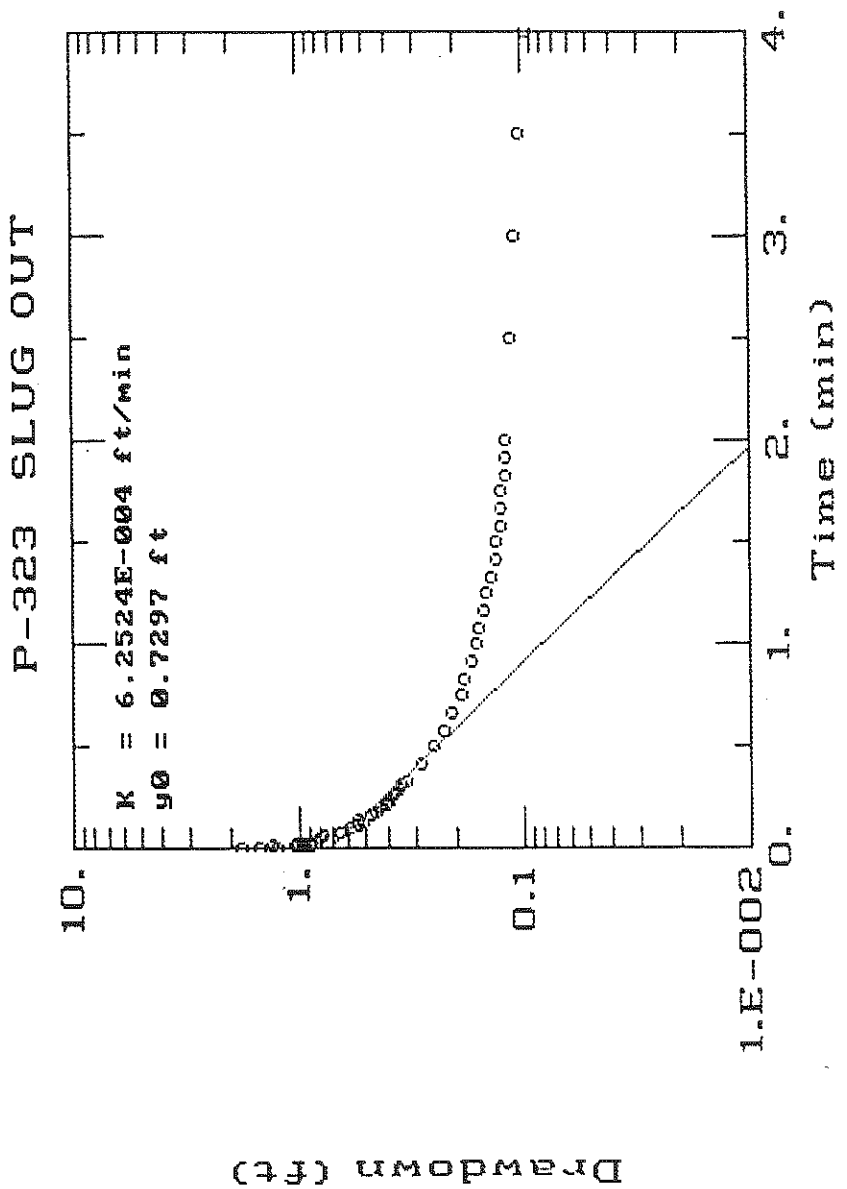
P-322 SLUG IN
slugt1
3.080
0.052
0.375
slugt2
14.37
14.37
7.37
tsdata

0.0000	0.031	1
0.0033	0.031	1
0.0066	0.031	1
0.0100	0.031	1
0.0133	0.031	1
0.0166	0.025	1
0.0200	0.006	1
0.0233	0.645	1
0.0266	1.859	1
0.0300	3.080	1
0.0333	3.074	1
0.0500	0.335	1
0.0666	0.297	1
0.0833	0.215	1
0.1000	0.170	1
0.1166	0.132	1
0.1333	0.101	1
0.1500	0.082	1
0.1666	0.069	1
0.1833	0.050	1
0.2000	0.044	1
0.2166	0.037	1
0.2333	0.031	1
0.2500	0.025	1
0.2666	0.018	1
0.2833	0.018	1
0.3000	0.012	1
0.3166	0.012	1
0.3333	0.012	1
0.4166	0.006	1
0.5000	0.006	1
0.5833	0.006	1
0.6666	0.006	1
0.7500	0.000	1
0.8333	0.000	1
0.9166	0.000	1
1.0000	0.000	1
1.0833	0.000	1
1.1666	0.006	1
1.2500	0.000	1
1.3333	0.000	1
1.4166	0.000	1
1.5000	0.000	1
1.5833	0.000	1
1.6666	0.000	1
1.7500	0.000	1
1.8333	0.000	1
1.9166	0.006	1
2.0000	0.006	1
2.5000	0.000	1
3.0000	0.006	1
3.5000	0.006	1
4.0000	0.006	1
4.5000	0.012	1
5.0000	0.012	1
5.5000	0.012	1
6.0000	0.018	1
6.5000	0.012	1
7.0000	0.018	1
7.5000	0.018	1
8.0000	0.018	1
8.5000	0.018	1
9.0000	0.012	1
9.5000	0.012	1
10.0000	0.018	1


P-323 SLUG IN
K = 6.5886E-004 ft/min
y0 = 0.7338 ft
10.
1.
0.1
1.E-002
0.
1.
2.
3.
4.
Drawdown (ft)
Time (min)

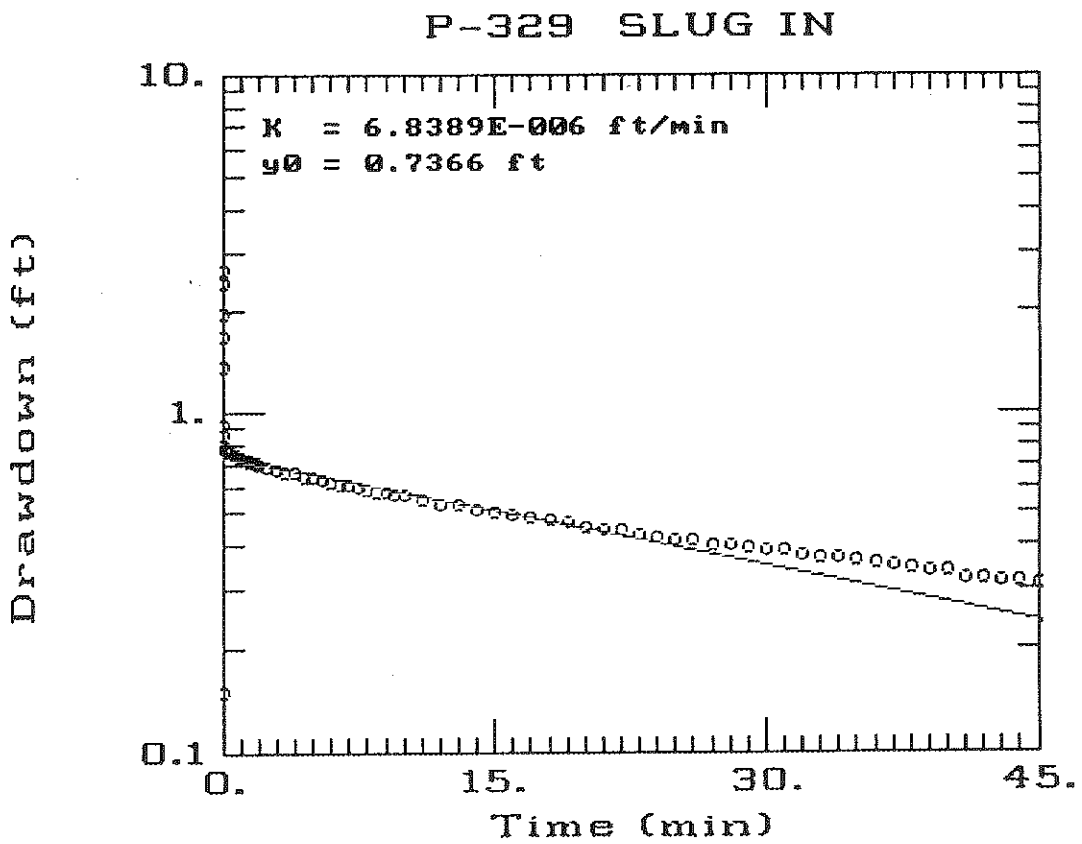
P-323 SLUG IN
slugt1
3.087
0.052
0.375
slugt2
11.65
11.65
11.15
tsdata

0.0000	0.006	1
0.0033	0.006	1
0.0066	0.000	1
0.0100	0.012	1
0.0133	0.993	1
0.0166	1.815	1
0.0200	2.397	1
0.0233	2.903	1
0.0266	3.087	1
0.0300	2.397	1
0.0333	0.480	1
0.0500	0.733	1
0.0666	0.683	1
0.0833	0.645	1
0.1000	0.613	1
0.1166	0.575	1
0.1333	0.550	1
0.1500	0.518	1
0.1666	0.493	1
0.1833	0.474	1
0.2000	0.449	1
0.2166	0.430	1
0.2333	0.411	1
0.2500	0.398	1
0.2666	0.379	1
0.2833	0.366	1
0.3000	0.347	1
0.3166	0.335	1
0.3333	0.328	1
0.4166	0.272	1
0.5000	0.240	1
0.5833	0.208	1
0.6666	0.183	1
0.7500	0.164	1
0.8333	0.145	1
0.9166	0.132	1
1.0000	0.120	1
1.0833	0.113	1
1.1666	0.101	1
1.2500	0.101	1
1.3333	0.088	1
1.4166	0.082	1
1.5000	0.075	1
1.5833	0.069	1
1.6666	0.069	1
1.7500	0.063	1
1.8333	0.063	1
1.9166	0.056	1
2.0000	0.056	1
2.5000	0.044	1
3.0000	0.037	1
3.5000	0.031	1
4.0000	0.031	1
4.5000	0.025	1
5.0000	0.018	1
5.5000	0.018	1
6.0000	0.018	1
6.5000	0.012	1
7.0000	0.018	1
7.5000	0.012	1
8.0000	0.012	1
8.5000	0.012	1
9.0000	0.012	1
9.5000	0.012	1
10.0000	0.012	1
11.0000	0.006	1


P-323 SLUG OUT
K = 6.2524E-004 ft/min
y0 = 0.7297 ft
10.
1.
0.1
1.E-002
0.
1.
2.
3.
4.
Time (min)
Drawdown (ft)

P-323 SLUG OUT
slugt1
1.783
0.052
0.375
slugt2
11.65
11.65
11.15
tsdata

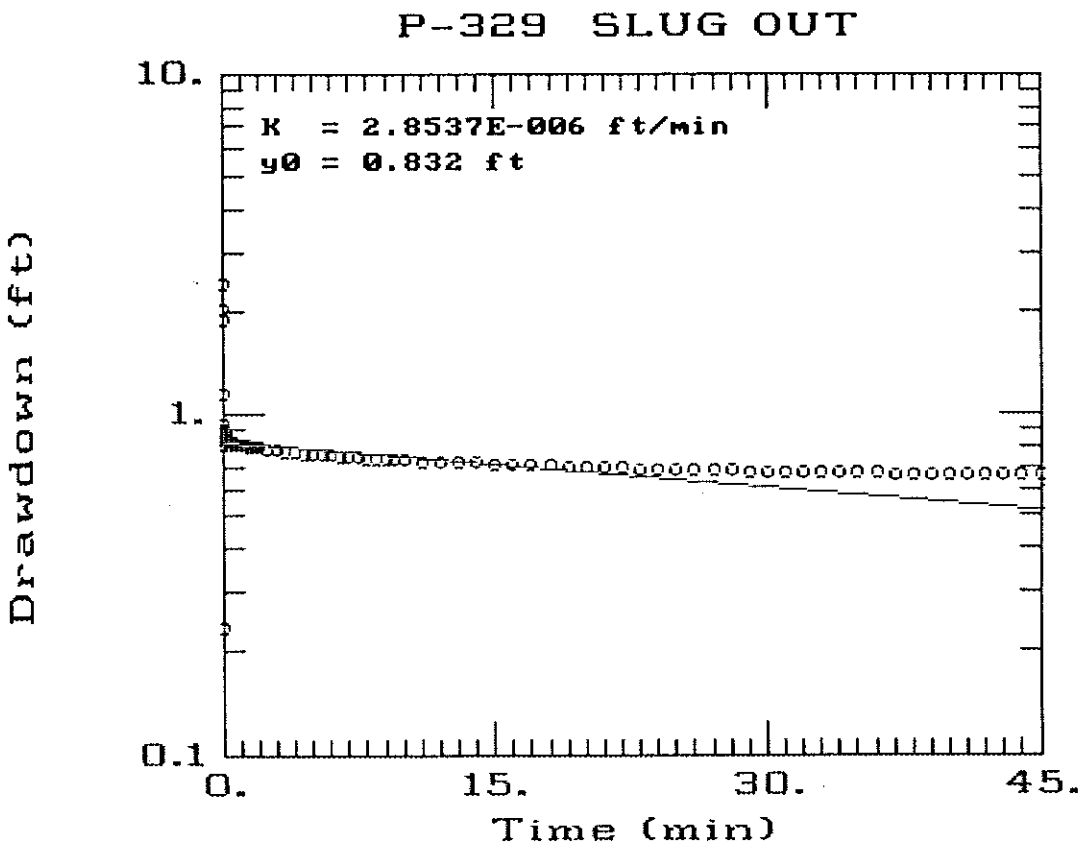
0.0000	0.044	1
0.0033	1.246	1
0.0066	1.499	1
0.0100	1.783	1
0.0133	1.315	1
0.0166	1.037	1
0.0200	0.980	1
0.0233	0.885	1
0.0266	0.891	1
0.0300	1.018	1
0.0333	0.936	1
0.0500	0.815	1
0.0666	0.796	1
0.0833	0.651	1
0.1000	0.594	1
0.1166	0.544	1
0.1333	0.518	1
0.1500	0.544	1
0.1666	0.480	1
0.1833	0.461	1
0.2000	0.430	1
0.2166	0.411	1
0.2333	0.398	1
0.2500	0.392	1
0.2666	0.379	1
0.2833	0.373	1
0.3000	0.366	1
0.3166	0.354	1
0.3333	0.335	1
0.4166	0.290	1
0.5000	0.253	1
0.5833	0.227	1
0.6666	0.208	1
0.7500	0.189	1
0.8333	0.183	1
0.9166	0.170	1
1.0000	0.164	1
1.0833	0.158	1
1.1666	0.151	1
1.2500	0.145	1
1.3333	0.139	1
1.4166	0.132	1
1.5000	0.132	1
1.5833	0.126	1
1.6666	0.126	1
1.7500	0.126	1
1.8333	0.120	1
1.9166	0.120	1
2.0000	0.120	1
2.5000	0.113	1
3.0000	0.107	1
3.5000	0.101	1
4.0000	0.094	1
4.5000	0.094	1
5.0000	0.094	1
5.5000	0.088	1
6.0000	0.088	1
6.5000	0.088	1
7.0000	0.088	1
7.5000	0.088	1
8.0000	0.094	1
8.5000	0.088	1
9.0000	0.088	1
9.5000	0.088	1
10.0000	0.094	1
11.0000	0.094	1


P-329 SLUG IN
K = 6.8389E-006 ft/min
y0 = 0.7366 ft
10.
1.
0.1
Drawdown (ft)
0.
15.
30.
45.
Time (min)

P-329 SLUG IN
slugt1
2.6570.052
0.375
slugt2
13.44
13.44
13.44
tsdata

0.0000	0.019	1
0.0033	0.019	1
0.0066	0.019	1
0.0100	0.012	1
0.0133	0.151	1
0.0166	0.923	1
0.0200	1.670	1
0.0233	2.410	1
0.0266	2.657	1
0.0300	1.961	1
0.0333	1.373	1
0.0500	0.860	1
0.0666	0.803	1
0.0833	0.803	1
0.1000	0.803	1
0.1166	0.797	1
0.1333	0.797	1
0.1500	0.790	1
0.1666	0.790	1
0.1833	0.784	1
0.2000	0.784	1
0.2166	0.784	1
0.2333	0.778	1
0.2500	0.778	1
0.2666	0.778	1
0.2833	0.778	1
0.3000	0.778	1
0.3166	0.771	1
0.3333	0.771	1
0.4166	0.765	1
0.5000	0.759	1
0.5833	0.753	1
0.6666	0.753	1
0.7500	0.746	1
0.8333	0.746	1
0.9166	0.740	1
1.0000	0.733	1
1.0833	0.733	1
1.1666	0.727	1
1.2500	0.721	1
1.3333	0.727	1
1.4166	0.721	1
1.5000	0.708	1
1.5833	0.715	1
1.6666	0.708	1
1.7500	0.708	1
1.8333	0.708	1
1.9166	0.702	1
2.0000	0.702	1
2.5000	0.689	1
3.0000	0.677	1
3.5000	0.664	1
4.0000	0.658	1
4.5000	0.645	1
5.0000	0.639	1
5.5000	0.626	1
6.0000	0.620	1
6.5000	0.607	1
7.0000	0.607	1
7.5000	0.594	1
8.0000	0.588	1
8.5000	0.582	1
9.0000	0.575	1
9.5000	0.569	1
10.0000	0.563	1
11.0000	0.550	1
12.0000	0.531	1
13.0000	0.525	1
14.0000	0.512	1
15.0000	0.499	1
16.0000	0.493	1
17.0000	0.487	1
18.0000	0.474	1
19.0000	0.468	1
20.0000	0.455	1
21.0000	0.449	1
22.0000	0.442	1
23.0000	0.430	1
24.0000	0.423	1
25.0000	0.417	1
26.0000	0.417	1
27.0000	0.405	1
28.0000	0.405	1
29.0000	0.392	1
30.0000	0.386	1
31.0000	0.386	1
32.0000	0.373	1

33.0000	0.367	1
34.0000	0.367	1
35.0000	0.360	1
36.0000	0.354	1
37.0000	0.348	1
38.0000	0.341	1
39.0000	0.335	1
40.0000	0.335	1
41.0000	0.322	1
42.0000	0.322	1
43.0000	0.316	1
44.0000	0.316	1
45.0000	0.310	1


P-329 SLUG OUT
K = 2.8537E-006 ft/min
y0 = 0.832 ft
10.
1.
0.1
Drawdown (ft)
0.
15.
30.
45.
Time (min)

P-329 SLUG OUT
slugt1
2.435
0.052
0.375
slugt1
13.44
13.44
13.44
tsdata

0.0000	0.012	1
0.0033	0.012	1
0.0066	0.234	1
0.0100	0.885	1
0.0133	1.885	1
0.0166	2.435	1
0.0200	2.043	1
0.0233	1.157	1
0.0266	0.816	1
0.0300	0.847	1
0.0333	0.942	1
0.0500	0.911	1
0.0666	0.892	1
0.0833	0.885	1
0.1000	0.879	1
0.1166	0.873	1
0.1333	0.866	1
0.1500	0.866	1
0.1666	0.860	1
0.1833	0.860	1
0.2000	0.860	1
0.2166	0.854	1
0.2333	0.854	1
0.2500	0.854	1
0.2666	0.847	1
0.2833	0.847	1
0.3000	0.847	1
0.3166	0.841	1
0.3333	0.841	1
0.4166	0.835	1
0.5000	0.835	1
0.5833	0.828	1
0.6666	0.822	1
0.7500	0.822	1
0.8333	0.816	1
0.9166	0.816	1
1.0000	0.809	1
1.0833	0.816	1
1.1666	0.809	1
1.2500	0.809	1
1.3333	0.809	1
1.4166	0.803	1
1.5000	0.803	1
1.5833	0.803	1
1.6666	0.797	1
1.7500	0.797	1
1.8333	0.797	1
1.9166	0.797	1
2.0000	0.797	1
2.5000	0.790	1
3.0000	0.784	1
3.5000	0.778	1
4.0000	0.771	1
4.5000	0.765	1
5.0000	0.759	1
5.5000	0.759	1
6.0000	0.759	1
6.5000	0.752	1
7.0000	0.746	1
7.5000	0.746	1
8.0000	0.740	1
8.5000	0.740	1
9.0000	0.733	1
9.5000	0.733	1
10.0000	0.733	1
11.0000	0.727	1
12.0000	0.727	1
13.0000	0.721	1
14.0000	0.721	1
15.0000	0.714	1
16.0000	0.708	1
17.0000	0.708	1
18.0000	0.708	1
19.0000	0.702	1
20.0000	0.702	1
21.0000	0.702	1
22.0000	0.695	1
23.0000	0.689	1
24.0000	0.689	1
25.0000	0.683	1
26.0000	0.683	1
27.0000	0.683	1
28.0000	0.683	1
29.0000	0.676	1
30.0000	0.676	1
31.0000	0.676	1

32.0000	0.676	1
33.0000	0.670	1
34.0000	0.670	1
35.0000	0.670	1
36.0000	0.670	1
37.0000	0.664	1
38.0000	0.664	1
39.0000	0.664	1
40.0000	0.658	1
41.0000	0.658	1
42.0000	0.658	1
43.0000	0.658	1
44.0000	0.658	1
45.0000	0.658	1
46.0000	0.651	1
47.0000	0.651	1
48.0000	0.651	1
49.0000	0.645	1
50.0000	0.651	1
51.0000	0.645	1

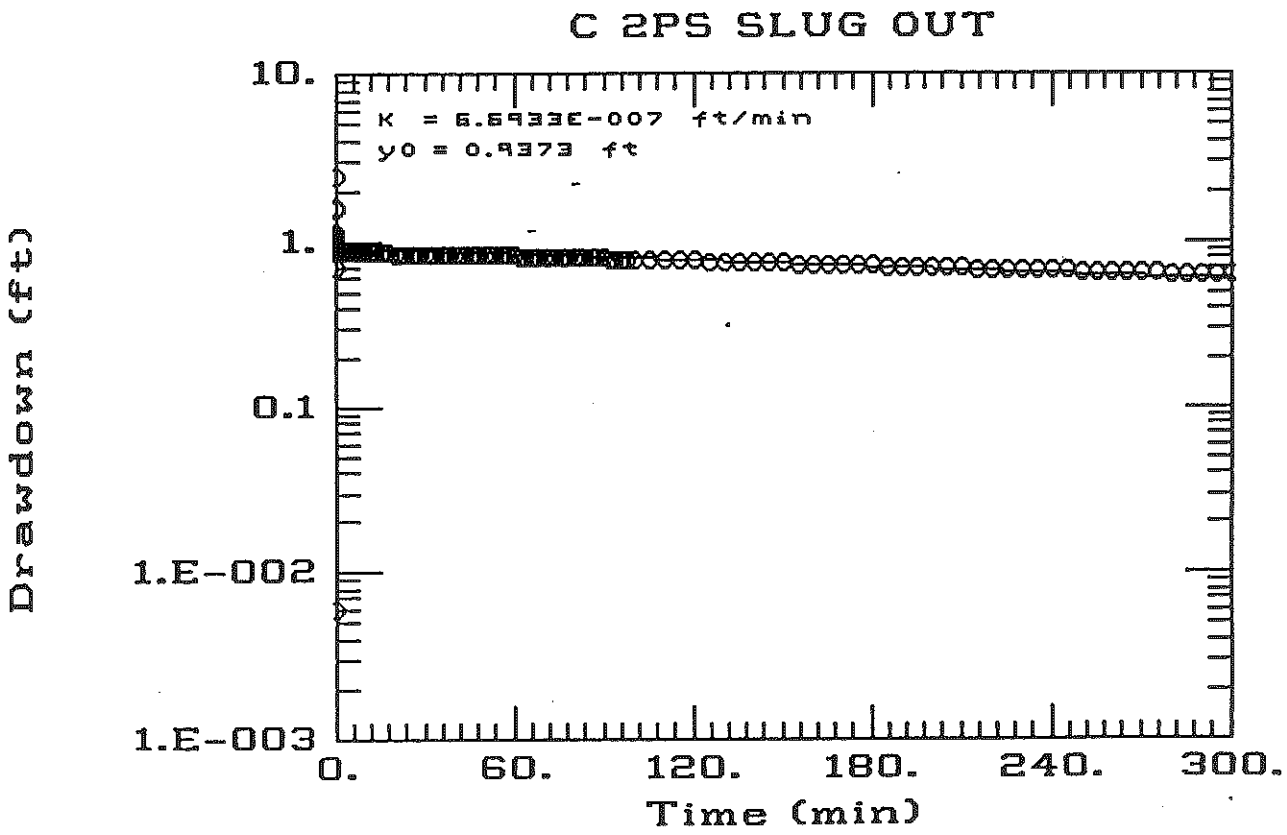
G

Manufactured By EconoPrint, Inc., Madison, WI

Printed On Recycled Paper

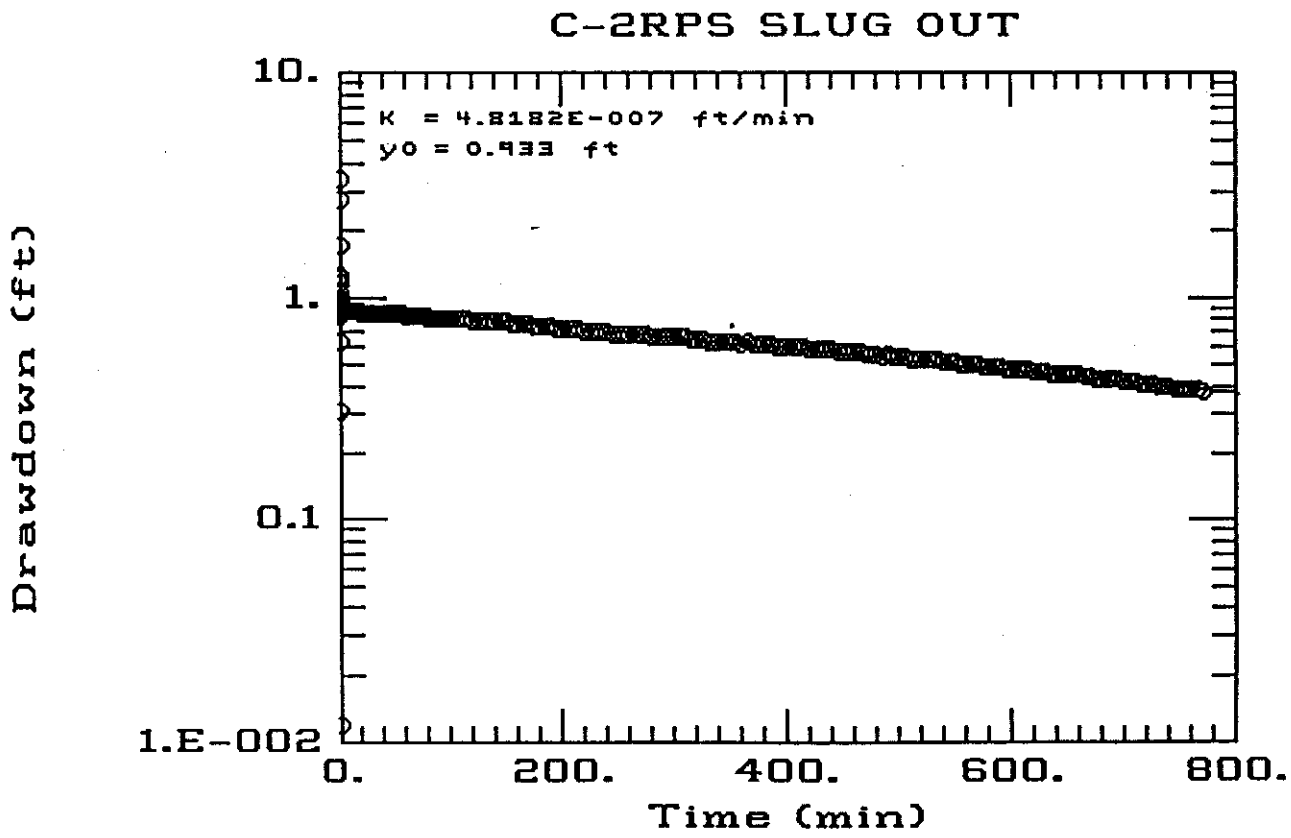
APPENDIX G

BAIL RECOVERY/SLUG TESTS FOR TEMPORARY PIEZOMETERS


C 2PS SLUG OUT
K = 6.6933E-007 ft/min
y0 = 0.9373 ft
10.
1.
0.1
1.E-002
1.E-003
Drawdown (ft)
0.
60.
120.
180.
240.
300.
Time (min)

```
C 2PS SLUG OUT
slugt1
2.473
0.052
0.167
slugt2
20
8.5
12.49
tsdata
0.0066  0.006  1
0.01  0.702  1
0.0133  2.473  1
0.0166  2.429  1
0.02  1.53  1
0.0233  1.594  1
0.0266  1.151  1
0.03  1.012  1
0.0333  1.088  1
0.05  1.069  1
0.0666  1.005  1
0.0833  0.999  1
0.1  0.974  1
0.1166  0.961  1
0.1333  0.955  1
0.15  0.948  1
0.1666  0.942  1
0.1833  0.929  1
0.2  0.929  1
0.2166  0.923  1
0.2333  0.923  1
0.25  0.917  1
0.2666  0.917  1
0.2833  0.917  1
0.3  0.91  1
0.3166  0.91  1
0.3333  0.91  1
0.4166  0.904  1
0.5  0.898  1
0.5833  0.898  1
0.6666  0.892  1
0.75  0.885  1
0.8333  0.885  1
0.9166  0.885  1
1  0.879  1
1.0833  0.879  1
1.1666  0.879  1
1.25  0.879  1
1.3333  0.879  1
1.4166  0.873  1
1.5  0.873  1
1.5833  0.873  1
1.6666  0.873  1
1.75  0.873  1
1.8333  0.873  1
1.9166  0.873  1
2  0.866  1
2.5  0.866  1
3  0.866  1
3.5  0.86  1
4  0.86  1
4.5  0.86  1
5  0.86  1
5.5  0.86  1
6  0.854  1
6.5  0.854  1
7  0.86  1
7.5  0.854  1
8  0.854  1
8.5  0.854  1
9  0.854  1
9.5  0.847  1
10  0.847  1
12  0.847  1
14  0.854  1
16  0.847  1
18  0.847  1
20  0.841  1
22  0.841  1
24  0.841  1
26  0.835  1
28  0.835  1
30  0.835  1
32  0.835  1
34  0.828  1
36  0.828  1
38  0.828  1
40  0.822  1
42  0.828  1
44  0.822  1
46  0.822  1
48  0.822  1
50  0.822  1
52  0.816  1
54  0.816  1
56  0.816  1
```

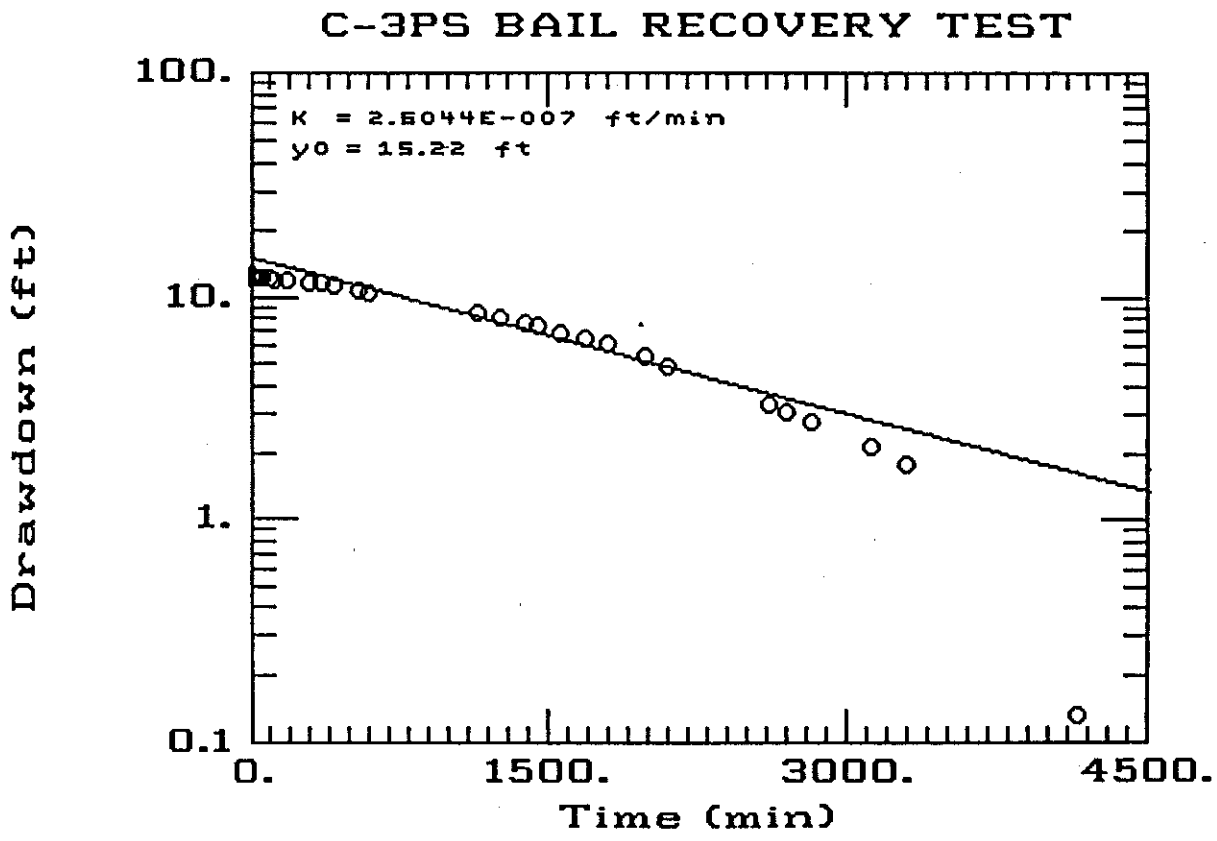
58	0.816	1
60	0.816	1
62	0.809	1
64	0.809	1
66	0.809	1
68	0.809	1
70	0.803	1
72	0.803	1
74	0.797	1
76	0.803	1
78	0.797	1
80	0.797	1
82	0.797	1
84	0.797	1
86	0.79	1
88	0.79	1
90	0.79	1
92	0.784	1
94	0.784	1
96	0.784	1
98	0.784	1
100	0.778	1
105	0.778	1
110	0.771	1
115	0.765	1
120	0.784	1
125	0.759	1
130	0.752	1
135	0.752	1
140	0.746	1
145	0.74	1
150	0.74	1
155	0.733	1
160	0.727	1
165	0.721	1
170	0.721	1
175	0.714	1
180	0.714	1
185	0.708	1
190	0.702	1
195	0.702	1
200	0.689	1
205	0.689	1
210	0.689	1
215	0.683	1
220	0.683	1
225	0.676	1
230	0.676	1
235	0.67	1
240	0.664	1
245	0.664	1
250	0.657	1
255	0.657	1
260	0.651	1
265	0.651	1
270	0.645	1
275	0.645	1
280	0.638	1
285	0.632	1
290	0.632	1
295	0.632	1
300	0.62	1


C-2RPS SLUG OUT
K = 4.8182E-007 ft/min
y0 = 0.933 ft
10.
1.
0.1
1.E-002
Drawdown (ft)
0.
200.
400.
600.
800.
Time (min)

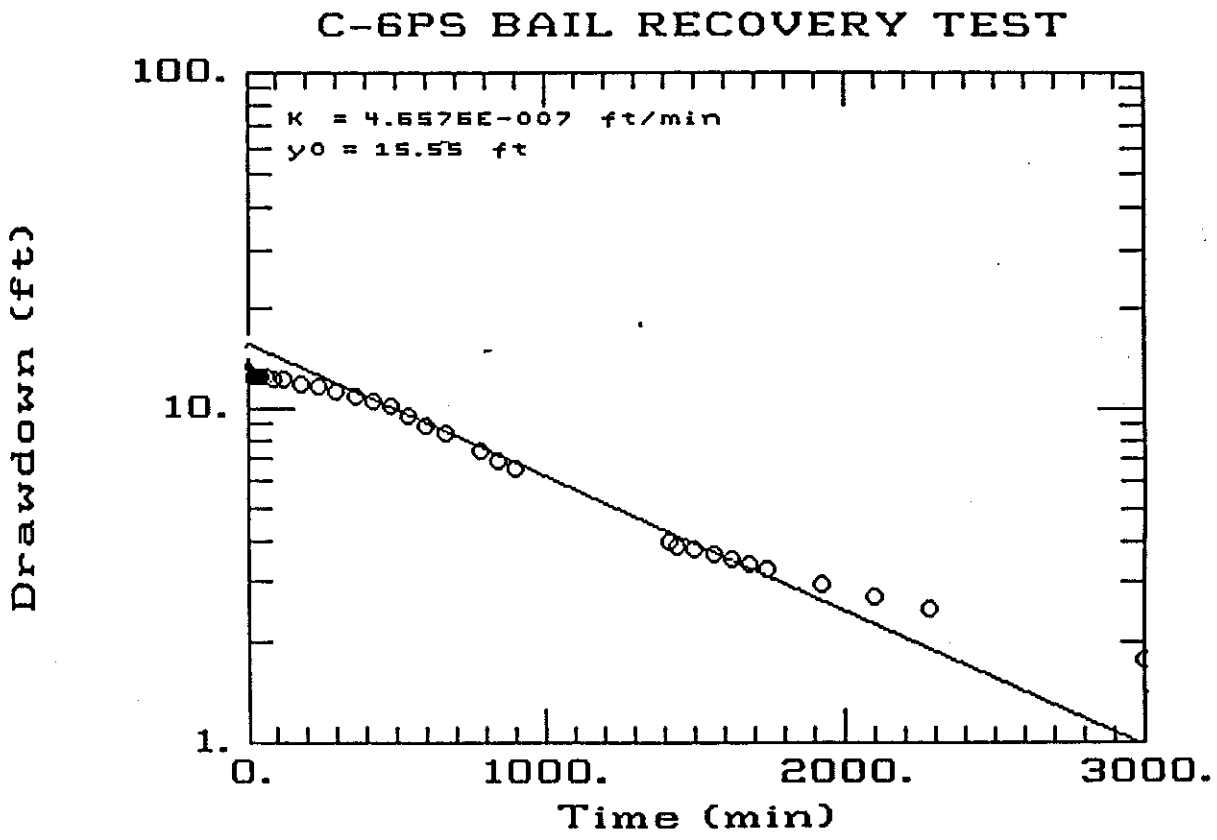
C-2RPS SLUG OUT
slugt1
.346
0.052
0.167
slugt2
20.0
8.0
12.11
tsdata
0.0033 0.012 1
0.0066 0.309 1
0.01 3.346 1
0.0133 2.751 1
0.0166 0.638 1
0.02 1.233 1
0.0233 1.726 1
0.0266 0.645 1
0.03 1.252 1
0.0333 1.176 1
0.05 1.043 1
0.0666 0.999 1
0.0833 0.974 1
0.1 0.986 1
0.1166 0.942 1
0.1333 0.929 1
0.15 0.923 1
0.1666 0.917 1
0.1833 0.917 1
0.2 0.91 1
0.2166 0.91 1
0.2333 0.91 1
0.25 0.91 1
0.2666 0.91 1
0.2833 0.904 1
0.3 0.904 1
0.3166 0.904 1
0.3333 0.904 1
0.4166 0.891 1
0.5 0.885 1
0.5833 0.885 1
0.6666 0.879 1
0.75 0.879 1
0.8333 0.879 1
0.9166 0.879 1
1 0.873 1
1.0833 0.873 1
1.1666 0.873 1
1.25 0.873 1
1.3333 0.841 1
1.4166 0.841 1
1.5 0.854 1
1.5833 0.86 1
1.6666 0.854 1
1.75 0.847 1
1.8333 0.847 1
1.9166 0.847 1
2 0.835 1
2.5 0.898 1
3 0.891 1
3.5 0.891 1
4 0.885 1
4.5 0.885 1
5 0.885 1
5.5 0.885 1
6 0.879 1
6.5 0.879 1
7 0.879 1
7.5 0.879 1
8 0.879 1
8.5 0.879 1
9 0.873 1
9.5 0.866 1
10 0.866 1
12 0.873 1
14 0.866 1
16 0.866 1
18 0.866 1
20 0.86 1
22 0.86 1
24 0.86 1
26 0.86 1
28 0.854 1
30 0.854 1
32 0.854 1
34 0.854 1
36 0.854 1
38 0.847 1
40 0.847 1
42 0.847 1
44 0.847 1
46 0.847 1
48 0.847 1
50 0.841 1
52 0.841 1
54 0.841 1

56	0.841	1
8	0.835	1
60	0.835	1
62	0.828	1
64	0.828	1
66	0.828	1
68	0.828	1
70	0.828	1
72	0.828	1
74	0.822	1
76	0.822	1
78	0.822	1
80	0.816	1
82	0.816	1
84	0.816	1
86	0.816	1
88	0.816	1
90	0.809	1
92	0.809	1
94	0.809	1
96	0.816	1
98	0.809	1
100	0.803	1
105	0.803	1
110	0.803	1
115	0.797	1
120	0.79	1
125	0.79	1
130	0.784	1
135	0.784	1
140	0.778	1
145	0.778	1
150	0.778	1
155	0.771	1
160	0.765	1
165	0.759	1
170	0.759	1
175	0.752	1
180	0.746	1
185	0.74	1
190	0.74	1
195	0.733	1
200	0.727	1
205	0.721	1
210	0.721	1
215	0.721	1
220	0.714	1
225	0.714	1
230	0.708	1
235	0.702	1
240	0.702	1
245	0.695	1
250	0.695	1
255	0.689	1
260	0.689	1
265	0.683	1
270	0.683	1
275	0.683	1
280	0.676	1
285	0.676	1
290	0.676	1
295	0.676	1
300	0.67	1
305	0.664	1
310	0.664	1
315	0.657	1
320	0.651	1
325	0.651	1
330	0.645	1
335	0.645	1
340	0.638	1
345	0.638	1
350	0.632	1
355	0.632	1
360	0.626	1
365	0.632	1
370	0.626	1
375	0.626	1
380	0.619	1
385	0.619	1
390	0.613	1
395	0.613	1
400	0.607	1
405	0.601	1
410	0.601	1
415	0.601	1
420	0.594	1
425	0.588	1
430	0.588	1
435	0.588	1
440	0.588	1
445	0.582	1
450	0.575	1
455	0.575	1
460	0.569	1
465	0.569	1

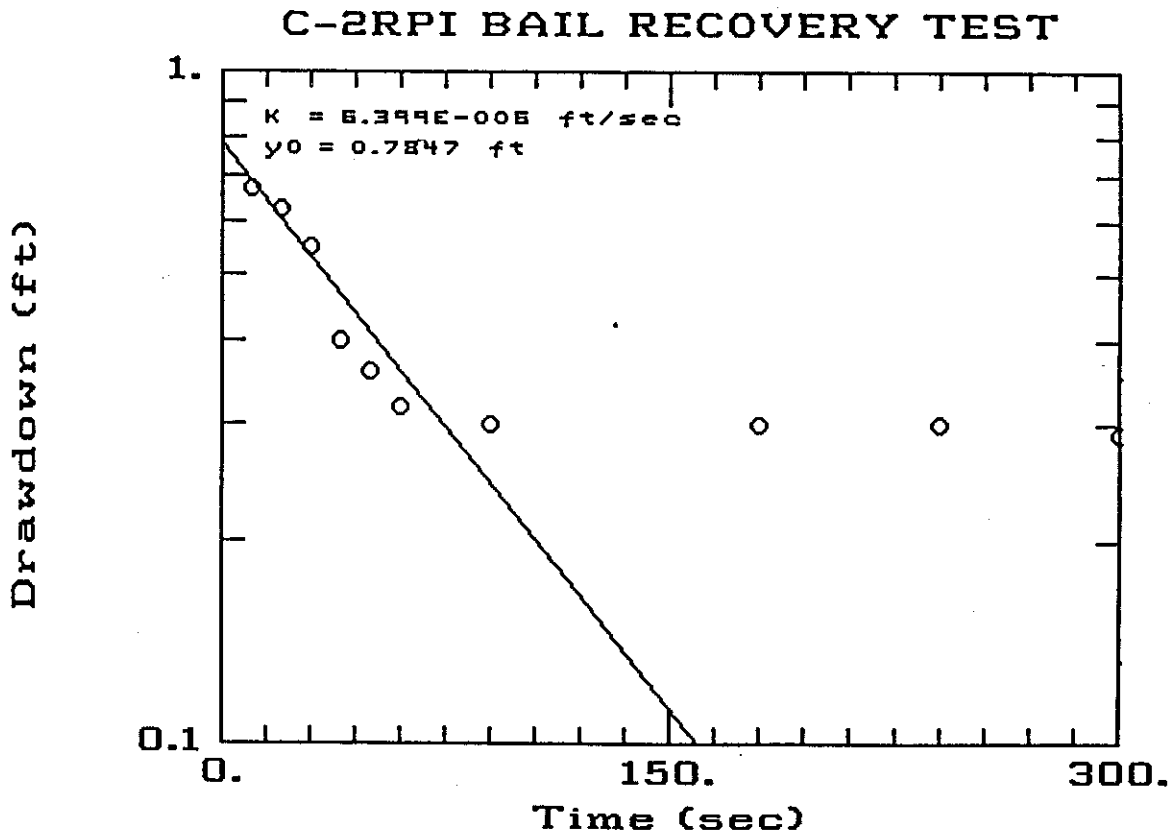
470	0.563	1
475	0.556	1
480	0.556	1
485	0.55	1
490	0.556	1
495	0.55	1
500	0.544	1
505	0.544	1
510	0.537	1
515	0.537	1
520	0.531	1
525	0.531	1
530	0.525	1
535	0.525	1
540	0.518	1
545	0.518	1
550	0.512	1
555	0.506	1
560	0.506	1
565	0.506	1
570	0.499	1
575	0.493	1
580	0.493	1
585	0.487	1
590	0.487	1
595	0.48	1
600	0.48	1
605	0.48	1
610	0.474	1
615	0.474	1
620	0.468	1
625	0.468	1
630	0.461	1
635	0.455	1
640	0.455	1
645	0.449	1
650	0.449	1
655	0.449	1
660	0.449	1
665	0.442	1
670	0.442	1
675	0.436	1
680	0.436	1
685	0.43	1
690	0.43	1
695	0.43	1
700	0.423	1
705	0.417	1
710	0.417	1
715	0.411	1
720	0.411	1
725	0.411	1
730	0.404	1
735	0.398	1
740	0.398	1
745	0.392	1
750	0.392	1
755	0.385	1
760	0.385	1
765	0.385	1
770	0.379	1


C-3PS BAIL RECOVERY TEST
K = 2.5044E-007 ft/min
y0 = 15.22 ft
Drawdown (ft)
100.
10.
1.
0.1
0.
1500.
3000.
4500.
Time (min)

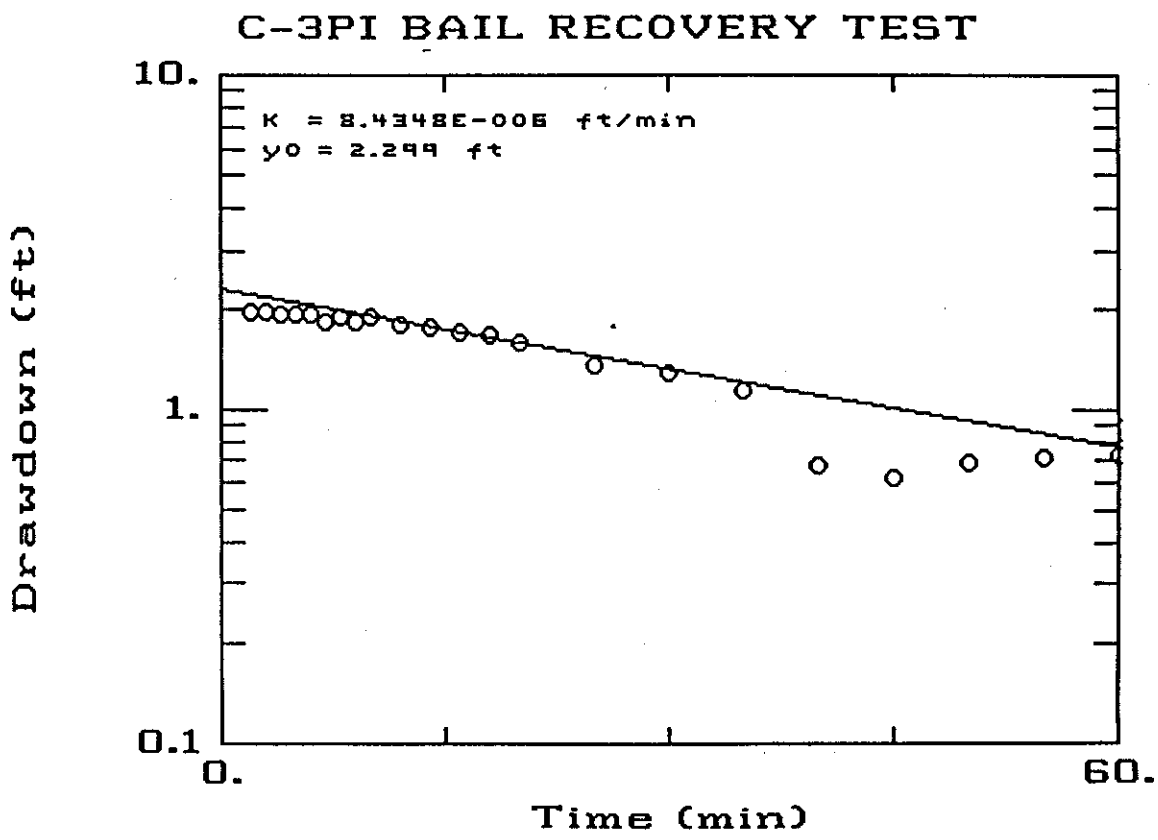
C-3PS BAIL RECOVERY TEST
lugt1
1.66
0.052
0.167
slugt2
20
9.0
15.93
tsdata
0.5 12.49 1
1 12.46 1
1.5 12.44 1
2 12.42 1
3 12.4 1
4 12.38 1
5 12.37 1
6 12.35 1
8 12.33 1
10 12.32 1
15 12.29 1
20 12.27 1
25 12.24 1
30 12.23 1
40 12.21 1
50 12.18 1
60 12.15 1
90 12.09 1
120 12.03 1
180 11.91 1
300 11.66 1
360 11.47 1
420 11.2 1
540 10.69 1
600 10.46 1
1150 8.39 1
1260 7.98 1
1380 7.57 1
1440 7.37 1
1560 6.95 1
1680 6.58 1
1800 6.19 1
1980 5.42 1
2100 4.96 1
2610 3.33 1
2700 3.09 1
2820 2.8 1
3120 2.12 1
3300 1.76 1
4140 0.13 1


C-6PS BAIL RECOVERY TEST
K = 4.6576E-007 ft/min
y0 = 15.55 ft
100.
10.
1.
0.
1000.
2000.
3000.
Drawdown (ft)
Time (min)

C-6PS BAIL RECOVERY TEST
slugt1
11.61
0.052
0.167
slugt2
20
8
16.19
tsdata
1 12.86 1
1.5 12.83 1
2 12.81 1
2.5 12.79 1
3 12.77 1
3.5 12.76 1
4 12.74 1
5 12.73 1
6 12.71 1
8 12.69 1
10 12.68 1
15 12.65 1
20 12.62 1
30 12.57 1
40 12.53 1
50 12.49 1
60 12.45 1
90 12.35 1
120 12.27 1
180 11.96 1
240 11.61 1
300 11.25 1
360 10.89 1
420 10.57 1
480 10.1 1
540 9.51 1
600 8.92 1
660 8.37 1
780 7.39 1
840 6.94 1
900 6.53 1
1410 3.96 1
1440 3.86 1
1500 3.75 1
1560 3.63 1
1620 3.52 1
1680 3.4 1
1740 3.29 1
1920 2.97 1
2100 2.7 1
2280 2.47 1
3000 1.75 1

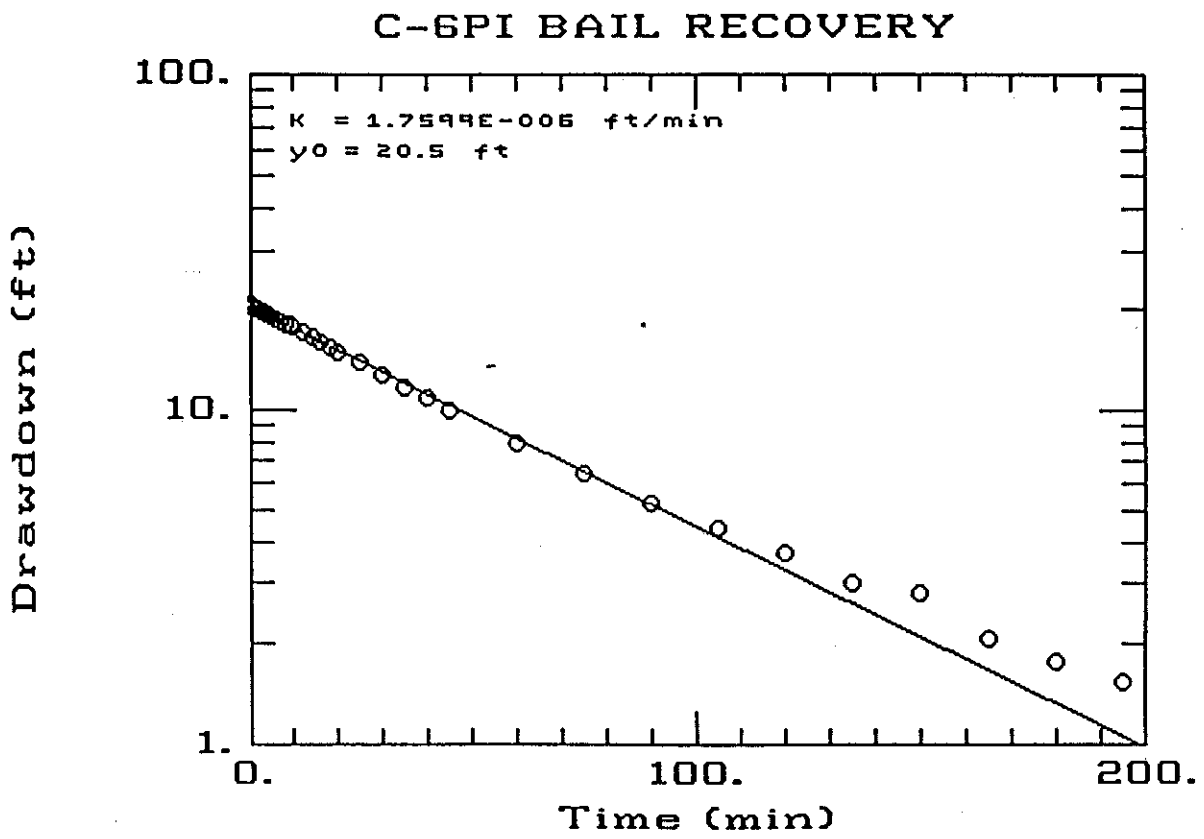

C-2RPI BAIL RECOVERY TEST
K = 5.399E-005 ft/sec
y0 = 0.7847 ft
1.
0.1
0.
150.
300.
Drawdown (ft)
Time (sec)

C-2RPI BAIL RECOVERY TEST
slugt1
).97
0.052
0.167
slugt2
30.0
9.7
25.72
tsdata
0 0.97 1
10 0.67 1
20 0.63 1
30 0.55 1
40 0.4 1
50 0.36 1
60 0.32 1
90 0.3 1
180 0.3 1
240 0.3 1
300 0.29 1
360 0.29 1
420 0.28 1
480 0.28 1
540 0.27 1
600 0.26 1
720 0.26 1
840 0.25 1
960 0.24 1
1080 0.23 1
1200 0.22 1
1500 0.21 1
1800 0.2 1

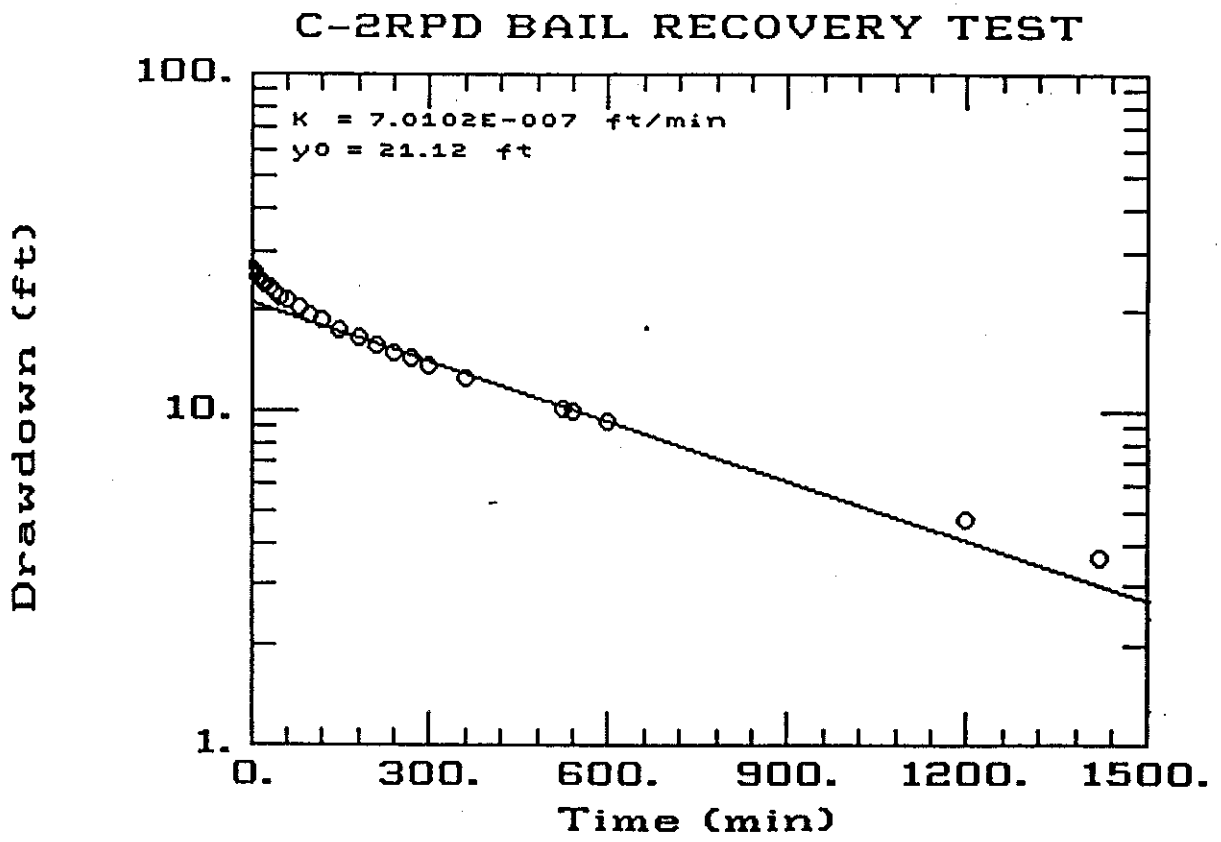

C-3PI BAIL RECOVERY TEST
K = 8.4348E-005 ft/min
y0 = 2.299 ft
10.
1.
0.1
0.
60.
Drawdown (ft)
Time (min)

C-3PI BAIL RECOVERY TEST
slugt1
..95
0.052
0.167
slugt2
30.0
7.2
21.27
tsdata

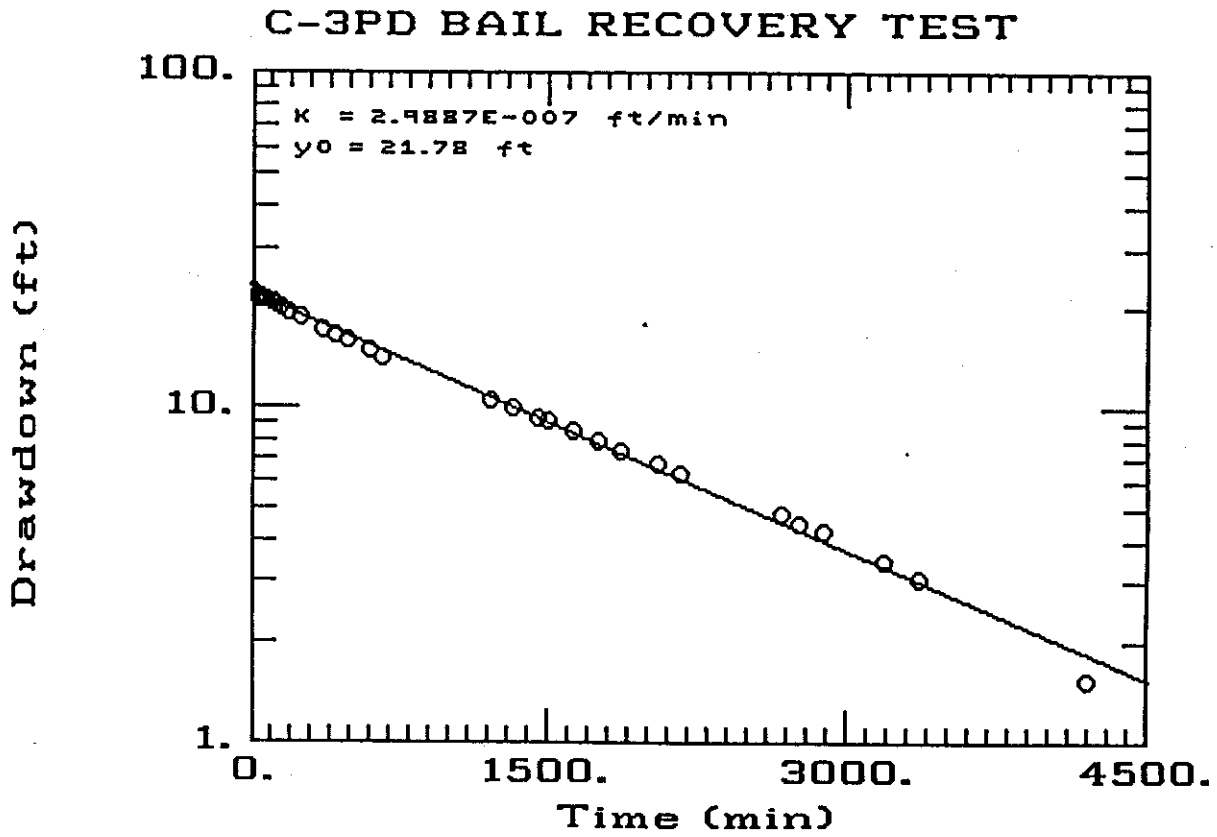
0	1.82	1
2	1.95	1
3	1.95	1
4	1.92	1
5	1.92	1
6	1.92	1
7	1.82	1
8	1.9	1
9	1.82	1
10	1.9	1
12	1.8	1
14	1.76	1
16	1.7	1
18	1.68	1
20	1.61	1
25	1.36	1
30	1.29	1
35	1.15	1
40	0.68	1
45	0.63	1
50	0.69	1
55	0.72	1
60	0.73	1
65	0.74	1
70	0.78	1
75	0.78	1
80	0.83	1
85	0.78	1
90	0.82	1
95	0.84	1
100	0.84	1
120	0.77	1
150	0.64	1
180	0.52	1
210	0.4	1


C-6PI BAIL RECOVERY
K = 1.7599E-006 ft/min
y0 = 20.5 ft
100.
10.
1.
Drawdown (ft)
0.
100.
200.
Time (min)

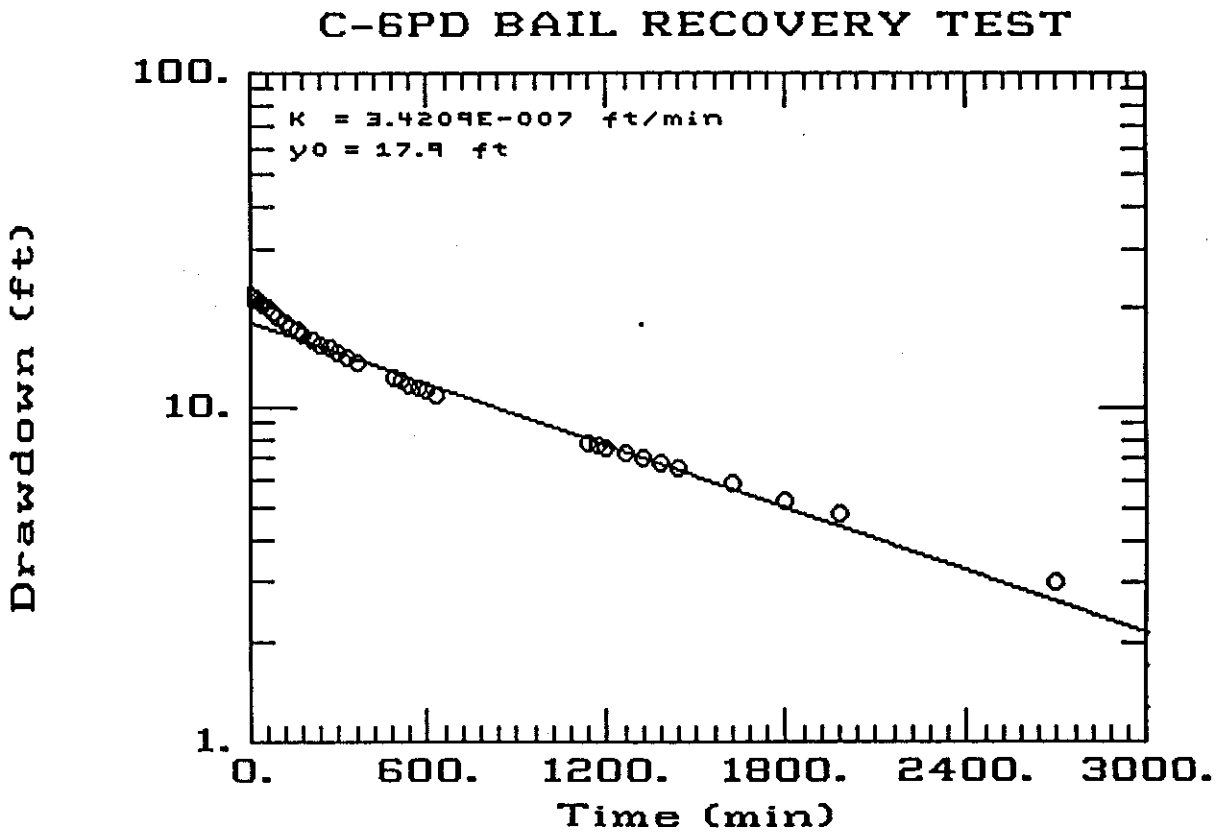
C-6PI BAIL RECOVERY 195 1.53 1
slugt1
20.69
0.052
0.167
slugt2
30.0
9.2
23.09
tsdata
0.167 20.63 1
0.333 20.59 1
0.5 20.48 1
0.667 20.42 1
0.833 20.38 1
1 20.32 1
1.5 20.16 1
2 20.01 1
2.5 19.8 1
3 19.65 1
3.5 19.44 1
4 19.35 1
4.5 19.12 1
5 19.02 1
6 18.7 1
7 18.42 1
8 18.12 1
9 17.88 1
10 17.58 1
12 16.99 1
14 16.48 1
16 15.9 1
18 15.41 1
20 14.92 1
25 13.8 1
30 12.76 1
35 11.63 1
40 10.81 1
45 10.01 1
60 8.02 1
75 6.49 1
90 5.21 1
105 4.44 1
120 3.7 1
135 3 1
150 2.79 1
165 2.07 1
180 1.76 1


C-2RPD BAIL RECOVERY TEST
K = 7.0102E-007 ft/min
y0 = 21.12 ft
100.
10.
1.
Drawdown (ft)
0.
300.
600.
900.
1200.
1500.
Time (min)

C-2RPD BAIL RECOVERY TEST
-lugt1
.6.57
0.052
0.167
slugt2
40.0
9.8
31.11
tsdata
0.25 26.51 1
0.5 26.45 1
0.75 26.41 1
1 26.38 1
1.5 26.25 1
2 26.18 1
2.5 26.07 1
3 26.01 1
3.5 25.95 1
4 25.88 1
4.5 25.81 1
5 25.76 1
6 25.63 1
7 25.5 1
3 25.36 1
9 25.25 1
10 25.14 1
12 24.95 1
14 24.74 1
16 24.53 1
18 24.33 1
20 24.15 1
25 23.72 1
30 23.34 1
40 22.62 1
50 21.96 1
60 21.35 1
80 20.32 1
100 19.41 1
120 18.58 1
150 17.5 1
180 16.58 1
210 15.73 1
240 14.97 1
270 14.3 1
300 13.69 1
360 12.6 1
522 10.23 1
540 9.98 1
600 9.32 1
1200 4.73 1
1420 3.66 1


C-3PD BAIL RECOVERY TEST
K = 2.9887E-007 ft/min
y0 = 21.78 ft
100.
10.
1.
0.
1500.
3000.
4500.
Drawdown (ft)
Time (min)

C-3PD BAIL RECOVERY TEST
slugt1
.2.17
0.052
0.167
slugt2
40.00
9.0
25.17
tsdata
0.5 22.02 1
1 21.94 1
1.5 21.92 1
2 21.89 1
2.5 21.86 1
3 21.85 1
4 21.82 1
5 21.79 1
6 21.76 1
8 21.72 1
10 21.69 1
12 21.65 1
14 21.62 1
16 21.59 1
18 21.56 1
20 21.52 1
25 21.46 1
30 21.4 1
40 21.3 1
50 21.21 1
60 21.12 1
75 21 1
90 20.89 1
105 20.64 1
120 20.38 1
150 19.87 1
180 19.42 1
240 18.58 1
360 17.1 1
420 16.45 1
480 15.85 1
600 14.81 1
660 14.2 1
1210 10.59 1
1320 10 1
1440 9.38 1
1500 9.09 1
1620 8.52 1
1740 7.99 1
1860 7.49 1
2040 6.81 1
2160 6.38 1
2670 4.79 1
2760 4.53 1
2880 4.23 1
3180 3.48 1
3360 3.09 1
4200 1.53 1


C-6PD BAIL RECOVERY TEST
K = 3.4209E-007 ft/min
y0 = 17.9 ft
100.
10.
1.
Drawdown (ft)
0.
600.
1200.
1800.
2400.
3000.
Time (min)

C-6PD BAIL RECOVERY TEST
ıgt1
1.74
0.052
0.167
slugt2
40.0
8.2
25.80
tsdat
0.5 21.71 1
1 21.7 1
1.5 21.68 1
2 21.68 1
2.5 21.67 1
3 21.66 1
4 21.64 1
5 21.63 1
6 21.61 1
7 21.6 1
8 21.59 1
10 21.56 1
15 21.52 1
0 21.46 1
0 21.04 1
40 20.58 1
50 20.22 1
60 19.89 1
80 19.2 1
100 18.64 1
120 18.08 1
140 17.51 1
160 17.09 1
180 16.66 1
210 16.08 1
240 15.55 1
270 15.05 1
300 14.6 1
330 14.16 1
360 13.71 1
485 12.24 1
510 12.01 1
540 11.72 1
570 11.44 1
600 11.2 1
530 10.96 1
1140 7.85 1
1170 7.7 1
1200 7.55 1
1265 7.26 1
1320 7.04 1
1380 6.79 1
1440 6.56 1
1620 5.9 1
1800 5.29 1
1980 4.79 1
2700 3.02 1

H

Manufactured By EconoPrint, Inc., Madison, WI

Printed On Recycled Paper

APPENDIX H
LAB PERMEABILITY RESULTS

PERMEABILITY TEST BY BACK PRESSURE CONSTANT-HEAD

Chemical Waste Management RFI Phase II
Chicago Incinerator 13963-052

Boring C-1
Piston Sample at 27-29 feet

	Initial	Final
Wet Density pcf	128.8	127.2
Dry density pcf	108.1	107.0
% Moisture	19.2	18.9

Height Initial	3.070	318	Wet soil and dish
Diameter Initial	2.860	283.6	Dry soil and dish
Area Initial	6.421	104.3	dish only
Volume Initial	323.28	667	Ws Initial
Initial dial	0.451	665.6	Final Ws
Final dial	0.478	559.6	Weight solids
Initial cc/in res	-0.44		
Final cc/in res.	-0.36		
Height Final	3.043	7.729 cm	
Diameter Final	2.887		
Area Final	6.543	42.244 cm^2	
Volume Final	326.51		
Height change	-0.027		
cc/in reser.	0.011		
Volume change	-7.273		
Cell Change	10.5	@ 56 psi	
Net Volume Change	3.227		
h= T/B PREss. diff	9	630.90 cm	

Standard Water .005 N CaSO4

Hydraulic Gradient
81.63

Elapsed Time minutes	cc's	K cm/sec
40.0	0.20	2.25E-08
24.0	0.10	1.87E-08
45.0	0.30	3.00E-08
1189.0	5.30	2.01E-08

K Average = 2.28E-08 cm/s

PERMEABILITY TEST BY BACK PRESSURE CONSTANT-HEAD

Chemical Waste Management RFI Phase II
Chicago Incinerator 13963-052

Boring C-1
Piston Sample at 37-38.5 feet

	Initial	Final
Wet Density pcf	130.5	132.5
Dry density pcf	114.8	114.7
% Moisture	13.7	15.6

Height Initial	3.960		411.6 Wet soil and dish
Diameter Initial	2.860		374.6 Dry soil and dish
Area Initial	6.421		105.3 dish only
Volume Initial	417.00		872.1 Ws Initial
Initial dial	0.350		886 Final Ws
Final dial	0.36		766.8 Weight solids
Initial cc/in res	-0.44		
Final cc/in res.	-0.318		
Height Final	3.950	10.033 cm	
Diameter Final	2.865		
Area Final	6.444	41.604 cm^2	
Volume Final	417.41		
Height change	-0.01		
cc/in reser.	0.011		
Volume change	-11.091		
Cell Change	11.5	@ 66 psi	
Net Volume Change	0.409		
h= T/B PREss. diff	9	630.90 cm	

Standard Water .005 N CaSO4

Hydraulic Gradient
62.88

Elapsed Time minutes	cc's	K cm/sec
2.0	0.10	2.97E-07
12.0	0.60	2.97E-07
35.0	1.90	3.22E-07
63.0	3.40	3.20E-07

K Average = 3.09E-07 cm/s

PERMEABILITY TEST BY BACK PRESSURE CONSTANT-HEAD

Chemical Waste Management RFI Phase II
Chicago Incinerator 13963-052

Boring C-1
SPT Sample at 69-71 feet

	Initial	Final
Wet Density pcf	141.9	135.7
Dry density pcf	124.8	117.3
% Moisture	13.6	15.7

Height Initial	2.420		130.8 Wet soil and dish
Diameter Initial	1.435		128.7 Dry soil and dish
Area Initial	1.616		113.3 dish only
Volume Initial	64.16		145.8 Ws Initial
Initial dial	-0.150		148.4 Final Ws
Final dial	-0.151		128.3 Weight solids
Initial cc/in res	0		
Final cc/in res.	9.9		
Height Final	2.421	6.149 cm	
Diameter Final	1.480		
Area Final	1.719	11.100 cm^2	
Volume Final	68.26		
Height change	0.001		
cc/in reser.	0.011		
Volume change	-9.900		
Cell Change	14	@ 56 psi	
Net Volume Change	4.100		
h= T/B PREss. diff	9	630.90 cm	

Standard Water .005 N CaSO4

Hydraulic Gradient
102.60

Elapsed Time minutes	cc's	K cm/sec
35.0	1.70	6.62E-07
18.0	0.90	6.81E-07
45.0	2.10	6.36E-07
42.0	2.00	6.49E-07

K Average = 6.57E-07 cm/s

PERMEABILITY TEST BY BACK PRESSURE CONSTANT-HEAD

Chemical Waste Management RFI Phase II
Chicago Incinerator 13963-052

Boring C-2
Piston Sample at 26-28 feet

	Initial	Final
Wet Density pcf	120.0	120.7
Dry density pcf	96.8	96.1
% Moisture	24.0	25.7

Height Initial	3.600		199.3 Wet soil and dish
Diameter Initial	2.860		181.1 Dry soil and dish
Area Initial	6.421		105.2 dish only
Volume Initial	379.10		728.9 Ws Initial
Initial dial	0.784		738.8 Final Ws
Final dial	0.797		587.9 Weight solids
Initial cc/in res	-0.445		
Final cc/in res.	-0.362		
Height Final	3.587	9.111 cm	
Diameter Final	2.876		
Area Final	6.494	41.933 cm^2	
Volume Final	382.05		
Height change	-0.013		
cc/in reser.	0.011		
Volume change	-7.545		
Cell Change	10.5	@ 56 psi	
Net Volume Change	2.955		
h= T/B PREss. diff	9	630.90 cm	

Standard Water .005 N CaSO4

Hydraulic Gradient
69.25

Elapsed Time minutes	cc's	K cm/sec
2.0	1.10	2.94E-06
2.0	1.00	2.67E-06
8.0	4.00	2.67E-06
8.0	4.00	2.67E-06

K Average = 2.74E-06 cm/s

PERMEABILITY TEST BY BACK PRESSURE CONSTANT-HEAD

Chemical Waste Management RFI Phase II
Chicago Incinerator 13963-052

Boring C-2
SPT Sample 9 at 36-38 feet

	Initial	Final
Wet Density pcf	142.3	144.7
Dry density pcf	128.4	130.2
% Moisture	10.8	11.2

Height Initial	2.850		251.5 Wet soil and dish
Diameter Initial	1.440		237.5 Dry soil and dish
Area Initial	1.628		108.2 dish only
Volume Initial	76.08		173.5 Ws Initial
Initial dial	0.466		174.1 Final Ws
Final dial	0.469		156.5 Weight solids
Initial cc/in res	0		
Final cc/in res.	15		
Height Final	2.847	7.231 cm	
Diameter Final	1.431		
Area Final	1.608	10.383 cm^2	
Volume Final	75.08		
Height change	-0.003		
cc/in reser.	0.011		
Volume change	-15.000		
Cell Change	14	@ 56 psi	
Net Volume Change	-1.000		
h= T/B PREss. diff	9	630.90 cm	

Standard Water .005 N CaSO4

Hydraulic Gradient
87.24

Elapsed Time minutes	cc's	K cm/sec
25.0	1.10	7.54E-07
54.0	2.20	6.98E-07
57.0	2.30	6.91E-07
95.0	3.30	5.95E-07

K Average = 6.84E-07 cm/s

PERMEABILITY TEST BY BACK PRESSURE CONSTANT-HEAD

Chemical Waste Management RFI Phase II
Chicago Incinerator 13963-052

Boring C-3
Piston Sample at 24-26 feet

	Initial	Final
Wet Density pcf	128.6	127.7
Dry density pcf	107.6	106.3
% Moisture	19.5	20.1

Height Initial	3.000		241.5	Wet soil and dish
Diameter Initial	2.860		219.7	Dry soil and dish
Area Initial	6.421		107.7	dish only
Volume Initial	315.91		650.8	Ws Initial
Initial dial	1.240		654.4	Final Ws
Final dial	1.254		544.8	Weight solids
Initial cc/in res	-0.42			
Final cc/in res.	-0.337			
Height Final	2.986	7.584 cm		
Diameter Final	2.885			
Area Final	6.532	42.174 cm^2		
Volume Final	319.87			
Height change	-0.014			
cc/in reser.	0.011			
Volume change	-7.545			
Cell Change	11.5	@ 66 psi		
Net Volume Change	3.955			
h= T/B PREss. diff	9	630.90 cm		

Standard Water .005 N CaSO4

Hydraulic Gradient
83.18

Elapsed Time minutes	cc's	K cm/sec
84.0	0.30	1.58E-08
30.0	0.20	2.95E-08
25.0	0.30	5.31E-08
32.0	0.10	1.38E-08

K Average = 2.80E-08 cm/s

PERMEABILITY TEST BY BACK PRESSURE CONSTANT-HEAD

Chemical Waste Management RFI Phase II
Chicago Incinerator 13963-052

Boring C-3
SPT Sample 12 at 44-46 feet

	Initial	Final
Wet Density pcf	140.9	142.5
Dry density pcf	126.1	126.1
% Moisture	11.7	13.0

Height Initial	3.350		207.8	Wet soil and dish
Diameter Initial	1.440		197.2	Dry soil and dish
Area Initial	1.628		106.7	dish only
Volume Initial	89.43		201.9	Ws Initial
Initial dial	0.690		204.2	Final Ws
Final dial	0.69		180.7	Weight solids
Initial cc/in res	0			
Final cc/in res.	11.5			
Height Final	3.350	8.509 cm		
Diameter Final	1.440			
Area Final	1.628	10.510 cm^2		
Volume Final	89.43			
Height change	0			
cc/in reser.	0.011			
Volume change	-11.500			
Cell Change	11.5	@ 66 psi		
Net Volume Change	0.000			
h= T/B PREss. diff	9	630.90 cm		

Standard Water .005 N CaSO4

Hydraulic Gradient
74.15

Elapsed Time minutes	cc's	K cm/sec
16.0	1.00	1.24E-06
285.0	15.20	1.06E-06
114.0	5.90	1.03E-06
10.0	0.60	1.19E-06

K Average = 1.13E-06 cm/s

PERMEABILITY TEST BY BACK PRESSURE CONSTANT-HEAD

Chemical Waste Management RFI Phase II
Chicago Incinerator 13963-052

Boring C-4
Piston Sample at 34-36 feet

	Initial	Final
Wet Density pcf	138.4	136.7
Dry density pcf	120.9	119.7
% Moisture	14.5	14.2

Height Initial	3.800		290.5 Wet soil and dish
Diameter Initial	2.860		267 Dry soil and dish
Area Initial	6.421		104.6 dish only
Volume Initial	400.16		887.5 Ws Initial
Initial dial	-0.219		885.4 Final Ws
Final dial	-0.213		775.3 Weight solids
Initial cc/in res	-0.433		
Final cc/in res.	-0.362		
Height Final	3.794	9.637 cm	
Diameter Final	2.877		
Area Final	6.496	41.944 cm^2	
Volume Final	404.20		
Height change	-0.006		
cc/in reser.	0.011		
Volume change	-6.455		
Cell Change	10.5	@ 56 psi	
Net Volume Change	4.045		
h= T/B PREss. diff	9	630.90 cm	

Standard Water .005 N CaSO4

Hydraulic Gradient
65.47

Elapsed Time minutes	cc's	K cm/sec
86.0	0.80	5.26E-08
32.0	0.30	5.30E-08
21.0	0.20	5.38E-08
817.0	7.60	5.26E-08

K Average = 5.30E-08 cm/s

PERMEABILITY TEST BY BACK PRESSURE CONSTANT-HEAD

Chemical Waste Management RFI Phase II
Chicago Incinerator 13963-052

Boring C-5
Piston Sample at 26-28 feet

	Initial	Final
Wet Density pcf	126.0	124.8
Dry density pcf	103.8	102.6
% Moisture	21.4	21.6

Height Initial	3.390		357.3 Wet soil and dish
Diameter Initial	2.850		314 Dry soil and dish
Area Initial	6.376		112.1 dish only
Volume Initial	354.49		715.8 Ws Initial
Initial dial	0.179		717 Final Ws
Final dial	0.207		589.4 Weight solids
Initial cc/in res	-0.433		
Final cc/in res.	-0.363		
Height Final	3.362	8.539 cm	
Diameter Final	2.878		
Area Final	6.504	41.996 cm^2	
Volume Final	358.63		
Height change	-0.028		
cc/in reser.	0.011		
Volume change	-6.364		
Cell Change	10.5	@ 56 psi	
Net Volume Change	4.136		
h= T/B PREss. diff	9	630.90 cm	

Standard Water .005 N CaSO4

Hydraulic Gradient
73.88

Elapsed Time minutes	cc's	K cm/sec
53.0	0.30	2.83E-08
54.0	0.30	2.78E-08
464.0	1.30	1.40E-08
93.0	0.50	2.69E-08

K Average = 2.42E-08 cm/s

PERMEABILITY TEST BY BACK PRESSURE CONSTANT-HEAD

Chemical Waste Management RFI Phase II
Chicago Incinerator 13963-052

Boring C-5
Piston Sample at 36-37.5 feet

	Initial	Final
Wet Density pcf	123.6	122.8
Dry density pcf	102.1	101.4
% Moisture	21.1	21.2

Height Initial	3.020		309.1 Wet soil and dish
Diameter Initial	2.860		273.1 Dry soil and dish
Area Initial	6.421		102.7 dish only
Volume Initial	318.02		629.9 Ws Initial
Initial dial	1.263		630.2 Final Ws
Final dial	1.267		520.0 Weight solids
Initial cc/in res	-0.447		
Final cc/in res.	-0.356		
Height Final	3.016	7.661 cm	
Diameter Final	2.872		
Area Final	6.475	41.804 cm^2	
Volume Final	320.25		
Height change	-0.004		
cc/in reser.	0.011		
Volume change	-8.273		
Cell Change	10.5 @ 56 psi		
Net Volume Change	2.227		
h= T/B PREss. diff	9	630.90 cm	

Standard Water .005 N CaSO4

Hydraulic Gradient
82.36

Elapsed Time minutes	cc's	K cm/sec
6.0	3.80	2.85E-06
13.0	4.60	1.59E-06
1.0	0.60	2.70E-06
1.0	0.60	2.70E-06

K Average = 2.46E-06 cm/s

PERMEABILITY TEST BY BACK PRESSURE CONSTANT-HEAD

Chemical Waste Management RFI Phase II
Chicago Incinerator 13963-052

Boring C-6
Piston Sample at 22-24 feet

	Initial	Final
Wet Density pcf	127.1	126.3
Dry density pcf	105.5	105.5
% Moisture	20.4	19.8

Height Initial	3.010		288.5	Wet soil and dish
Diameter Initial	2.840		257.6	Dry soil and dish
Area Initial	6.331		106.3	dish only
Volume Initial	312.55		636.2	Ws Initial
Initial dial	1.250		632.8	Final Ws
Final dial	1.262		528.3	Weight solids
Initial cc/in res	-0.423			
Final cc/in res.	-0.287			
Height Final	2.998	7.615 cm		
Diameter Final	2.846			
Area Final	6.360	41.062 cm^2		
Volume Final	312.68			
Height change	-0.012			
cc/in reser.	0.011			
Volume change	-12.364			
Cell Change	12.5	@ 76 psi		
Net Volume Change	0.136			
h= T/B PREss. diff	9	630.90 cm		

Standard Water .005 N CaSO4

Hydraulic Gradient
82.85

Elapsed Time minutes	cc's	K cm/sec
19.0	0.20	4.80E-08
15.0	0.10	3.04E-08
39.0	0.30	3.51E-08
35.0	0.30	3.91E-08

K Average = 3.81E-08 cm/s

PERMEABILITY TEST BY BACK PRESSURE CONSTANT-HEAD

Chemical Waste Management RFI Phase II
Chicago Incinerator 13963-052

Boring C-6
SPT Sample 12 at 42-44 feet

	Initial	Final
Wet Density pcf	140.7	143.1
Dry density pcf	126.8	128.0
% Moisture	11.0	11.8

Height Initial	2.470	233	Wet soil and dish
Diameter Initial	1.400	220.2	Dry soil and dish
Area Initial	1.539	103.5	dish only
Volume Initial	62.33	140.5	Ws Initial
Initial dial	0.567	141.5	Final Ws
Final dial	0.571	126.6	Weight solids
Initial cc/in res	0		
Final cc/in res.	13.1		
Height Final	2.466	6.264 cm	
Diameter Final	1.394		
Area Final	1.526	9.855 cm^2	
Volume Final	61.73		
Height change	-0.004		
cc/in reser.	0.011		
Volume change	-13.100		
Cell Change	12.5	@ 46 psi	
Net Volume Change	-0.600		
h= T/B PREss. diff	9	630.90 cm	

Standard Water .005 N CaSO4

Hydraulic Gradient
100.72

Elapsed Time minutes	cc's	K cm/sec
15.0	0.70	7.30E-07
5.0	0.30	9.38E-07
33.0	1.60	7.58E-07
44.0	2.10	7.46E-07

K Average = 7.93E-07 cm/s

PERMEABILITY TEST BY BACK PRESSURE CONSTANT-HEAD

Chemical Waste Management RFI Phase II
Chicago Incinerator 13963-052

Boring C-7
Piston Sample at 29-31 feet

	Initial	Final
Wet Density pcf	134.4	131.8
Dry density pcf	112.3	110.2
% Moisture	19.7	19.6

Height Initial	2.900	270	Wet soil and dish
Diameter Initial	2.830	242.4	Dry soil and dish
Area Initial	6.287	102.6	dish only
Volume Initial	299.01	643.9	Ws Initial
Initial dial	1.309	643.3	Final Ws
Final dial	1.32	537.7	Weight solids
Initial cc/in res	-0.45		
Final cc/in res.	-0.385		

Height Final	2.889	7.338 cm
Diameter Final	2.862	
Area Final	6.429	41.510 cm^2
Volume Final	304.60	

Height change	-0.011	
cc/in reser.	0.011	
Volume change	-5.909	
Cell Change	11.5	@ 66 psi
Net Volume Change	5.591	
h= T/B PREss. diff	9	630.90 cm

Standard Water .005 N CaSO4

Hydraulic Gradient
85.98

Elapsed Time minutes	cc's	K cm/sec
39.0	0.20	2.23E-08
30.0	0.20	2.90E-08
27.0	0.10	1.61E-08
102.0	0.50	2.13E-08

K Average = 2.22E-08 cm/s

PERMEABILITY TEST BY BACK PRESSURE CONSTANT-HEAD

Chemical Waste Management RFI Phase II
Chicago Incinerator 13963-052

Boring D-1
Sample at 26-28 feet

	Initial	Final
Wet Density pcf	127.5	128.0
Dry density pcf	103.7	105.3
% Moisture	23.0	21.5

Height Initial	3.130		673.4 Wet soil and dish
Diameter Initial	2.860		547.7 Dry soil and dish
Area Initial	6.421		0 dish only
Volume Initial	329.60		673.4 Ws Initial
Initial dial	1.039		665.4 Final Ws
Final dial	1.059		547.7 Weight solids
Initial cc/in res	0.144		
Final cc/in res.	0.301		
Height Final	3.110	7.899 cm	
Diameter Final	2.847		
Area Final	6.363	41.083 cm^2	
Volume Final	324.53		
Height change	-0.02		
cc/in reser.	0.011		
Volume change	-14.273		
Cell Change	9.2	@ 56 psi	
Net Volume Change	-5.073		
h= T/B PREss. diff	9	630.90 cm	

Standard Water .005 N CaSO4

Hydraulic Gradient
79.87

Elapsed Time minutes	cc's	K cm/sec
5.0	0.30	2.84E-07
26.0	1.30	2.36E-07
47.0	1.90	1.91E-07
34.0	1.60	2.23E-07

K Average = 2.33E-07 cm/s

PERMEABILITY TEST BY BACK PRESSURE CONSTANT-HEAD

Chemical Waste Management RFI Phase II
Chicago Incinerator 13963-052

Boring D-1
Sample at 34-36 feet

	Initial	Final
Wet Density pcf	138.0	138.7
Dry density pcf	124.4	124.0
% Moisture	11.0	11.9

Height Initial	3.020		244.9 Wet soil and dish
Diameter Initial	2.416		225 Dry soil and dish
Area Initial	4.582		43.6 dish only
Volume Initial	226.94		501.9 Ws Initial
Initial dial	1.459		505.9 Final Ws
Final dial	1.466		452.3 Weight solids
Initial cc/in res	-0.468		
Final cc/in res.	-0.375		
Height Final	3.013	7.653 cm	
Diameter Final	2.423		
Area Final	4.608	29.751 cm^2	
Volume Final	227.69		
Height change	-0.007		
cc/in reser.	0.011		
Volume change	-8.455		
Cell Change	9.2	@ 56 psi	
Net Volume Change	0.745		
h= T/B PREss. diff	9	630.90 cm	

Standard Water .005 N CaSO4

Hydraulic Gradient
82.44

Elapsed Time minutes	cc's	K cm/sec
44.0	0.20	2.88E-08
1188.0	1.80	9.59E-09
147.0	0.60	2.58E-08
204.0	0.90	2.79E-08

K Average = 2.30E-08 cm/s

PERMEABILITY TEST BY BACK PRESSURE CONSTANT-HEAD

Chemical Waste Management RFI Phase II
Chicago Incinerator 13963-052

Boring D-1
Sample at 54-56 feet

	Initial	Final
Wet Density pcf	138.3	139.4
Dry density pcf	124.7	124.7
% Moisture	10.9	11.7

Height Initial	3.000		209.9	Wet soil and dish
Diameter Initial	2.416		193.5	Dry soil and dish
Area Initial	4.582		43.7	dish only
Volume Initial	225.44		499.5	Ws Initial
Initial dial	1.421		503.1	Final Ws
Final dial	1.43		450.2	Weight solids
Initial cc/in res	-0.441			
Final cc/in res.	-0.33			
Height Final	2.991	7.597 cm		
Diameter Final	2.419			
Area Final	4.594	29.662 cm^2		
Volume Final	225.35			
Height change	-0.009			
cc/in reser.	0.011			
Volume change	-10.091			
Cell Change	10	@ 66 psi		
Net Volume Change	-0.091			
h= T/B PREss. diff	9	630.90 cm		

Standard Water .005 N CaSO4

Hydraulic Gradient
83.04

Elapsed Time minutes	cc's	K cm/sec
88.0	0.10	7.16E-09
242.0	0.30	7.81E-09
845.0	1.10	8.20E-09
82.0	0.10	7.68E-09

K Average = 7.71E-09 cm/s

PERMEABILITY TEST BY BACK PRESSURE CONSTANT-HEAD

Chemical Waste Management RFI Phase II
Chicago Incinerator 13963-052

Boring D-2
Sample at 17 - 19 feet

	Initial	Final
Wet Density pcf	128.5	132.6
Dry density pcf	107.0	110.1
% Moisture	20.1	20.4

Height Initial	3.060		285.1 Wet soil and dish
Diameter Initial	2.855		244.7 Dry soil and dish
Area Initial	6.399		43.7 dish only
Volume Initial	321.11		660.9 Ws Initial
Initial dial	1.428		662.5 Final Ws
Final dial	1.441		550.3 Weight solids
Initial cc/in res	0.165		
Final cc/in res.	0.367		
Height Final	3.047	7.739 cm	
Diameter Final	2.820		
Area Final	6.242	40.306 cm^2	
Volume Final	311.94		
Height change	-0.013		
cc/in reser.	0.011		
Volume change	-18.364		
Cell Change	9.2	@ 56 psi	
Net Volume Change	-9.164		
h= T/B PREss. diff	9	630.90 cm	

Standard Water .005 N CaSO4

Hydraulic Gradient
81.52

Elapsed Time minutes	cc's	K cm/sec
43.0	0.40	4.39E-08
36.0	0.30	3.94E-08
53.0	0.50	4.46E-08
37.0	0.30	3.83E-08

K Average = 4.15E-08 cm/s

PERMEABILITY TEST BY BACK PRESSURE CONSTANT-HEAD

Chemical Waste Management RFI Phase II
Chicago Incinerator 13963-052

Boring D-2
Sample at 27-29 feet

	Initial	Final
Wet Density pcf	129.8	129.5
Dry density pcf	108.1	107.5
% Moisture	20.1	20.4

Height Initial	3.080		252.3 Wet soil and dish
Diameter Initial	2.840		229.1 Dry soil and dish
Area Initial	6.331		113.7 dish only
Volume Initial	319.82		665.2 Ws Initial
Initial dial	0.781		667 Final Ws
Final dial	0.798		553.9 Weight solids
Initial cc/in res	0.161		
Final cc/in res.	0.244		
Height Final	3.063	7.780 cm	
Diameter Final	2.855		
Area Final	6.400	41.320 cm^2	
Volume Final	321.47		
Height change	-0.017		
cc/in reser.	0.011		
Volume change	-7.545		
Cell Change	9.2	@ 56 psi	
Net Volume Change	1.655		
h= T/B PREss. diff	9	630.90 cm	

Standard Water .005 N CaSO4

Hydraulic Gradient
81.09

Elapsed Time minutes	cc's	K cm/sec
22.0	0.20	4.21E-08
45.0	0.30	3.09E-08
19.0	0.10	2.44E-08
190.0	0.80	1.95E-08

K Average = 2.92E-08 cm/s

PERMEABILITY TEST BY BACK PRESSURE CONSTANT-HEAD

Chemical Waste Management RFI Phase II
Chicago Incinerator 13963-052

Boring D-2
Sample at 57-59 feet

	Initial	Final
Wet Density pcf	124.8	140.1
Dry density pcf	112.2	123.6
% Moisture	11.2	13.3

Height Initial	3.140		221.5 Wet soil and dish
Diameter Initial	1.550		210.6 Dry soil and dish
Area Initial	1.886		113.5 dish only
Volume Initial	97.12		194.1 Ws Initial
Initial dial	0.488		197.8 Final Ws
Final dial	0.483		174.5 Weight solids
Initial cc/in res	0		
Final cc/in res.	18.2		
Height Final	3.145	7.988 cm	
Diameter Final	1.475		
Area Final	1.708	11.031 cm^2	
Volume Final	88.12		
Height change	0.005		
cc/in reser.	0.011		
Volume change	-18.200		
Cell Change	9.2	@ 56 psi	
Net Volume Change	-9.000		
h= T/B PREss. diff	9	630.90 cm	

Standard Water .005 N CaSO4

Hydraulic Gradient
78.98

Elapsed Time minutes	cc's	K cm/sec
17.0	0.30	3.14E-07
185.0	1.80	1.73E-07
52.0	0.60	2.06E-07
82.0	1.00	2.17E-07

K Average = 2.28E-07 cm/s

PERMEABILITY TEST BY BACK PRESSURE CONSTANT-HEAD

Chemical Waste Management RFI Phase II
Chicago Incinerator 13963-052

Boring D-3
Sample at 22-24 feet

	Initial	Final
Wet Density pcf	131.0	130.3
Dry density pcf	106.7	106.8
% Moisture	22.8	22.0

Height Initial	2.800		178.6 Wet soil and dish
Diameter Initial	2.830		166.5 Dry soil and dish
Area Initial	6.287		113.4 dish only
Volume Initial	288.70		605.8 Ws Initial
Initial dial	1.083		601.7 Final Ws
Final dial	1.089		493.4 Weight solids
Initial cc/in res	0.17		
Final cc/in res.	0.275		
Height Final	2.794	7.097 cm	
Diameter Final	2.831		
Area Final	6.293	40.632 cm^2	
Volume Final	288.35		
Height change	-0.006		
cc/in reser.	0.011		
Volume change	-9.545		
Cell Change	9.2	@ 56 psi	
Net Volume Change	-0.345		
h= T/B PREss. diff	9	630.90 cm	

Standard Water .005 N CaSO4

Hydraulic Gradient
88.90

Elapsed Time minutes	cc's	K cm/sec
25.0	0.30	5.15E-08
44.0	0.30	2.93E-08
1189.0	4.50	1.63E-08
84.0	0.40	2.05E-08

K Average = 2.94E-08 cm/s

PERMEABILITY TEST BY BACK PRESSURE CONSTANT-HEAD

Chemical Waste Management RFI Phase II
Chicago Incinerator 13963-052

Boring D-3
Sample at 30.5-31 feet

	Initial	Final
Wet Density pcf	128.4	124.7
Dry density pcf	105.7	105.2
% Moisture	21.5	18.6

Height Initial	3.280		222.4 Wet soil and dish
Diameter Initial	2.371		190.8 Dry soil and dish
Area Initial	4.413		43.5 dish only
Volume Initial	237.38		488.3 Ws Initial
Initial dial	0.763		476.7 Final Ws
Final dial	0.78		402.0 Weight solids
Initial cc/in res	-0.458		
Final cc/in res.	-0.361		
Height Final	3.263	8.288 cm	
Diameter Final	2.383		
Area Final	4.458	28.784 cm^2	
Volume Final	238.57		
Height change	-0.017		
cc/in reser.	0.011		
Volume change	-8.818		
Cell Change	10	@ 66 psi	
Net Volume Change	1.182		
h= T/B PREss. diff	9	630.90 cm	

Standard Water .005 N CaSO4

Hydraulic Gradient
76.12

Elapsed Time minutes	cc's	K cm/sec
32.0	0.20	4.43E-08
53.0	0.20	2.67E-08
87.0	0.30	2.44E-08
78.0	0.30	2.72E-08

K Average = 3.07E-08 cm/s

PERMEABILITY TEST BY BACK PRESSURE CONSTANT-HEAD

Chemical Waste Management RFI Phase II
Chicago Incinerator 13963-052

Boring D-3
Sample at 56-58 feet

	Initial	Final
Wet Density pcf	123.1	134.3
Dry density pcf	109.0	117.8
% Moisture	12.9	14.0

Height Initial	3.160		176.1 Wet soil and dish
Diameter Initial	1.959		160.9 Dry soil and dish
Area Initial	3.013		43.4 dish only
Volume Initial	156.12		307.9 Ws Initial
Initial dial	0.551		310.8 Final Ws
Final dial	0.572		272.6 Weight solids
Initial cc/in res	0		
Final cc/in res.	20.9		
Height Final	3.139	7.973 cm	
Diameter Final	1.890		
Area Final	2.805	18.114 cm^2	
Volume Final	144.42		
Height change	-0.021		
cc/in reser.	0.011		
Volume change	-20.900		
Cell Change	9.2	@ 56 psi	
Net Volume Change	-11.700		
h= T/B PREss. diff	9	630.90 cm	

Standard Water .005 N CaSO4

Hydraulic Gradient
79.13

Elapsed Time minutes	cc's	K cm/sec
46.0	4.00	9.41E-07
17.0	1.30	8.28E-07
11.0	0.90	8.86E-07
12.0	1.00	9.02E-07

K Average = 8.89E-07 cm/s

PERMEABILITY TEST BY BACK PRESSURE CONSTANT-HEAD

Chemical Waste Management RFI Phase II
Chicago Incinerator 13963-052

Boring D-3
Sample at 72-74 feet

	Initial	Final
Wet Density pcf	139.9	146.2
Dry density pcf	131.0	131.1
% Moisture	6.8	11.5

Height Initial	3.550		463.7 Wet soil and dish
Diameter Initial	2.489		441 Dry soil and dish
Area Initial	4.863		108.8 dish only
Volume Initial	283.13		634.6 Ws Initial
Initial dial	0.974		662.1 Final Ws
Final dial	0.944		594.0 Weight solids
Initial cc/in res	0		
Final cc/in res.	9.6		
Height Final	3.580	9.093 cm	
Diameter Final	2.477		
Area Final	4.816	31.093 cm^2	
Volume Final	282.73		
Height change	0.03		
cc/in reser.	0.011		
Volume change	-9.600		
Cell Change	9.2	@ 56 psi	
Net Volume Change	-0.400		
h= T/B PREss. diff	14	981.40 cm	

Standard Water .005 N CaSO4

Hydraulic Gradient
107.93

Elapsed Time minutes	cc's	K cm/sec
90.0	0.10	5.14E-09
84.0	0.10	5.50E-09
1311.0	1.00	3.53E-09
124.0	0.15	5.59E-09

K Average = 4.94E-09 cm/s

PERMEABILITY TEST BY BACK PRESSURE CONSTANT-HEAD

Chemical Waste Management RFI Phase II
Chicago Incinerator 13963-052

Boring C-2R
Sample at 22-24 feet

	Initial	Final
Wet Density pcf	127.4	128.9
Dry density pcf	106.2	107.1
% Moisture	19.9	20.4

Height Initial	3.020		652.2 Wet soil and dish
Diameter Initial	2.867		543.9 Dry soil and dish
Area Initial	6.452		0 dish only
Volume Initial	319.58		652.2 Ws Initial
Initial dial	1.475		654.8 Final Ws
Final dial	1.494		543.9 Weight solids
Initial cc/in res	0.143		
Final cc/in res.	0.262		
Height Final	3.001	7.623 cm	
Diameter Final	2.865		
Area Final	6.442	41.595 cm^2	
Volume Final	317.06		
Height change	-0.019		
cc/in reser.	0.011		
Volume change	-10.818		
Cell Change	8.3	@ 46 psi	
Net Volume Change	-2.518		
h= T/B PREss. diff	9	630.90 cm	

Standard Water .005 N CaSO4

Hydraulic Gradient
82.77

Elapsed Time minutes	cc's	K cm/sec
16.0	0.10	2.82E-08
20.0	0.20	4.51E-08
10.0	0.10	4.51E-08
20.0	0.20	4.51E-08

K Average = 4.08E-08 cm/s

PERMEABILITY TEST BY BACK PRESSURE CONSTANT-HEAD

Chemical Waste Management RFI Phase II
Chicago Incinerator 13963-052

Boring C-2R
Sample at 31 - 31.5 feet

	Initial	Final
Wet Density pcf	125.8	133.3
Dry density pcf	105.3	110.3
% Moisture	19.5	20.8

Height Initial	3.130		160.4	Wet soil and dish
Diameter Initial	2.375		141.3	Dry soil and dish
Area Initial	4.428		43.6	dish only
Volume Initial	227.29		458.2	Ws Initial
Initial dial	1.039		463.1	Final Ws
Final dial	1.059		383.3	Weight solids
Initial cc/in res	0			
Final cc/in res.	19.6			
Height Final	3.110	7.899 cm		
Diameter Final	2.327			
Area Final	4.252	27.457 cm^2		
Volume Final	216.89			
Height change	-0.02			
cc/in reser.	0.011			
Volume change	-19.600			
Cell Change	9.2	@ 56 psi		
Net Volume Change	-10.400			
h= T/B PREss. diff	9	630.90 cm		

Standard Water .005 N CaSO4

Hydraulic Gradient
79.87

Elapsed Time minutes	cc's	K cm/sec
1.0	2.20	1.56E-05
1.0	2.30	1.63E-05
1.0	2.20	1.56E-05
1.0	2.20	1.56E-05

K Average = 1.57E-05 cm/s

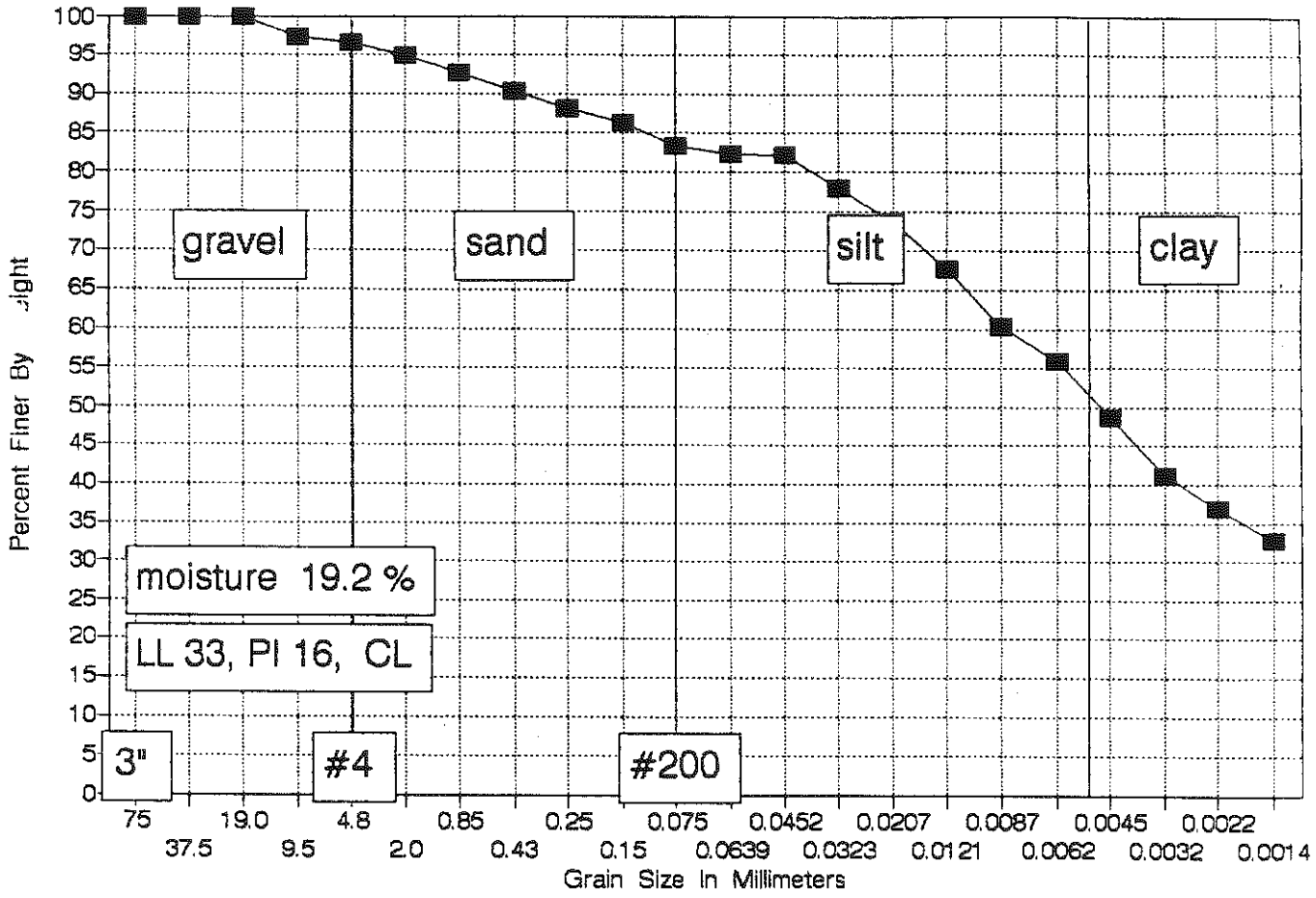
Manufactured By EconoPrint, Inc., Madison, WI

Printed On Recycled Paper

APPENDIX I
SOILS LAB DATA

GRADATION CURVE

Boring C-1 sample at 27 to 29 feet



Chemical Waste Management RFI Phase II

Boring C-1
Sample at 27 to 29 feet

Wt soil and dish	318
Dry soil & dish	283.6
Dish	104.3

Moisture Content = 19.2

SIEVE & HYDROMETER ANALYSIS

SIEVE PORTION

Dry weight of TOTAL sample= 179.3
sample split -#10 sieve = 32.22

Sieve #	Weight Retained	Total Percent Finer
1.5 inch		100.00%
3/4 inch	0	100.00%
3/8 inch	4.71	97.37%
# 4	6.3	96.49%
# 10	9.31	94.81%
# 20	0.72	92.69%
# 40	1.47	90.48%
# 60	2.24	88.22%
# 100	2.92	86.22%
# 200	3.94	83.21%

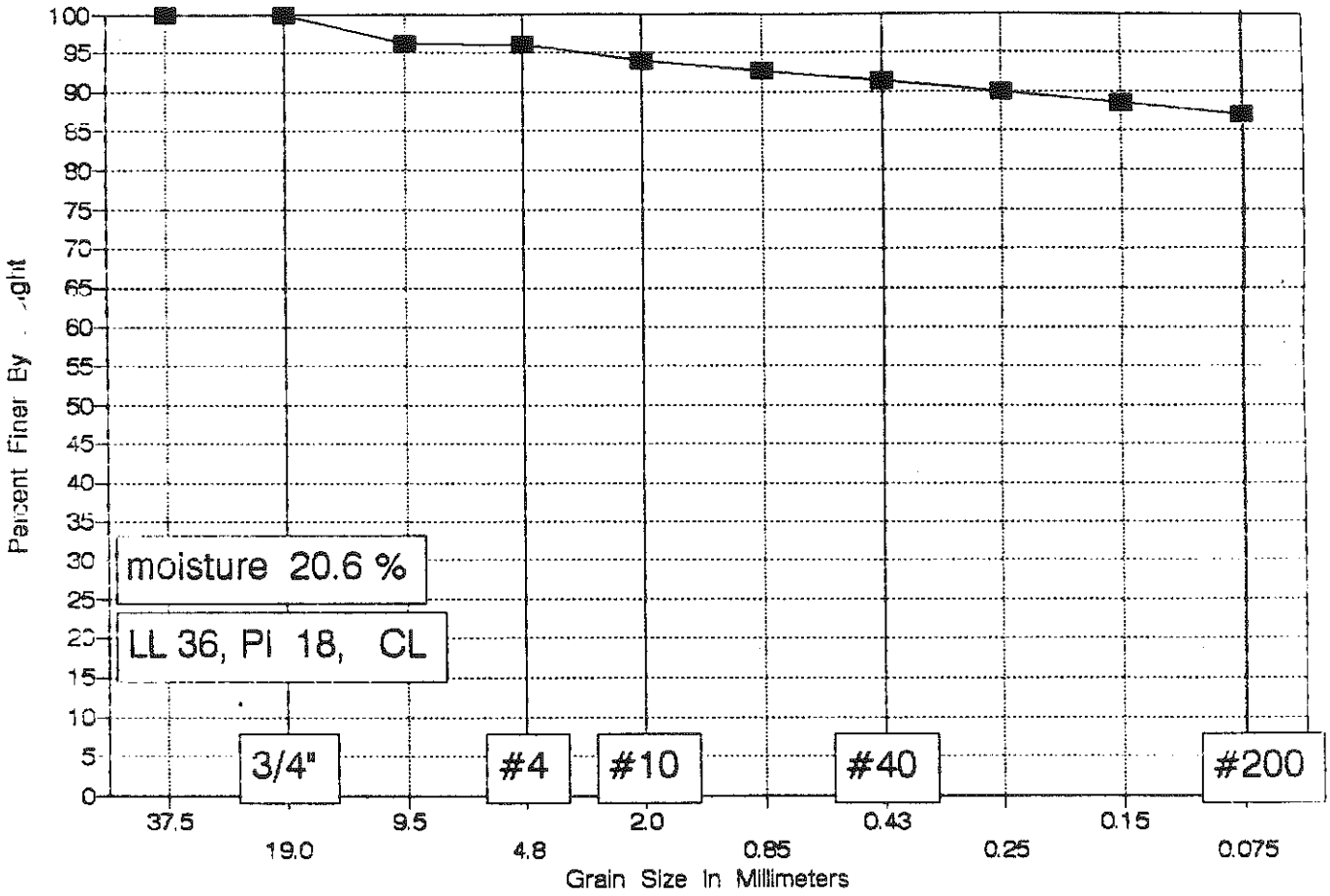
Constants this test
Gs= 2.65 20c=.01365 21c=.01348 22c=.01332
18c=.01399 19c=.01382
When 5 grams of Sodium Hexametaphosphate used correction = 6

HYDROMETER ANALYSIS

Elapsed time	Tc	R'	Zr	Particle Dia. mm	Percent Partial	Total Percent Finer
0.5	19	34	10.69	0.0639	86.90	82.39
1	19	33.9	10.71	0.0452	86.59	82.10
2	19	32.5	10.94	0.0323	82.25	77.98
5	19	31	11.19	0.0207	77.59	73.56
15	19	29	11.52	0.0121	71.38	67.68
30	19	26.5	11.93	0.0087	63.63	60.32
60	19	25	12.18	0.0062	58.97	55.91
120	19	22.5	12.59	0.0045	51.21	48.55
250	19	20	13.00	0.0032	43.45	41.20
500	19	18.5	13.25	0.0022	38.80	36.78
1397	20	17.1	13.48	0.0014	34.45	32.66

GRADATION CURVE

Boring C-1 sample 4x at 31 to 33 feet



JWM RFI Phase II

Boring C-1
Sample 4X
Depth 31-33 feet
Moisture Content = 20.6

Wt soil and dish	274.5
Dry soil & dish	245.6
Dish	105.2

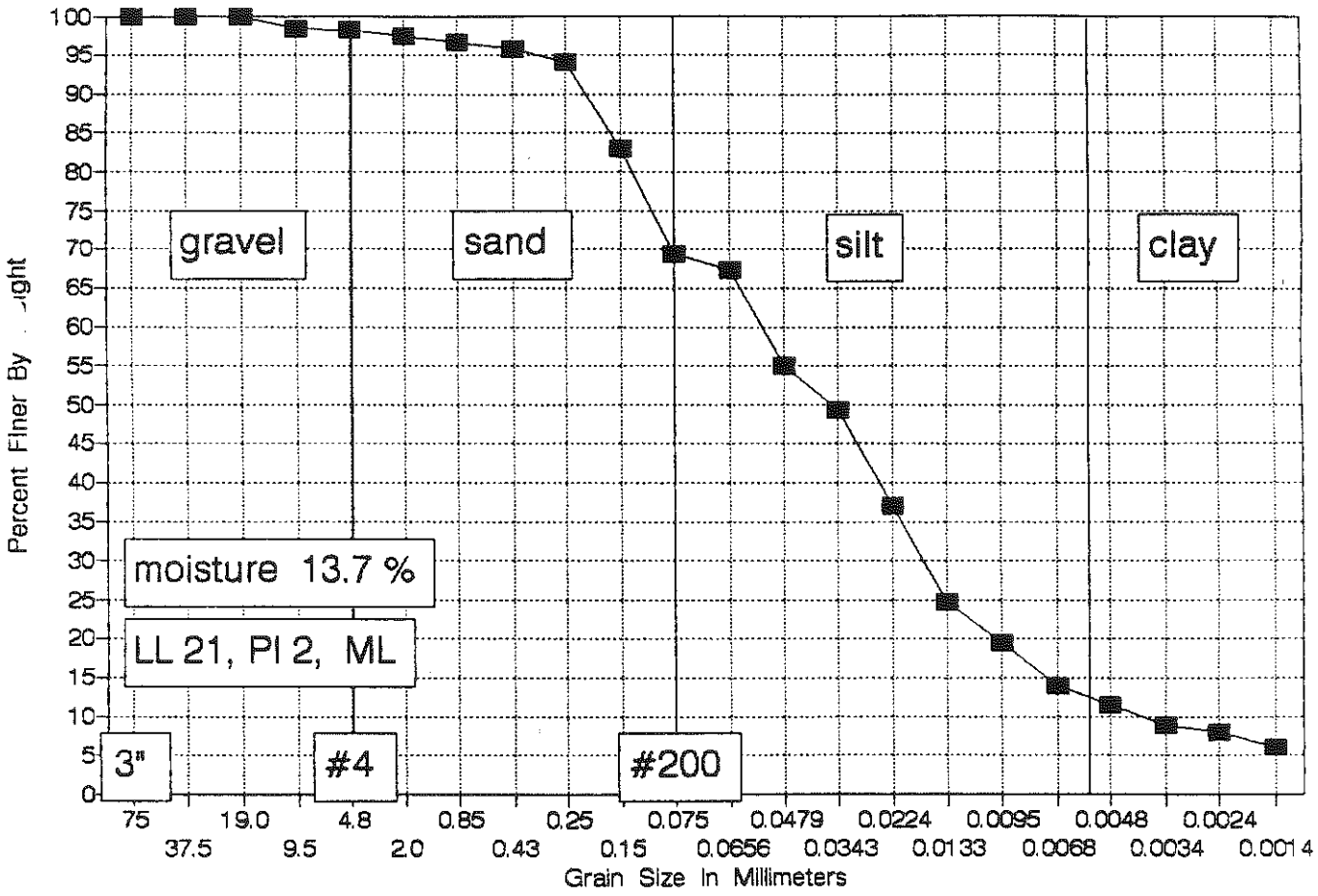
SIEVE ANALYSIS

Dry weight of total sample= 140.4

Sieve #	weight retained	% Finer		
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	0	100.00%	100.0	19.0
3/8 inch	5.4	96.15%	96.2	9.5
# 4	5.6	96.01%	96.0	4.8
# 10	8.4	94.02%	94.0	2.0
# 20	10.3	92.66%	92.7	0.85
# 40	12.1	91.38%	91.4	0.43
# 60	14.1	89.96%	90.0	0.25
# 100	16.1	88.53%	88.5	0.15
# 200	18.2	87.04%	87.0	0.075

GRADATION CURVE

Boring C-1 sample at 37 to 38.5 feet



Chemical Waste Management RFI Phase II

Boring C-1
Sample at 37 to 38.5 feet

Wt soil and dish	411.6
Dry soil & dish	374.7
Dish	105.3

Moisture Content = 13.7

SIEVE & HYDROMETER ANALYSIS

SIEVE PORTION

Dry weight of TOTAL sample= 269.4
sample split -#10 sieve = 35.54

Sieve #	Weight Retained	Total Percent Finer
1.5 inch		100.00%
3/4 inch	0	100.00%
3/8 inch	4.03	98.50%
# 4	4.67	98.27%
# 10	6.8	97.48%
# 20	0.24	96.82%
# 40	0.64	95.72%
# 60	1.22	94.13%
# 100	5.3	82.94%
# 200	10.26	69.34%

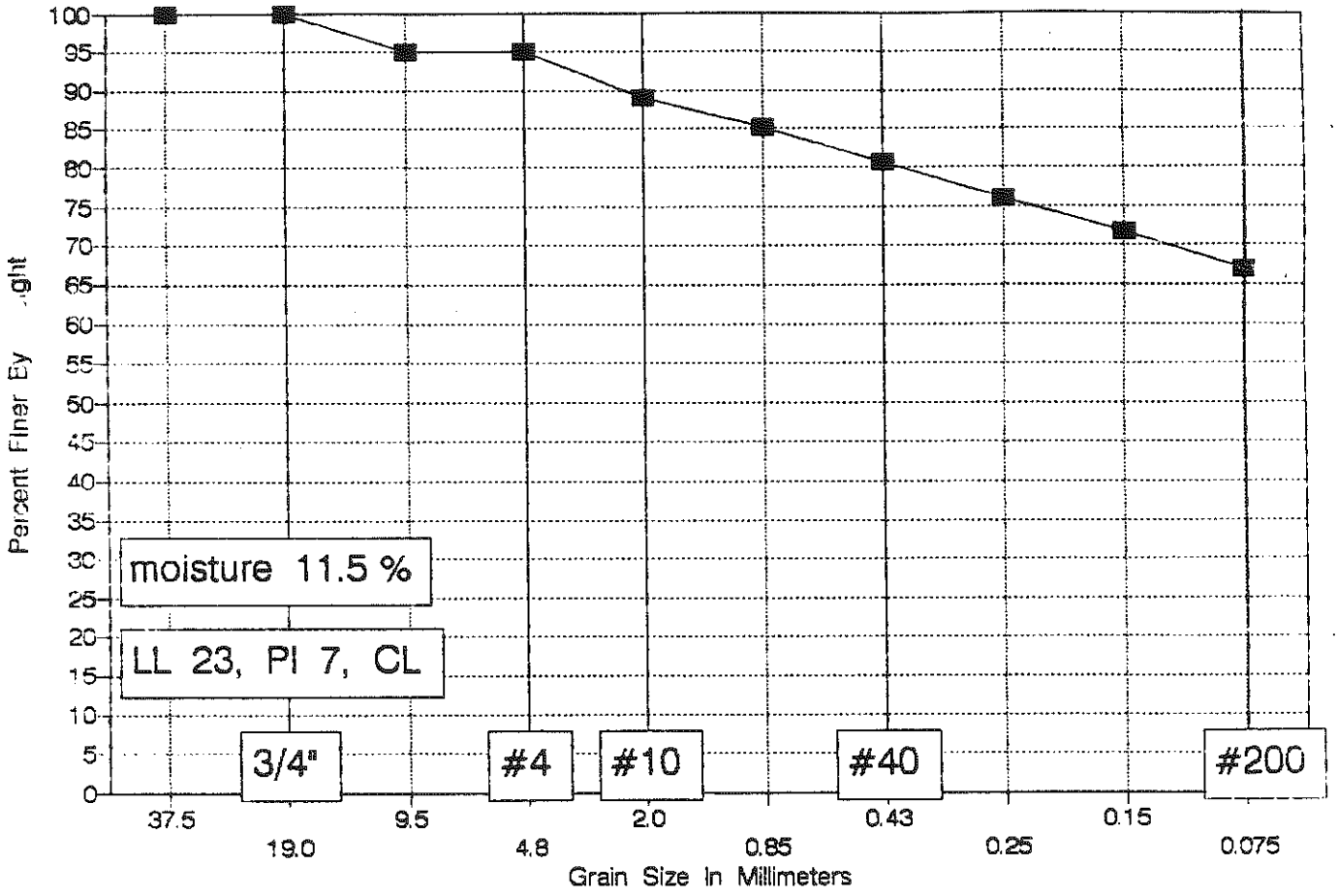
Constants this test
Gs= 2.65 20c=.01365 21c=.01348 22c=.01332
18c=.01399 19c=.01382
When 5 grams of Sodium
Hexametaphosphate used correction
= 6

HYDROMETER ANALYSIS

Elapsed time	Tc	R'	Zr	Particle Dia. mm	Percent Partial	Total Percent Finer
0.5	19	30.5	11.27	0.0656	68.94	67.20
1	19	26	12.01	0.0479	56.27	54.85
2	19	24	12.34	0.0343	50.65	49.37
5	19	19.5	13.08	0.0224	37.99	37.03
15	19	15	13.83	0.0133	25.32	24.68
30	19	13.1	14.14	0.0095	19.98	19.47
60	19	11.1	14.47	0.0068	14.35	13.99
120	19	10.2	14.62	0.0048	11.82	11.52
250	19	9.2	14.78	0.0034	9.00	8.78
500	19	8.9	14.83	0.0024	8.16	7.95
1398	20	8.2	14.95	0.0014	6.19	6.03

GRADATION CURVE

Boring C-1 sample 11 at 45 to 47 feet



CWM RFI Phase II

Boring C-1
Sample 11
Depth 45-47 feet
Moisture Content = 11.5

Wt soil and dish 312.8
Dry soil & dish 291.1
Dish 103

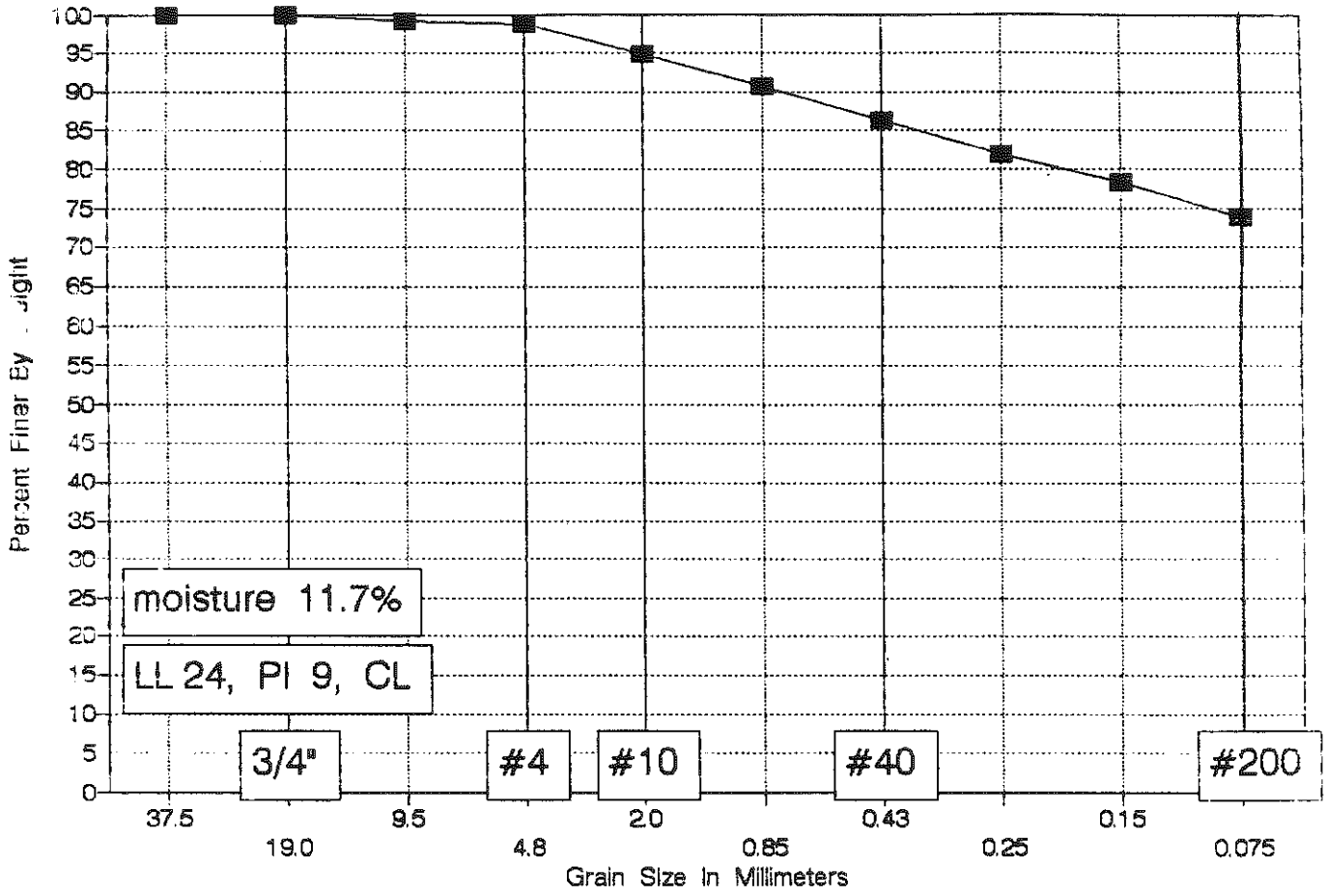
SIEVE ANALYSIS

Dry weight of total sample= 188.1

Sieve #	weight retained	% Finer		
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	0	100.00%	100.0	19.0
3/8 inch	9.4	95.00%	95.0	9.5
# 4	9.4	95.00%	95.0	4.8
# 10	20.5	89.10%	89.1	2.0
# 20	27.9	85.17%	85.2	0.85
# 40	36.4	80.65%	80.6	0.43
# 60	45.2	75.97%	76.0	0.25
# 100	53.2	71.72%	71.7	0.15
# 200	62.4	66.83%	66.8	0.075

GRADATION CURVE

Boring C-1 sample 15 at 53 to 55 feet



JWM RFI Phase II

Boring C-1
Sample 15
Depth 53-55 feet
Moisture Content = 11.7

Wt soil and dish 300.1
Dry soil & dish 280
Dish 107.7

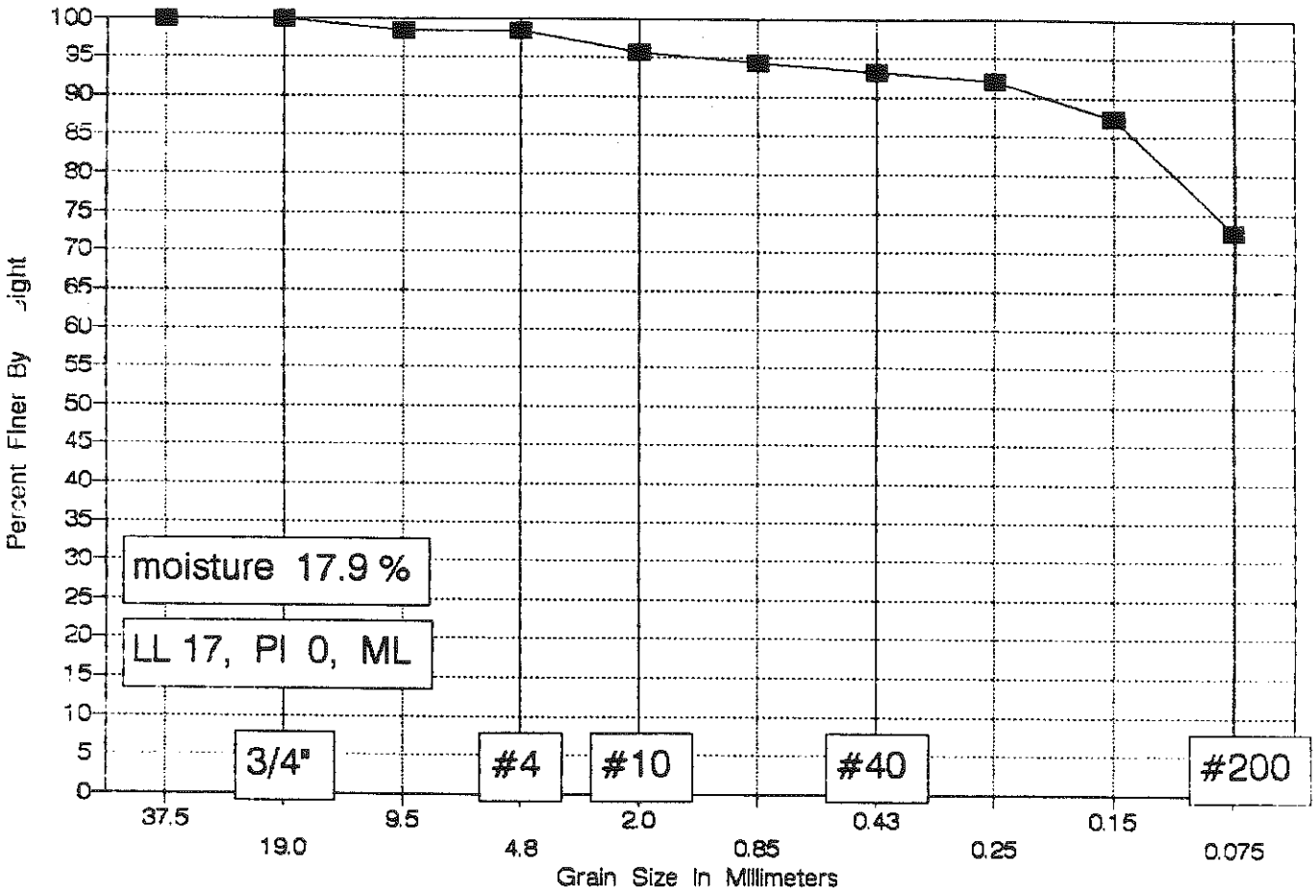
SIEVE ANALYSIS

Dry weight of total sample= 172.3

Sieve #	weight retained	% Finer		
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	0	100.00%	100.0	19.0
3/8 inch	1.41	99.18%	99.2	9.5
# 4	2.01	98.83%	98.8	4.8
# 10	8.8	94.89%	94.9	2.0
# 20	15.94	90.75%	90.7	0.85
# 40	23.72	86.23%	86.2	0.43
# 60	31.03	81.99%	82.0	0.25
# 100	37.56	78.20%	78.2	0.15
# 200	45.13	73.81%	73.8	0.075

GRADATION CURVE

Boring C-1 sample 18 at 59 to 61 feet



CWM RFI Phase II

Boring C-1
Sample 18
Depth 59-61 feet
Moisture Content = 17.9

Wt soil and dish 231.8
Dry soil & dish 212.8
Dish 106.5

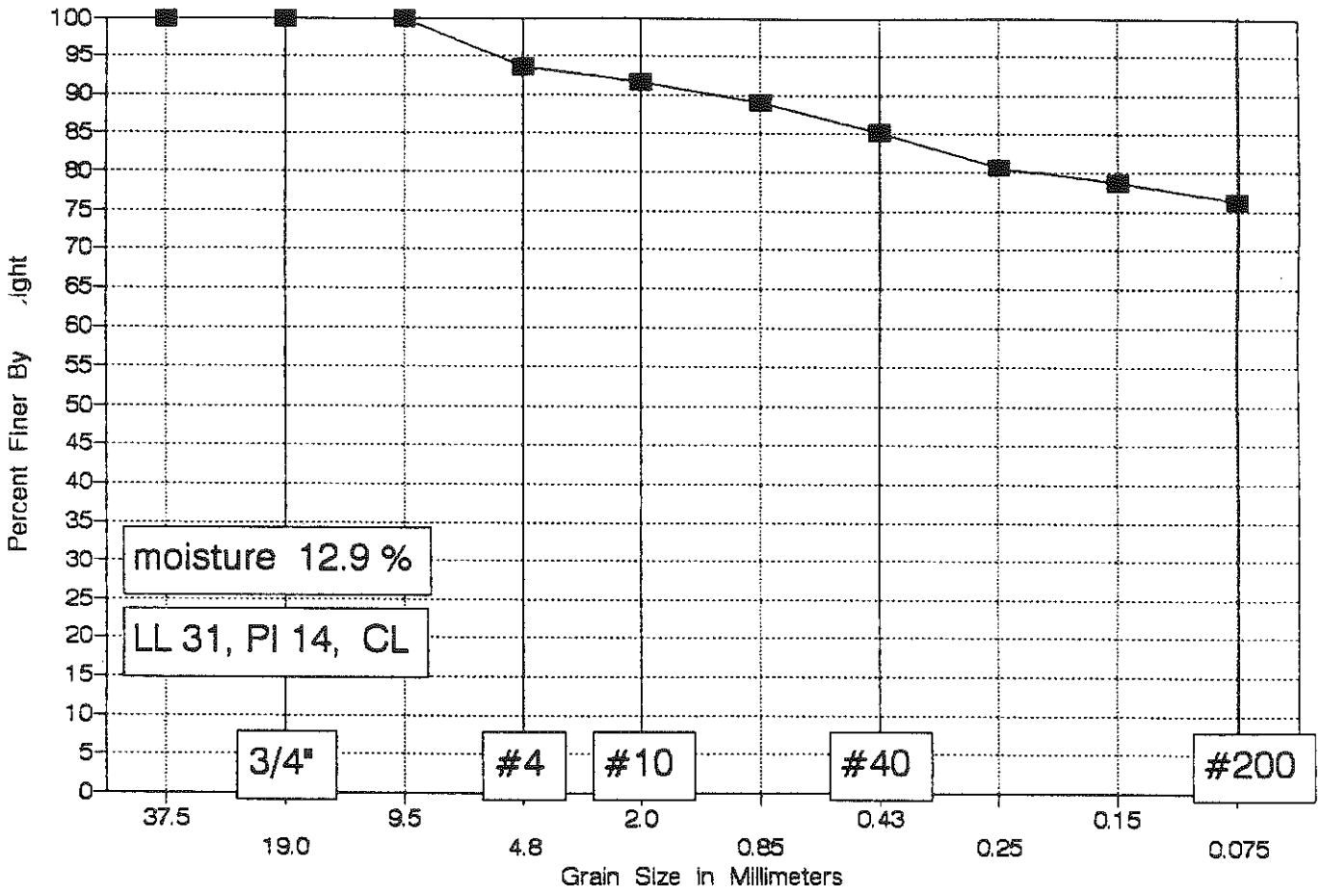
SIEVE ANALYSIS

Dry weight of total sample= 106.3

Sieve #	weight retained	% Finer		
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	0	100.00%	100.0	19.0
3/8 inch	1.68	98.42%	98.4	9.5
# 4	1.68	98.42%	98.4	4.8
# 10	4.61	95.66%	95.7	2.0
# 20	5.99	94.37%	94.4	0.85
# 40	7.23	93.20%	93.2	0.43
# 60	8.45	92.05%	92.1	0.25
# 100	13.38	87.41%	87.4	0.15
# 200	29.1	72.62%	72.6	0.075

GRADATION CURVE

Boring C-1 sample at 69 to 71 feet



;WM RFI Phase II

Boring C-1
Sample ss
Depth 69-71 feet
Moisture Content = 12.9

Wt soil and dish 130.8
Dry soil & dish 128.8
Dish 113.3

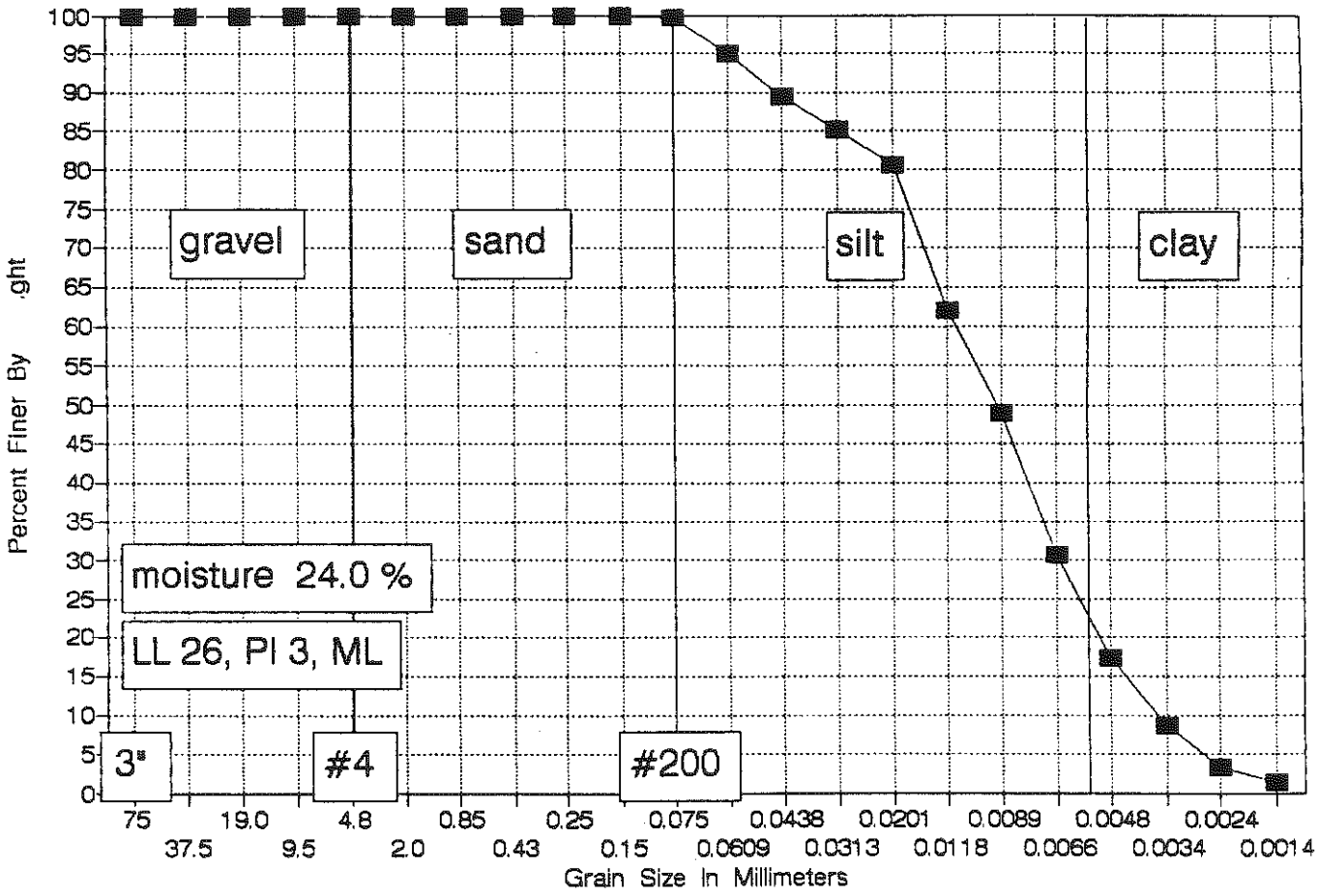
SIEVE ANALYSIS

Dry weight of total sample= 15.5

Sieve #	weight retained	% Finer		
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	0	100.00%	100.0	19.0
3/8 inch	0	100.00%	100.0	9.5
# 4	1	93.55%	93.5	4.8
# 10	1.3	91.61%	91.6	2.0
# 20	1.7	89.03%	89.0	0.85
# 40	2.3	85.16%	85.2	0.43
# 60	3	80.65%	80.6	0.25
# 100	3.3	78.71%	78.7	0.15
# 200	3.7	76.13%	76.1	0.075

GRADATION CURVE

Boring C-2 sample at 26 to 28 feet



Chemical Waste Management RFI Phase II

	Wt soil and dish	199.3
Boring C-2	Dry soil & dish	181.1
Sample at 26 to 28 feet	Dish	105.2

Moisture Content = 24.0

SIEVE & HYDROMETER ANALYSIS

SIEVE PORTION

Dry weight of TOTAL sample= 75.9
sample split -#10 sieve = 35.79

Sieve #	Weight Retained	Total Percent Finer
1.5 inch		100.00%
3/4 inch	0	100.00%
3/8 inch	0	100.00%
# 4	0	100.00%
# 10	0	100.00%
# 20	0.01	99.97%
# 40	0.04	99.89%
# 60	0.05	99.86%
# 100	0.06	99.83%
# 200	0.11	99.69%

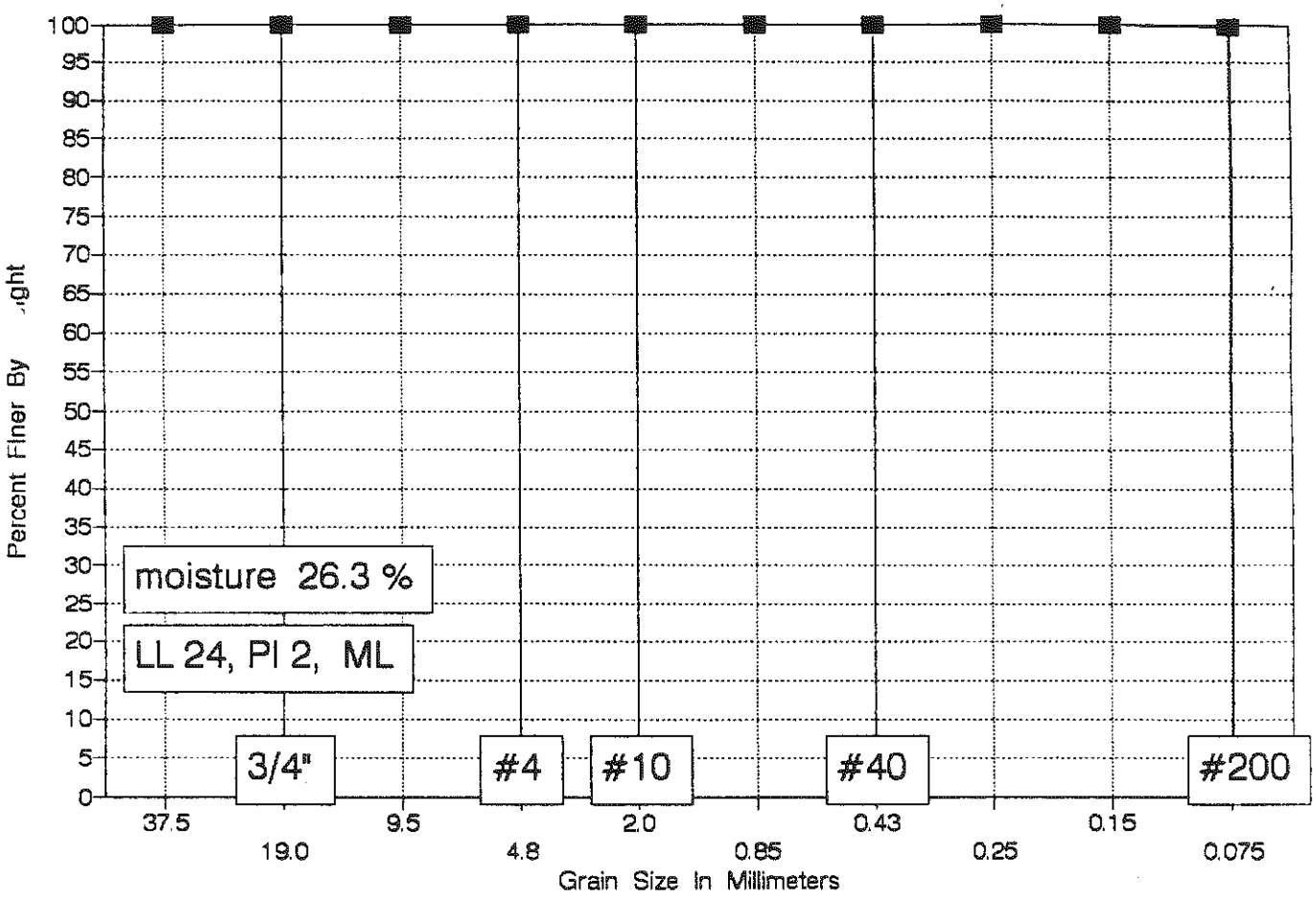
Constants this test
Gs= 2.65 20c=.01365 21c=.01348 22c=.01332
18c=.01399 19c=.01382
When 5 grams of Sodium Hexametaphosphate used correction = 6

HYDROMETER ANALYSIS

Elapsed time	Tc	R'	Zr	Particle Dia. mm	Percent Partial	Total Percent Finer
0.5	19	40	9.70	0.0609	95.00	95.00
1	19	38	10.03	0.0438	89.41	89.41
2	19	36.5	10.28	0.0313	85.22	85.22
5	19	34.9	10.54	0.0201	80.75	80.75
16	19	28.2	11.65	0.0118	62.03	62.03
30	19	23.5	12.42	0.0089	48.90	48.90
60	19	17	13.50	0.0066	30.73	30.73
120	19	12.2	14.29	0.0048	17.32	17.32
250	19	9.1	14.80	0.0034	8.66	8.66
500	19	7.2	15.11	0.0024	3.35	3.35
1399	20	6.5	15.23	0.0014	1.40	1.40

GRADATION CURVE

Boring C-2 sample 5 at 28 to 30 feet



JWM RFI Phase II

Boring C-2
Sample 5
Depth 28-30 feet
Moisture Content = 26.3

Wt soil and dish	188.5
Dry soil & dish	171.2
Dish	105.5

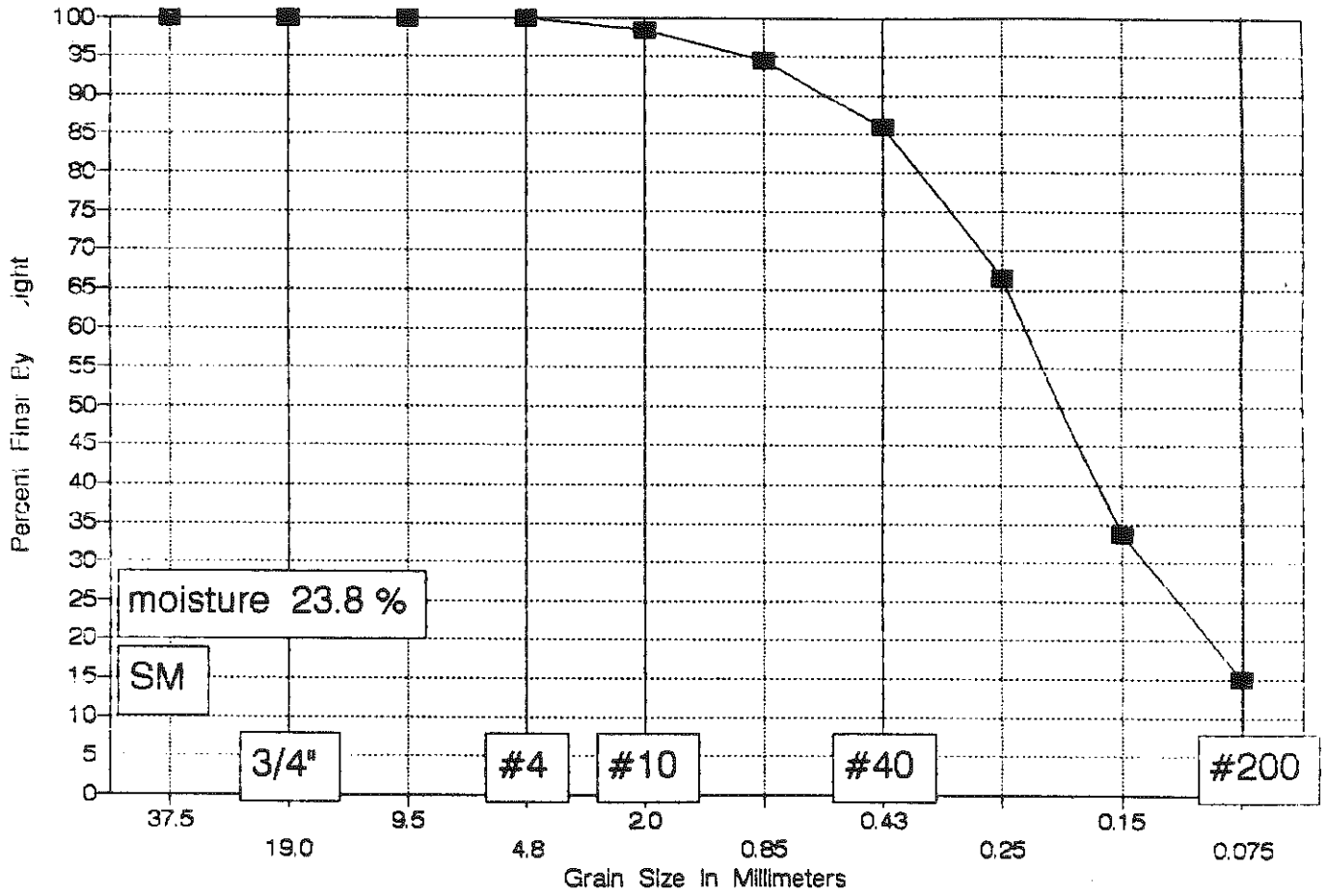
SIEVE ANALYSIS

Dry weight of total sample= 65.7

Sieve #	weight retained	% Finer		
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	0	100.00%	100.0	19.0
3/8 inch	0	100.00%	100.0	9.5
# 4	0	100.00%	100.0	4.8
# 10	0	100.00%	100.0	2.0
# 20	0	100.00%	100.0	0.85
# 40	0	100.00%	100.0	0.43
# 60	0	100.00%	100.0	0.25
# 100	0.02	99.97%	100.0	0.15
# 200	0.21	99.68%	99.7	0.075

GRADATION CURVE

Boring C-2 sample 6 at 30 to 32 feet



CWM RFI Phase II

Boring C-2
Sample 6
Depth 30-32 feet
Moisture Content = 23.8

Wt soil and dish 216.3
Dry soil & dish 195.7
Dish 109

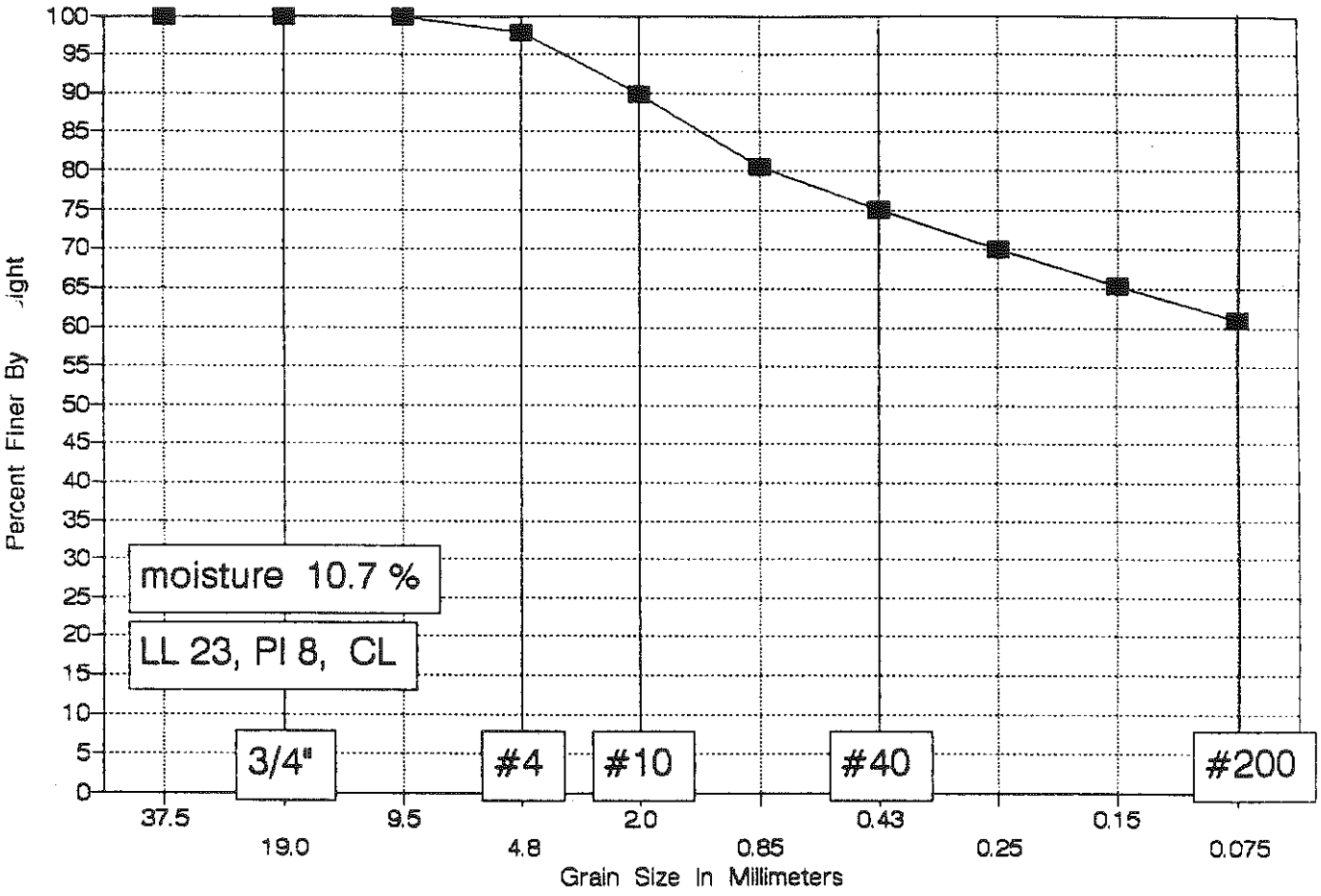
SIEVE ANALYSIS

Dry weight of total sample= 86.7

Sieve #	weight retained	% Finer		
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	0	100.00%	100.0	19.0
3/8 inch	0	100.00%	100.0	9.5
# 4	0	100.00%	100.0	4.8
# 10	1.4	98.39%	98.4	2.0
# 20	4.75	94.52%	94.5	0.85
# 40	12.23	85.89%	85.9	0.43
# 60	29.1	66.44%	66.4	0.25
# 100	57.5	33.68%	33.7	0.15
# 200	73.73	14.96%	15.0	0.075

GRADATION CURVE

Boring C-2 sample 9 at 36 to 38 feet



Boring	C-2	Wt soil and dish	251.5
Sample	9	Dry soil & dish	237.6
Depth	36-38	Dish	108.2

Moisture Content = 10.7

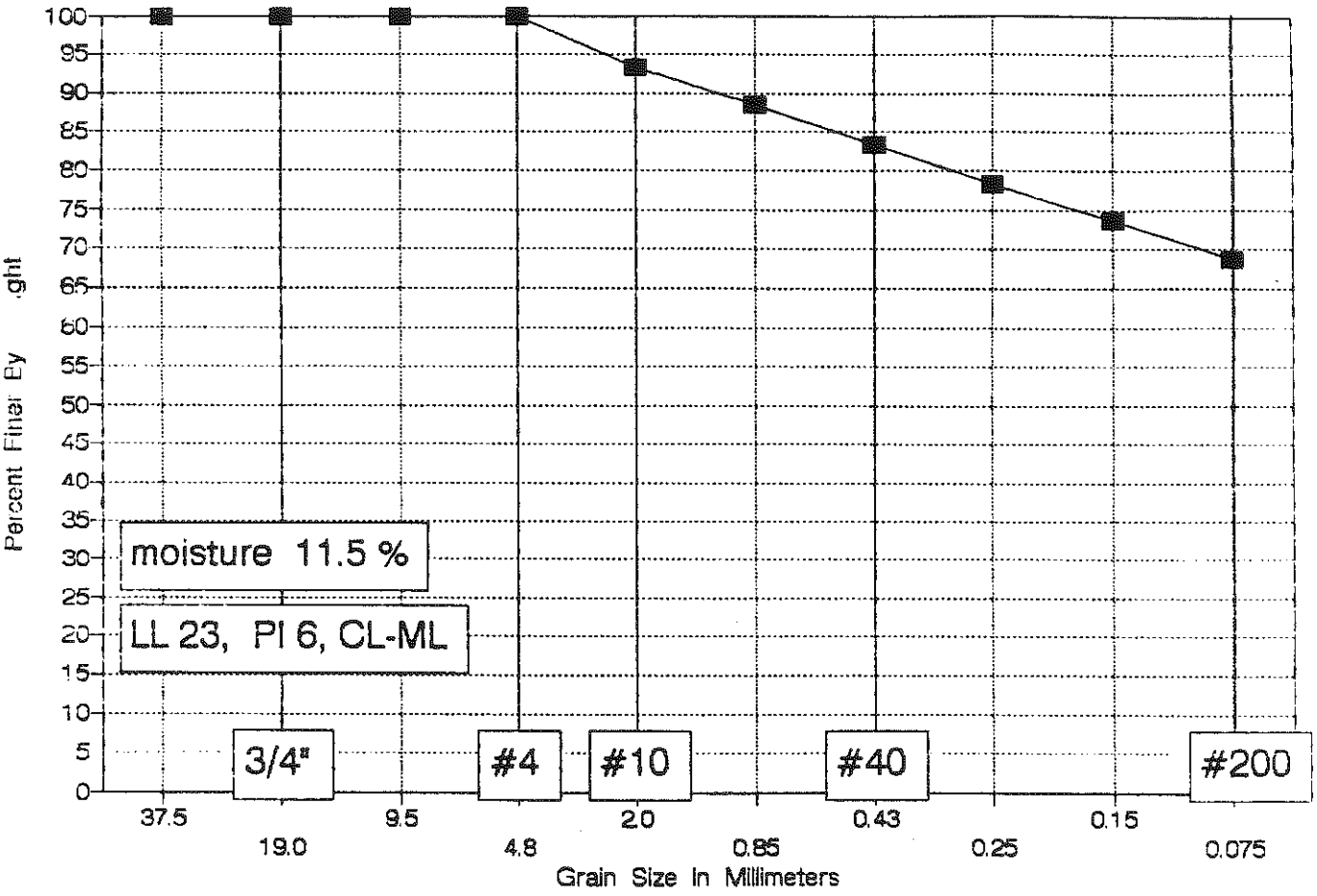
SIEVE ANALYSIS

Dry weight of total sample= 129.4

Sieve #	weight retained	% Finer		
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	0	100.00%	100.0	19.0
3/8 inch	0	100.00%	100.0	9.5
# 4	2.66	97.94%	97.9	4.8
# 10	13.04	89.92%	89.9	2.0
# 20	25.18	80.54%	80.5	0.85
# 40	32.33	75.02%	75.0	0.43
# 60	38.83	69.99%	70.0	0.25
# 100	44.76	65.41%	65.4	0.15
# 200	50.53	60.95%	61.0	0.075

GRADATION CURVE

Boring C-2 sample 13 at 44 to 46 feet



CWM RFI Phase II

Boring C-2
Sample 13
Depth 44-46 feet
Moisture Content = 11.5

Wt soil and dish 208.5
Dry soil & dish 198.1
Dish 108

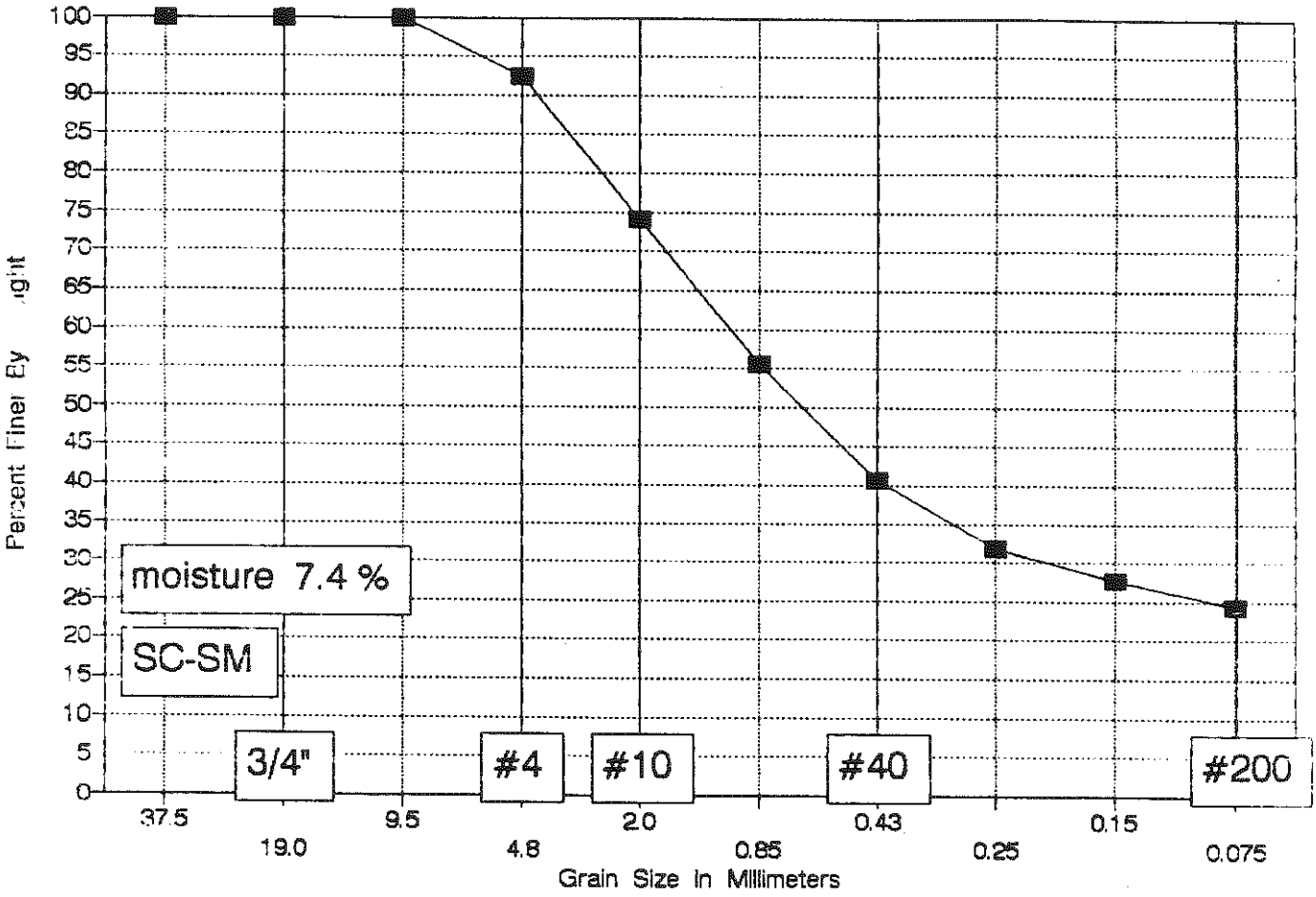
SIEVE ANALYSIS

Dry weight of total sample= 90.1

Sieve #	weight retained	% Finer		
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	0	100.00%	100.0	19.0
3/8 inch	0	100.00%	100.0	9.5
# 4	0	100.00%	100.0	4.8
# 10	6.03	93.31%	93.3	2.0
# 20	10.31	88.56%	88.6	0.85
# 40	15.06	83.29%	83.3	0.43
# 60	19.66	78.18%	78.2	0.25
# 100	23.74	73.65%	73.7	0.15
# 200	28.17	68.73%	68.7	0.075

GRADATION CURVE

Boring C-2 sample 15 at 48 to 50 feet



CWM RFI Phase II

Boring C-2
Sample 15
Depth 48-50 feet
Moisture Content = 7.4

Wt soil and dish	243.4
Dry soil & dish	233.3
Dish	96.3

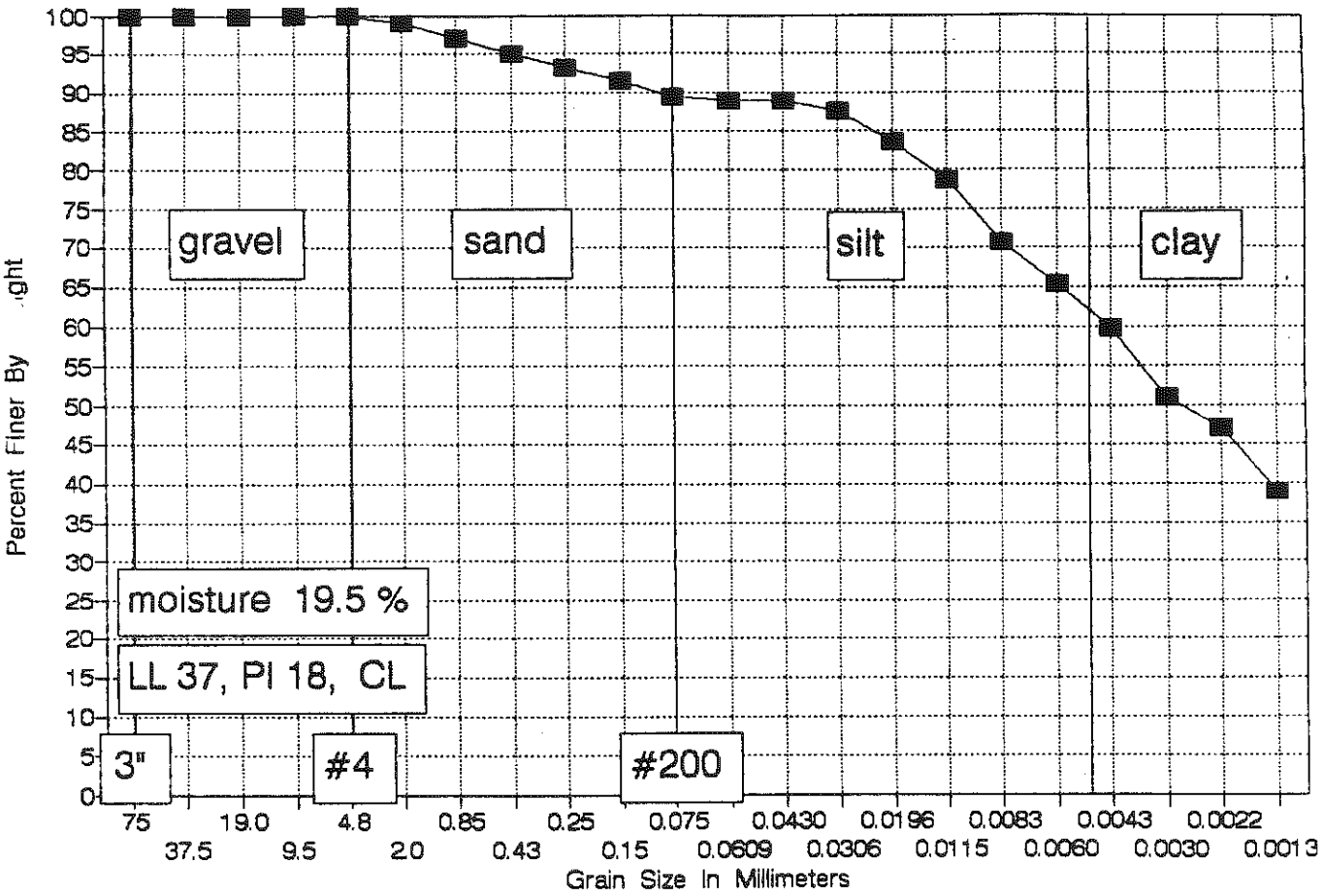
SIEVE ANALYSIS

Dry weight of total sample= 137

Sieve #	weight retained	% Finer		
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	0	100.00%	100.0	19.0
3/8 inch	0	100.00%	100.0	9.5
# 4	10.42	92.39%	92.4	4.8
# 10	35.72	73.93%	73.9	2.0
# 20	61.01	55.47%	55.5	0.85
# 40	81.34	40.63%	40.6	0.43
# 60	93.3	31.90%	31.9	0.25
# 100	99.15	27.63%	27.6	0.15
# 200	103.56	24.41%	24.4	0.075

GRADATION CURVE

Boring C-3 sample at 24 to 26 feet



Chemical Waste Management RFI Phase II

	Wt soil and dish	241.5
Boring C-3	Dry soil & dish	219.7
Sample at 24 to 26 feet	Dish	107.7

Moisture Content = 19.5

SIEVE & HYDROMETER ANALYSIS

SIEVE PORTION

Dry weight of TOTAL sample= 112
sample split -#10 sieve = 37.87

Sieve #	Weight Retained	Total Percent Finer
1.5 inch		100.00%
3/4 inch	0	100.00%
3/8 inch	0	100.00%
# 4	0	100.00%
# 10	1.1	99.02%
# 20	0.75	97.06%
# 40	1.5	95.10%
# 60	2.21	93.24%
# 100	2.85	91.57%
# 200	3.65	89.47%

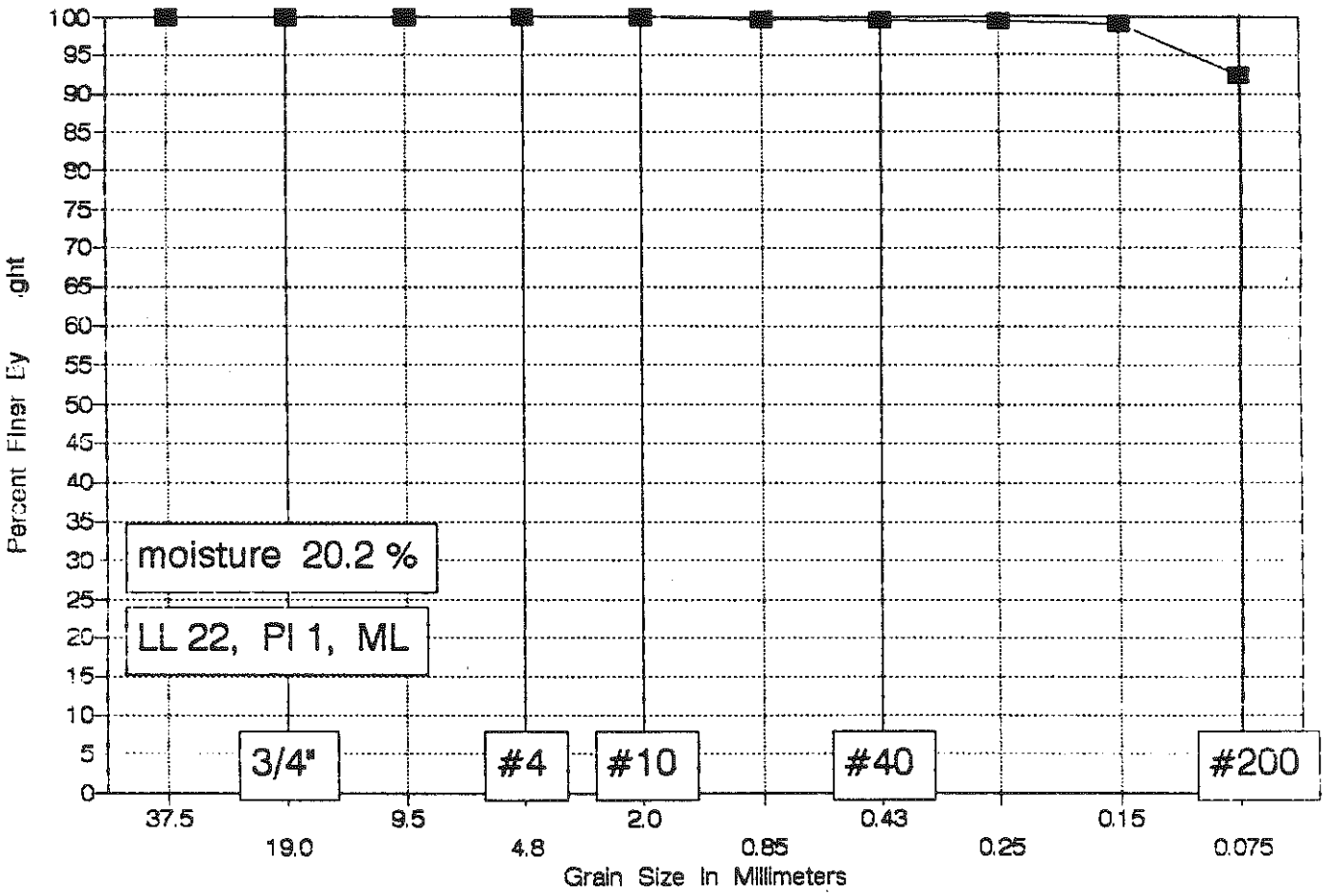
Constants this test
Gs= 2.65 20c=.01365 21c=.01348 22c=.01332
18c=.01399 19c=.01382
When 5 grams of Sodium Hexametaphosphate used correction = 6

HYDROMETER ANALYSIS

Elapsed time	Tc	R'	Zr	Particle Dia. mm	Percent Partial	Total Percent Finer
0.5	19	40	9.70	0.0609	89.78	88.90
1	19	40	9.70	0.0430	89.78	88.90
2	19	39.5	9.78	0.0306	88.46	87.59
5	19	38	10.03	0.0196	84.50	83.67
15	19	36.1	10.34	0.0115	79.48	78.70
30	19	33	10.86	0.0083	71.30	70.60
60	19	31	11.19	0.0060	66.02	65.37
120	19	28.9	11.53	0.0043	60.47	59.88
250	19	25.5	12.09	0.0030	51.49	50.99
500	19	24	12.34	0.0022	47.53	47.06
1394	20	20.9	12.85	0.0013	39.35	38.96

GRADATION CURVE

Boring C-3 sample 5 at 30 to 32 feet



CWM RFI Phase II

Boring C-3
Sample 5
Depth 30-32 feet
Moisture Content = 20.2

Wt soil and dish	290.7
Dry soil & dish	260.4
Dish	110.6

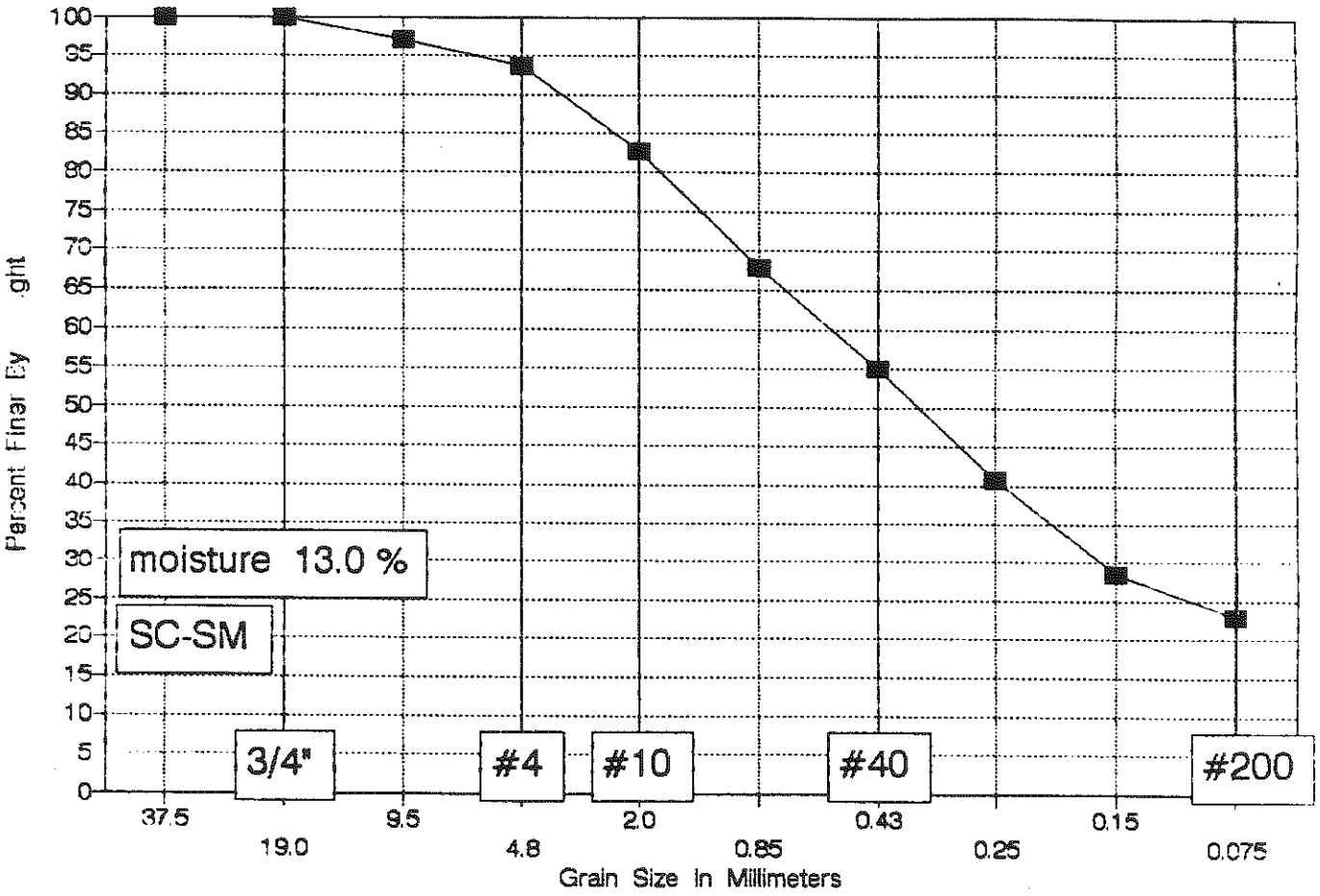
SIEVE ANALYSIS

Dry weight of total sample= 149.8

Sieve #	weight retained	% Finer		
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	0	100.00%	100.0	19.0
3/8 inch	0	100.00%	100.0	9.5
# 4	0	100.00%	100.0	4.8
# 10	0.2	99.87%	99.9	2.0
# 20	0.5	99.67%	99.7	0.85
# 40	0.8	99.47%	99.5	0.43
# 60	1.1	99.27%	99.3	0.25
# 100	1.6	98.93%	98.9	0.15
# 200	11.3	92.46%	92.5	0.075

GRADATION CURVE

Boring C-3 sample 6x at 32 to 34 feet



CWM RFI Phase II

Boring C-3
Sample 6X
Depth 32-34 feet
Moisture Content = 13.0

Wt soil and dish 200.8
Dry soil & dish 190.1
Dish 108.1

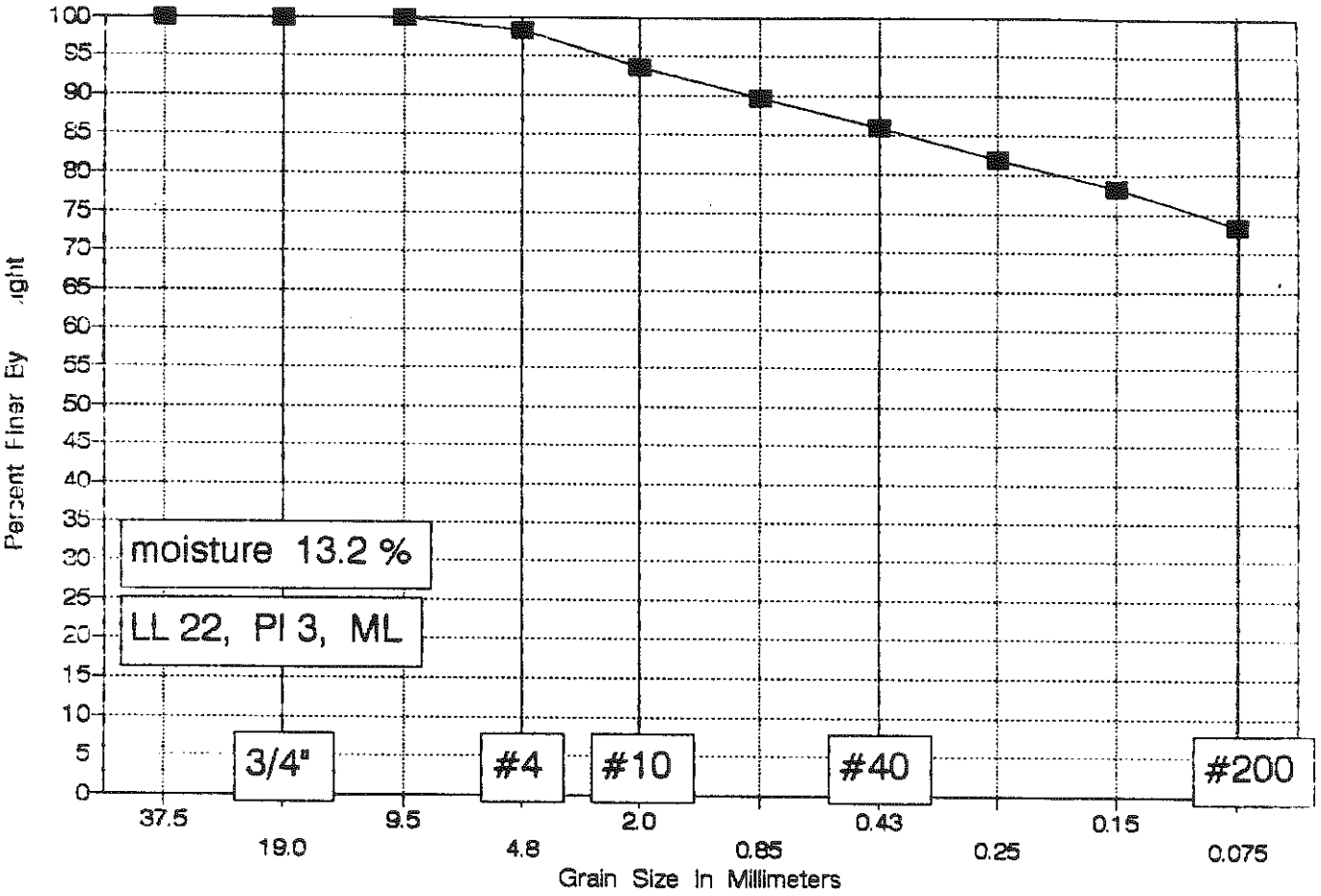
SIEVE ANALYSIS

Dry weight of total sample= 82

Sieve #	weight retained	% Finer		
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	0	100.00%	100.0	19.0
3/8 inch	2.4	97.07%	97.1	9.5
# 4	5.1	93.78%	93.8	4.8
# 10	14.2	82.68%	82.7	2.0
# 20	26.4	67.80%	67.8	0.85
# 40	37	54.88%	54.9	0.43
# 60	48.6	40.73%	40.7	0.25
# 100	58.6	28.54%	28.5	0.15
# 200	63.2	22.93%	22.9	0.075

GRADATION CURVE

Boring C-3 sample 8 at 36 to 38 feet



CWM RFI Phase II

Boring C-3
Sample 8
Depth 36-38 feet
Moisture Content = 13.2

Wt soil and dish	289.8
Dry soil & dish	268.8
Dish	110.2

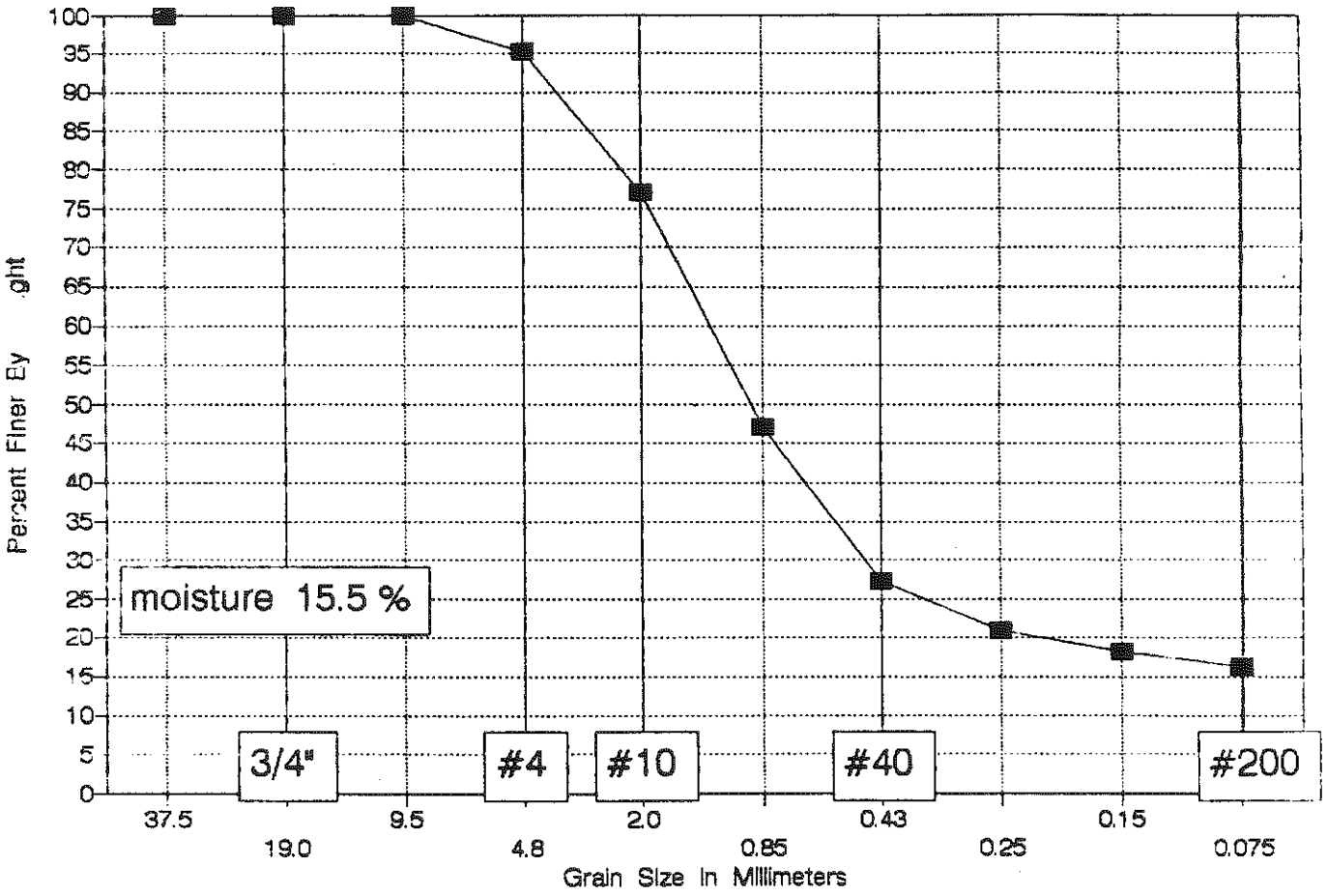
SIEVE ANALYSIS

Dry weight of total sample= 158.6

Sieve #	weight retained	% Finer		
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	0	100.00%	100.0	19.0
3/8 inch	0	100.00%	100.0	9.5
# 4	2.9	98.17%	98.2	4.8
# 10	10.2	93.57%	93.6	2.0
# 20	16.4	89.66%	89.7	0.85
# 40	22.4	85.88%	85.9	0.43
# 60	28.6	81.97%	82.0	0.25
# 100	34.4	78.31%	78.3	0.15
# 200	42.4	73.27%	73.3	0.075

GRADATION CURVE

Boring C-3 sample 10 at 40 to 42 feet



CWM RFI Phase II

Boring C-3
Sample 10
Depth 40-42 feet
Moisture Content = 15.5

Wt soil and dish 270
Dry soil & dish 248.1
Dish 106.5

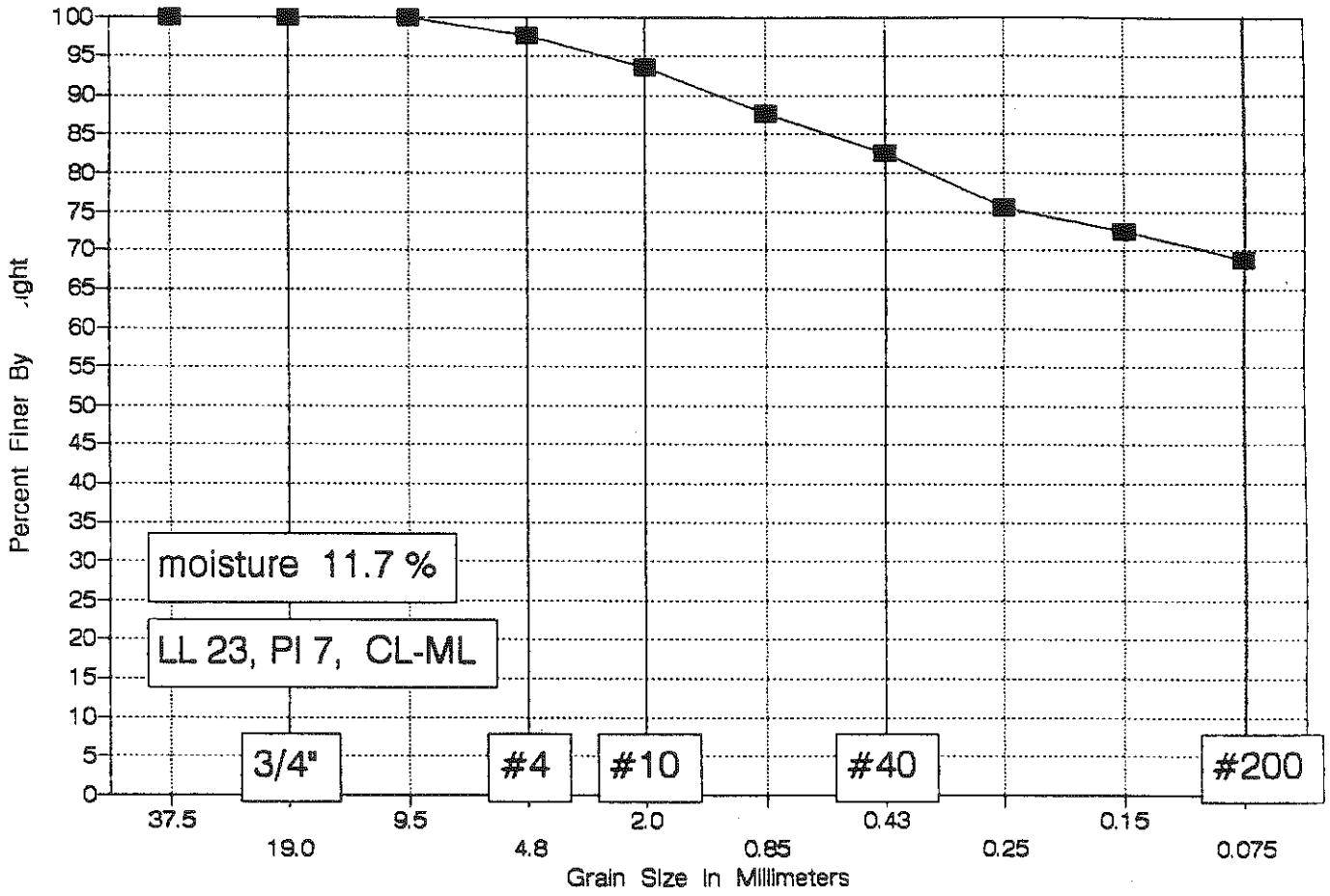
SIEVE ANALYSIS

Dry weight of total sample= 141.6

Sieve #	weight retained	% Finer		
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	0	100.00%	100.0	19.0
3/8 inch	0	100.00%	100.0	9.5
# 4	6.8	95.20%	95.2	4.8
# 10	32.7	76.91%	76.9	2.0
# 20	75	47.03%	47.0	0.85
# 40	102.8	27.40%	27.4	0.43
# 60	111.9	20.97%	21.0	0.25
# 100	115.8	18.22%	18.2	0.15
# 200	118.6	16.24%	16.2	0.075

GRADATION CURVE

Boring C-3 sample 12 at 44 to 46 feet



Boring	C-3	Wt soil and dish	207.8
Sample	12	Dry soil & dish	197.2
Depth	44-46	Dish	106.7

Moisture Content = 11.7

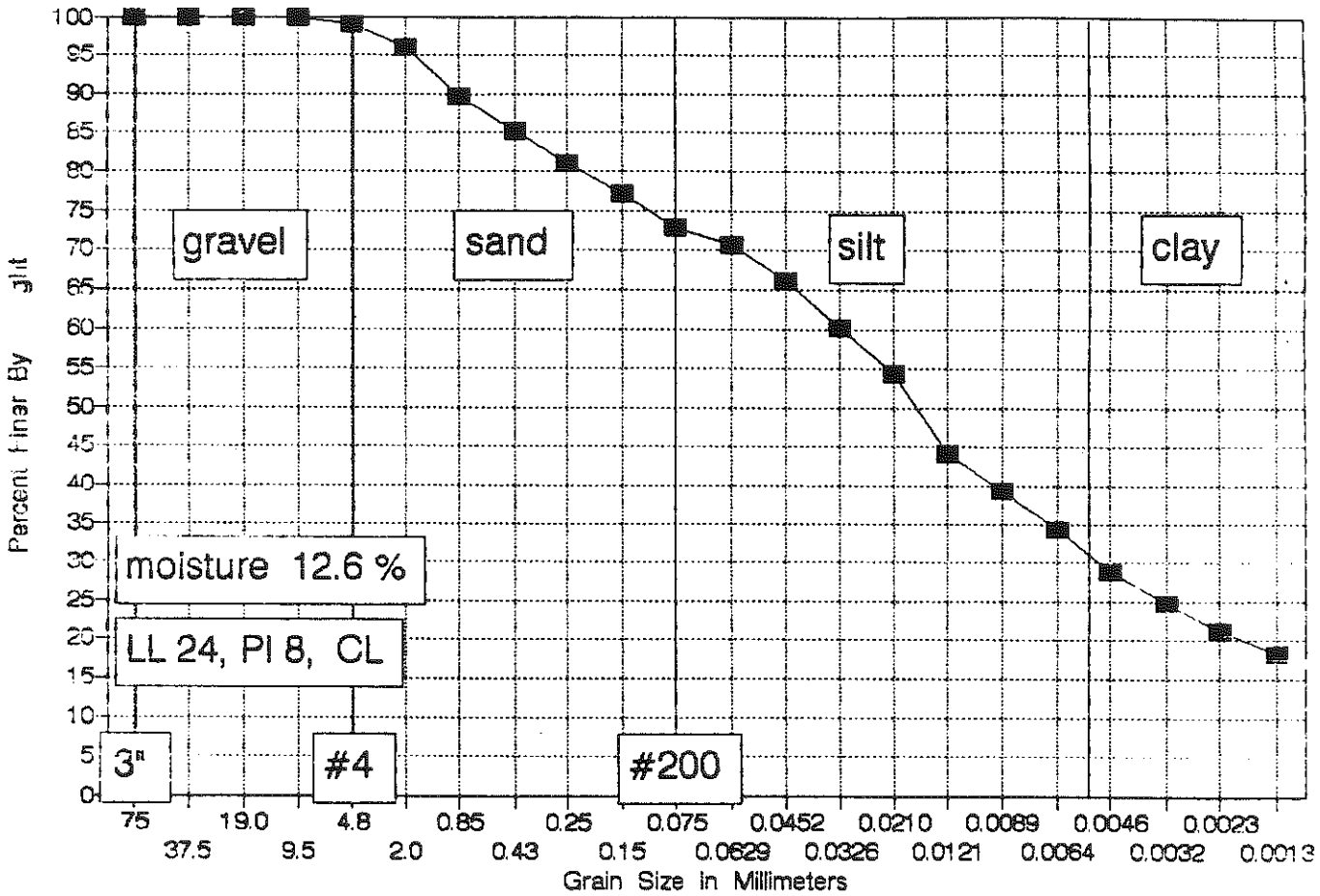
SIEVE ANALYSIS

Dry weight of total sample= 90.5

Sieve #	weight retained	% Finer		
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	0	100.00%	100.0	19.0
3/8 inch	0	100.00%	100.0	9.5
# 4	2.1	97.68%	97.7	4.8
# 10	5.88	93.50%	93.5	2.0
# 20	11.15	87.68%	87.7	0.85
# 40	15.82	82.52%	82.5	0.43
# 60	22.03	75.66%	75.7	0.25
# 100	24.9	72.49%	72.5	0.15
# 200	28.3	68.73%	68.7	0.075

GRADATION CURVE

Boring C-3 sample 15 at 50 to 52 feet



CWM RFI Phase II

Boring C-3
Sample 15 at 50-52 feet

Wt soil and dish	260
Dry soil & dish	242.6
Dish	105

Moisture Content = 12.6

SIEVE & HYDROMETER ANALYSIS

SIEVE PORTION

Dry weight of TOTAL sample= 137.6
sample split -#10 sieve = 40.71

Sieve #	Weight Retained	Total Percent Finer
1.5 inch		100.00%
3/4 inch	0	100.00%
3/8 inch	0	100.00%
# 4	1.5	98.91%
# 10	5.6	95.93%
# 20	2.7	89.57%
# 40	4.6	85.09%
# 60	6.3	81.08%
# 100	8	77.08%
# 200	9.8	72.84%

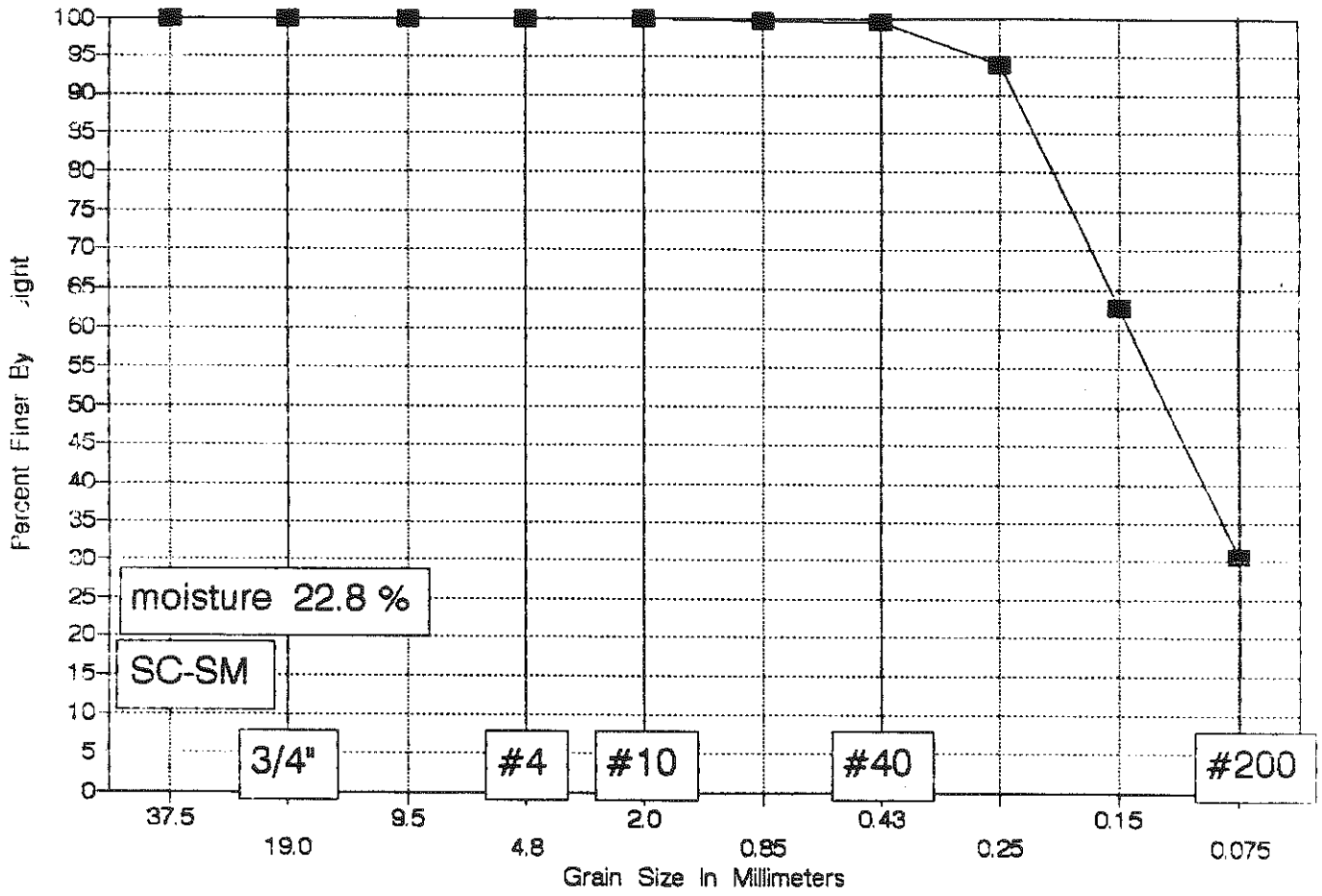
Constants this test
Gs= 2.65 20c=.01365 21c=.01348 22c=.01332
18c=.01399 19c=.01382
When 5 grams of Sodium Hexametaphosphate used correction = 6

HYDROMETER ANALYSIS

Elapsed time	Tc	R'	Zr	Particle Dia. mm	Percent Partial	Total Percent Finer
0.5	19	36	10.36	0.0629	73.69	70.69
1	19	34.1	10.67	0.0452	69.02	66.22
2	19	31.5	11.10	0.0326	62.64	60.09
5	19	29.1	11.50	0.0210	56.74	54.43
16	19	24.7	12.22	0.0121	45.93	44.07
30	19	22.7	12.55	0.0089	41.02	39.35
60	19	20.5	12.92	0.0064	35.62	34.17
120	20	18.2	13.30	0.0046	29.97	28.75
250	20	16.5	13.58	0.0032	25.79	24.74
500	20	15	13.83	0.0023	22.11	21.21
1484	20	13.7	14.04	0.0013	18.91	18.14

GRADATION CURVE

Boring C-4 sample 6 at 32 to 34 feet



CWM RFI Phase II

Boring C-4
Sample 6
Depth 32-34 feet
Moisture Content = 22.8

Wt soil and dish 317.2
Dry soil & dish 278.4
Dish 108

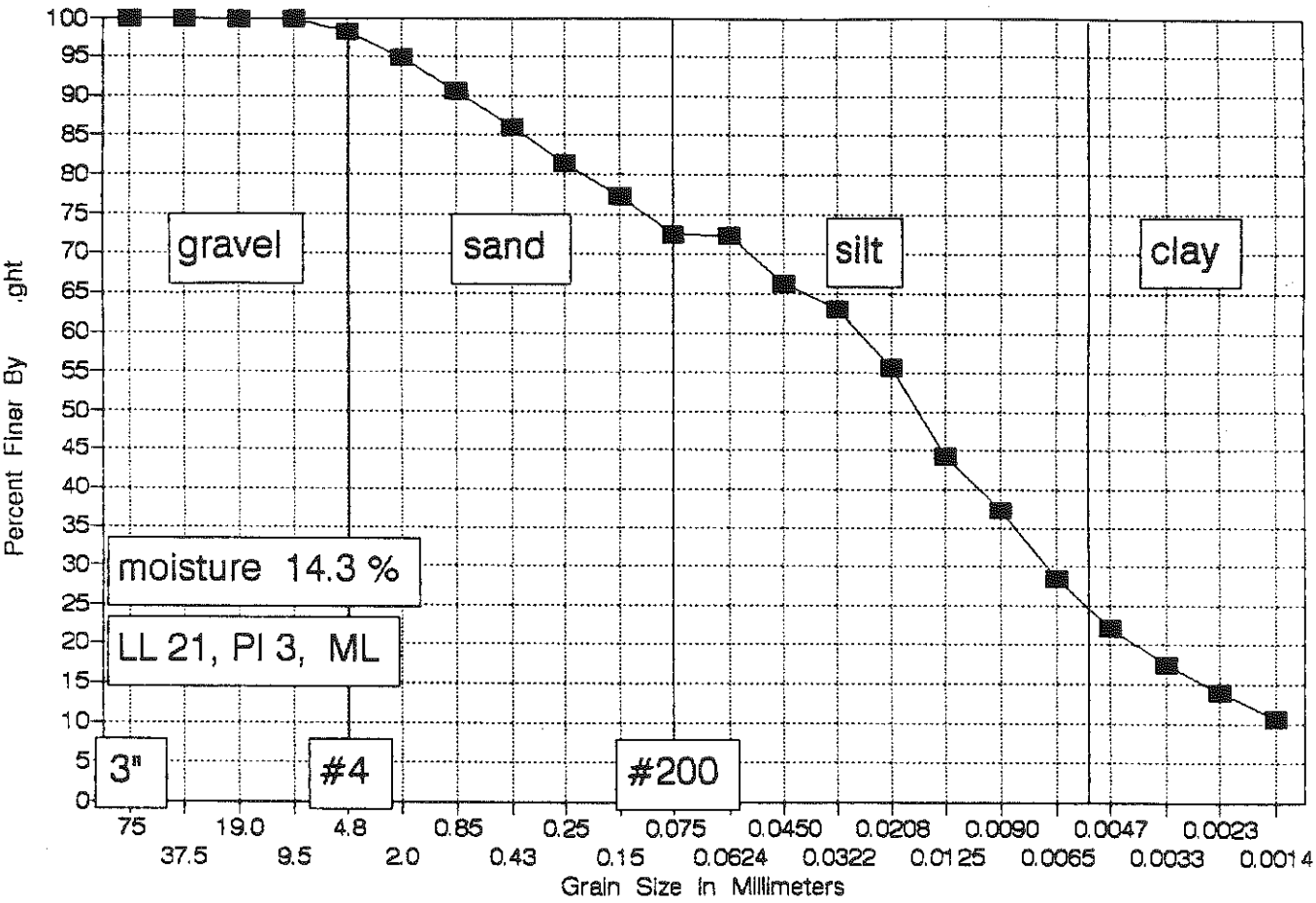
SIEVE ANALYSIS

Dry weight of total sample= 170.4

Sieve #	weight retained	% Finer		
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	0	100.00%	100.0	19.0
3/8 inch	0	100.00%	100.0	9.5
# 4	0	100.00%	100.0	4.8
# 10	0.3	99.82%	99.8	2.0
# 20	0.6	99.65%	99.6	0.85
# 40	0.9	99.47%	99.5	0.43
# 60	10.2	94.01%	94.0	0.25
# 100	63.4	62.79%	62.8	0.15
# 200	118.5	30.46%	30.5	0.075

GRADATION CURVE

Boring C-4 sample at 34 to 36 feet



Chemical Waste Management RFI Phase II

Boring C-4
Sample at 34 to 36 feet

Wt soil and dish	290.5
Dry soil & dish	267.2
Dish	104.6

Moisture Content = 14.3

SIEVE & HYDROMETER ANALYSIS

SIEVE PORTION

Dry weight of TOTAL sample= 162.6
sample split -#10 sieve = 40.72

Sieve #	Weight Retained	Total Percent Finer
1.5 inch		100.00%
3/4 inch	0	100.00%
3/8 inch	0	100.00%
# 4	2.96	98.18%
# 10	8.35	94.86%
# 20	1.85	90.55%
# 40	3.87	85.85%
# 60	5.8	81.35%
# 100	7.5	77.39%
# 200	9.62	72.45%

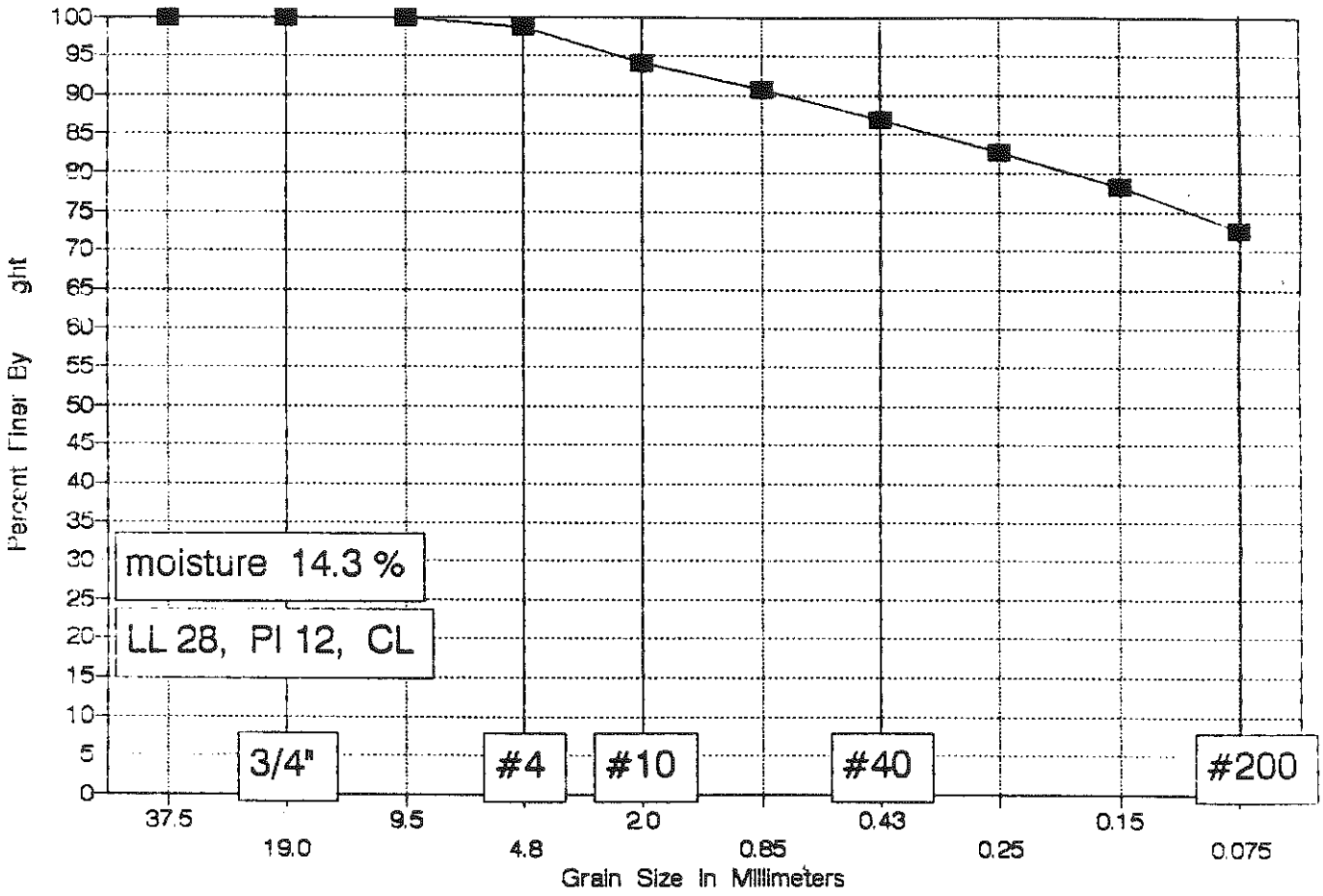
Constants this test
Gs= 2.65 20c=.01365 21c=.01348 22c=.01332
18c=.01399 19c=.01382
When 5 grams of Sodium
Hexametaphosphate used correction
= 6

HYDROMETER ANALYSIS

Elapsed time	Tc	R'	Zr	Particle Dia. mm	Percent Partial	Total Percent Finer
0.5	19	37	10.20	0.0624	76.13	72.22
1	19	34.5	10.61	0.0450	69.99	66.40
2	19	33	10.86	0.0322	66.31	62.90
5	19	29.9	11.37	0.0208	58.69	55.68
15	19	25	12.18	0.0125	46.66	44.26
30	19	22	12.67	0.0090	39.29	37.27
60	19	18.2	13.30	0.0065	29.96	28.42
120	19	15.5	13.74	0.0047	23.33	22.13
250	19	13.5	14.07	0.0033	18.42	17.47
500	19	12	14.32	0.0023	14.73	13.98
1403	20	10.5	14.57	0.0014	11.05	10.48

GRADATION CURVE

Boring C-4 sample 11 at 42 to 44 feet



CWM RFI Phase II

Boring C-4
Sample 11
Depth 42-44 feet
Moisture Content = 14.3

Wt soil and dish 259
Dry soil & dish 240.1
Dish 108

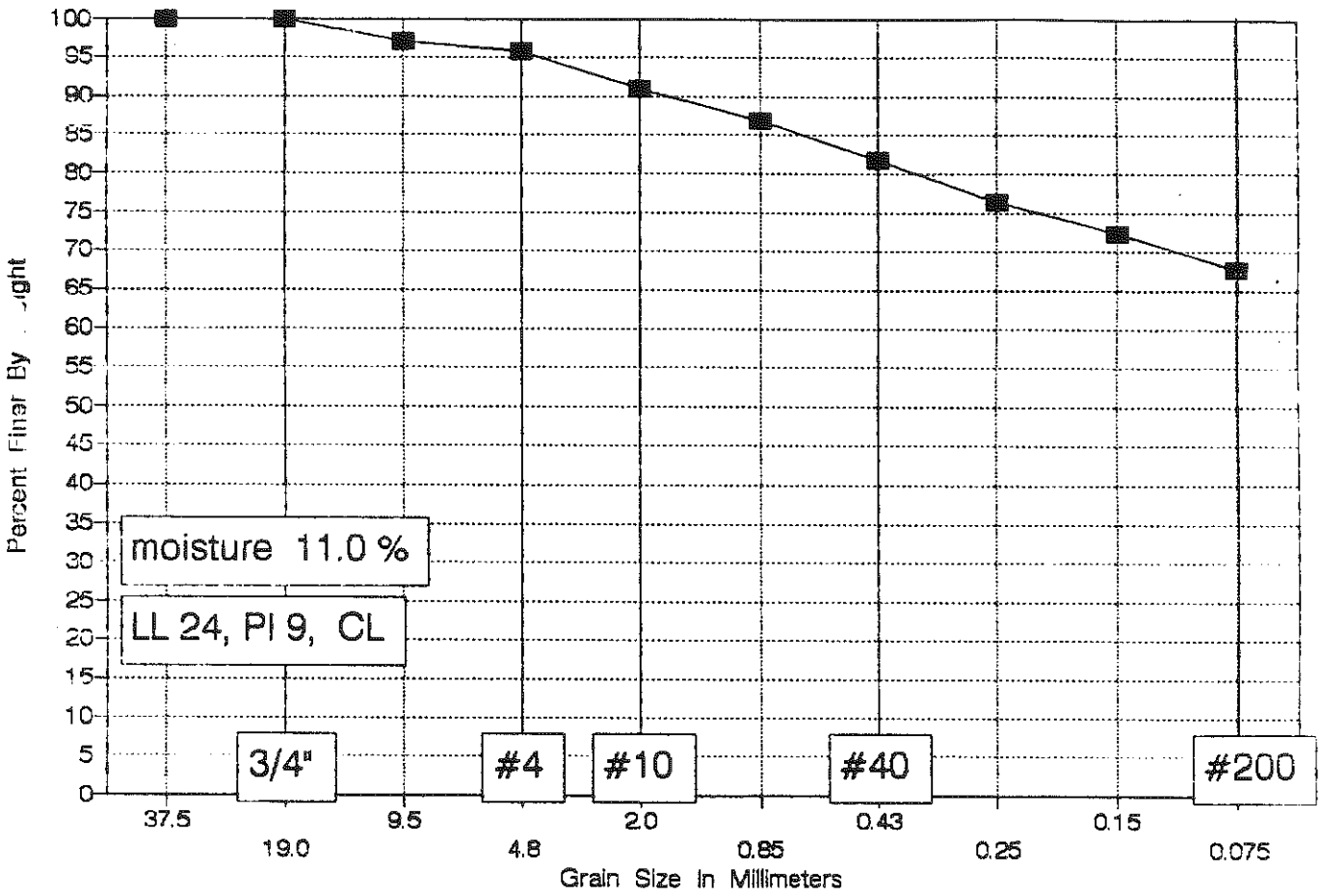
SIEVE ANALYSIS

Dry weight of total sample= 132.1

Sieve #	weight retained	% Finer		
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	0	100.00%	100.0	19.0
3/8 inch	0	100.00%	100.0	9.5
# 4	1.9	98.56%	98.6	4.8
# 10	7.7	94.17%	94.2	2.0
# 20	12.2	90.76%	90.8	0.85
# 40	17.4	86.83%	86.8	0.43
# 60	22.7	82.82%	82.8	0.25
# 100	28.8	78.20%	78.2	0.15
# 200	36	72.75%	72.7	0.075

GRADATION CURVE

Boring C-4 sample 14 at 48 to 50 feet



CWM RFI Phase II

Boring C-4
Sample 14
Depth 48-50 feet
Moisture Content = 11.0

Wt soil and dish	264.8
Dry soil & dish	249.3
Dish	108.1

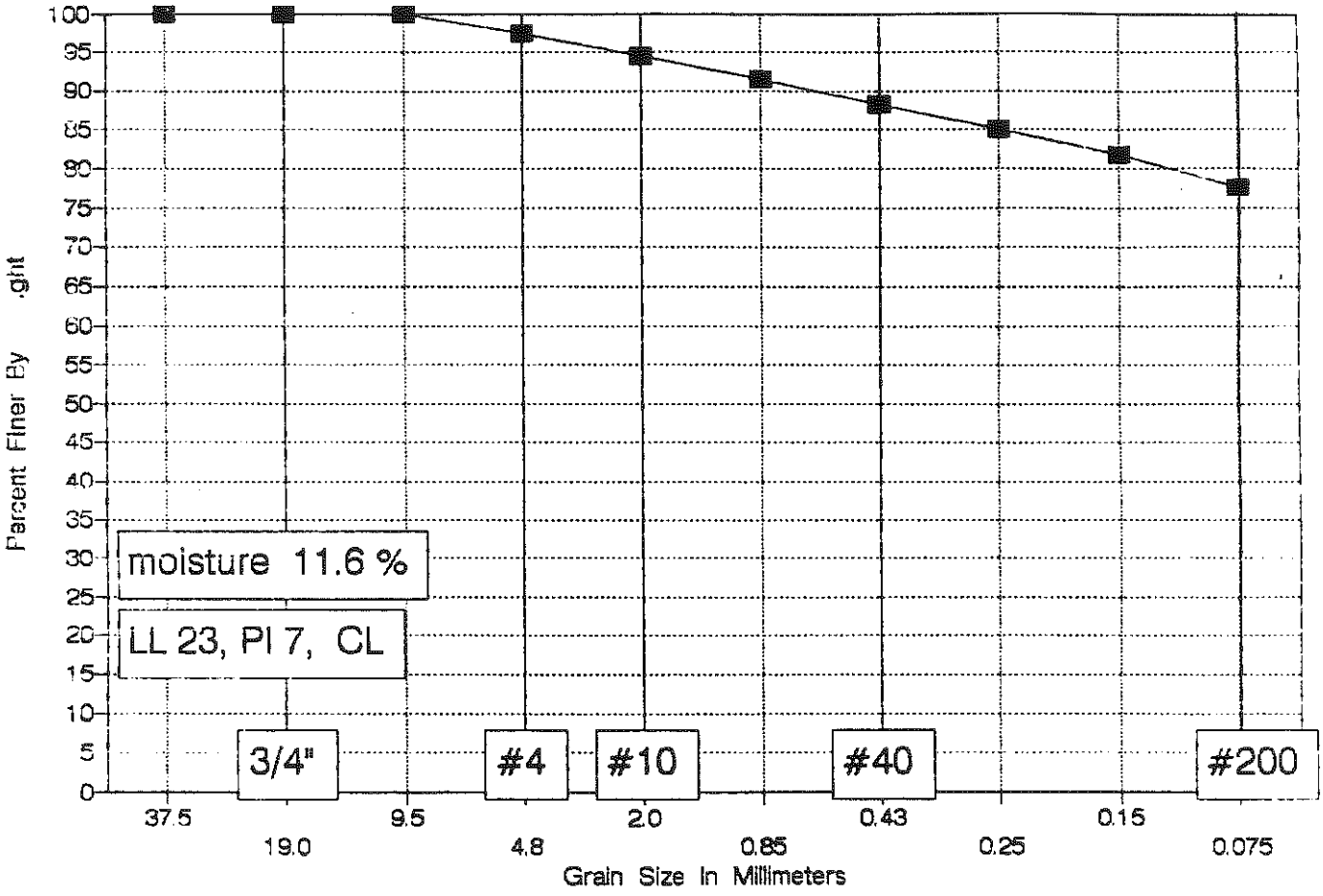
SIEVE ANALYSIS

Dry weight of total sample= 141.2

Sieve #	weight retained	% Finer		
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	0	100.00%	100.0	19.0
3/8 inch	4	97.17%	97.2	9.5
# 4	6	95.75%	95.8	4.8
# 10	12.8	90.93%	90.9	2.0
# 20	18.6	86.83%	86.8	0.85
# 40	25.7	81.80%	81.8	0.43
# 60	33.4	76.35%	76.3	0.25
# 100	39.1	72.31%	72.3	0.15
# 200	45.6	67.71%	67.7	0.075

GRADATION CURVE

Boring C-4 sample 17 at 54 to 56 feet



CWM RFI Phase II

Boring C-4
Sample 17
Depth 54-56 feet
Moisture Content = 11.6

Wt soil and dish 244.9
Dry soil & dish 230.9
Dish 110.5

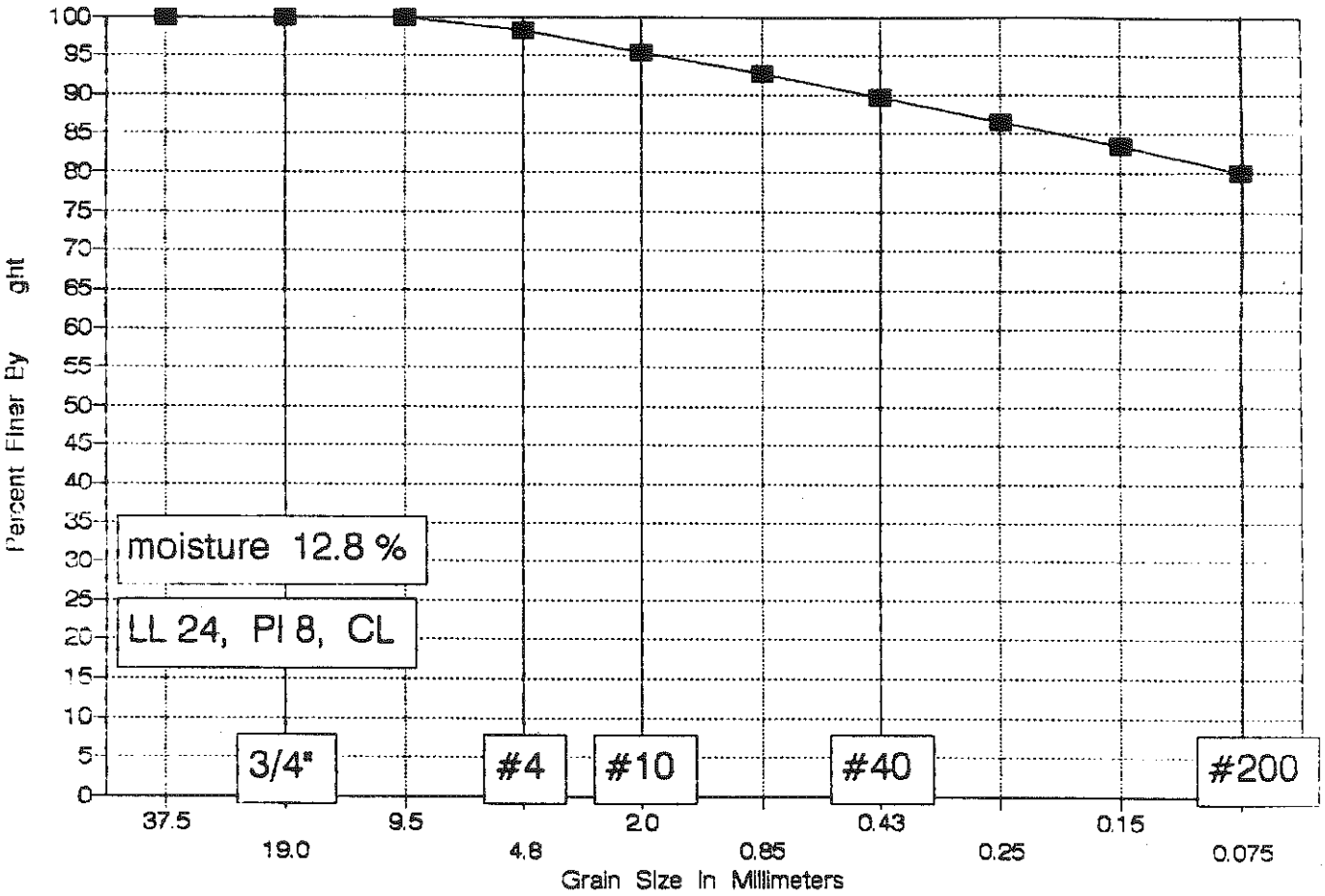
SIEVE ANALYSIS

Dry weight of total sample= 120.4

Sieve #	weight retained	% Finer		
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	0	100.00%	100.0	19.0
3/8 inch	0	100.00%	100.0	9.5
# 4	3	97.51%	97.5	4.8
# 10	6.7	94.44%	94.4	2.0
# 20	10.2	91.53%	91.5	0.85
# 40	14	88.37%	88.4	0.43
# 60	18	85.05%	85.0	0.25
# 100	21.9	81.81%	81.8	0.15
# 200	27	77.57%	77.6	0.075

GRADATION CURVE

Boring C-4 sample 21 at 64 to 66 feet



CWM RFI Phase II

Boring C-4
Sample 21
Depth 64-66 feet
Moisture Content = 12.8

Wt soil and dish 239.1
Dry soil & dish 224.2
Dish 108

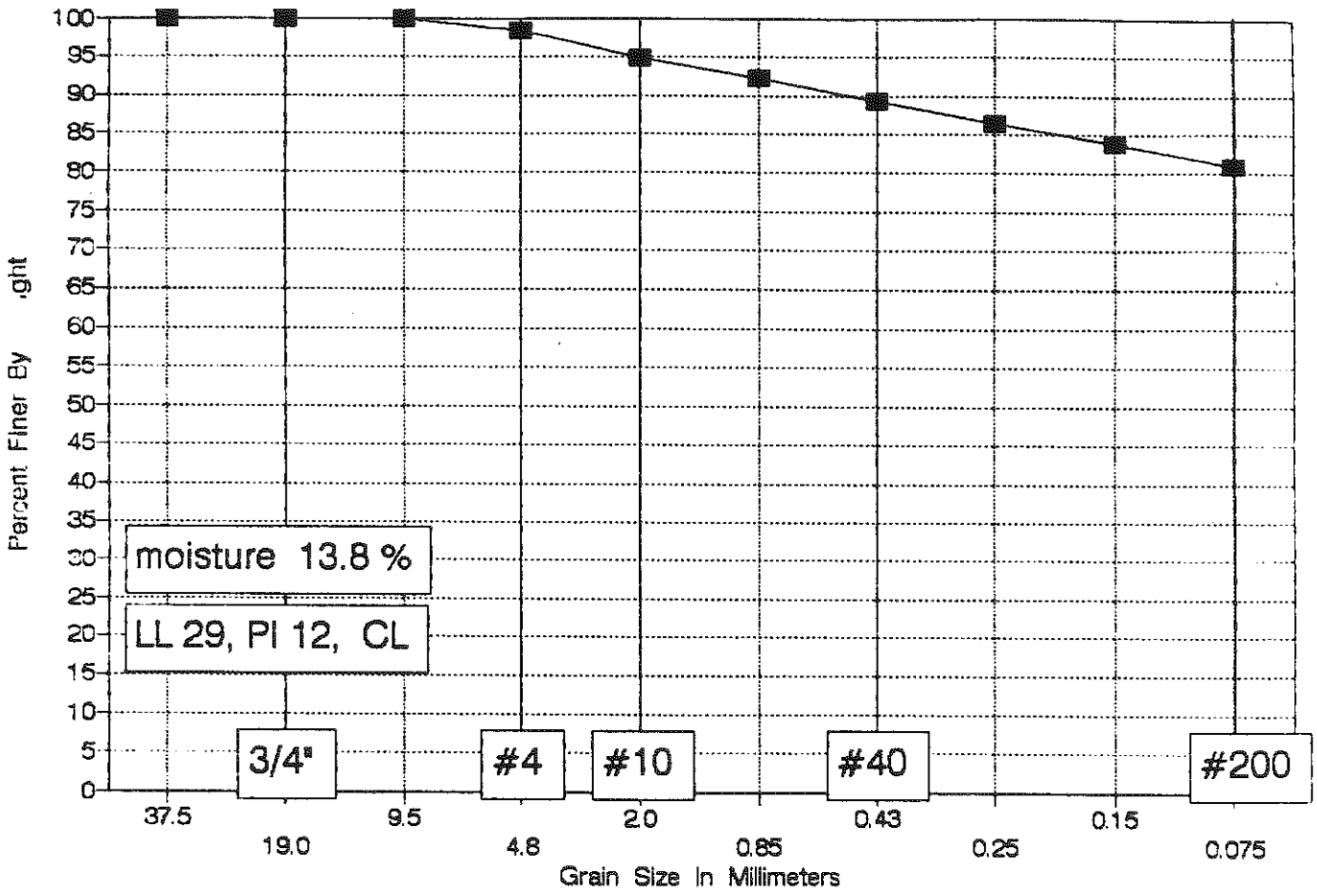
SIEVE ANALYSIS

Dry weight of total sample= 116.2

Sieve #	weight retained	% Finer		
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	0	100.00%	100.0	19.0
3/8 inch	0	100.00%	100.0	9.5
# 4	2	98.28%	98.3	4.8
# 10	5.4	95.35%	95.4	2.0
# 20	8.5	92.69%	92.7	0.85
# 40	12.1	89.59%	89.6	0.43
# 60	15.7	86.49%	86.5	0.25
# 100	19.2	83.48%	83.5	0.15
# 200	23.4	79.86%	79.9	0.075

GRADATION CURVE

Boring C-4 sample 25 at 72 to 74 feet



CWM RFI Phase II

Boring C-4
Sample 25
Depth 72-74 feet
Moisture Content = 13.8

Wt soil and dish 253.3
Dry soil & dish 235.5
Dish 106.8

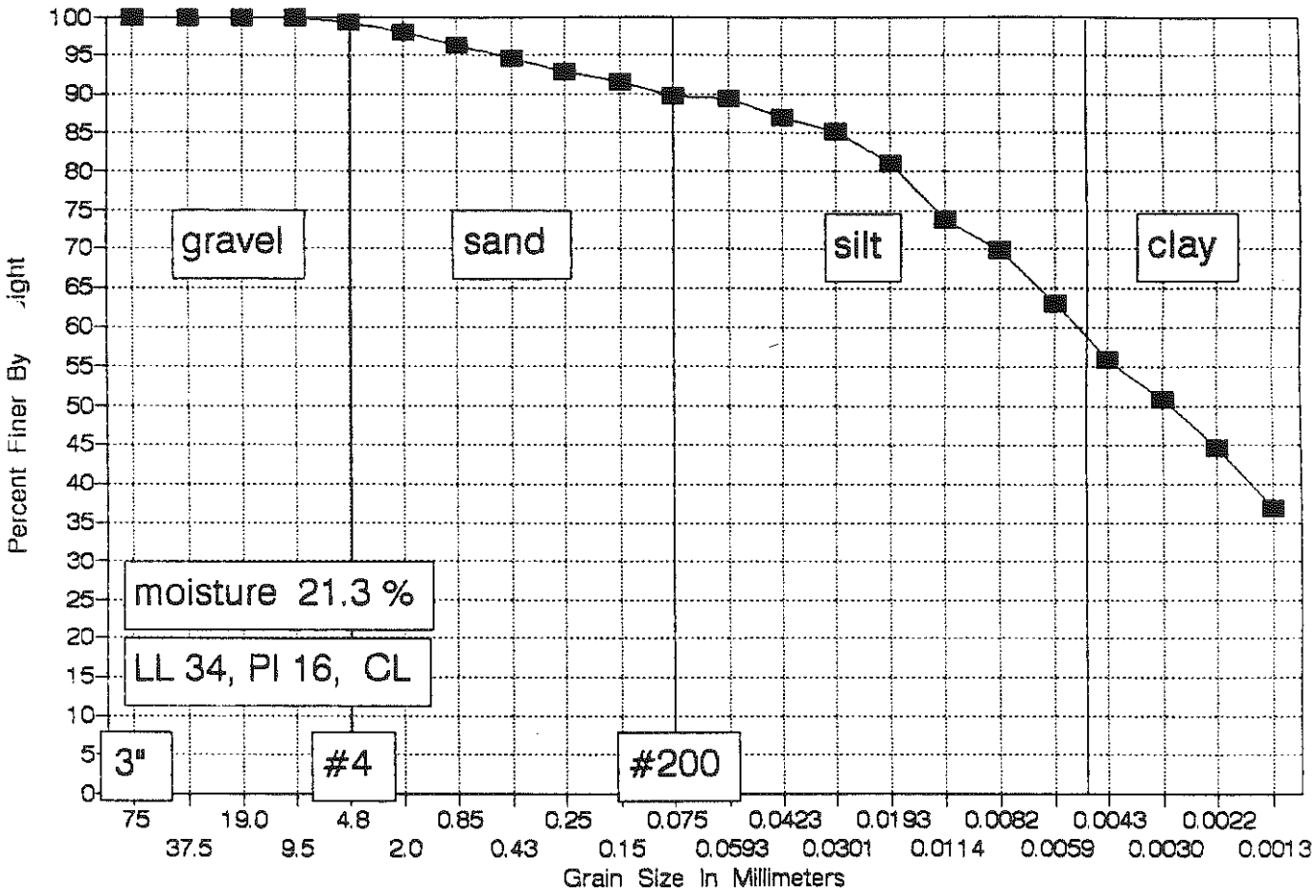
SIEVE ANALYSIS

Dry weight of total sample= 128.7

Sieve #	weight retained	% Finer		
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	0	100.00%	100.0	19.0
3/8 inch	0	100.00%	100.0	9.5
# 4	2	98.45%	98.4	4.8
# 10	6.5	94.95%	94.9	2.0
# 20	10	92.23%	92.2	0.85
# 40	13.8	89.28%	89.3	0.43
# 60	17.5	86.40%	86.4	0.25
# 100	20.7	83.92%	83.9	0.15
# 200	24.6	80.89%	80.9	0.075

GRADATION CURVE

Boring C-5 sample at 26 to 28 feet



Chemical Waste Management RFI Phase II

Boring C-5
Sample at 26 to 28 feet

Wt soil and dish	357.3
Dry soil & dish	314.2
Dish	112.1

Moisture Content = 21.3

SIEVE & HYDROMETER ANALYSIS

SIEVE PORTION

Dry weight of TOTAL sample= 202.1
sample split -#10 sieve = 40.48

Sieve #	Weight Retained	Total Percent Finer
1.5 inch		100.00%
3/4 inch	0	100.00%
3/8 inch	0	100.00%
# 4	1.26	99.38%
# 10	4.14	97.95%
# 20	0.69	96.28%
# 40	1.32	94.76%
# 60	2.1	92.87%
# 100	2.64	91.56%
# 200	3.44	89.63%

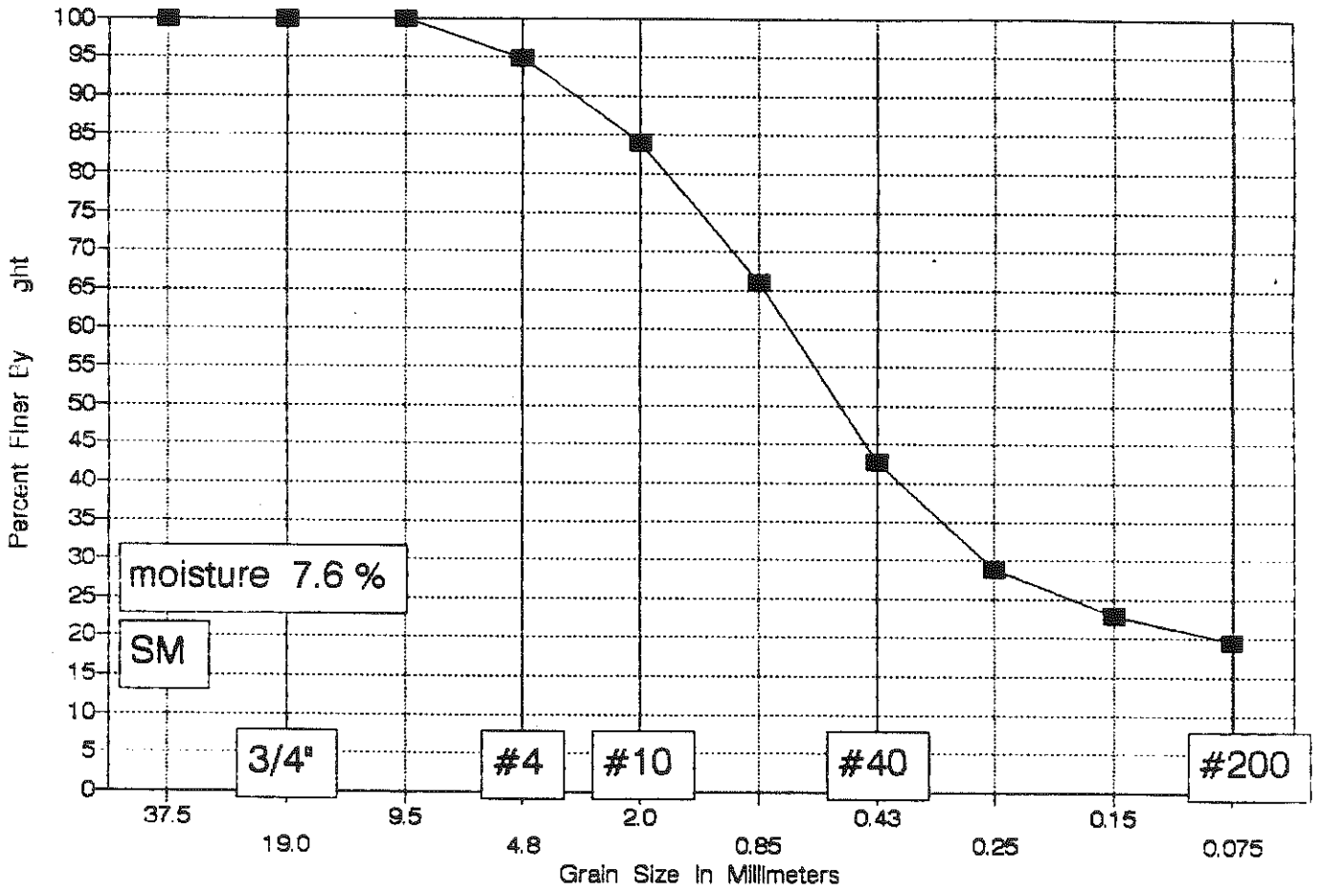
Constants this test
Gs= 2.65 20c=.01365 21c=.01348 22c=.01332
18c=.01399 19c=.01382
When 5 grams of Sodium Hexametaphosphate used correction = 6

HYDROMETER ANALYSIS

Elapsed time	Tc	R'	Zr	Particle Dia. mm	Percent Partial	Total Percent Finer
0.5	20	43	9.21	0.0593	91.40	89.53
1	20	42	9.37	0.0423	88.93	87.11
2	20	41.2	9.50	0.0301	86.96	85.18
5	20	39.5	9.78	0.0193	82.76	81.06
15	20	36.5	10.28	0.0114	75.35	73.80
30	20	34.9	10.54	0.0082	71.39	69.93
60	20	32	11.02	0.0059	64.23	62.91
120	20	29.1	11.50	0.0043	57.07	55.90
250	20	27	11.85	0.0030	51.88	50.81
500	20	24.5	12.26	0.0022	45.70	44.77
1456	20	21.2	12.80	0.0013	37.55	36.78

GRADATION CURVE

Boring C-5 sample 6 at 30 to 32 feet



CWM RFI Phase II

Boring C-5
Sample 6
Depth 30-32 feet
Moisture Content = 7.6

Wt soil and dish	206.3
Dry soil & dish	199.2
Dish	106.2

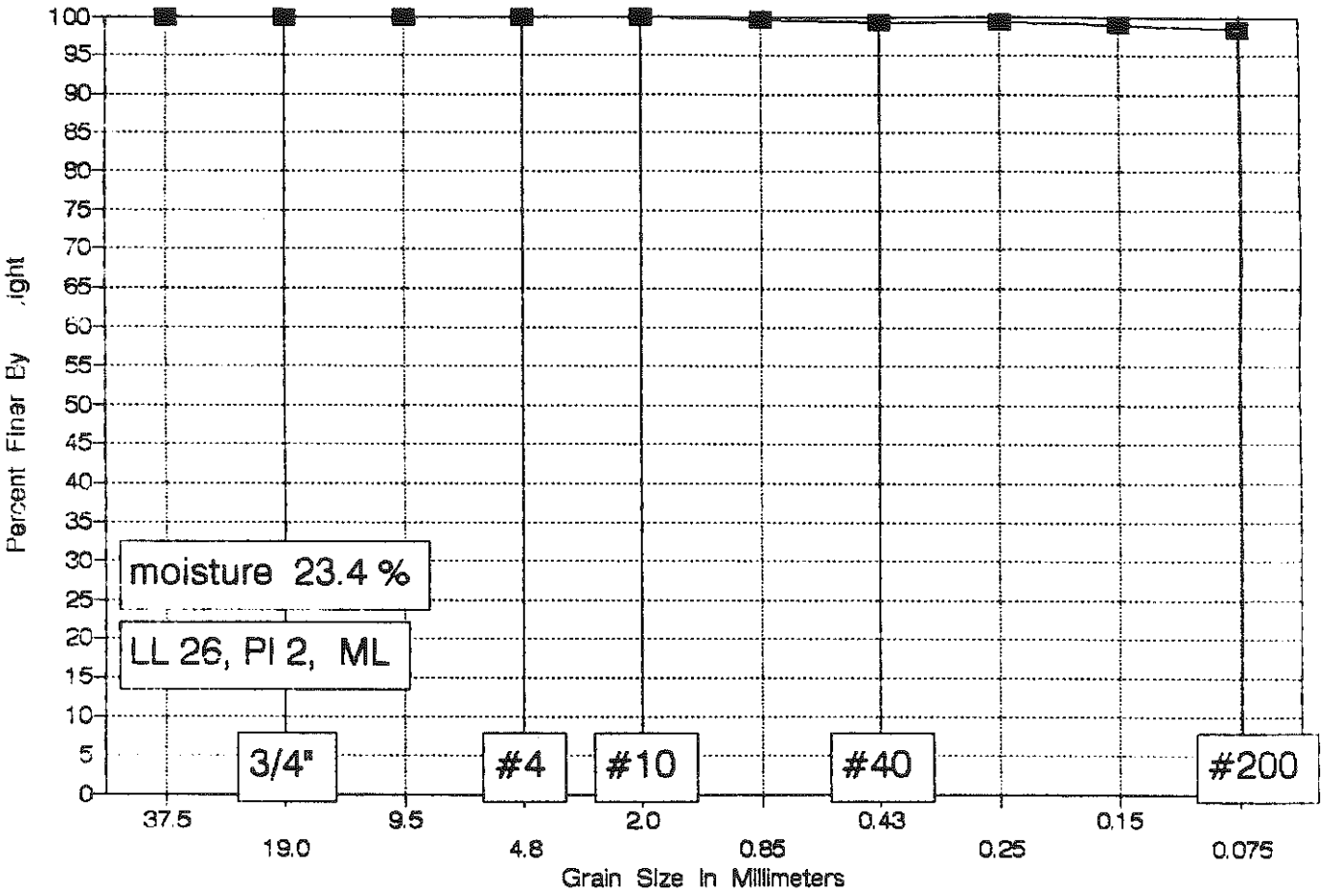
SIEVE ANALYSIS

Dry weight of total sample= 93

Sieve #	weight retained	% Finer		
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	0	100.00%	100.0	19.0
3/8 inch	0	100.00%	100.0	9.5
# 4	4.76	94.88%	94.9	4.8
# 10	14.83	84.05%	84.1	2.0
# 20	31.75	65.86%	65.9	0.85
# 40	53.33	42.66%	42.7	0.43
# 60	66.15	28.87%	28.9	0.25
# 100	71.73	22.87%	22.9	0.15
# 200	74.92	19.44%	19.4	0.075

GRADATION CURVE

Boring C-5 sample 7 at 32 to 34 feet



CWM RFI Phase II

Boring C-5
Sample 7
Depth 32-34 feet
Moisture Content = 23.4

Wt soil and dish	286.7
Dry soil & dish	253.4
Dish	110.9

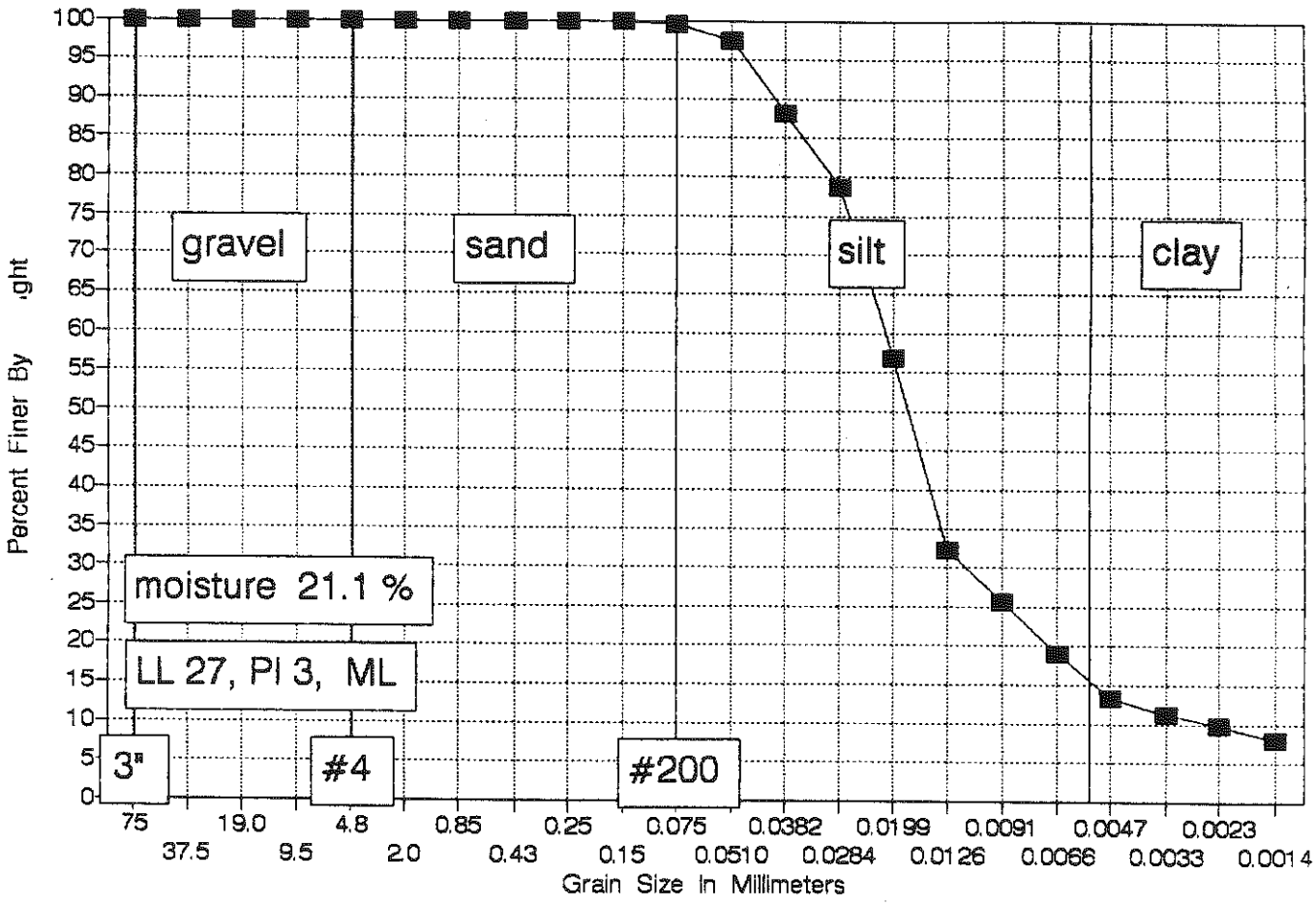
SIEVE ANALYSIS

Dry weight of total sample= 142.5

Sieve #	weight retained	% Finer		
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	0	100.00%	100.0	19.0
3/8 inch	0	100.00%	100.0	9.5
# 4	0	100.00%	100.0	4.8
# 10	0.2	99.86%	99.9	2.0
# 20	0.5	99.65%	99.6	0.85
# 40	0.8	99.44%	99.4	0.43
# 60	1	99.30%	99.3	0.25
# 100	1.4	99.02%	99.0	0.15
# 200	2.2	98.46%	98.5	0.075

GRADATION CURVE

Boring C-5 sample at 36 to 37.5 feet



Chemical Waste Management RFI Phase II

Boring C-5
Sample at 36 to 37.5 feet

Wt soil and dish	309.1
Dry soil & dish	273.1
Dish	102.7

Moisture Content = 21.1

SIEVE & HYDROMETER ANALYSIS

SIEVE PORTION

Dry weight of TOTAL sample= 170.4
sample split -#10 sieve = 52.79

Sieve #	Weight Retained	Total Percent Finer
1.5 inch		100.00%
3/4 inch	0	100.00%
3/8 inch	0	100.00%
# 4	0	100.00%
# 10	0	100.00%
# 20	0	100.00%
# 40	0	100.00%
# 60	0	100.00%
# 100	0.06	99.89%
# 200	0.29	99.45%

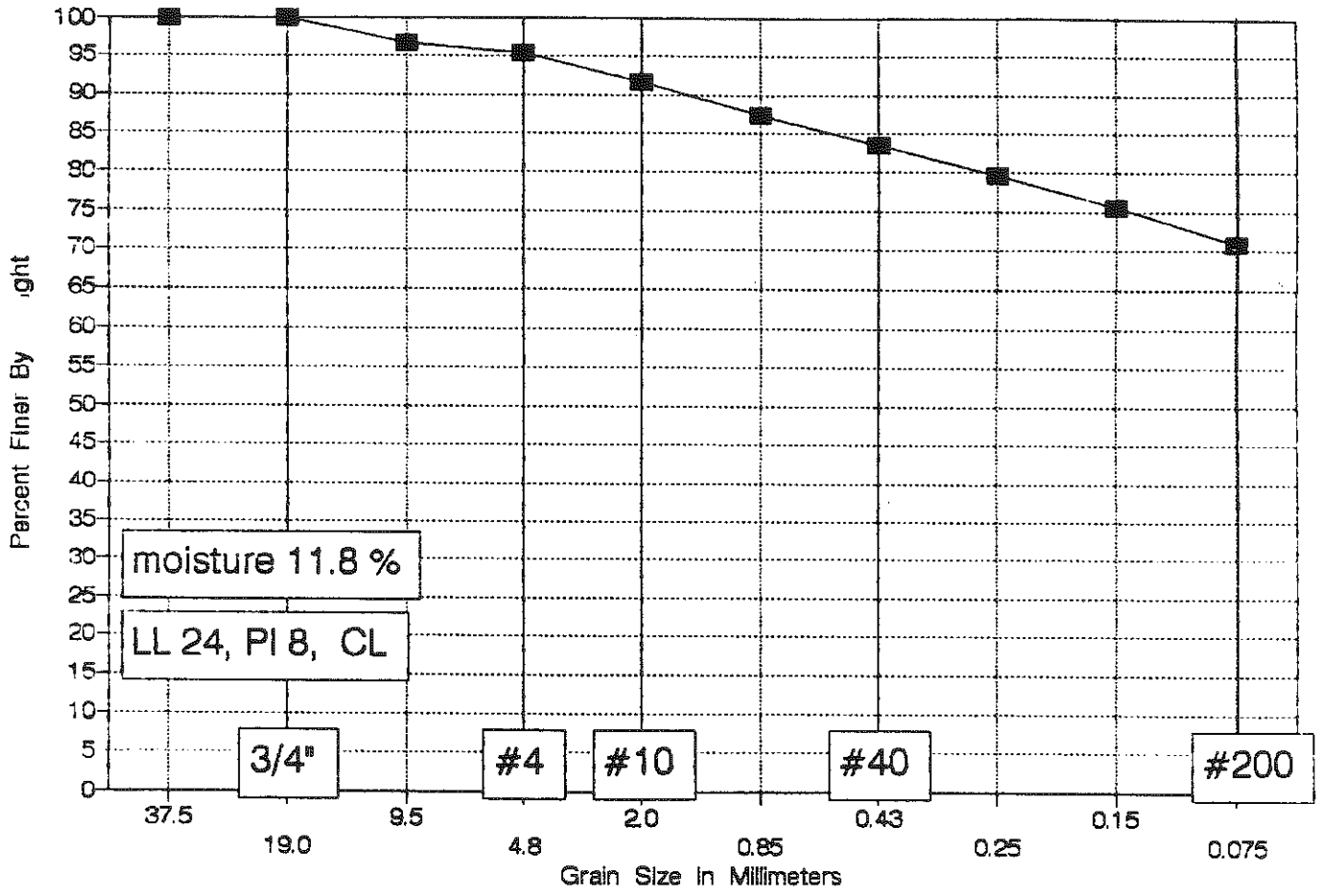
Constants this test
Gs= 2.65 20c=.01365 21c=.01348 22c=.01332
18c=.01399 19c=.01382
When 5 grams of Sodium Hexametaphosphate used correction = 6

HYDROMETER ANALYSIS

Elapsed time	Tc	R'	Zr	Particle Dia. mm	Percent Partial	Total Percent Finer
0.5	20	57.5	6.81	0.0510	97.56	97.56
1	20	52.5	7.64	0.0382	88.08	88.08
2	20	47.5	8.46	0.0284	78.61	78.61
5	20	36	10.36	0.0199	56.83	56.83
15	20	23	12.51	0.0126	32.20	32.20
30	20	19.5	13.08	0.0091	25.57	25.57
60	20	16	13.66	0.0066	18.94	18.94
120	20	13	14.16	0.0047	13.26	13.26
250	20	12	14.32	0.0033	11.37	11.37
500	20	11.2	14.45	0.0023	9.85	9.85
1452	20	10.2	14.62	0.0014	7.96	7.96

GRADATION CURVE

Boring C-5 sample 13 at 44 to 46 feet



CWM RFI Phase II

Boring C-5
Sample 13
Depth 44-46 feet
Moisture Content = 11.8

Wt soil and dish 286.2
Dry soil & dish 267.5
Dish 109.6

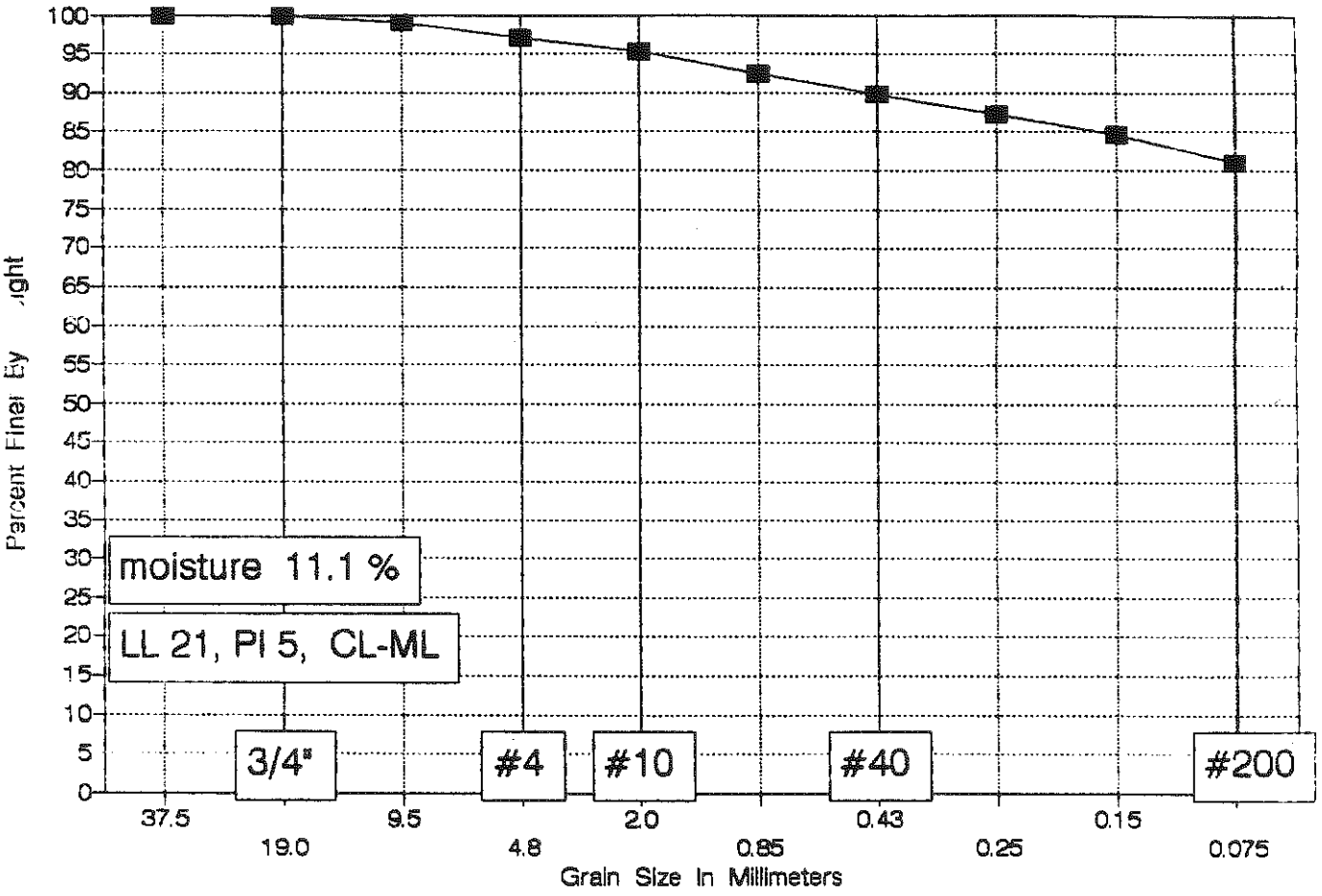
SIEVE ANALYSIS

Dry weight of total sample= 157.9

Sieve #	weight retained	% Finer		
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	0	100.00%	100.0	19.0
3/8 inch	5.1	96.77%	96.8	9.5
# 4	7.3	95.38%	95.4	4.8
# 10	13	91.77%	91.8	2.0
# 20	19.8	87.46%	87.5	0.85
# 40	26	83.53%	83.5	0.43
# 60	32.4	79.48%	79.5	0.25
# 100	38.5	75.62%	75.6	0.15
# 200	46	70.87%	70.9	0.075

GRADATION CURVE

Boring C-5 sample 17 at 52 to 54 feet



CWM RFI Phase II

Boring C-5
Sample 17
Depth 52-54 feet
Moisture Content = 11.1

Wt soil and dish	273.7
Dry soil & dish	256.6
Dish	102.8

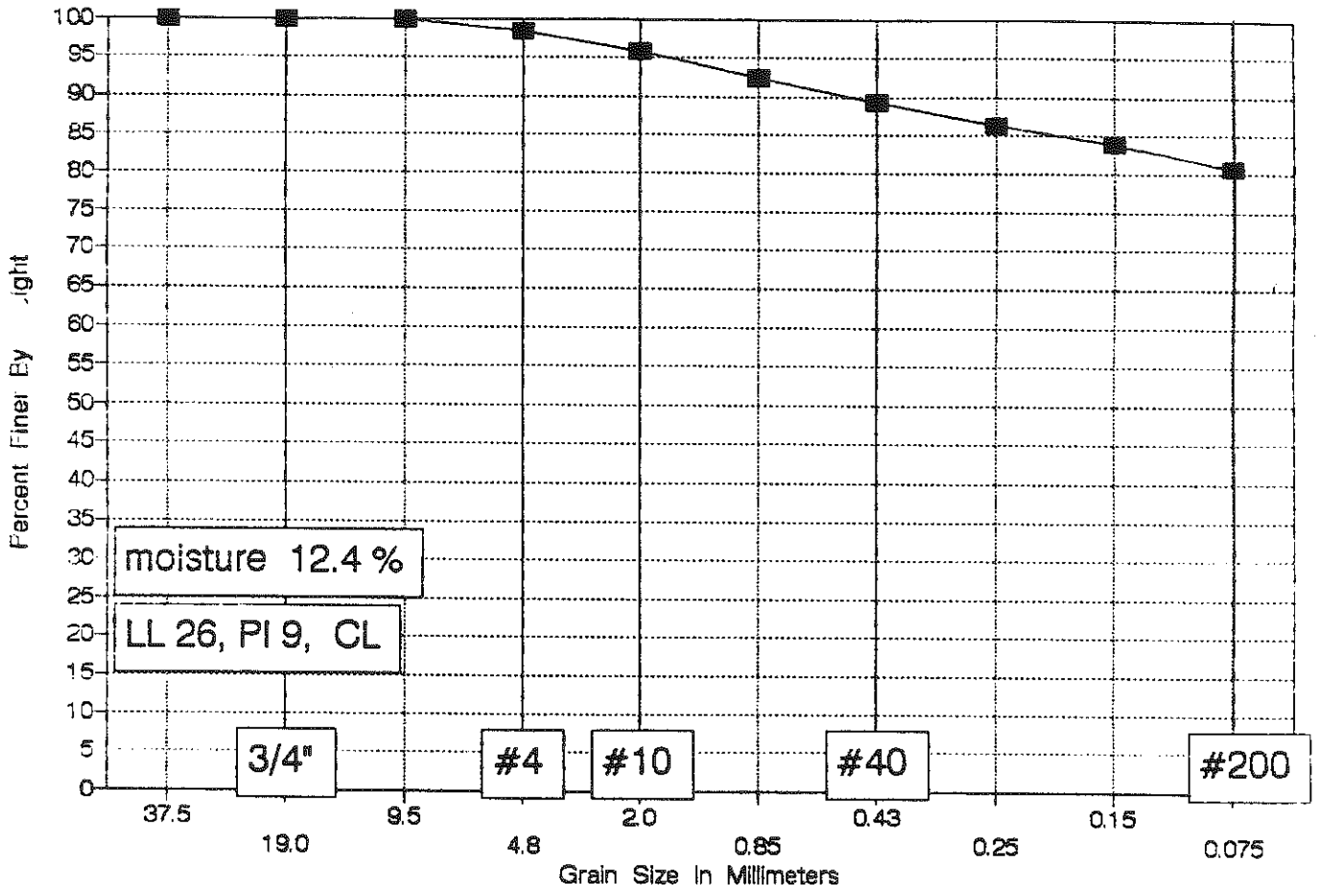
SIEVE ANALYSIS

Dry weight of total sample= 153.8

Sieve #	weight retained	% Finer		
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	0	100.00%	100.0	19.0
3/8 inch	1.6	98.96%	99.0	9.5
# 4	4.4	97.14%	97.1	4.8
# 10	7.3	95.25%	95.3	2.0
# 20	11.7	92.39%	92.4	0.85
# 40	15.7	89.79%	89.8	0.43
# 60	19.7	87.19%	87.2	0.25
# 100	23.6	84.66%	84.7	0.15
# 200	29.2	81.01%	81.0	0.075

GRADATION CURVE

Boring C-5 sample 21 at 60 to 62 feet



CWM RFI Phase II

Boring C-5
Sample 21
Depth 60-62 feet
Moisture Content = 12.4

Wt soil and dish 250.7
Dry soil & dish 234.8
Dish 106.1

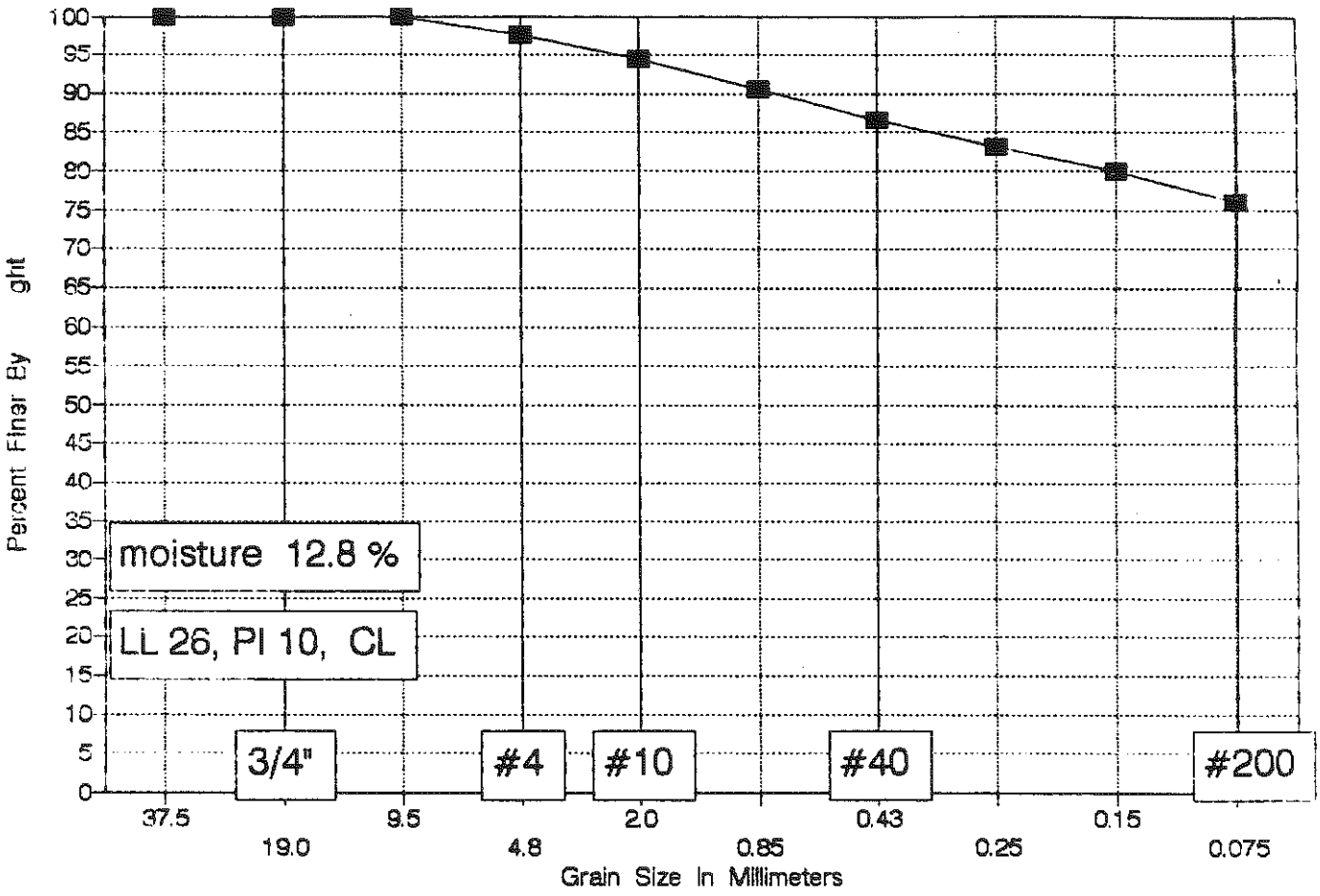
SIEVE ANALYSIS

Dry weight of total sample= 128.7

Sieve #	weight retained	% Finer		
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	0	100.00%	100.0	19.0
3/8 inch	0	100.00%	100.0	9.5
# 4	2	98.45%	98.4	4.8
# 10	5.3	95.88%	95.9	2.0
# 20	9.8	92.39%	92.4	0.85
# 40	13.8	89.28%	89.3	0.43
# 60	17.6	86.32%	86.3	0.25
# 100	20.8	83.84%	83.8	0.15
# 200	24.9	80.65%	80.7	0.075

GRADATION CURVE

Boring C-5 sample 25 at 68 to 70 feet



CWM RFI Phase II

Boring C-5
Sample 25
Depth 68-70 feet
Moisture Content = 12.8

Wt soil and dish 262
Dry soil & dish 244.7
Dish 109.6

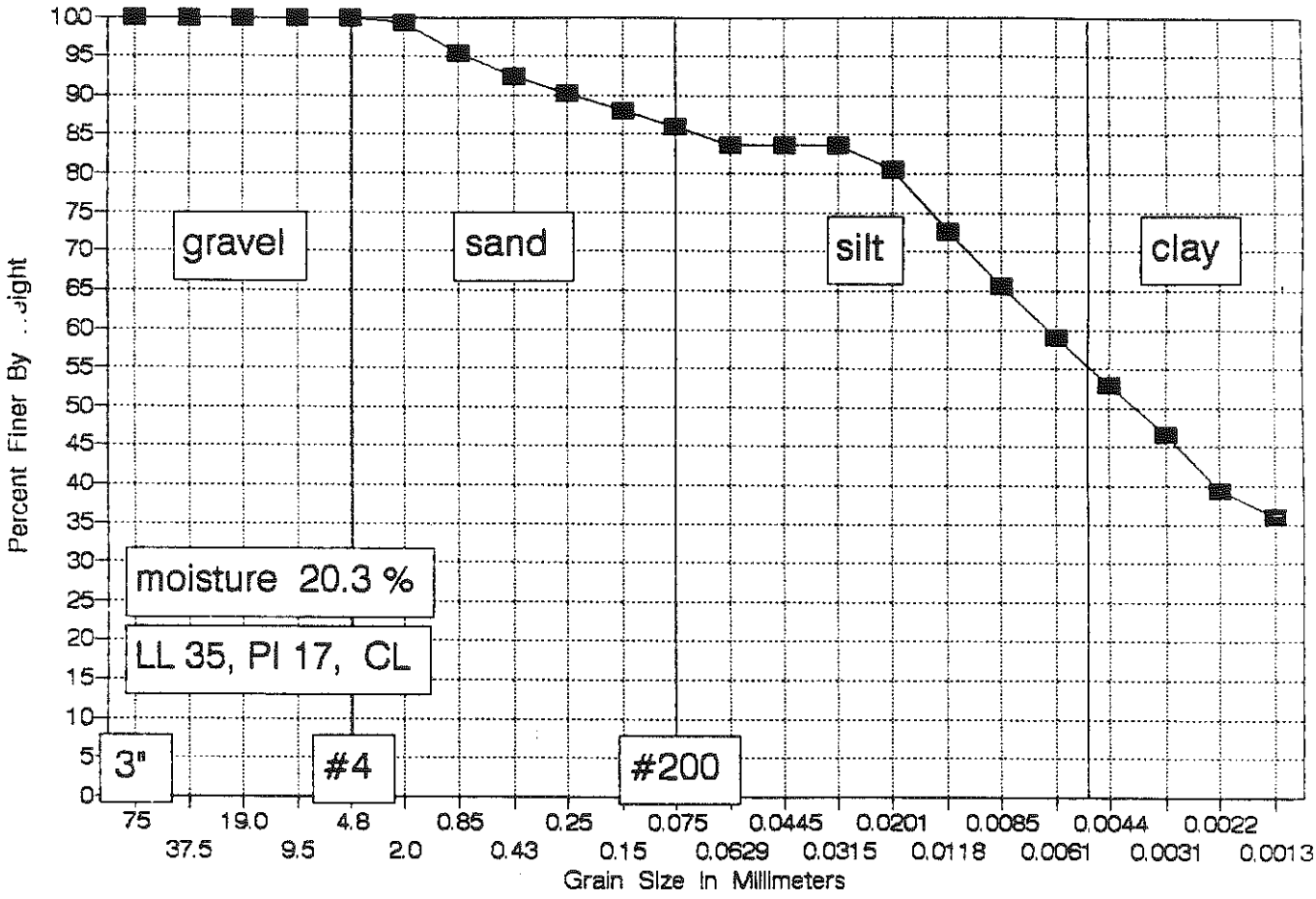
SIEVE ANALYSIS

Dry weight of total sample= 135.1

Sieve #	weight retained	% Finer		
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	0	100.00%	100.0	19.0
3/8 inch	0	100.00%	100.0	9.5
# 4	3.1	97.71%	97.7	4.8
# 10	7.5	94.45%	94.4	2.0
# 20	12.8	90.53%	90.5	0.85
# 40	17.9	86.75%	86.8	0.43
# 60	22.7	83.20%	83.2	0.25
# 100	27.2	79.87%	79.9	0.15
# 200	32.4	76.02%	76.0	0.075

GRADATION CURVE

Boring C-6 sample at 22 to 24 feet



Chemical Waste Management RFI Phase II

Boring C-6
Sample at 22 to 24 feet

Wt soil and dish	288.5
Dry soil & dish	257.7
Dish	106.3

Moisture Content = 20.3

SIEVE & HYDROMETER ANALYSIS

SIEVE PORTION

Dry weight of TOTAL sample= 151.4
sample split -#10 sieve = 35.62

Sieve #	Weight Retained	Total Percent Finer
1.5 inch		100.00%
3/4 inch	0	100.00%
3/8 inch	0	100.00%
# 4	0	100.00%
# 10	1.1	99.27%
# 20	1.41	95.34%
# 40	2.42	92.53%
# 60	3.27	90.16%
# 100	4.04	88.01%
# 200	4.8	85.90%

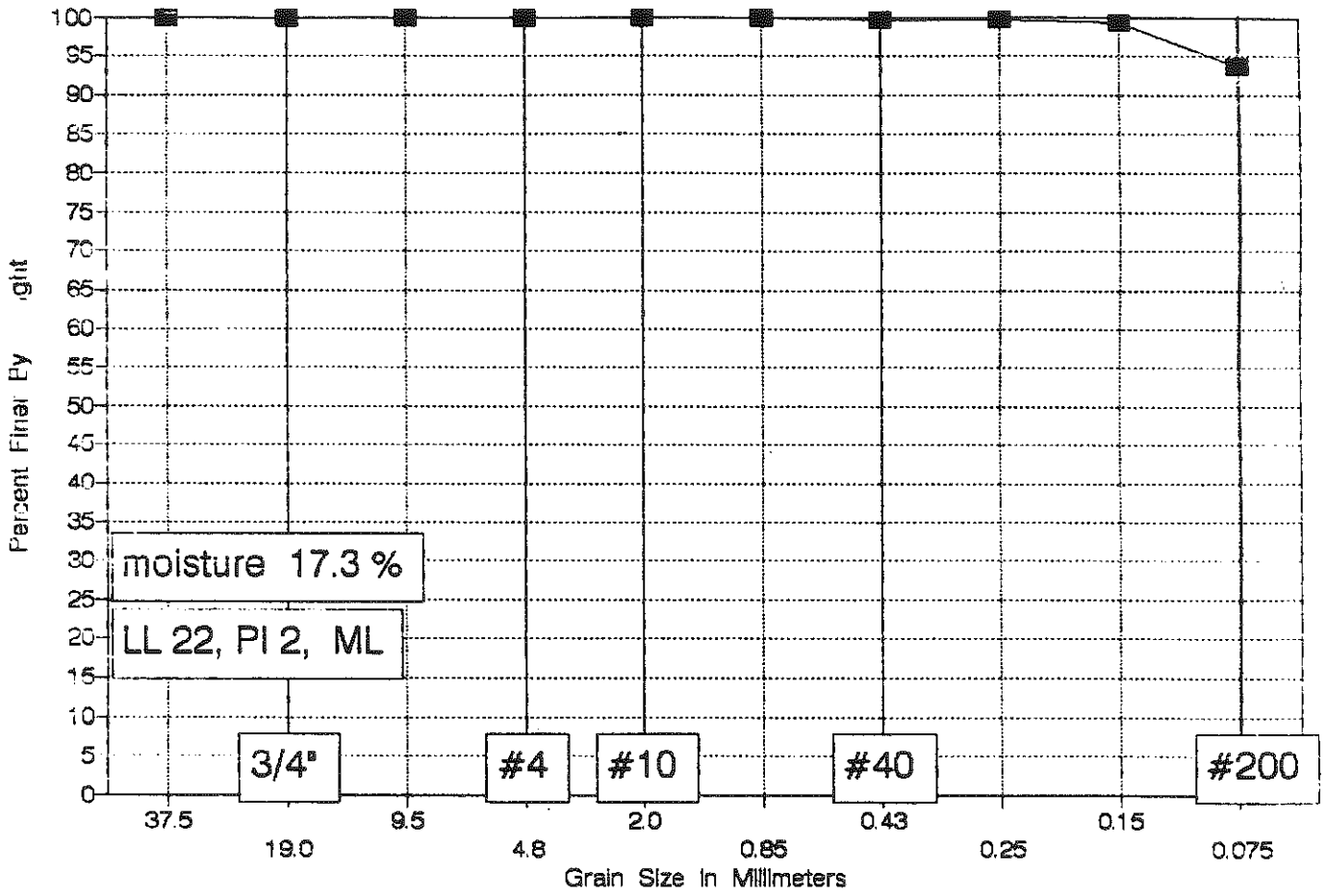
Constants this test
Gs= 2.65 20c=.01365 21c=.01348 22c=.01332
18c=.01399 19c=.01382
When 5 grams of Sodium
Hexametaphosphate used correction
= 6

HYDROMETER ANALYSIS

Elapsed time	Tc	R'	Zr	Particle Dia. mm	Percent Partial	Total Percent Finer
0.5	19	36	10.36	0.0629	84.22	83.61
1	19	36	10.36	0.0445	84.22	83.61
2	19	36	10.36	0.0315	84.22	83.61
5	19	34.9	10.54	0.0201	81.13	80.54
15	19	32.1	11.00	0.0118	73.27	72.74
30	19	29.5	11.43	0.0085	65.97	65.49
60	19	27.2	11.81	0.0061	59.52	59.08
120	19	25	12.18	0.0044	53.34	52.95
250	20	22.7	12.55	0.0031	46.88	46.54
500	20	20.1	12.98	0.0022	39.58	39.30
1470	20	18.9	13.18	0.0013	36.22	35.95

GRADATION CURVE

Boring C-6 sample 5 at 26 to 28 feet



CWM RFI Phase II

Boring C-6
Sample 5
Depth 26-28 feet
Moisture Content = 17.3

Wt soil and dish	225.6
Dry soil & dish	208.3
Dish	108.4

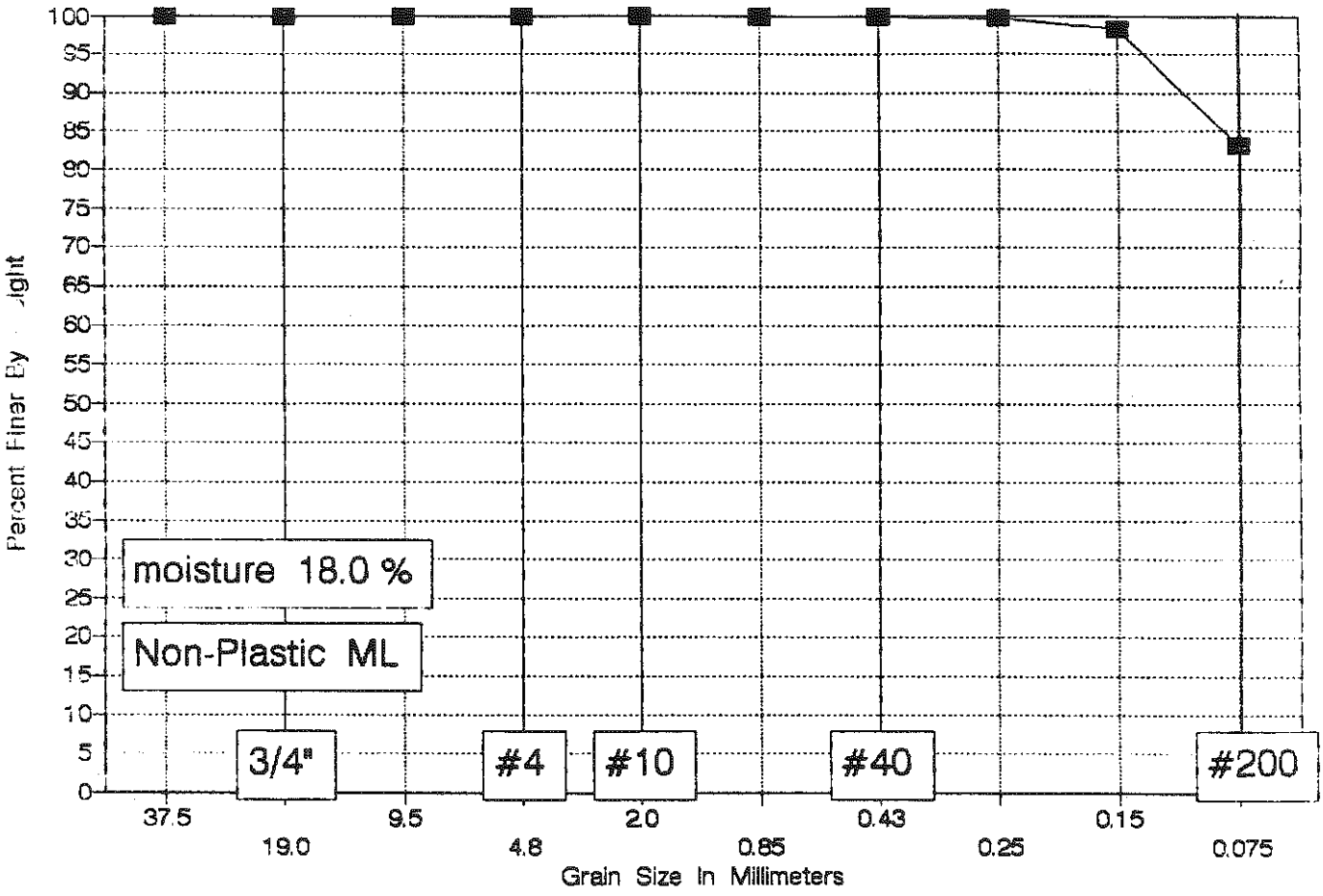
SIEVE ANALYSIS

Dry weight of total sample= 99.9

Sieve #	weight retained	% Finer		
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	0	100.00%	100.0	19.0
3/8 inch	0	100.00%	100.0	9.5
# 4	0	100.00%	100.0	4.8
# 10	0	100.00%	100.0	2.0
# 20	0.1	99.90%	99.9	0.85
# 40	0.2	99.80%	99.8	0.43
# 60	0.3	99.70%	99.7	0.25
# 100	0.7	99.30%	99.3	0.15
# 200	6.2	93.79%	93.8	0.075

GRADATION CURVE

Boring C-6 sample 7 at 32 to 34 feet



CWM RFI Phase II

Boring C-6
Sample 7
Depth 32-34 feet
Moisture Content = 18.0

Wt soil and dish	257.2
Dry soil & dish	235.3
Dish	113.7

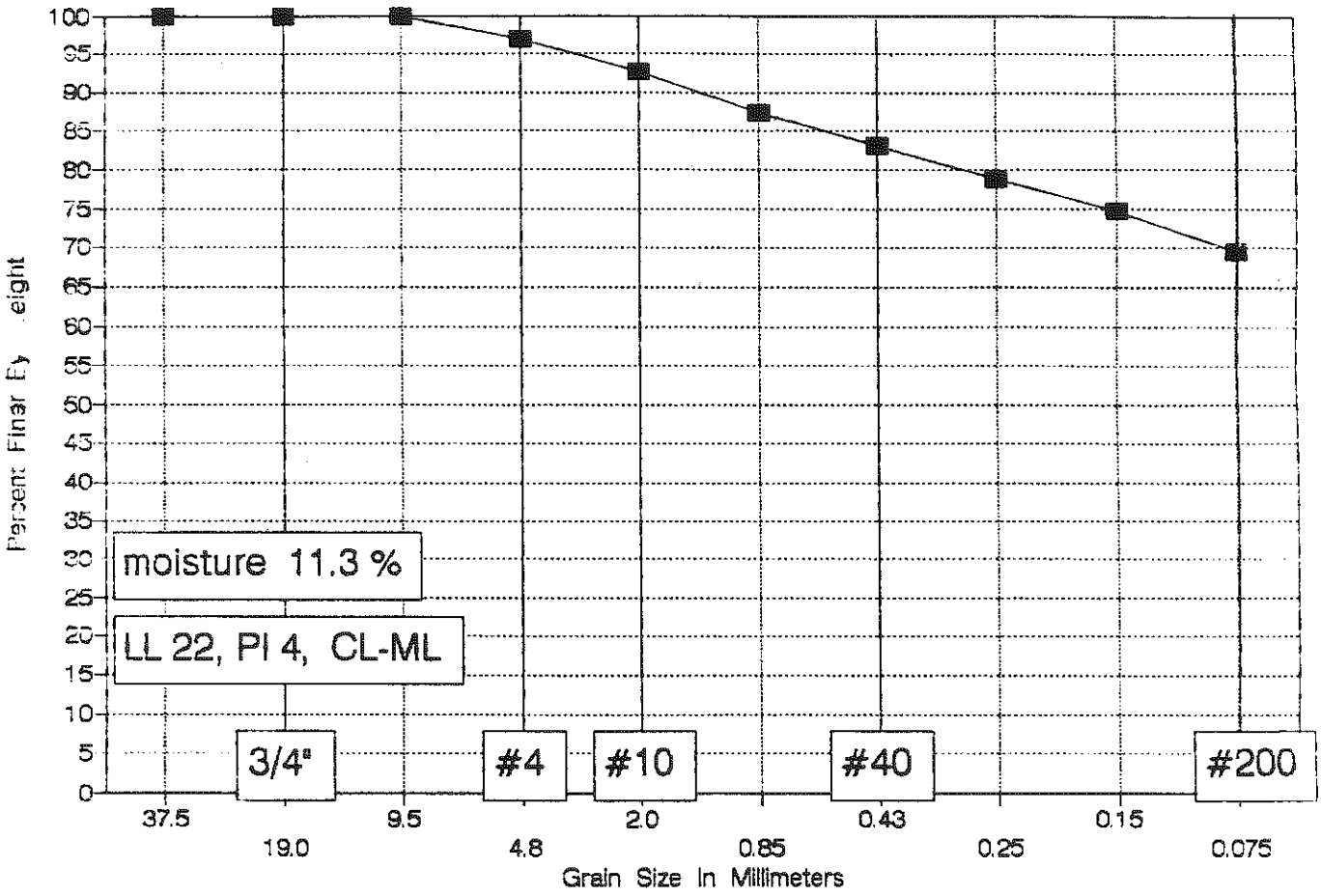
SIEVE ANALYSIS

Dry weight of total sample= 121.6

Sieve #	weight retained	% Finer		
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	0	100.00%	100.0	19.0
3/8 inch	0	100.00%	100.0	9.5
# 4	0	100.00%	100.0	4.8
# 10	0	100.00%	100.0	2.0
# 20	0	100.00%	100.0	0.85
# 40	0.1	99.92%	99.9	0.43
# 60	0.3	99.75%	99.8	0.25
# 100	2.2	98.19%	98.2	0.15
# 200	20.6	83.06%	83.1	0.075

GRADATION CURVE

Boring C-6 sample 9 at 36 to 38 feet



CWM RFI Phase II

Boring C-6
Sample 9
Depth 36-38 feet
Moisture Content = 11.3

Wt soil and dish	214.2
Dry soil & dish	203.9
Dish	113

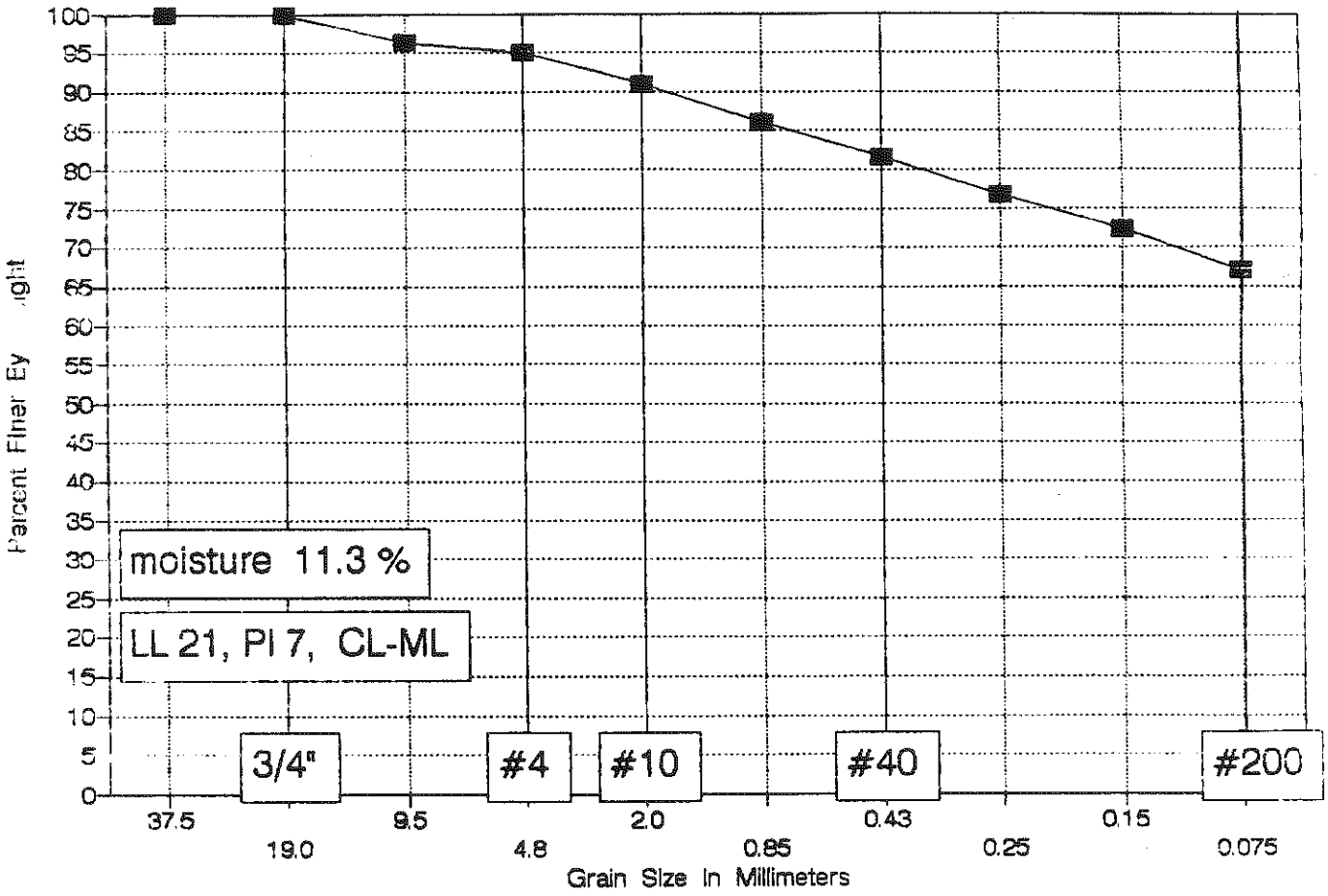
SIEVE ANALYSIS

Dry weight of total sample= 90.9

Sieve #	weight retained	% Finer		
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	0	100.00%	100.0	19.0
3/8 inch	0	100.00%	100.0	9.5
# 4	2.8	96.92%	96.9	4.8
# 10	6.7	92.63%	92.6	2.0
# 20	11.4	87.46%	87.5	0.85
# 40	15.4	83.06%	83.1	0.43
# 60	19.3	78.77%	78.8	0.25
# 100	23	74.70%	74.7	0.15
# 200	27.7	69.53%	69.5	0.075

GRADATION CURVE

Boring C-6 sample 13 at 44 to 46 feet



CWM RFI Phase II

Boring C-6
Sample 13
Depth 44-46 feet
Moisture Content = 11.3

Wt soil and dish 267.9
Dry soil & dish 251.8
Dish 108.8

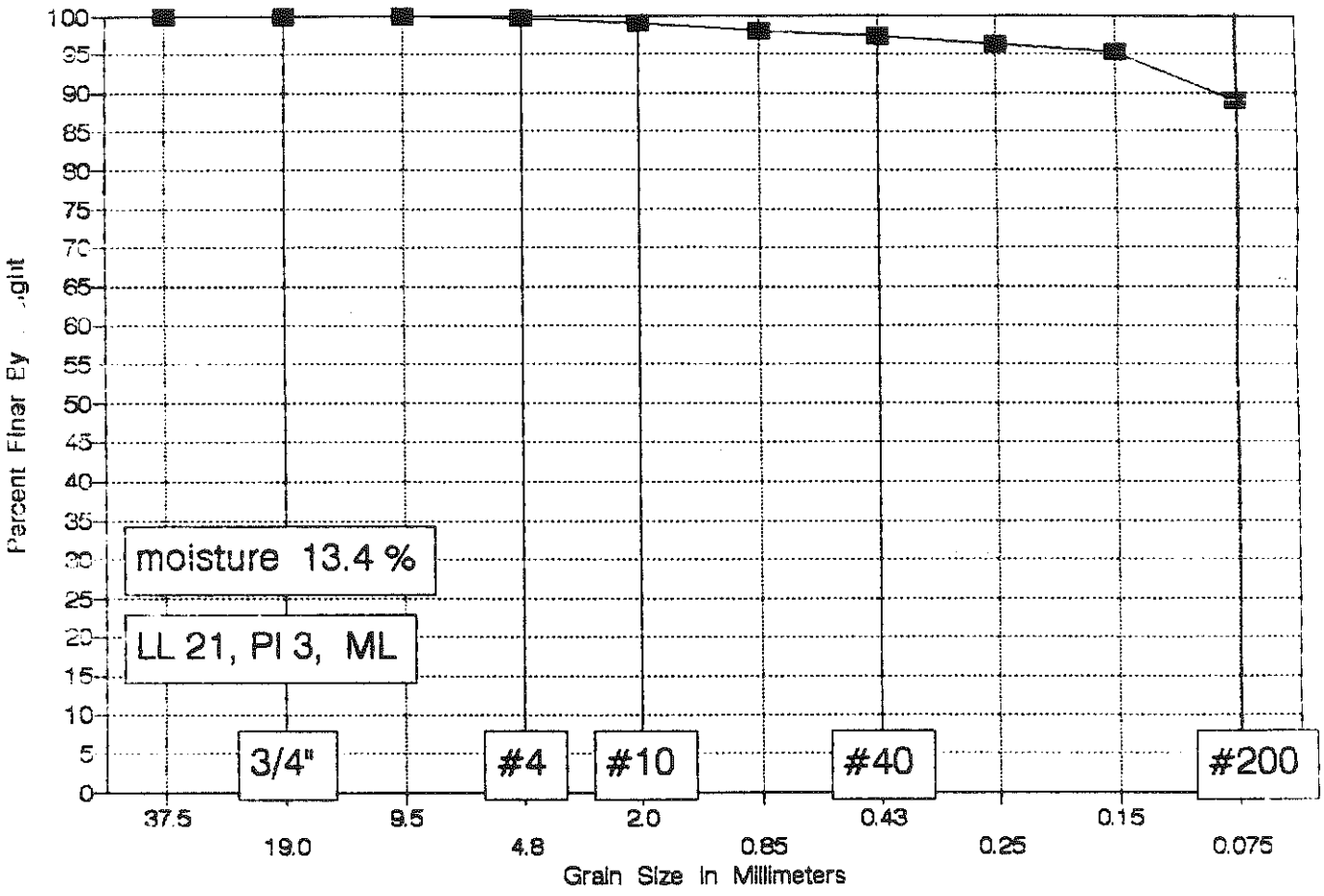
SIEVE ANALYSIS

Dry weight of total sample= 143

Sieve #	weight retained	% Finer		
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	0	100.00%	100.0	19.0
3/8 inch	5.1	96.43%	96.4	9.5
# 4	7	95.10%	95.1	4.8
# 10	13	90.91%	90.9	2.0
# 20	19.8	86.15%	86.2	0.85
# 40	26.2	81.68%	81.7	0.43
# 60	33.1	76.85%	76.9	0.25
# 100	39.6	72.31%	72.3	0.15
# 200	47.2	66.99%	67.0	0.075

GRADATION CURVE

Boring C-6 sample 17 at 52 to 54 feet



CWM RFI Phase II

Boring C-6
Sample 17
Depth 52-54 feet
Moisture Content = 13.4

Wt soil and dish	264.6
Dry soil & dish	246.1
Dish	108.1

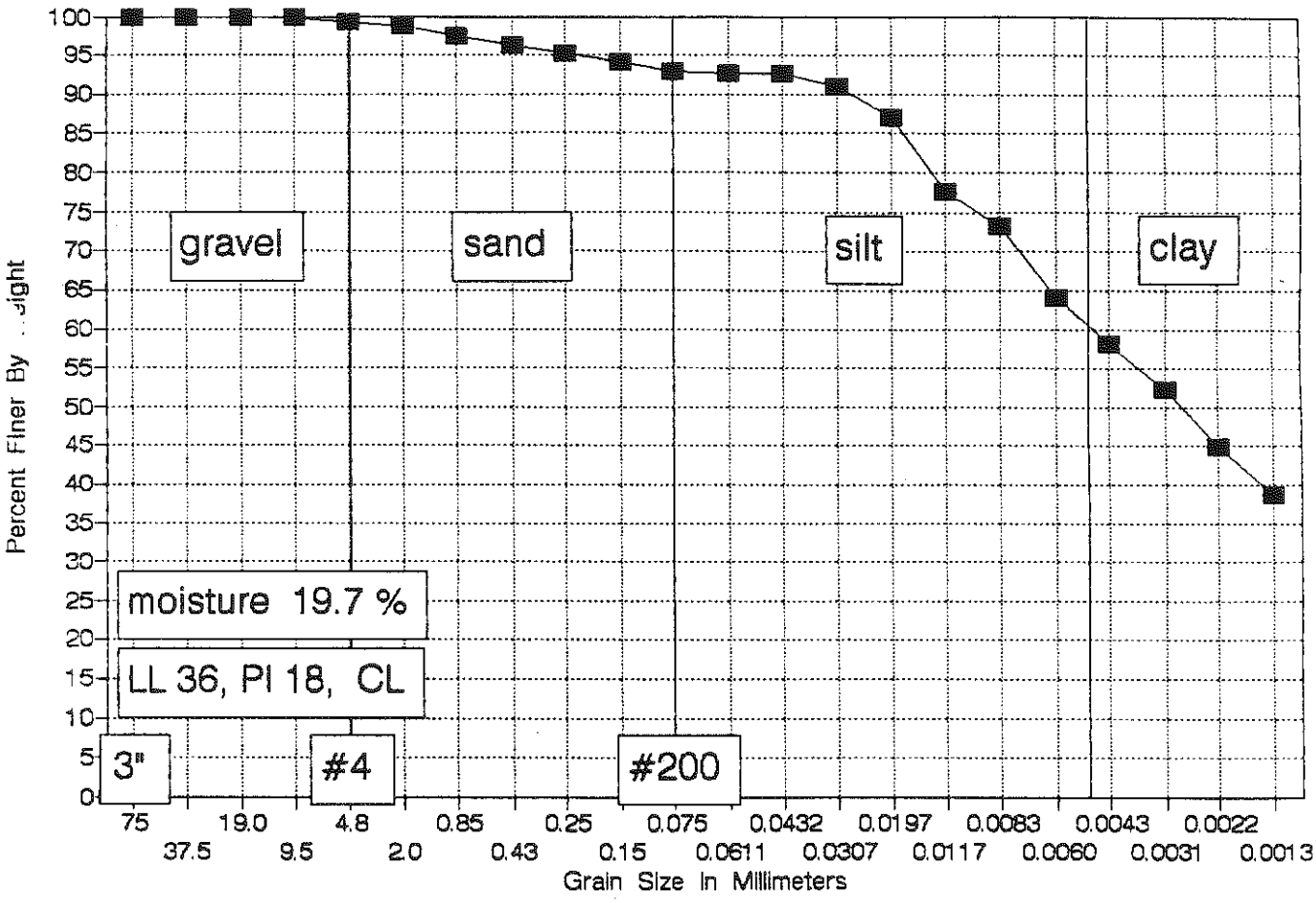
SIEVE ANALYSIS

Dry weight of total sample= 138

Sieve #	weight retained	% Finer		
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	0	100.00%	100.0	19.0
3/8 inch	0	100.00%	100.0	9.5
# 4	0.5	99.64%	99.6	4.8
# 10	1.4	98.99%	99.0	2.0
# 20	2.7	98.04%	98.0	0.85
# 40	3.8	97.25%	97.2	0.43
# 60	5	96.38%	96.4	0.25
# 100	6.5	95.29%	95.3	0.15
# 200	15.3	88.91%	88.9	0.075

GRADATION CURVE

Boring C-7 sample at 29 to 31 feet



Chemical Waste Management RFI Phase II

Boring C-7
Sample at 29 to 31 feet

Wt soil and dish	270
Dry soil & dish	242.4
Dish	102.6

Moisture Content = 19.7

SIEVE & HYDROMETER ANALYSIS

SIEVE PORTION

Dry weight of TOTAL sample= 139.8
sample split -#10 sieve = 35.72

Sieve #	Weight Retained	Total Percent Finer
1.5 inch		100.00%
3/4 inch	0	100.00%
3/8 inch	0	100.00%
# 4	0.9	99.36%
# 10	1.7	98.78%
# 20	0.48	97.46%
# 40	0.85	96.43%
# 60	1.3	95.19%
# 100	1.67	94.17%
# 200	2.12	92.92%

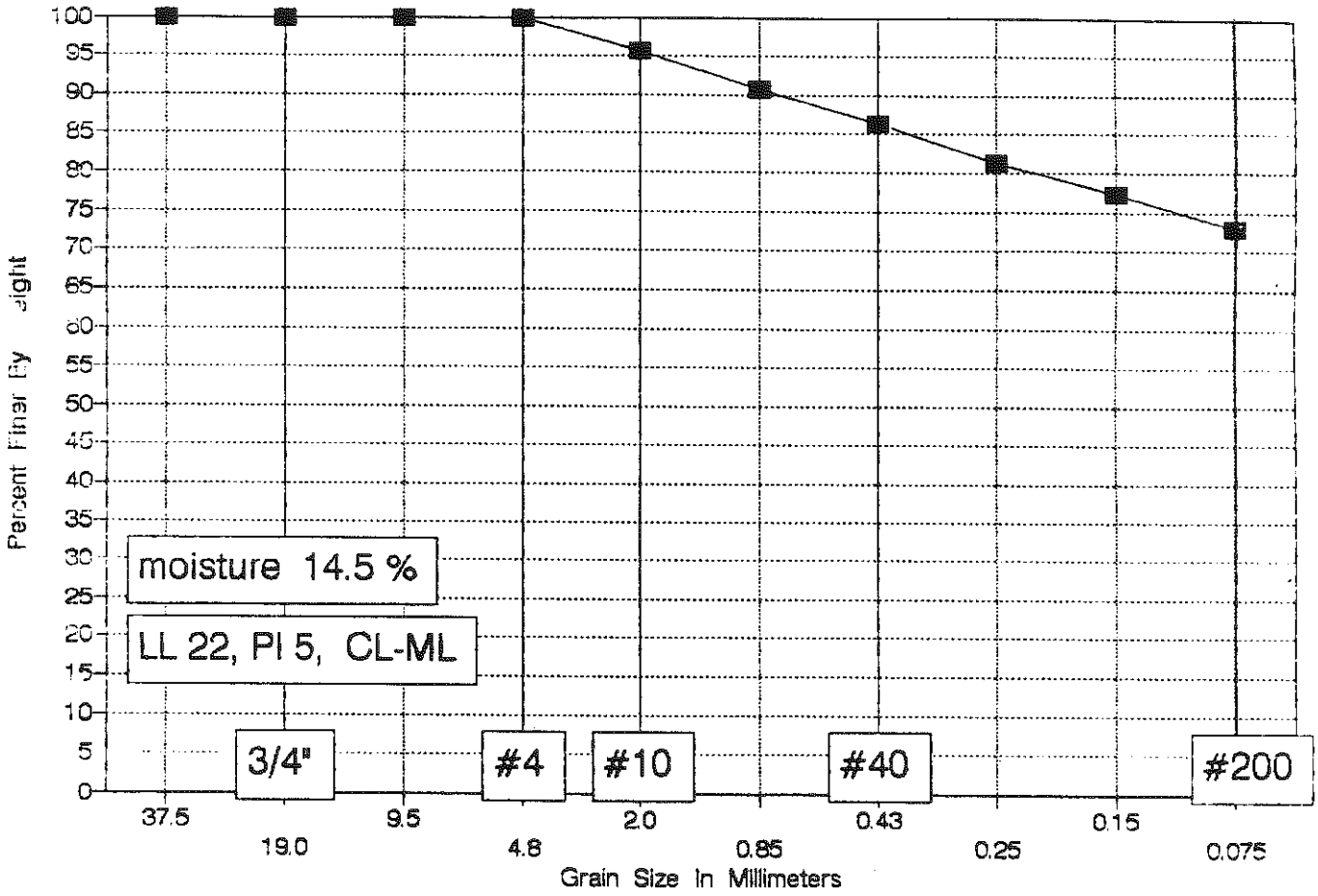
Constants this test
Gs= 2.65 20c=.01365 21c=.01348 22c=.01332
18c=.01399 19c=.01382
When 5 grams of Sodium Hexametaphosphate used correction = 6

HYDROMETER ANALYSIS

Elapsed time	Tc	R'	Zr	Particle Dia. mm	Percent Partial	Total Percent Finer
0.5	19	39.5	9.78	0.0611	93.78	92.64
1	19	39.5	9.78	0.0432	93.78	92.64
2	19	38.9	9.88	0.0307	92.11	90.99
5	19	37.5	10.11	0.0197	88.19	87.11
15	19	34.1	10.67	0.0117	78.67	77.71
30	19	32.5	10.94	0.0083	74.19	73.29
60	19	29.2	11.48	0.0060	64.95	64.16
120	19	27	11.85	0.0043	58.79	58.08
250	20	24.9	12.19	0.0031	52.91	52.27
500	20	22.2	12.64	0.0022	45.35	44.80
1468	20	20	13.00	0.0013	39.19	38.72

GRADATION CURVE

Boring C-7 sample 6 at 35 to 37 feet



CWM RFI Phase II

Boring C-7
Sample 6
Depth 35-37 feet
Moisture Content = 14.5

Wt soil and dish 245
Dry soil & dish 227.6
Dish 108

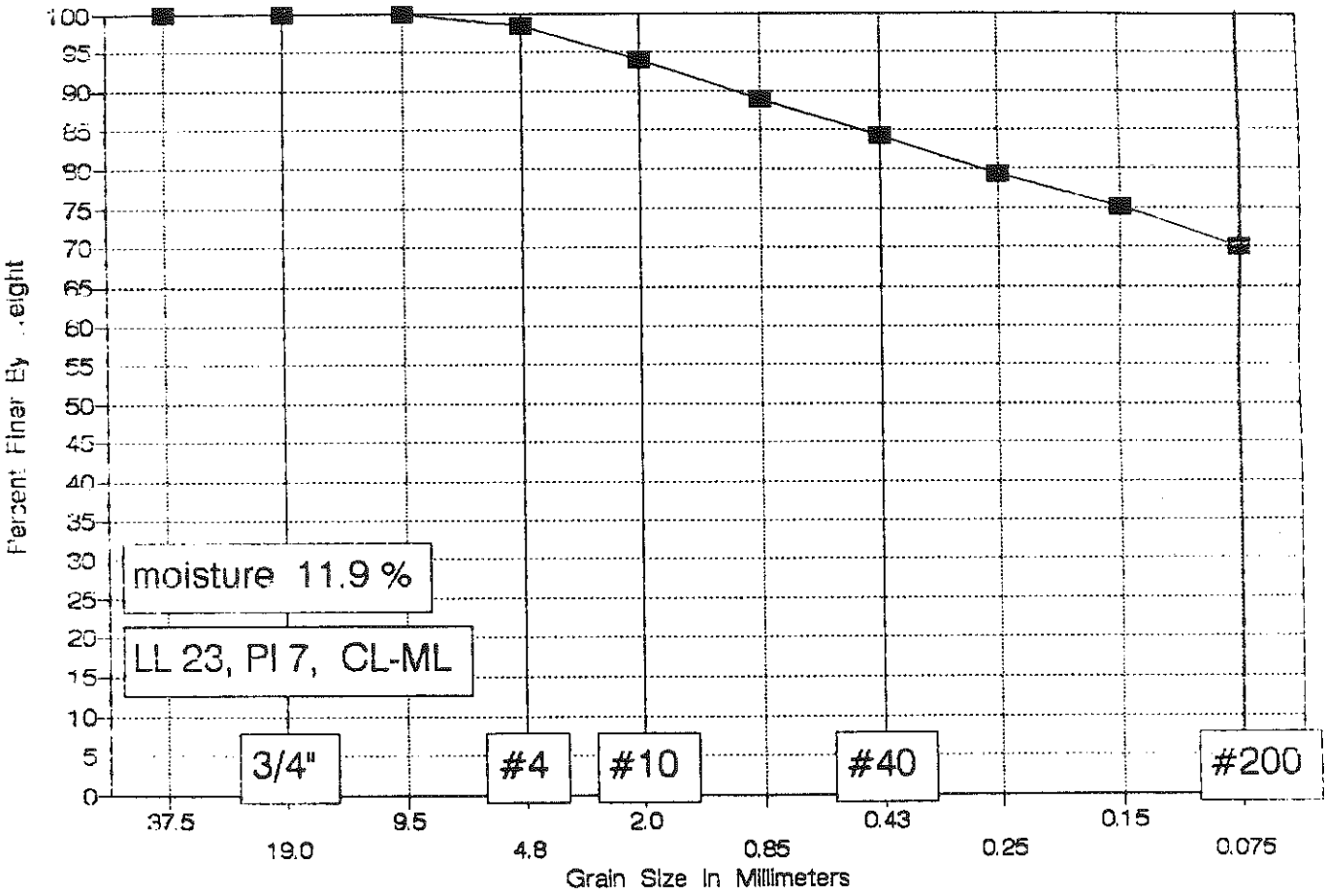
SIEVE ANALYSIS

Dry weight of total sample= 119.6

Sieve #	weight retained	% Finer		
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	0	100.00%	100.0	19.0
3/8 inch	0	100.00%	100.0	9.5
# 4	0	100.00%	100.0	4.8
# 10	5.2	95.65%	95.7	2.0
# 20	11	90.80%	90.8	0.85
# 40	16.3	86.37%	86.4	0.43
# 60	22.4	81.27%	81.3	0.25
# 100	27.2	77.26%	77.3	0.15
# 200	32.5	72.83%	72.8	0.075

GRADATION CURVE

Boring C-7 sample 9 at 41 to 43 feet



JWM RFI Phase II

Boring C-7
Sample 9
Depth 41-43 feet
Moisture Content = 11.9

Wt soil and dish	319
Dry soil & dish	296.1
Dish	104.3

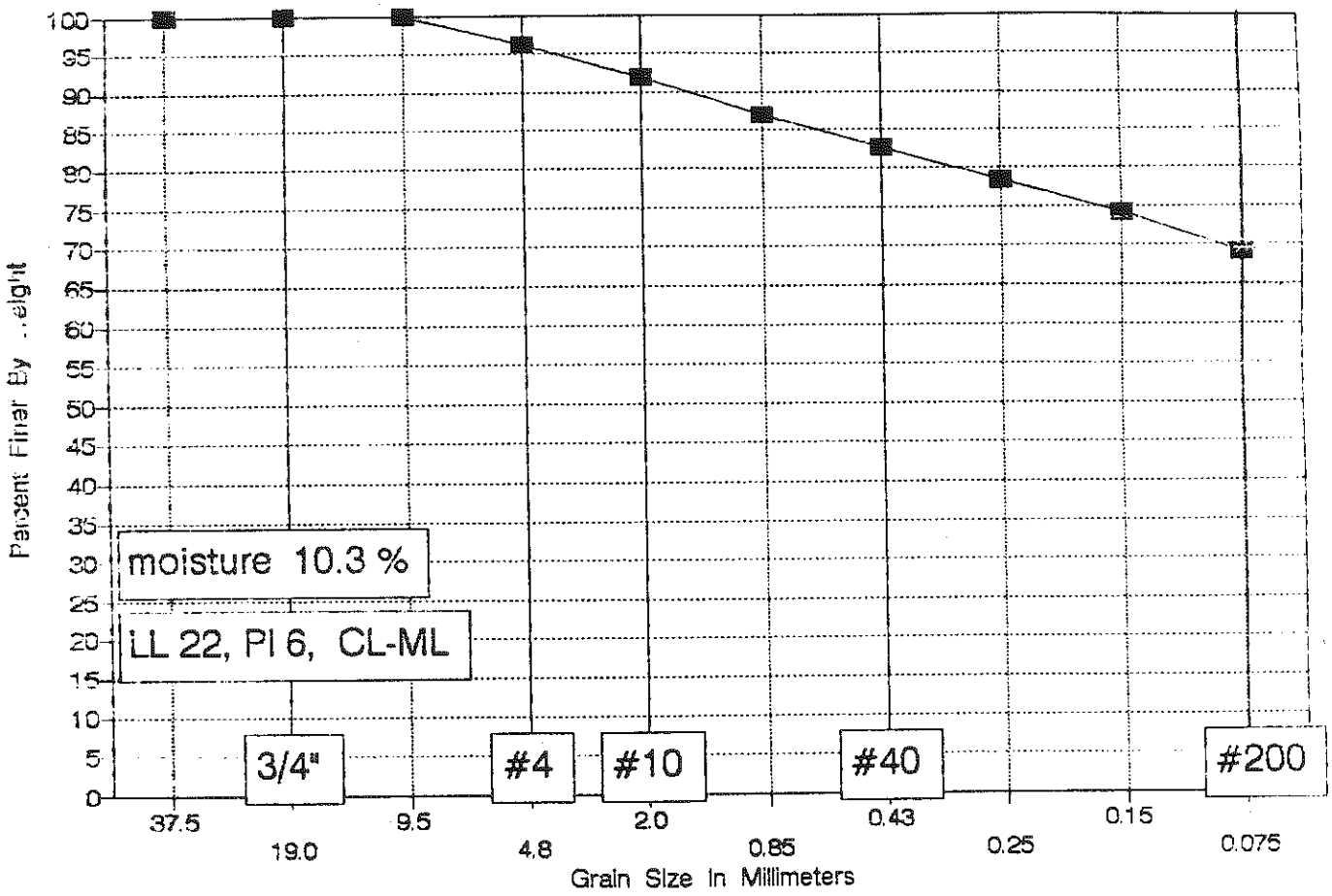
SIEVE ANALYSIS

Dry weight of total sample= 191.8

Sieve #	weight retained	% Finer		
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	0	100.00%	100.0	19.0
3/8 inch	0	100.00%	100.0	9.5
# 4	2.9	98.49%	98.5	4.8
# 10	11.7	93.90%	93.9	2.0
# 20	21.4	88.84%	88.8	0.85
# 40	30.4	84.15%	84.2	0.43
# 60	39.5	79.41%	79.4	0.25
# 100	47.8	75.08%	75.1	0.15
# 200	57.5	70.02%	70.0	0.075

GRADATION CURVE

Boring C-7 sample 12x at 47 to 49 feet



CWM RFI Phase II

Boring C-7
Sample 12x
Depth 47-49 feet
Moisture Content = 10.3

Wt soil and dish	246.3
Dry soil & dish	232.9
Dish	102.5

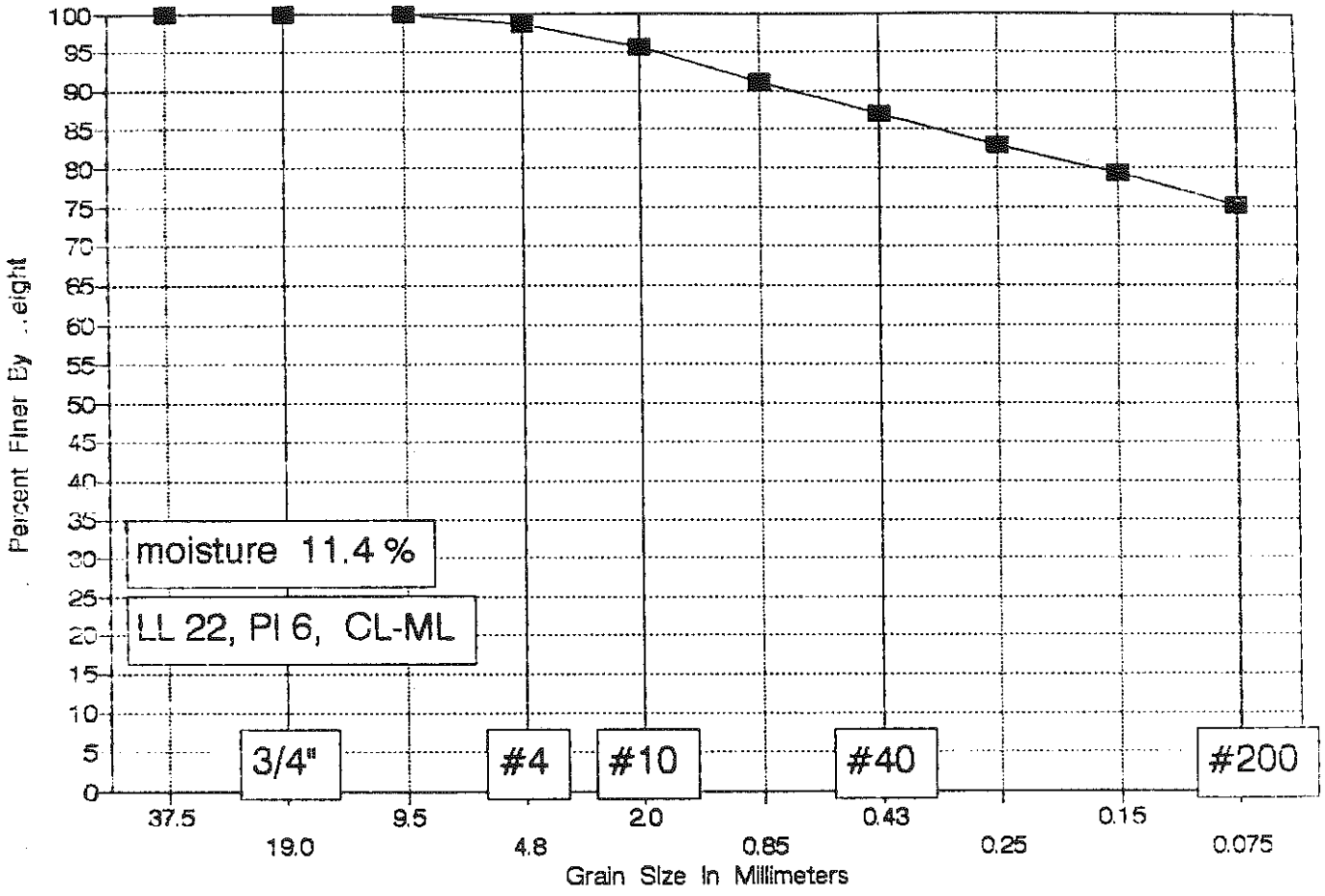
SIEVE ANALYSIS

Dry weight of total sample= 130.4

Sieve #	weight retained	% Finer		
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	0	100.00%	100.0	19.0
3/8 inch	0	100.00%	100.0	9.5
# 4	5.1	96.09%	96.1	4.8
# 10	10.7	91.79%	91.8	2.0
# 20	16.9	87.04%	87.0	0.85
# 40	22.5	82.75%	82.7	0.43
# 60	28.2	78.37%	78.4	0.25
# 100	33.7	74.16%	74.2	0.15
# 200	40.3	69.10%	69.1	0.075

GRADATION CURVE

Boring C-7 sample 14 at 51 to 53 feet



CWM RFI Phase II

Boring C-7
Sample 14
Depth 51-53 feet
Moisture Content = 11.4

Wt soil and dish	286
Dry soil & dish	268
Dish	110.1

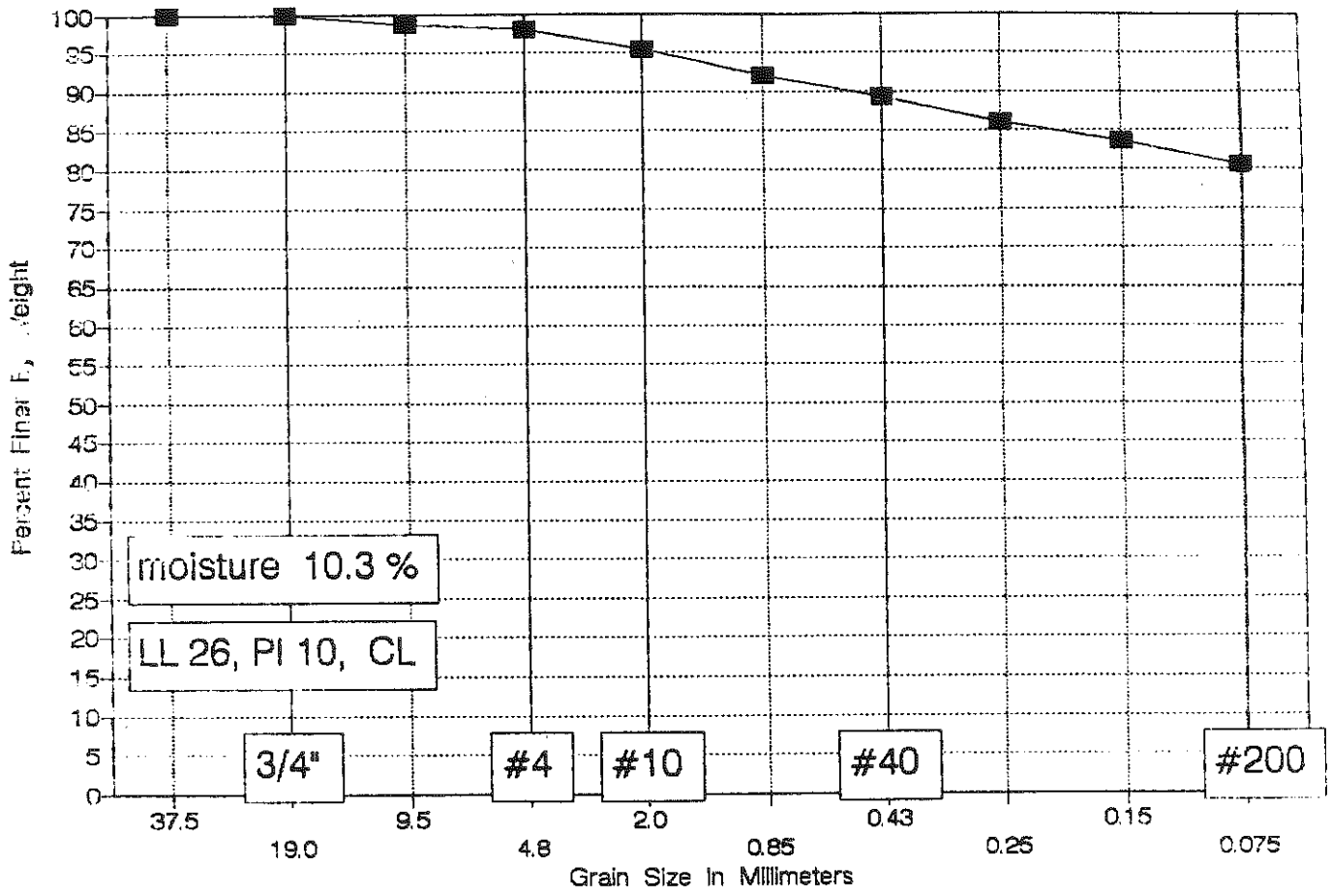
SIEVE ANALYSIS

Dry weight of total sample= 157.9

Sieve #	weight retained	% Finer		
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	0	100.00%	100.0	19.0
3/8 inch	0	100.00%	100.0	9.5
# 4	2.1	98.67%	98.7	4.8
# 10	7	95.57%	95.6	2.0
# 20	14.1	91.07%	91.1	0.85
# 40	20.5	87.02%	87.0	0.43
# 60	27	82.90%	82.9	0.25
# 100	32.6	79.35%	79.4	0.15
# 200	39.4	75.05%	75.0	0.075

GRADATION CURVE

Boring C-7 sample 18 at 59 to 61 feet



CWM RFI Phase II

Boring C-7
Sample 18
Depth 59-61 feet
Moisture Content = 10.3

Wt soil and dish	277.5
Dry soil & dish	261.5
Dish	105.5

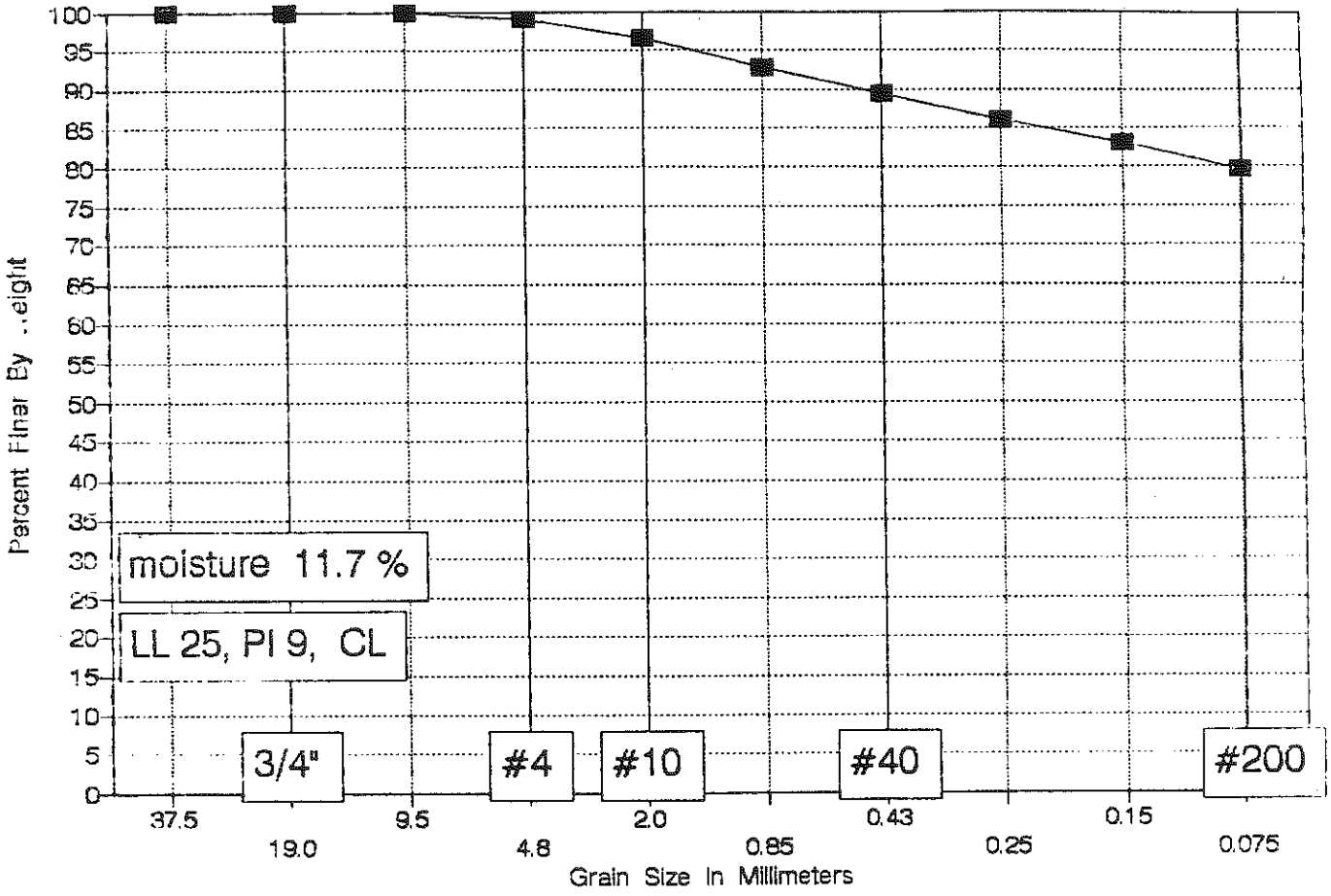
SIEVE ANALYSIS

Dry weight of total sample= 156

Sieve #	weight retained	% Finer		
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	0	100.00%	100.0	19.0
3/8 inch	2.2	98.59%	98.6	9.5
# 4	3.2	97.95%	97.9	4.8
# 10	7.2	95.38%	95.4	2.0
# 20	12.3	92.12%	92.1	0.85
# 40	16.8	89.23%	89.2	0.43
# 60	21.6	86.15%	86.2	0.25
# 100	25.5	83.65%	83.7	0.15
# 200	30.5	80.45%	80.4	0.075

GRADATION CURVE

Boring C-7 sample 19 at 66 to 68 feet



CWM RFI Phase II

Boring C-7
Sample 19
Depth 66-68 feet
Moisture Content = 11.7

Wt soil and dish	293
Dry soil & dish	273.5
Dish	106.5

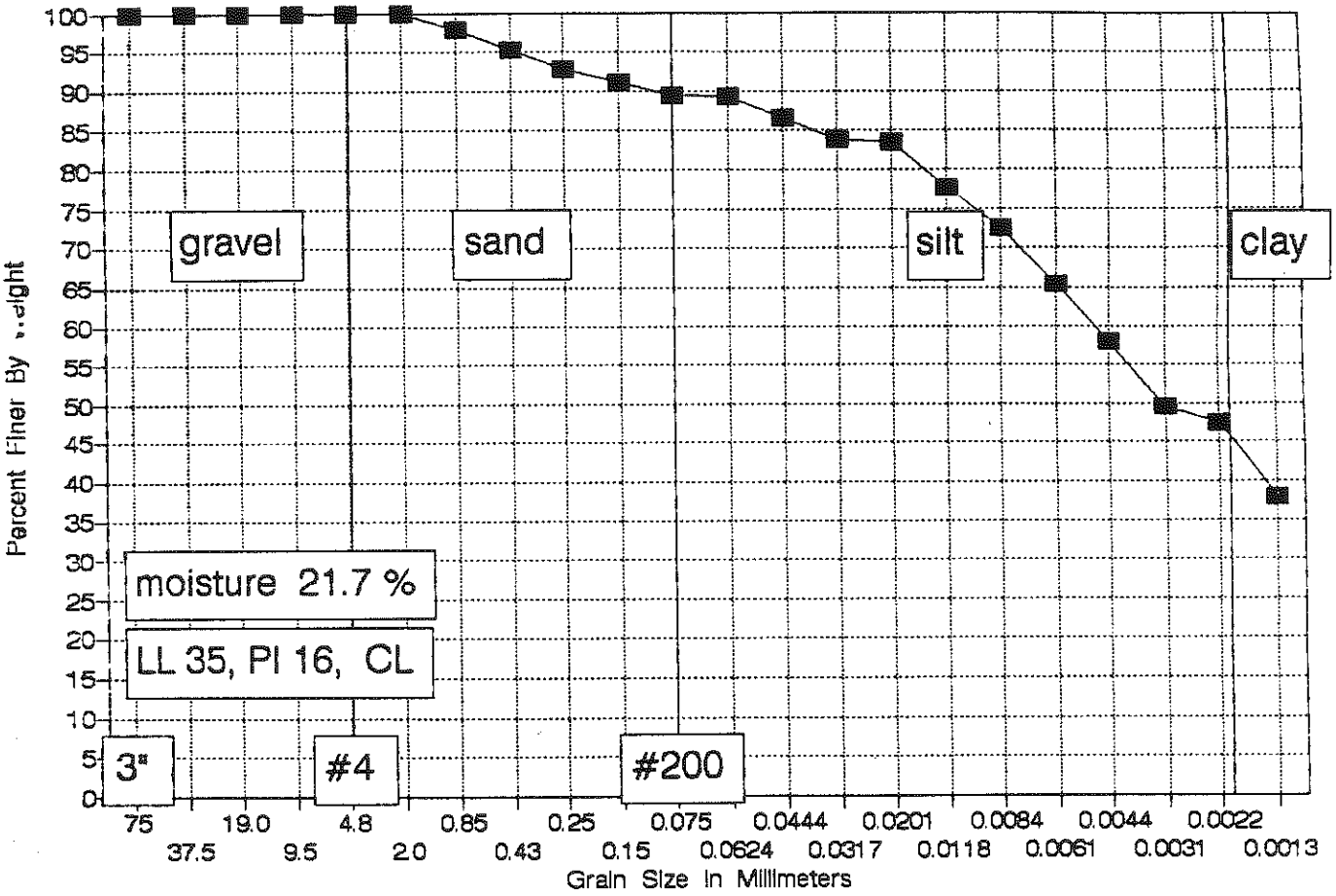
SIEVE ANALYSIS

Dry weight of total sample= 167

Sieve #	weight retained	% Finer		
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	0	100.00%	100.0	19.0
3/8 inch	0	100.00%	100.0	9.5
# 4	1.6	99.04%	99.0	4.8
# 10	5.9	96.47%	96.5	2.0
# 20	12	92.81%	92.8	0.85
# 40	17.5	89.52%	89.5	0.43
# 60	23.1	86.17%	86.2	0.25
# 100	28.1	83.17%	83.2	0.15
# 200	34	79.64%	79.6	0.075

GRADATION CURVE

Boring D-1 sample at 26 to 28 feet



Chemical Waste Management RFI Phase II

Boring D-1
Sample at 26 to 28 feet

Wt soil and dish	336.5
Dry soil & dish	296
Dish	109

Moisture Content = 21.7

SIEVE & HYDROMETER ANALYSIS

SIEVE PORTION

Dry weight of TOTAL sample= 187
sample split -#10 sieve = 34.73

Sieve #	Weight Retained	Total Percent Finer
1.5 inch		100.00%
3/4 inch	0	100.00%
3/8 inch	0	100.00%
# 4	0	100.00%
# 10	0	100.00%
# 20	0.76	97.81%
# 40	1.68	95.16%
# 60	2.47	92.89%
# 100	3.05	91.22%
# 200	3.68	89.40%

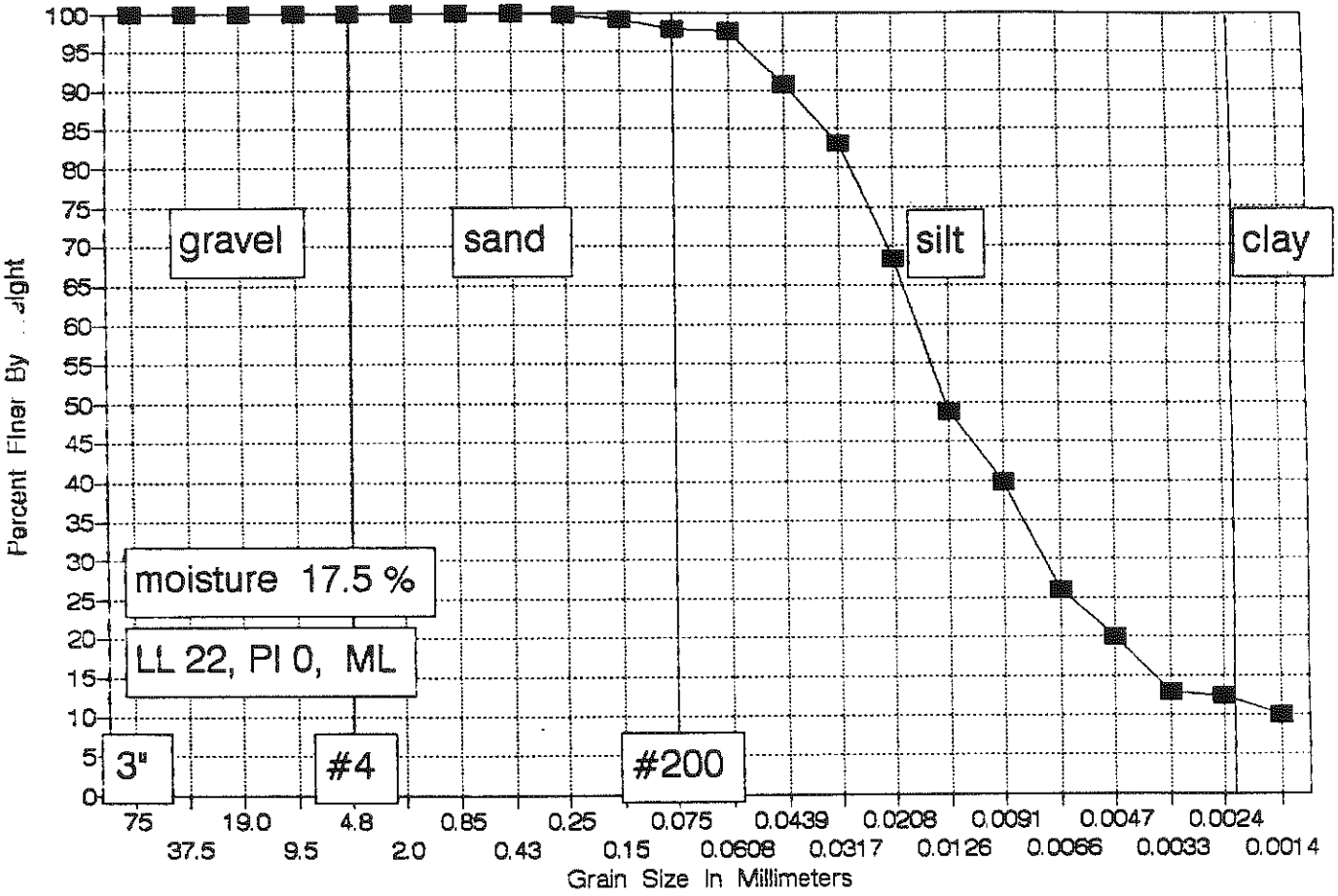
Constants this test
Gs= 2.65 20c=.01365 21c=.01348 22c=.01332
18c=.01399 19c=.01382
When 5 grams of Sodium Hexametaphosphate used correction = 6

HYDROMETER ANALYSIS

Elapsed time	Tc	R'	Zr	Particle Dia. mm	Percent Partial	Total Percent Finer
0.5	20	37	10.20	0.0624	89.26	89.26
1	20	36.1	10.34	0.0444	86.67	86.67
2	20	35.1	10.51	0.0317	83.79	83.79
5	20	35	10.53	0.0201	83.50	83.50
15	20	33	10.86	0.0118	77.74	77.74
30	20	31.2	11.15	0.0084	72.56	72.56
60	20	28.7	11.56	0.0061	65.36	65.36
120	20	26.1	11.99	0.0044	57.88	57.88
250	19	23.2	12.47	0.0031	49.52	49.52
500	19	22.5	12.59	0.0022	47.51	47.51
1521	20	19.2	13.13	0.0013	38.01	38.01

GRADATION CURVE

Boring D-1 sample at 30 to 32 feet



Chemical Waste Management RFI Phase II

Boring D-1
Sample at 30 to 32 feet

Wt soil and dish	282.9
Dry soil & dish	256.6
Dish	106.1

Moisture Content = 17.5

SIEVE & HYDROMETER ANALYSIS

SIEVE PORTION

Dry weight of TOTAL sample= 150.5
sample split -#10 sieve = 34.91

Sieve #	Weight Retained	Total Percent Finer
1.5 inch		100.00%
3/4 inch	0	100.00%
3/8 inch	0	100.00%
# 4	0	100.00%
# 10	0	100.00%
# 20	0.01	99.97%
# 40	0.04	99.89%
# 60	0.07	99.80%
# 100	0.31	99.11%
# 200	0.72	97.94%

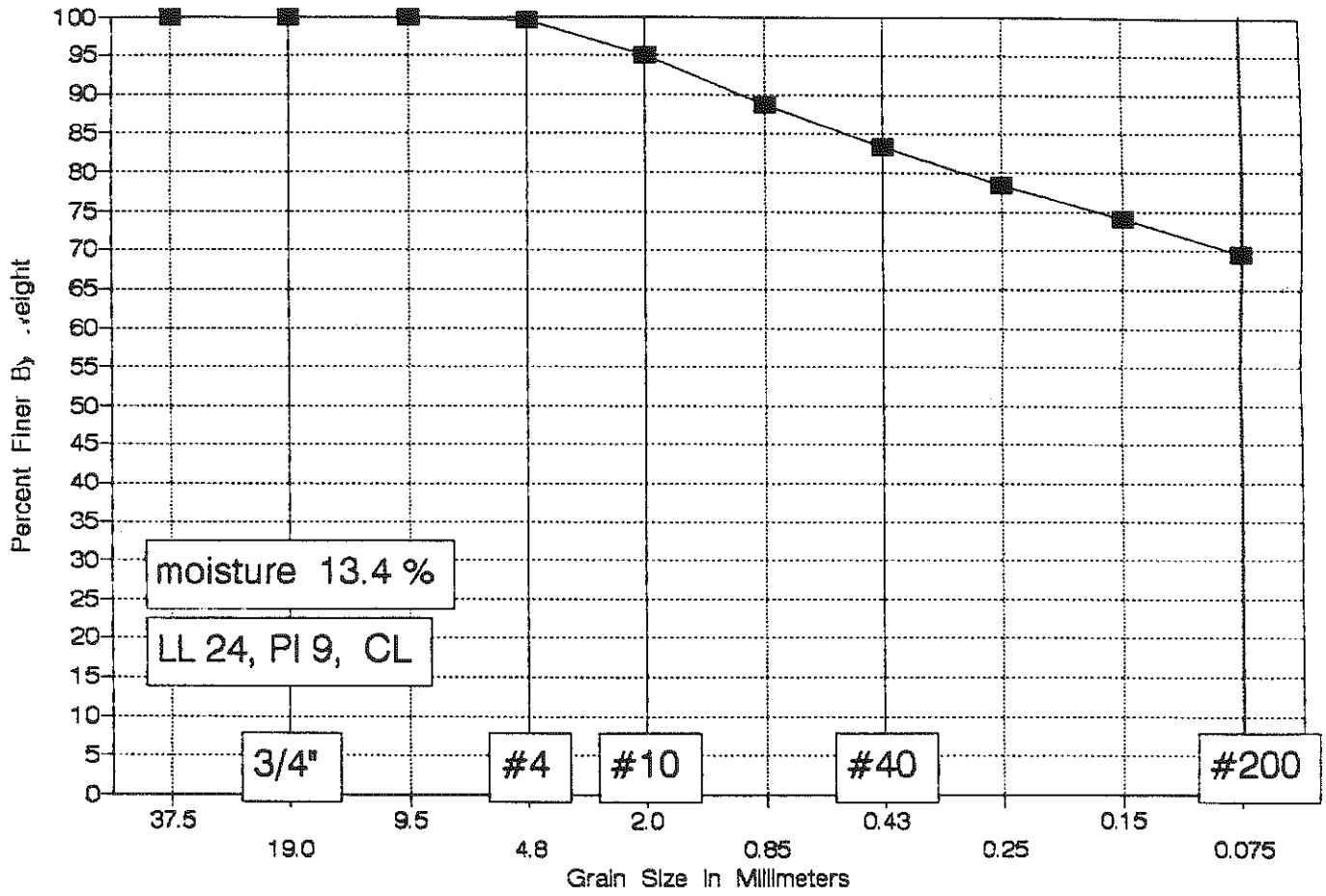
Constants this test
Gs= 2.65 20c=.01365 21c=.01348 22c=.01332
18c=.01399 19c=.01382
When 5 grams of Sodium Hexametaphosphate used correction = 6

HYDROMETER ANALYSIS

Elapsed time	Tc	R'	Zr	Particle Dia. mm	Percent Partial	Total Percent Finer
0.5	20	40.1	9.68	0.0608	97.68	97.68
1	20	37.7	10.08	0.0439	90.80	90.80
2	20	35	10.53	0.0317	83.07	83.07
5	20	29.9	11.37	0.0208	68.46	68.46
15	20	23	12.51	0.0126	48.70	48.70
30	20	19.9	13.02	0.0091	39.82	39.82
60	20	15.1	13.81	0.0066	26.07	26.07
120	20	13	14.16	0.0047	20.05	20.05
250	19	10.5	14.57	0.0033	12.89	12.89
500	19	10.3	14.60	0.0024	12.32	12.32
1533	20	9.5	14.73	0.0014	10.03	10.03

GRADATION CURVE

Boring D-1 sample 10 at 38 to 40 feet



CWM RFI Phase II

Boring D-1
Sample 10
Depth 38-40 feet
Moisture Content = 13.4

Wt soil and dish	215.4
Dry soil & dish	203.2
Dish	111.9

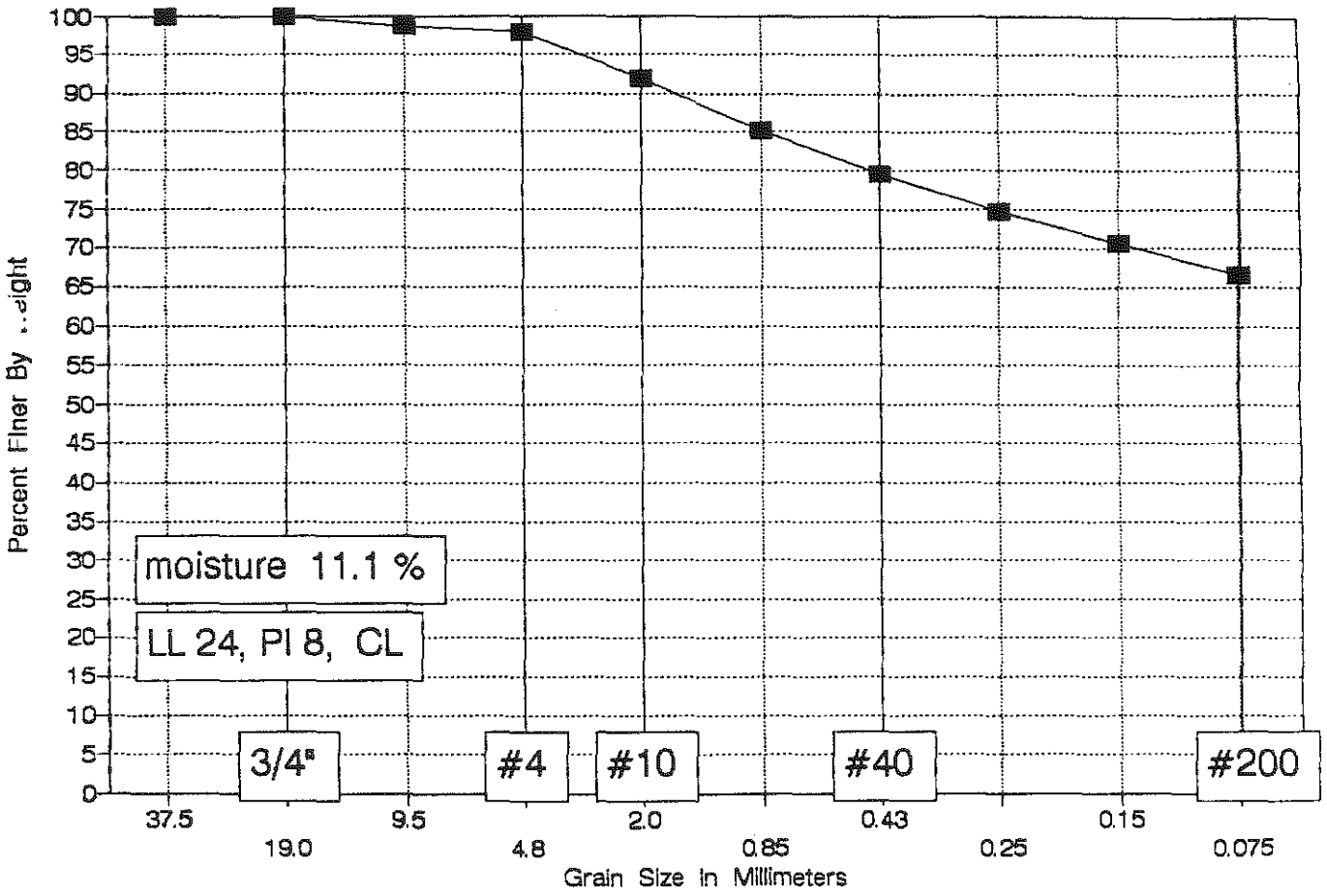
SIEVE ANALYSIS

Dry weight of total sample= 91.3

Sieve #	weight retained	% Finer		
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	0	100.00%	100.0	19.0
3/8 inch	0	100.00%	100.0	9.5
# 4	0.44	99.52%	99.5	4.8
# 10	4.47	95.10%	95.1	2.0
# 20	10.27	88.75%	88.8	0.85
# 40	15.23	83.32%	83.3	0.43
# 60	19.71	78.41%	78.4	0.25
# 100	23.73	74.01%	74.0	0.15
# 200	27.81	69.54%	69.5	0.075

GRADATION CURVE

Boring D-1 sample 14 at 46 to 48 feet



CWM RFI Phase II

Boring D-1
Sample 14
Depth 46-48 feet
Moisture Content = 11.1

Wt soil and dish 244.5
Dry soil & dish 231.1
Dish 110.5

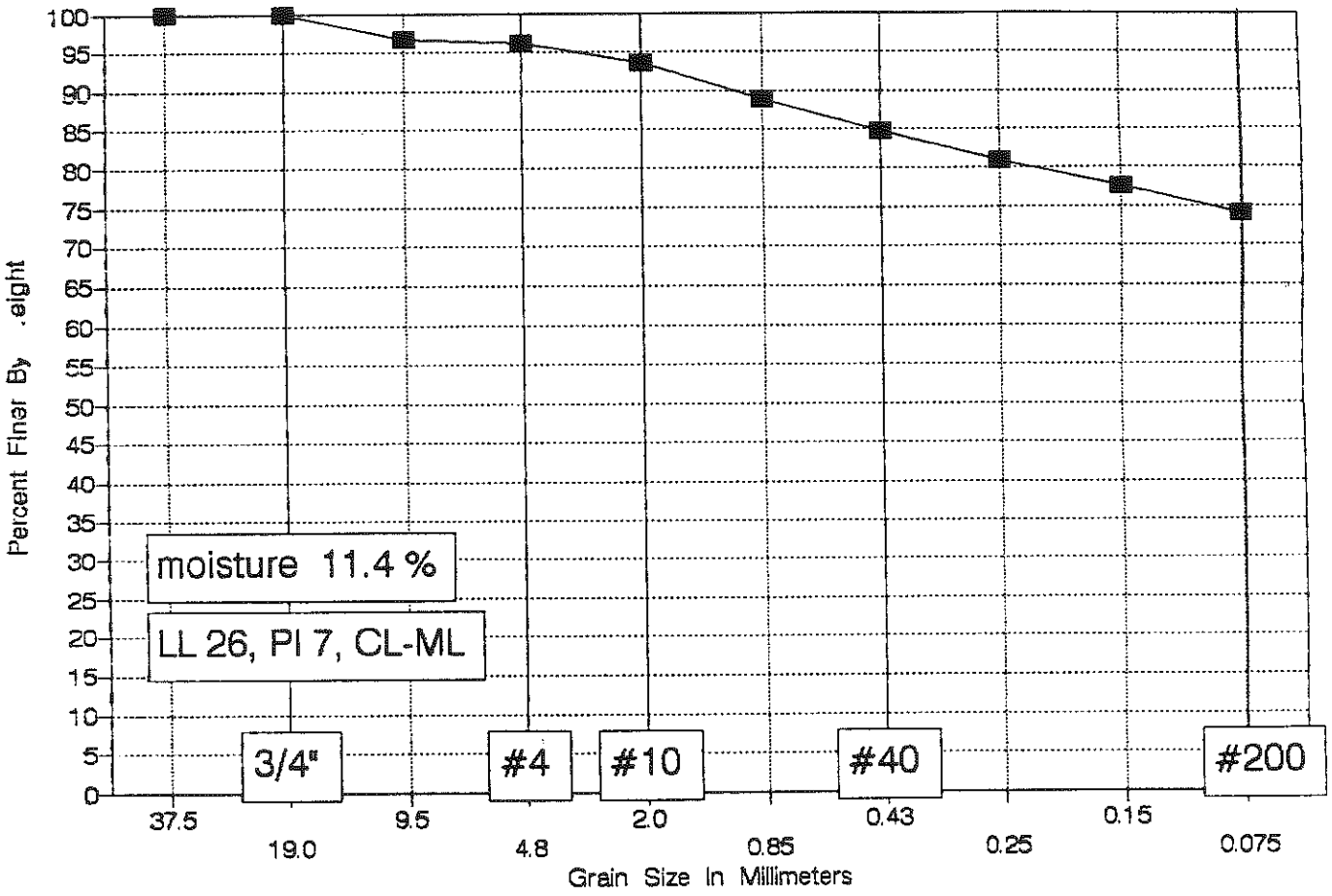
SIEVE ANALYSIS

Dry weight of total sample= 120.6

Sieve #	weight retained	% Finer		
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	0	100.00%	100.0	19.0
3/8 inch	1.71	98.58%	98.6	9.5
# 4	2.49	97.94%	97.9	4.8
# 10	9.69	91.97%	92.0	2.0
# 20	17.94	85.12%	85.1	0.85
# 40	24.69	79.53%	79.5	0.43
# 60	30.55	74.67%	74.7	0.25
# 100	35.52	70.55%	70.5	0.15
# 200	40.5	66.42%	66.4	0.075

GRADATION CURVE

Boring D-1 sample at 54 to 56 feet



CWM RFI Phase II

Boring D-1
Sample
Depth 54-56 feet
Moisture Content = 11.4

Wt soil and dish	268.6
Dry soil & dish	252.5
Dish	111.2

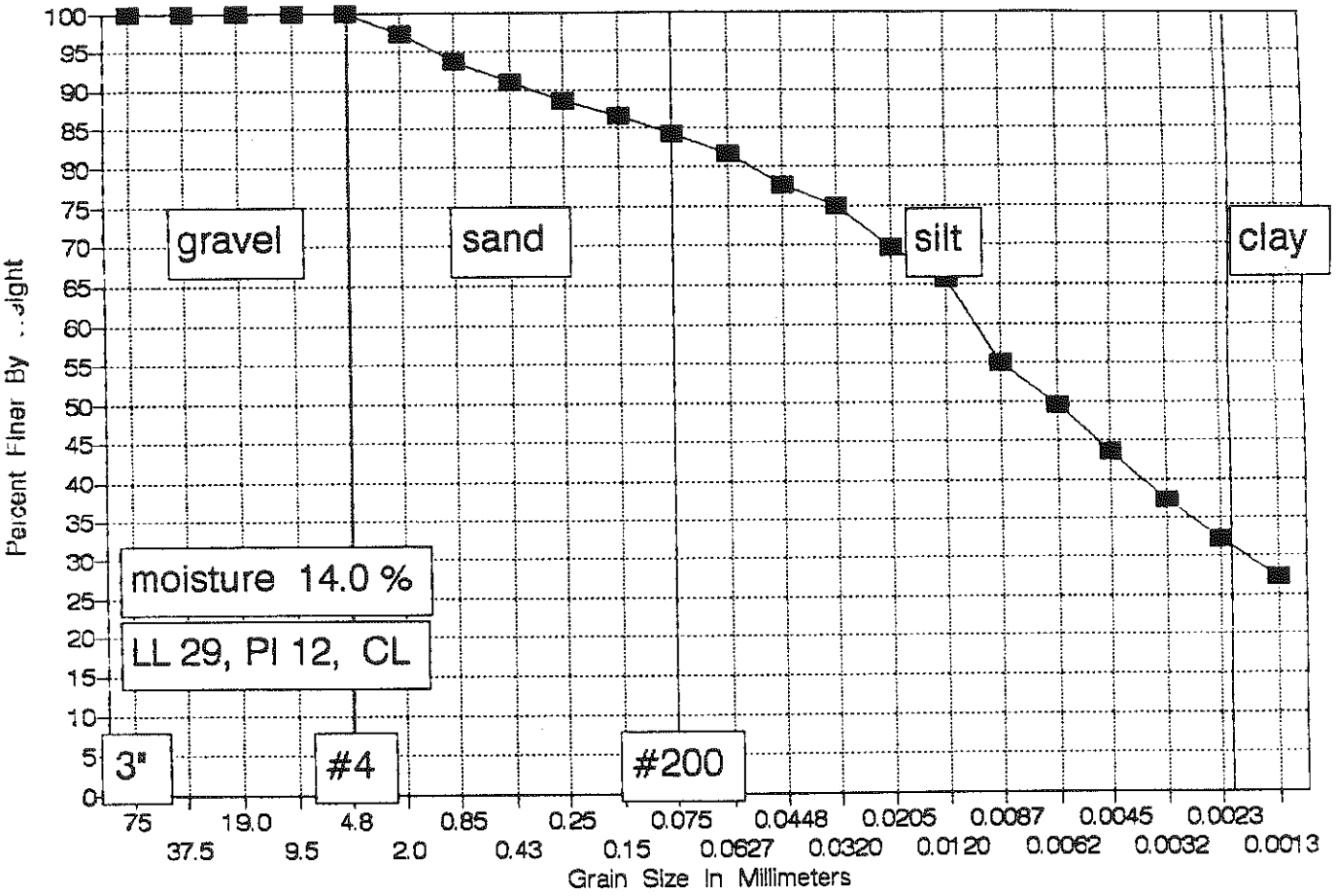
SIEVE ANALYSIS

Dry weight of total sample= 141.3

Sieve #	weight retained	% Finer		
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	0	100.00%	100.0	19.0
3/8 inch	4.5	96.82%	96.8	9.5
# 4	5.3	96.25%	96.2	4.8
# 10	9	93.63%	93.6	2.0
# 20	15.6	88.96%	89.0	0.85
# 40	21.5	84.78%	84.8	0.43
# 60	27	80.89%	80.9	0.25
# 100	31.7	77.57%	77.6	0.15
# 200	36.7	74.03%	74.0	0.075

GRADATION CURVE

Boring D-1 sample at 62 to 64 feet



Chemical Waste Management RFI Phase II

Boring D-1
Sample at 62 to 64 feet

Wt soil and dish	274.9
Dry soil & dish	254.5
Dish	108.4

Moisture Content = 14.0

SIEVE & HYDROMETER ANALYSIS

SIEVE PORTION

Dry weight of TOTAL sample= 146.1
sample split -#10 sieve = 36.31

Sieve #	Weight Retained	Total Percent Finer
1.5 inch		100.00%
3/4 inch	0	100.00%
3/8 inch	0	100.00%
# 4	0.16	99.89%
# 10	4.05	97.23%
# 20	1.33	93.67%
# 40	2.33	90.99%
# 60	3.24	88.55%
# 100	3.96	86.62%
# 200	4.83	84.29%

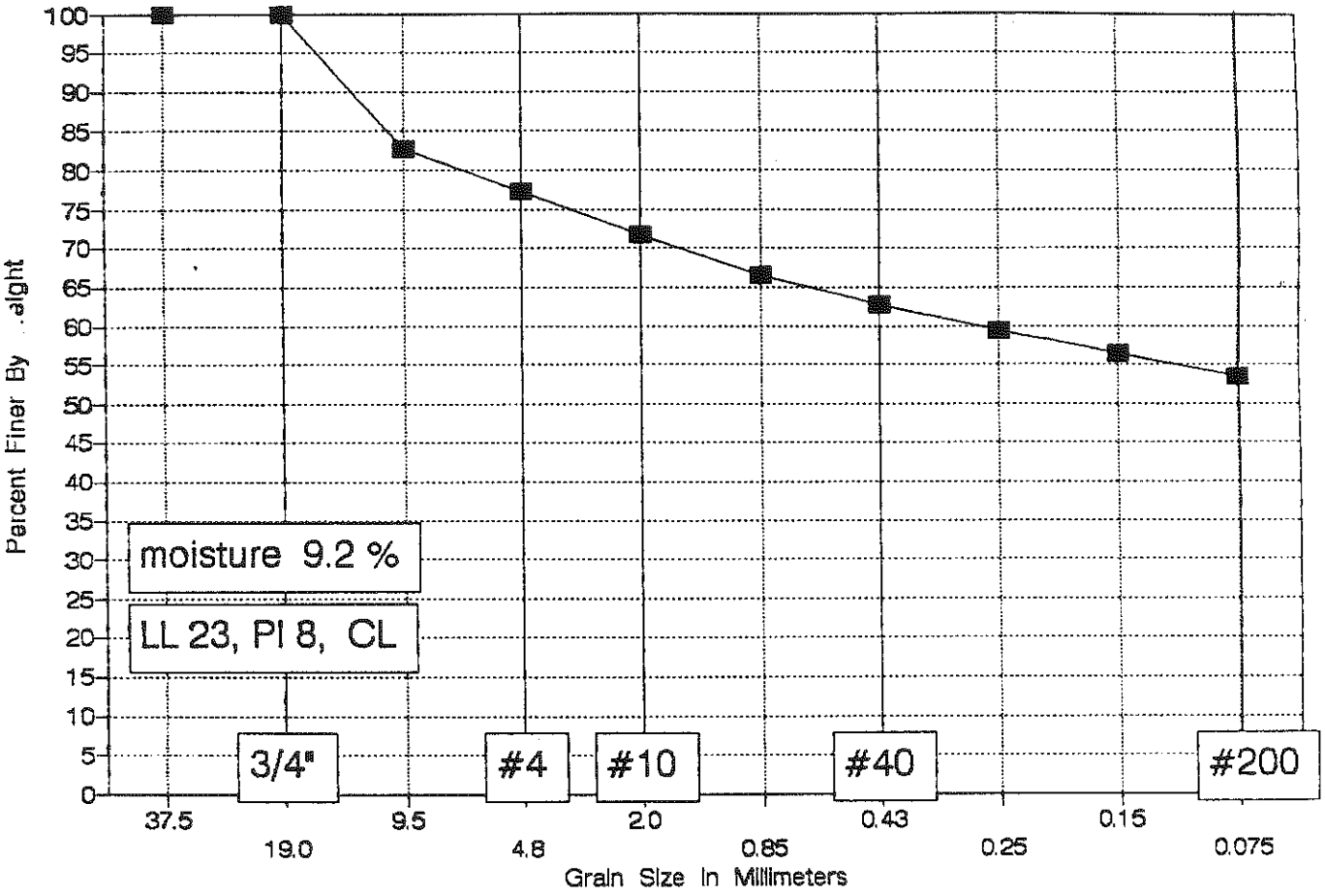
Constants this test
Gs= 2.65 20c=.01365 21c=.01348 22c=.01332
18c=.01399 19c=.01382
When 5 grams of Sodium Hexametaphosphate used correction = 6

HYDROMETER ANALYSIS

Elapsed time	Tc	R'	Zr	Particle Dia. mm	Percent Partial	Total Percent Finer
0.5	20	36.5	10.28	0.0627	84.00	81.67
1	20	35	10.53	0.0448	79.87	77.65
2	20	34	10.69	0.0320	77.11	74.98
5	20	32	11.02	0.0205	71.61	69.62
15	20	30.5	11.27	0.0120	67.47	65.60
30	20	26.5	11.93	0.0087	56.46	54.89
60	20	24.5	12.26	0.0062	50.95	49.54
120	20	22.3	12.62	0.0045	44.89	43.65
250	19	19.9	13.02	0.0032	38.28	37.22
500	19	18	13.33	0.0023	33.05	32.13
1529	20	16.2	13.63	0.0013	28.09	27.31

GRADATION CURVE

Boring D-1 sample 27 at 72 to 74 feet



CWM RFI Phase II

Boring D-1
Sample 27
Depth 72-74 feet
Moisture Content = 9.2

Wt soil and dish 286.3
Dry soil & dish 271.3
Dish 108

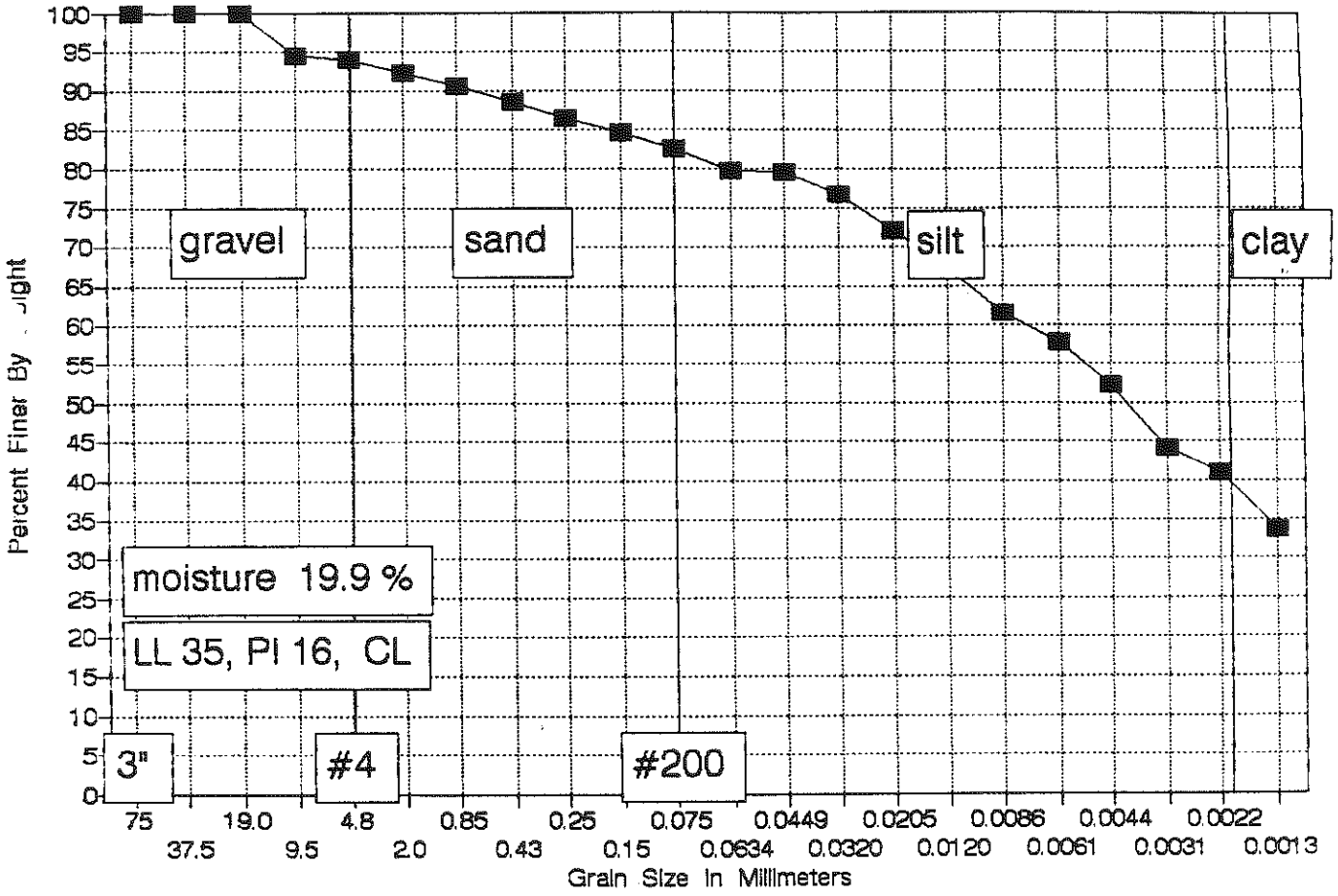
SIEVE ANALYSIS

Dry weight of total sample= 163.3

Sieve #	weight retained	% Finer		
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	0	100.00%	100.0	19.0
3/8 inch	28.15	82.76%	82.8	9.5
# 4	36.97	77.36%	77.4	4.8
# 10	46.03	71.81%	71.8	2.0
# 20	54.57	66.58%	66.6	0.85
# 40	60.87	62.73%	62.7	0.43
# 60	66.39	59.34%	59.3	0.25
# 100	71.03	56.50%	56.5	0.15
# 200	75.94	53.50%	53.5	0.075

GRADATION CURVE

Boring D-2 sample at 17 to 19 feet



Chemical Waste Management RFI Phase II

Boring D-2
Sample at 17 to 19 feet

Wt soil and dish	316.7
Dry soil & dish	282.2
Dish	108.4

Moisture Content = 19.9

SIEVE & HYDROMETER ANALYSIS

SIEVE PORTION

Dry weight of TOTAL sample= 173.8
sample split -#10 sieve = 33.5

Sieve #	Weight Retained	Total Percent Finer
1.5 inch		100.00%
3/4 inch	0	100.00%
3/8 inch	9.67	94.44%
# 4	10.51	93.95%
# 10	13.51	92.23%
# 20	0.62	90.52%
# 40	1.32	88.59%
# 60	2.09	86.47%
# 100	2.75	84.66%
# 200	3.5	82.59%

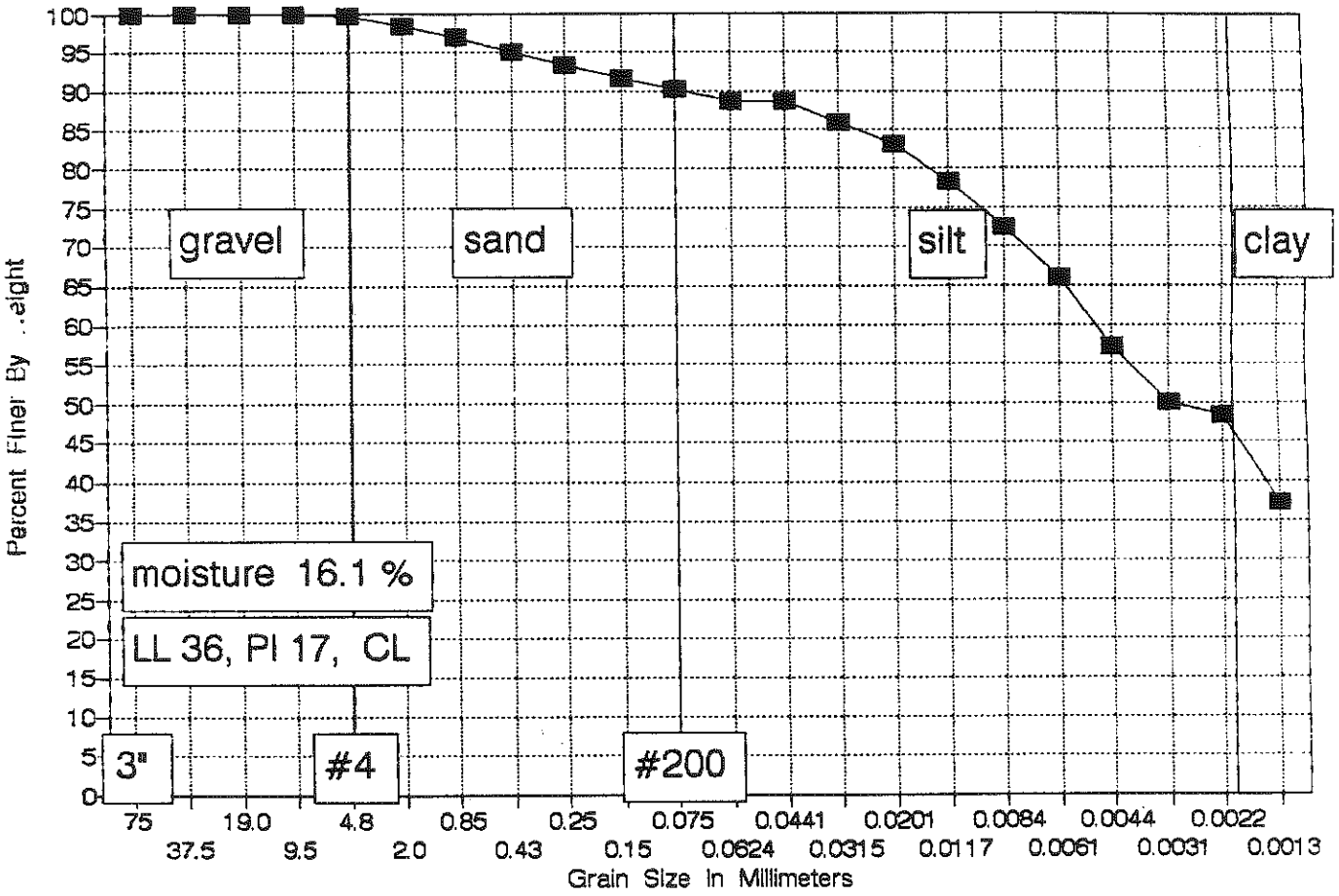
Constants this test
Gs= 2.65 20c=.01365 21c=.01348 22c=.01332
18c=.01399 19c=.01382
When 5 grams of Sodium Hexametaphosphate used correction = 6

HYDROMETER ANALYSIS

Elapsed time	Tc	R'	Zr	Particle Dia. mm	Percent Partial	Total Percent Finer
0.5	20	35	10.53	0.0634	86.57	79.84
1	20	34.9	10.54	0.0449	86.27	79.56
2	20	33.9	10.71	0.0320	83.28	76.81
5	20	32.2	10.99	0.0205	78.21	72.13
15	20	30.4	11.28	0.0120	72.84	67.17
30	20	28.3	11.63	0.0086	66.57	61.39
60	20	27	11.85	0.0061	62.69	57.81
120	20	25	12.18	0.0044	56.72	52.31
250	19	22	12.67	0.0031	47.76	44.05
500	19	20.9	12.85	0.0022	44.48	41.02
1516	20	18.2	13.30	0.0013	36.42	33.59

GRADATION CURVE

Boring D-2 sample at 27 to 29 feet



Chemical Waste Management RFI Phase II

Boring D-2
Sample at 27 to 29 feet

Wt soil and dish	353.9
Dry soil & dish	319.4
Dish	105

Moisture Content = 16.1

SIEVE & HYDROMETER ANALYSIS

SIEVE PORTION

Dry weight of TOTAL sample= 214.4
sample split -#10 sieve = 34.39

Sieve #	Weight Retained	Total Percent Finer
1.5 inch		100.00%
3/4 inch	0	100.00%
3/8 inch	0	100.00%
# 4	0.7	99.67%
# 10	3.25	98.48%
# 20	0.54	96.94%
# 40	1.19	95.08%
# 60	1.8	93.33%
# 100	2.35	91.75%
# 200	2.91	90.15%

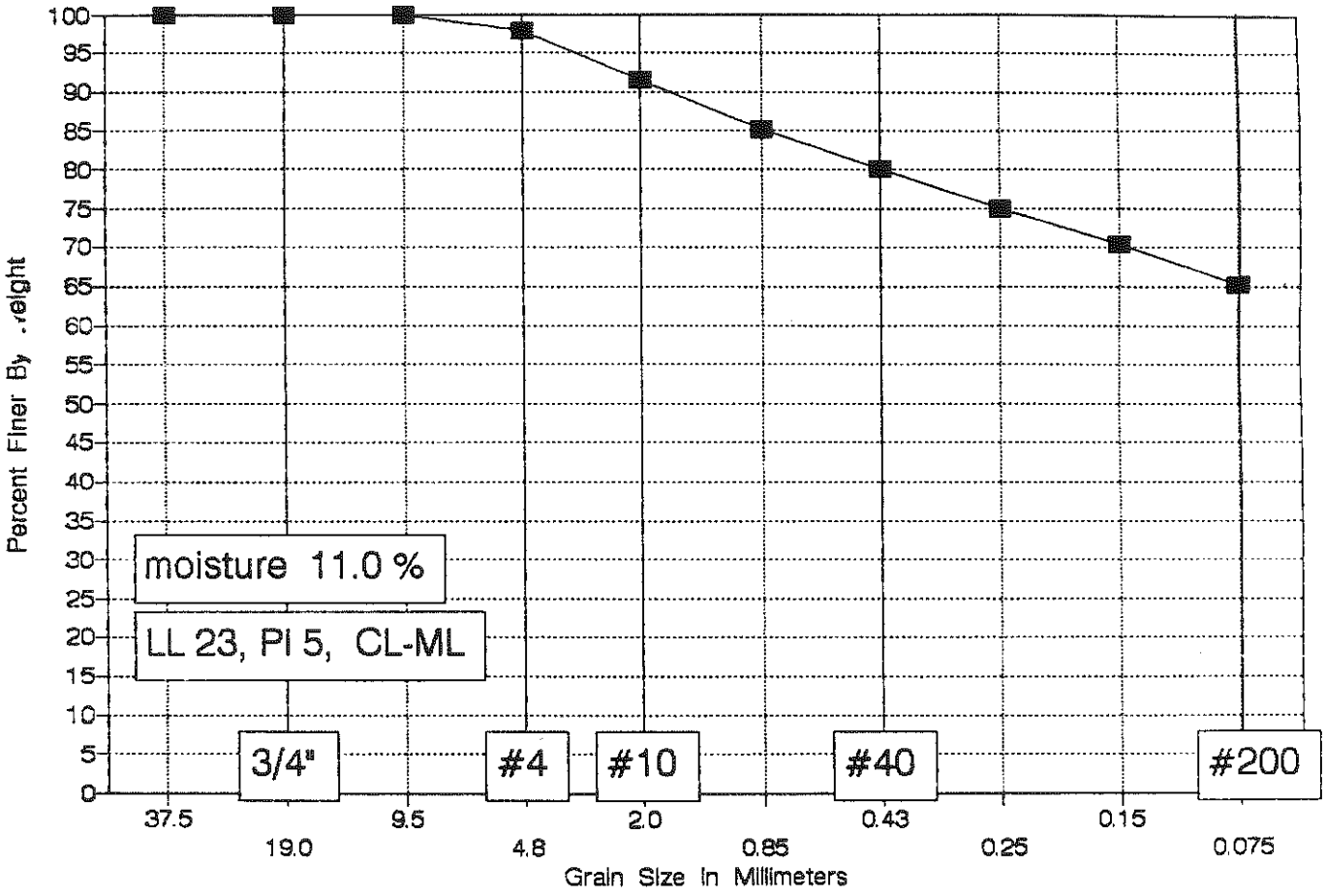
Constants this test
Gs= 2.65 20c=.01365 21c=.01348 22c=.01332
18c=.01399 19c=.01382
When 5 grams of Sodium Hexametaphosphate used correction = 6

HYDROMETER ANALYSIS

Elapsed time	Tc	R'	Zr	Particle Dia. mm	Percent Partial	Total Percent Finer
0.5	20	37	10.20	0.0624	90.14	88.78
1	20	37	10.20	0.0441	90.14	88.78
2	20	36	10.36	0.0315	87.23	85.91
5	20	35	10.53	0.0201	84.33	83.05
15	20	33.3	10.81	0.0117	79.38	78.18
30	20	31.3	11.14	0.0084	73.57	72.45
60	20	29	11.52	0.0061	66.88	65.87
120	20	26	12.01	0.0044	58.16	57.27
250	19	23.5	12.42	0.0031	50.89	50.12
500	19	22.9	12.52	0.0022	49.14	48.40
1525	20	19	13.17	0.0013	37.80	37.23

GRADATION CURVE

Boring D-2 sample 11 at 35 to 37 feet



CWM RFI Phase II

Boring D-2
Sample 11
Depth 35-37 feet
Moisture Content = 11.0

Wt soil and dish 240.8
Dry soil & dish 227.6
Dish 108

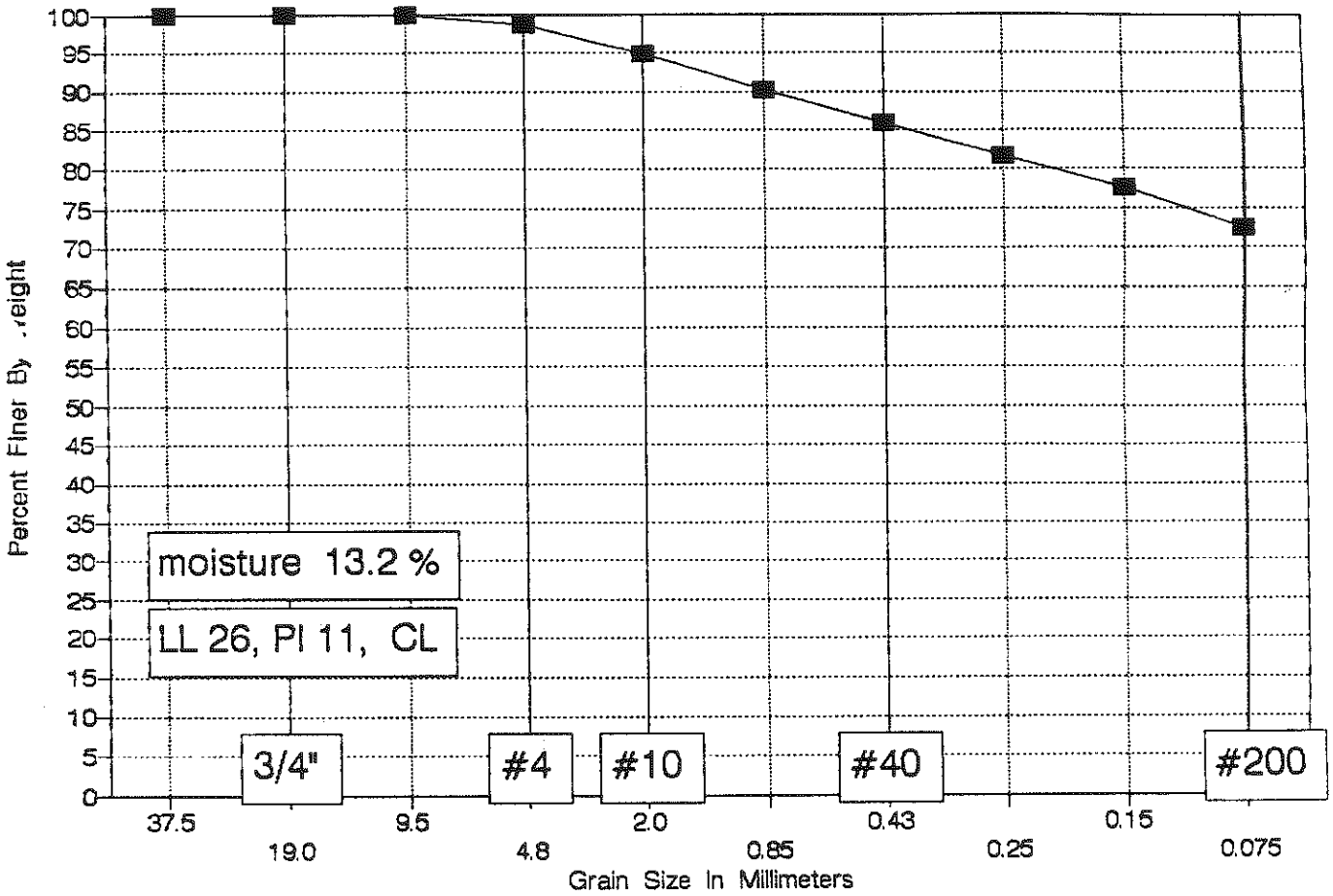
SIEVE ANALYSIS

Dry weight of total sample= 119.6

Sieve #	weight retained	% Finer		
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	0	100.00%	100.0	19.0
3/8 inch	0	100.00%	100.0	9.5
# 4	2.5	97.91%	97.9	4.8
# 10	10.1	91.56%	91.6	2.0
# 20	17.8	85.12%	85.1	0.85
# 40	23.8	80.10%	80.1	0.43
# 60	29.9	75.00%	75.0	0.25
# 100	35.4	70.40%	70.4	0.15
# 200	41.7	65.13%	65.1	0.075

GRADATION CURVE

Boring D-2 sample 15 at 43 to 45 feet



CWM RFI Phase II

Boring D-2
Sample 15
Depth 43-45 feet
Moisture Content = 13.2

Wt soil and dish	248.8
Dry soil & dish	232.9
Dish	112.2

SIEVE ANALYSIS

Dry weight of total sample= 120.7

Sieve #	weight retained	% Finer		
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	0	100.00%	100.0	19.0
3/8 inch	0	100.00%	100.0	9.5
# 4	1.7	98.59%	98.6	4.8
# 10	6.3	94.78%	94.8	2.0
# 20	11.8	90.22%	90.2	0.85
# 40	16.9	86.00%	86.0	0.43
# 60	22.1	81.69%	81.7	0.25
# 100	27.2	77.46%	77.5	0.15
# 200	33.3	72.41%	72.4	0.075

CWM RFI Phase II

Boring D-2
Sample 19
Depth 51-53 feet
Moisture Content = 14.8

Wt soil and dish	249.8
Dry soil & dish	231.6
Dish	108.9

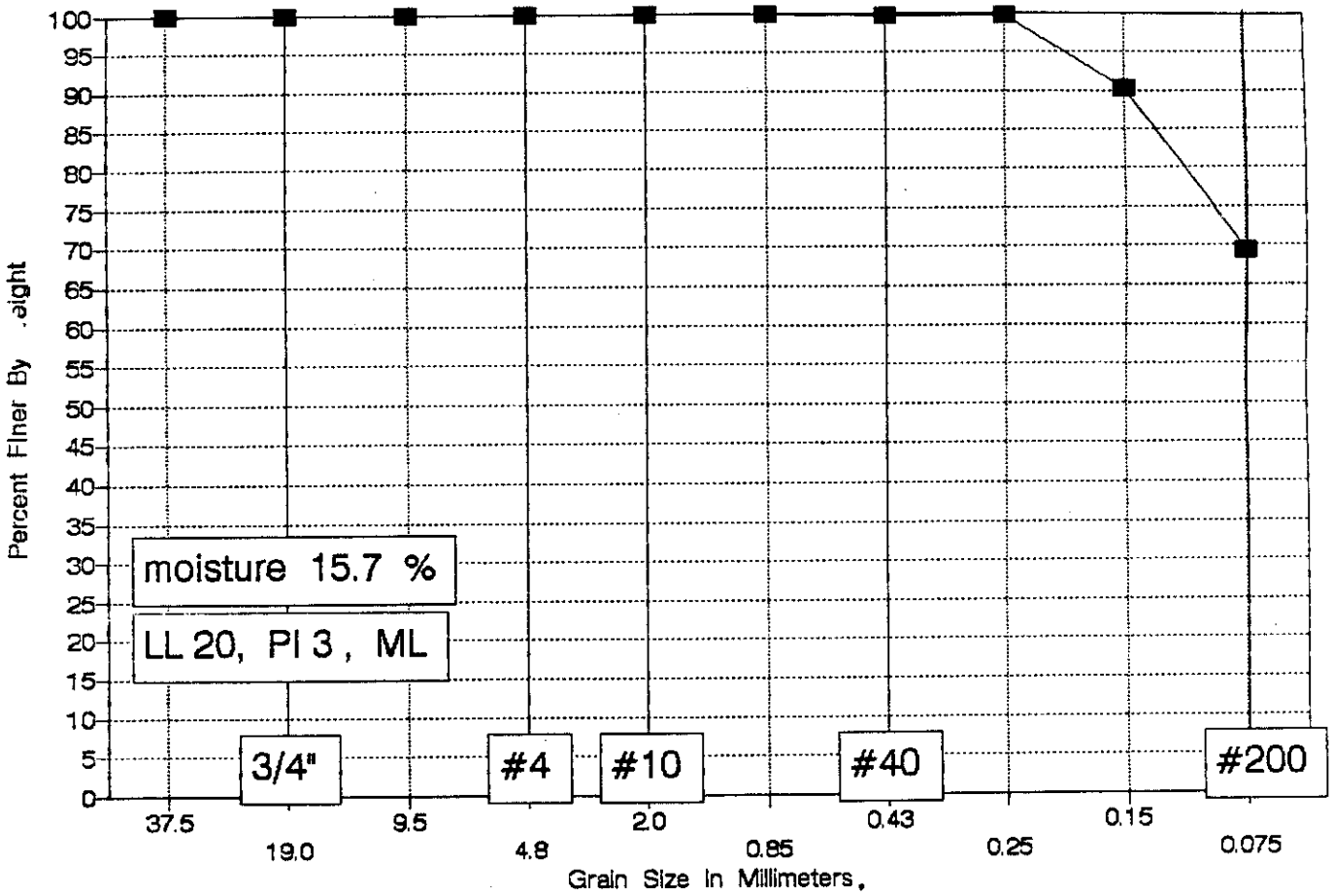
SIEVE ANALYSIS

Dry weight of total sample= 122.7

Sieve #	weight retained	% Finer		
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	0	100.00%	100.0	19.0
3/8 inch	0	100.00%	100.0	9.5
# 4	0.4	99.67%	99.7	4.8
# 10	1.5	98.78%	98.8	2.0
# 20	3.6	97.07%	97.1	0.85
# 40	5.6	95.44%	95.4	0.43
# 60	7.2	94.13%	94.1	0.25
# 100	9.2	92.50%	92.5	0.15
# 200	12	90.22%	90.2	0.075

GRADATION CURVE

Boring D-2 sample 23 at 59 to 61 feet



CWM RFI Phase II

Boring D-2
Sample 23
Depth 59-61 feet
Moisture Content = 15.7

Wt soil and dish 285.2
Dry soil & dish 260.5
Dish 102.7

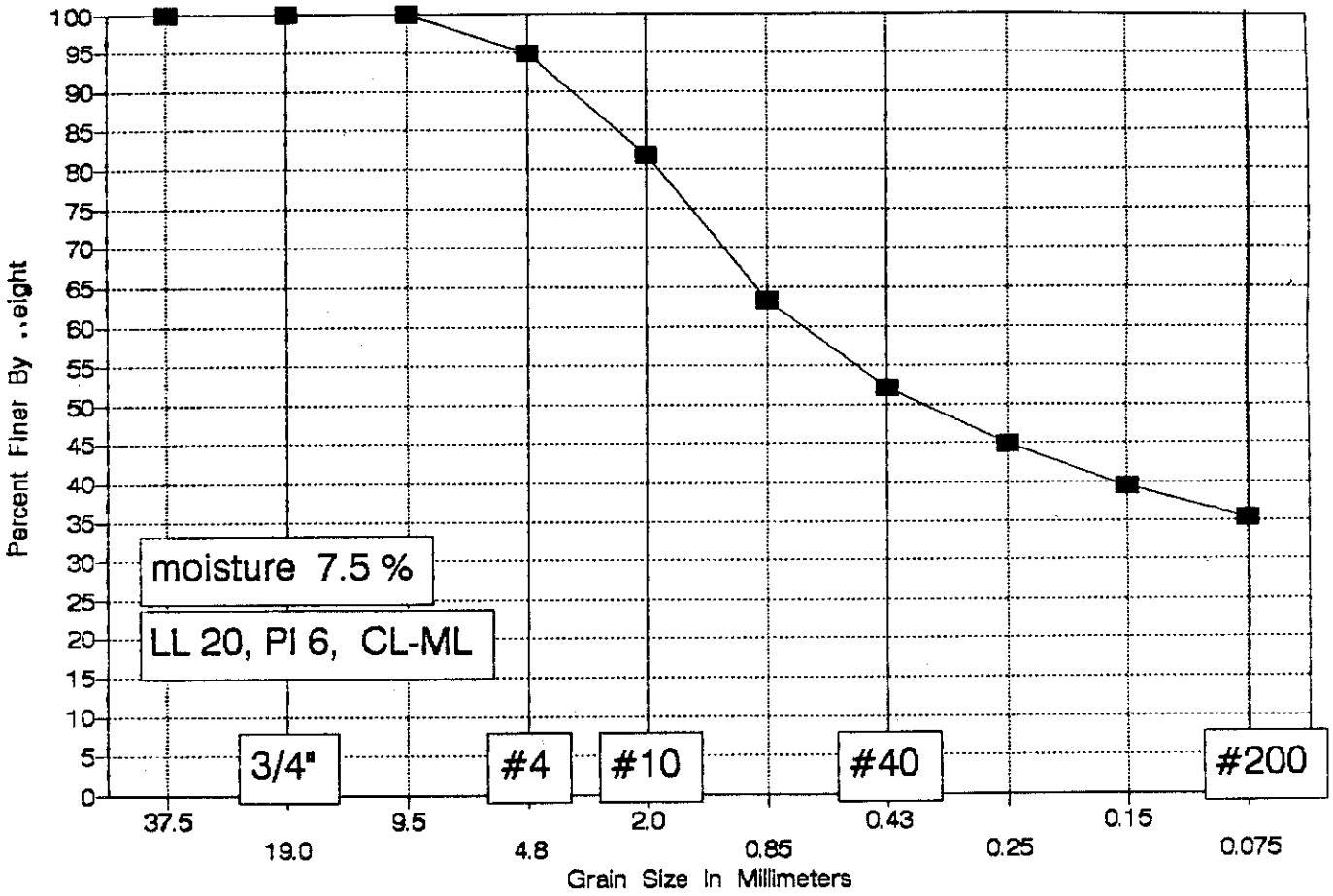
SIEVE ANALYSIS

Dry weight of total sample= 157.8

Sieve #	weight retained	% Finer		
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	0	100.00%	100.0	19.0
3/8 inch	0	100.00%	100.0	9.5
# 4	0	100.00%	100.0	4.8
# 10	0	100.00%	100.0	2.0
# 20	0.1	99.94%	99.9	0.85
# 40	0.3	99.81%	99.8	0.43
# 60	0.5	99.68%	99.7	0.25
# 100	15.3	90.30%	90.3	0.15
# 200	48.4	69.33%	69.3	0.075

GRADATION CURVE

Boring D-2 sample 27 at 67 to 69 feet



CWM RFI Phase II

Boring D-2
Sample 27
Depth 67-69 feet
Moisture Content = 7.5

Wt soil and dish	276
Dry soil & dish	264.4
Dish	109.1

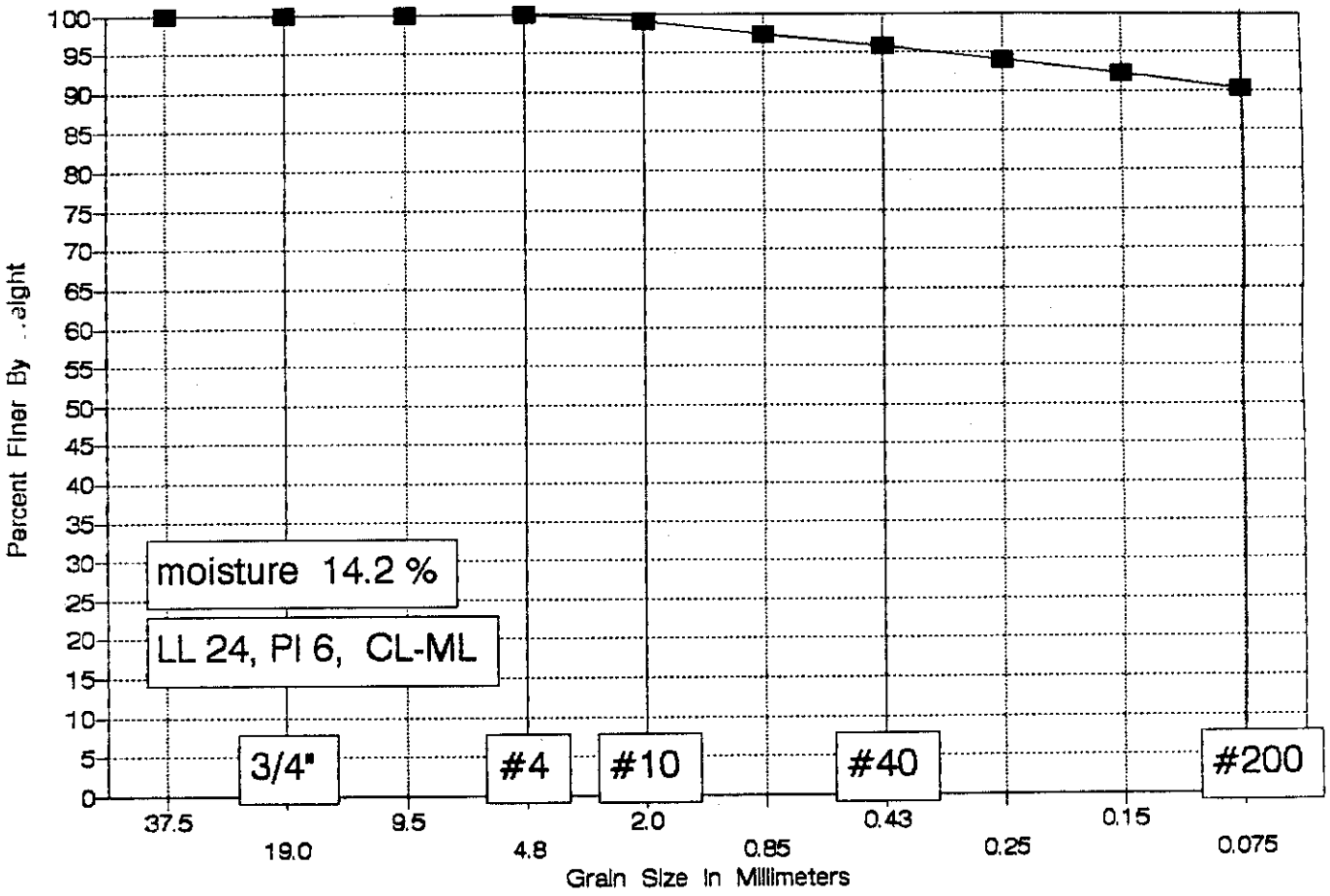
SIEVE ANALYSIS

Dry weight of total sample= 155.3

Sieve #	weight retained	% Finer		
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	0	100.00%	100.0	19.0
3/8 inch	0	100.00%	100.0	9.5
# 4	8.1	94.78%	94.8	4.8
# 10	28.2	81.84%	81.8	2.0
# 20	56.9	63.36%	63.4	0.85
# 40	74.2	52.22%	52.2	0.43
# 60	85.7	44.82%	44.8	0.25
# 100	93.9	39.54%	39.5	0.15
# 200	100.5	35.29%	35.3	0.075

GRADATION CURVE

Boring D-2 sample at 74.5 to 76.5 feet



CWM RFI Phase II

Boring D-2
Sample 31
Depth 74.5-76.5 feet
Moisture Content = 14.2

Wt soil and dish	273.7
Dry soil & dish	253.1
Dish	108.3

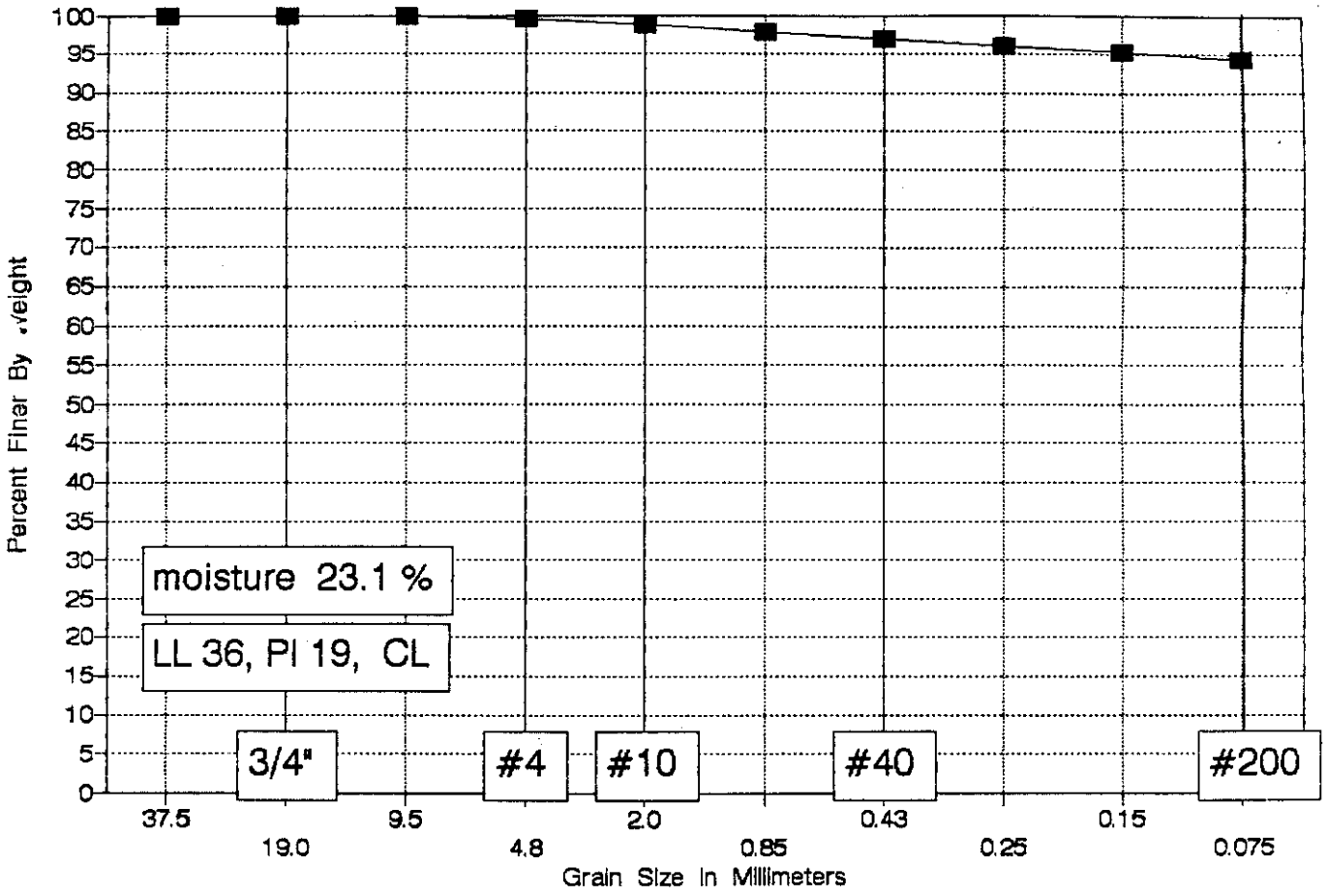
SIEVE ANALYSIS

Dry weight of total sample= 144.8

Sieve #	weight retained	% Finer		
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	0	100.00%	100.0	19.0
3/8 inch	0	100.00%	100.0	9.5
# 4	0	100.00%	100.0	4.8
# 10	1.4	99.03%	99.0	2.0
# 20	3.9	97.31%	97.3	0.85
# 40	6.2	95.72%	95.7	0.43
# 60	8.7	93.99%	94.0	0.25
# 100	11.2	92.27%	92.3	0.15
# 200	14.2	90.19%	90.2	0.075

GRADATION CURVE

Boring D-3 sample at 22 to 24 feet



CWM RFI Phase II

Boring D-3
Sample
Depth 22-24 feet
Moisture Content = 23.1

Wt soil and dish	291.1
Dry soil & dish	256.8
Dish	108

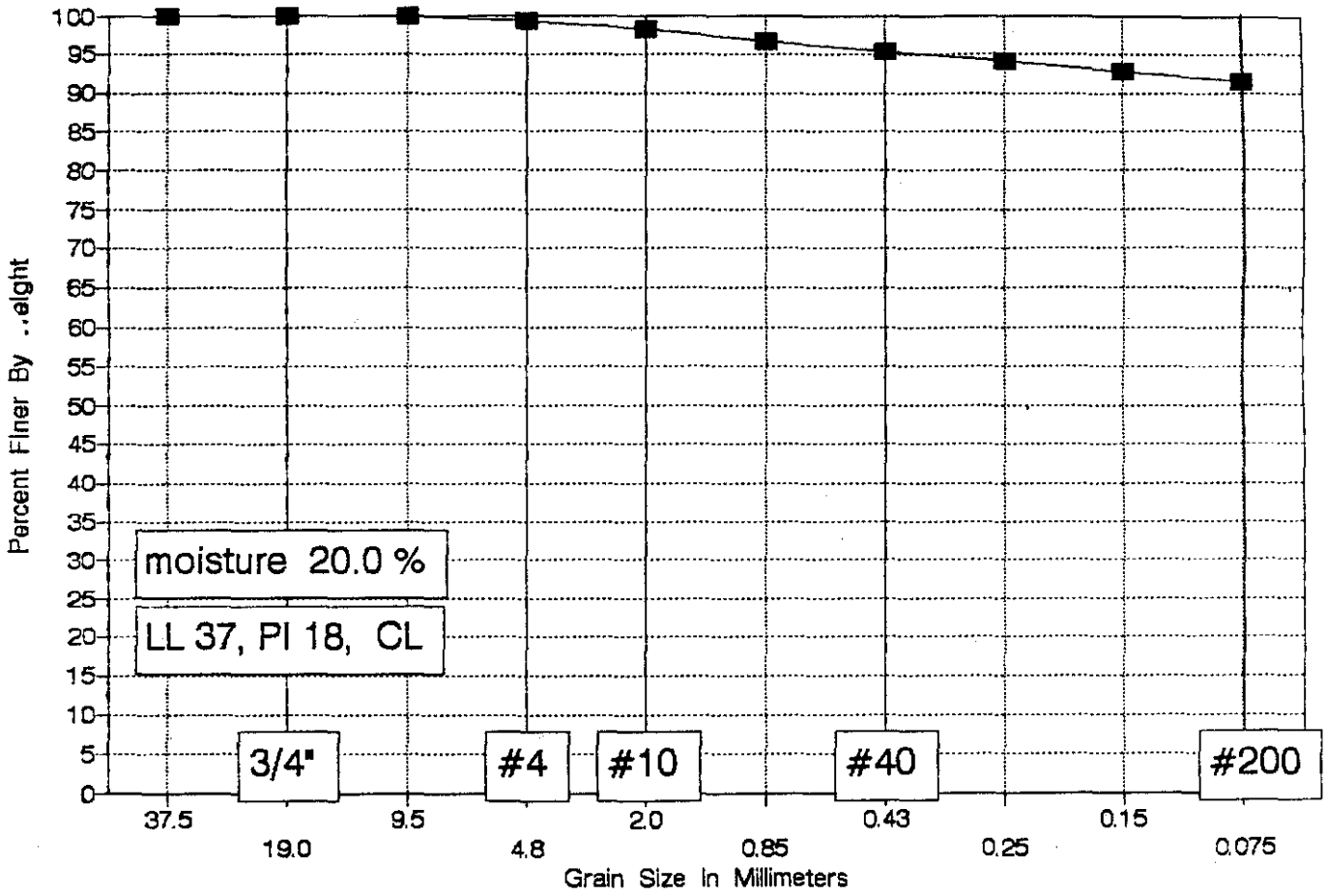
SIEVE ANALYSIS

Dry weight of total sample= 148.8

Sieve #	weight retained	% Finer		
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	0	100.00%	100.0	19.0
3/8 inch	0	100.00%	100.0	9.5
# 4	0.8	99.46%	99.5	4.8
# 10	1.7	98.86%	98.9	2.0
# 20	3.3	97.78%	97.8	0.85
# 40	4.7	96.84%	96.8	0.43
# 60	5.9	96.03%	96.0	0.25
# 100	7.1	95.23%	95.2	0.15
# 200	8.5	94.29%	94.3	0.075

GRADATION CURVE

Boring D-3 sample at 31 to 31.5 feet



CWM RFI Phase II

Boring D-3
Sample
Depth 31-31.5 feet
Moisture Content = 20.0

Wt soil and dish 291.6
Dry soil & dish 261
Dish 108

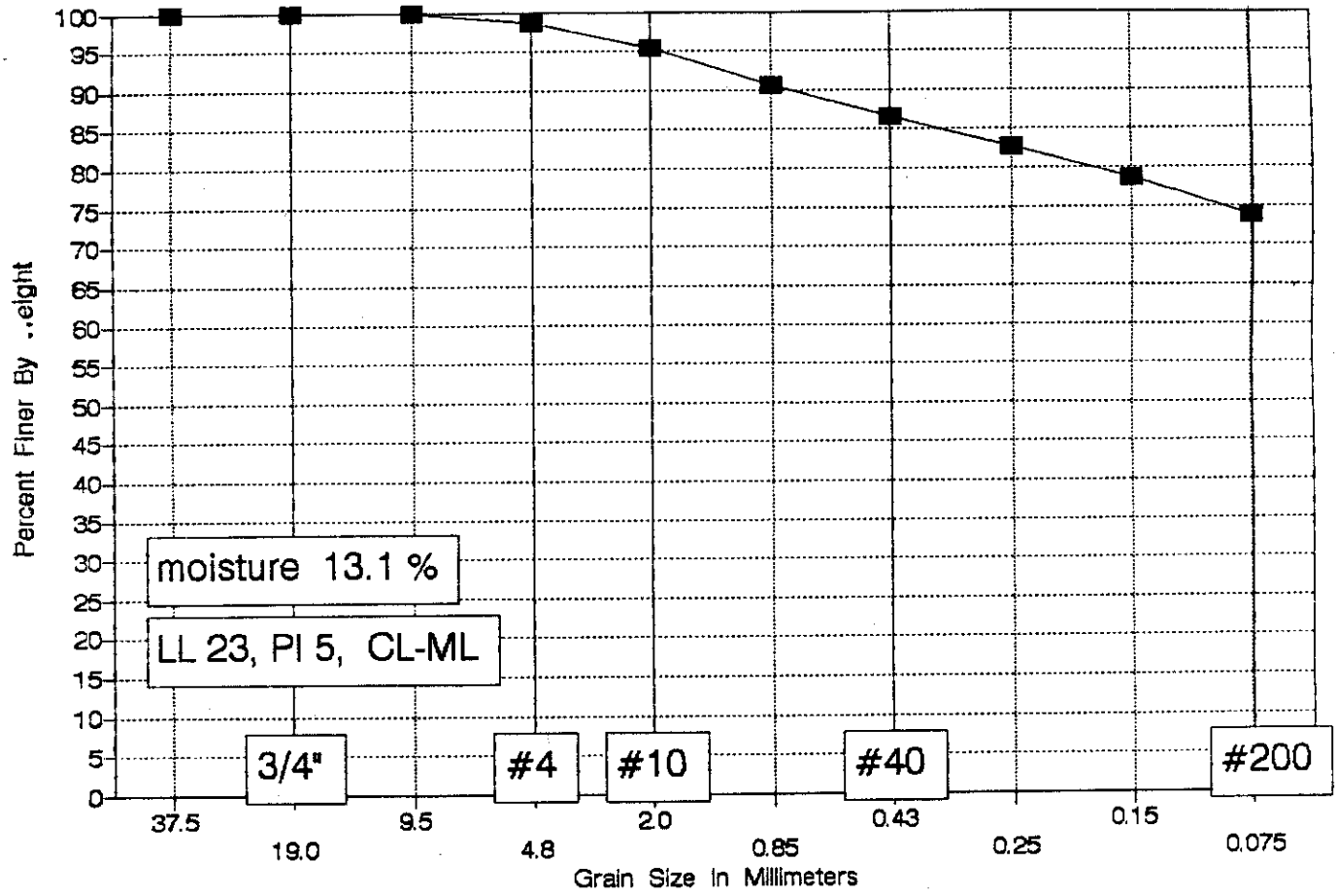
SIEVE ANALYSIS

Dry weight of total sample= 153

Sieve #	weight retained	% Finer		
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	0	100.00%	100.0	19.0
3/8 inch	0	100.00%	100.0	9.5
# 4	1.1	99.28%	99.3	4.8
# 10	2.7	98.24%	98.2	2.0
# 20	4.9	96.80%	96.8	0.85
# 40	7	95.42%	95.4	0.43
# 60	9.1	94.05%	94.1	0.25
# 100	11	92.81%	92.8	0.15
# 200	13	91.50%	91.5	0.075

GRADATION CURVE

Boring D-3 sample 8 at 36 to 38 feet



CWM RFI Phase II

Boring D-3
Sample 8
Depth 36-38 feet
Moisture Content = 13.1

Wt soil and dish	265.5
Dry soil & dish	245.9
Dish	96.2

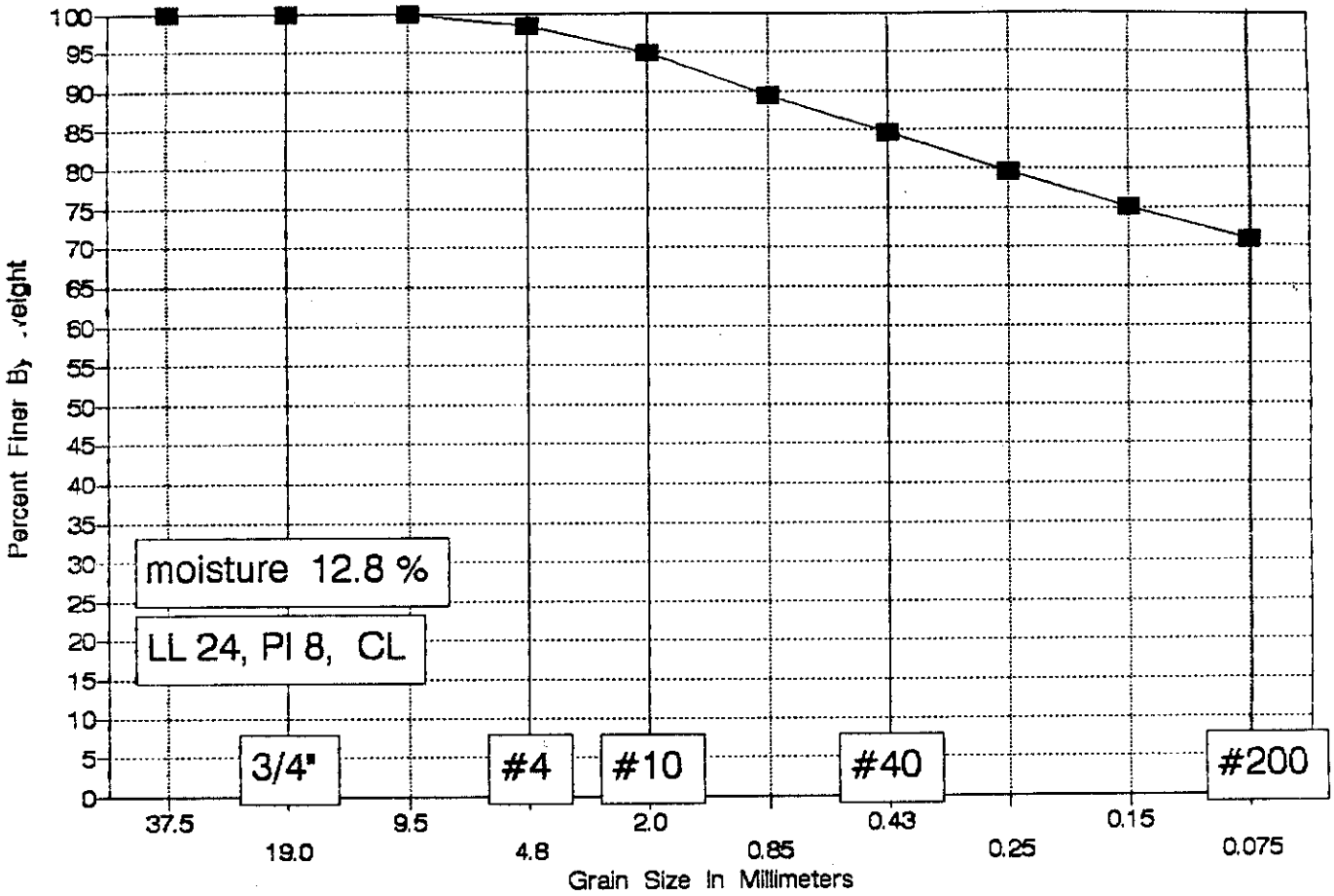
SIEVE ANALYSIS

Dry weight of total sample= 149.7

Sieve #	weight retained	% Finer		
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	0	100.00%	100.0	19.0
3/8 inch	0	100.00%	100.0	9.5
# 4	2	98.66%	98.7	4.8
# 10	6.9	95.39%	95.4	2.0
# 20	14.1	90.58%	90.6	0.85
# 40	20	86.64%	86.6	0.43
# 60	25.8	82.77%	82.8	0.25
# 100	32	78.62%	78.6	0.15
# 200	39.3	73.75%	73.7	0.075

GRADATION CURVE

Boring D-3 sample 11 at 42 to 44 feet



CWM RFI Phase II

Boring D-3
Sample 11
Depth 42-44 feet
Moisture Content = 12.8

Wt soil and dish	285.3
Dry soil & dish	265.3
Dish	109.5

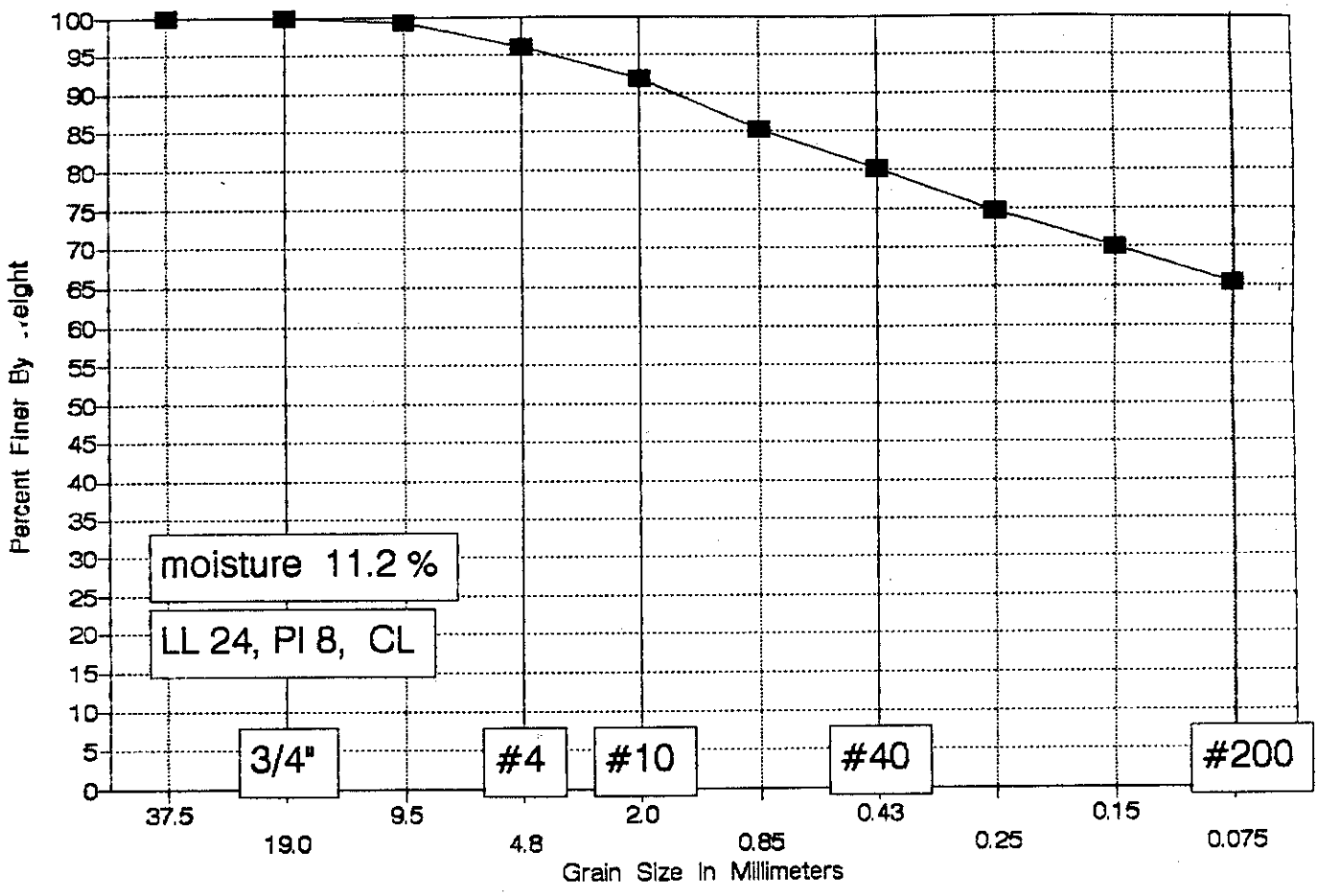
SIEVE ANALYSIS

Dry weight of total sample= 155.8

Sieve #	weight retained	% Finer		
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	0	100.00%	100.0	19.0
3/8 inch	0	100.00%	100.0	9.5
# 4	2.47	98.41%	98.4	4.8
# 10	8.09	94.81%	94.8	2.0
# 20	16.53	89.39%	89.4	0.85
# 40	24.04	84.57%	84.6	0.43
# 60	31.77	79.61%	79.6	0.25
# 100	38.75	75.13%	75.1	0.15
# 200	45.55	70.76%	70.8	0.075

GRADATION CURVE

Boring D-3 sample 15 at 50 to 52 feet



CWM RFI Phase II

Boring D-3
Sample 15
Depth 50-52 feet
Moisture Content = 11.2

Wt soil and dish	300.7
Dry soil & dish	281.2
Dish	106.7

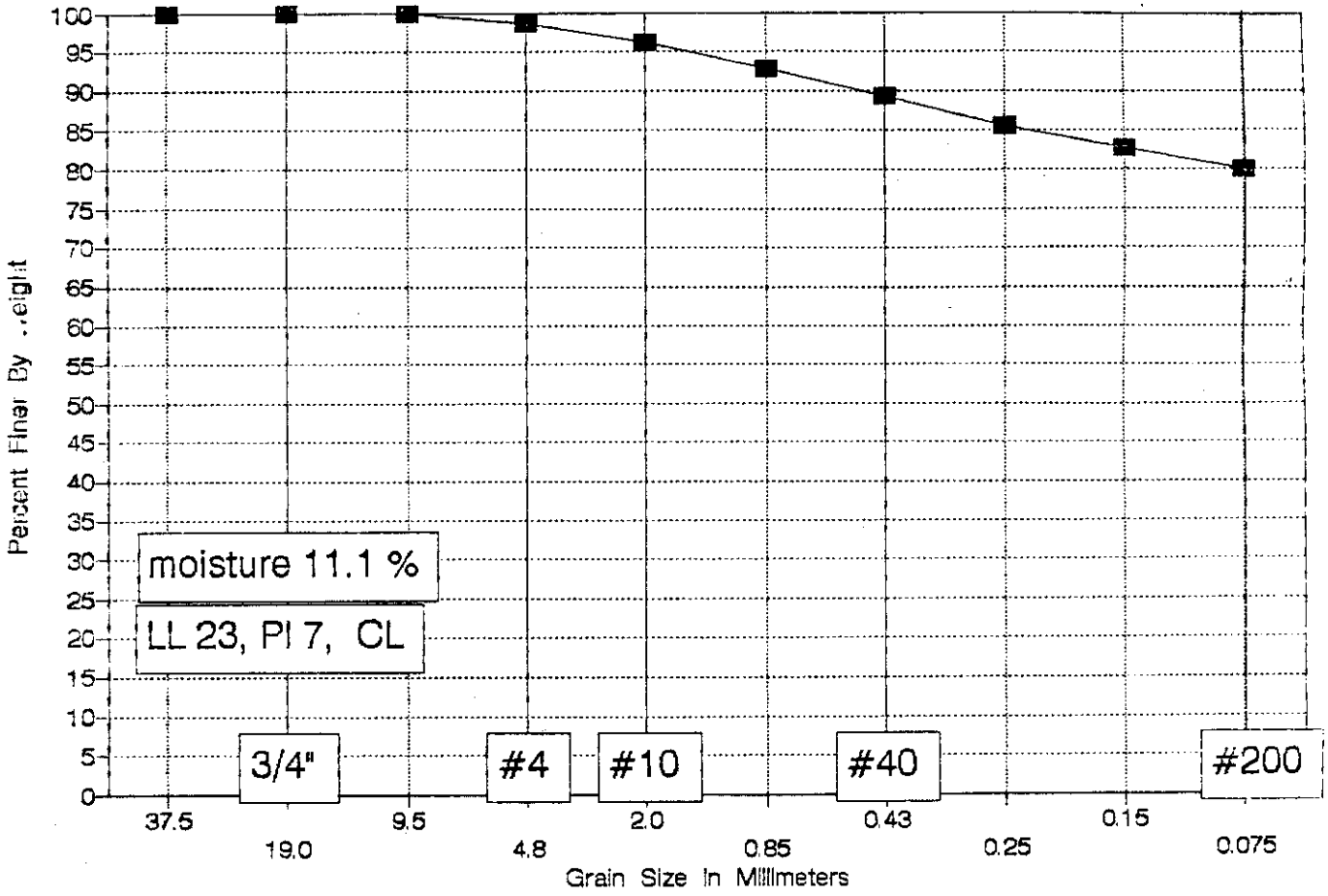
SIEVE ANALYSIS

Dry weight of total sample= 174.5

Sieve #	weight retained	% Finer		
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	0	100.00%	100.0	19.0
3/8 inch	1.2	99.31%	99.3	9.5
# 4	6.9	96.05%	96.0	4.8
# 10	14	91.98%	92.0	2.0
# 20	25.4	85.44%	85.4	0.85
# 40	34.8	80.06%	80.1	0.43
# 60	44	74.79%	74.8	0.25
# 100	52.3	70.03%	70.0	0.15
# 200	60.4	65.39%	65.4	0.075

GRADATION CURVE

Boring D-3 sample at 56 to 58 feet



JWM RFI Phase II

Boring D-3
Sample bag
Depth 56-58 feet
Moisture Content = 11.1

Wt soil and dish	498.5
Dry soil & dish	459.4
Dish	107.8

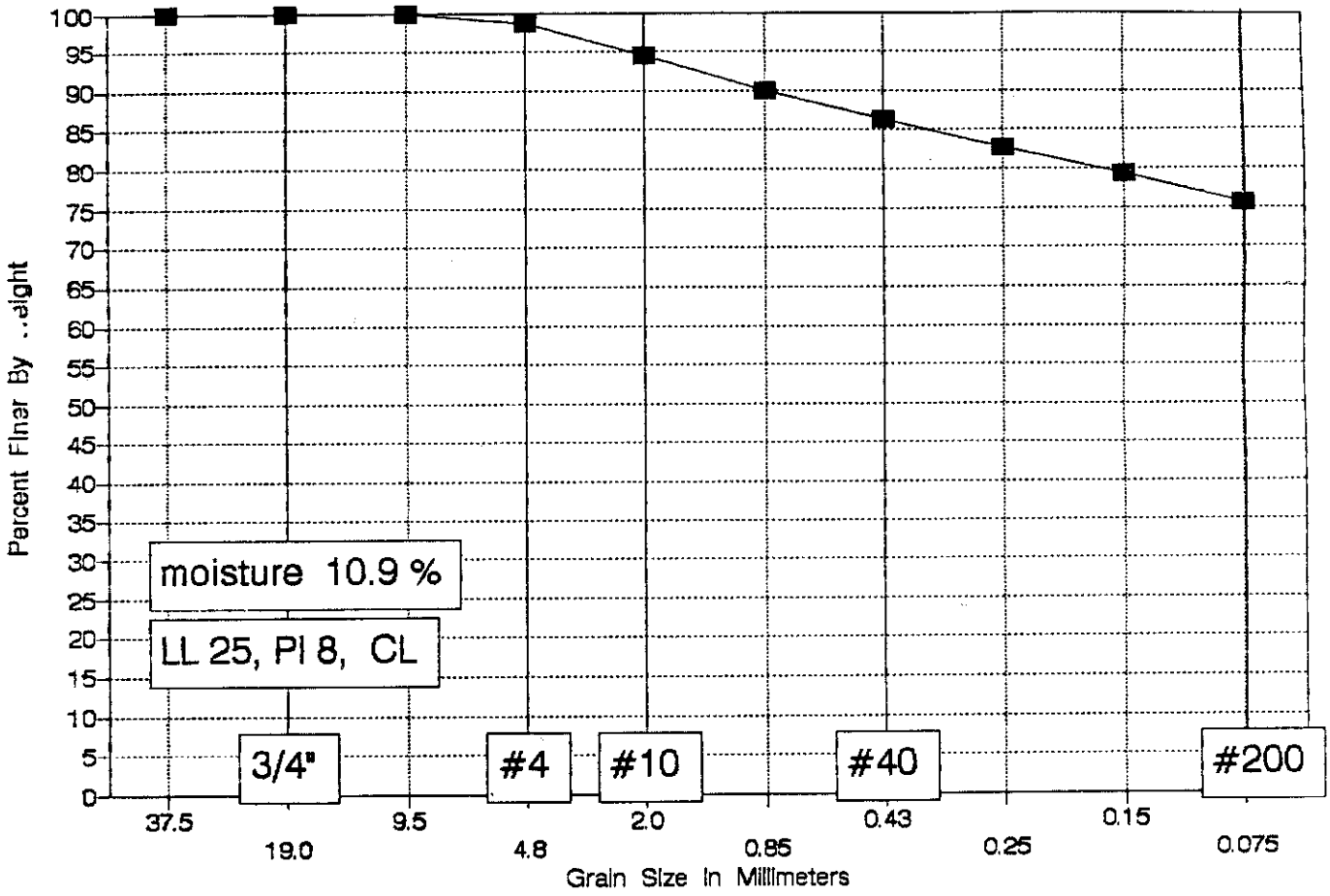
SIEVE ANALYSIS

Dry weight of total sample= 351.6

Sieve #	weight retained	% Finer		
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	0	100.00%	100.0	19.0
3/8 inch	0	100.00%	100.0	9.5
# 4	5.2	98.52%	98.5	4.8
# 10	13.2	96.25%	96.2	2.0
# 20	25.2	92.83%	92.8	0.85
# 40	38	89.19%	89.2	0.43
# 60	51	85.49%	85.5	0.25
# 100	60.8	82.71%	82.7	0.15
# 200	70.3	80.01%	80.0	0.075

GRADATION CURVE

Boring D-3 sample 22 at 64 to 66 feet



CWM RFI Phase II

Boring D-3
Sample 22
Depth 64-66 feet
Moisture Content = 10.9

Wt soil and dish 217.7
Dry soil & dish 206.9
Dish 108

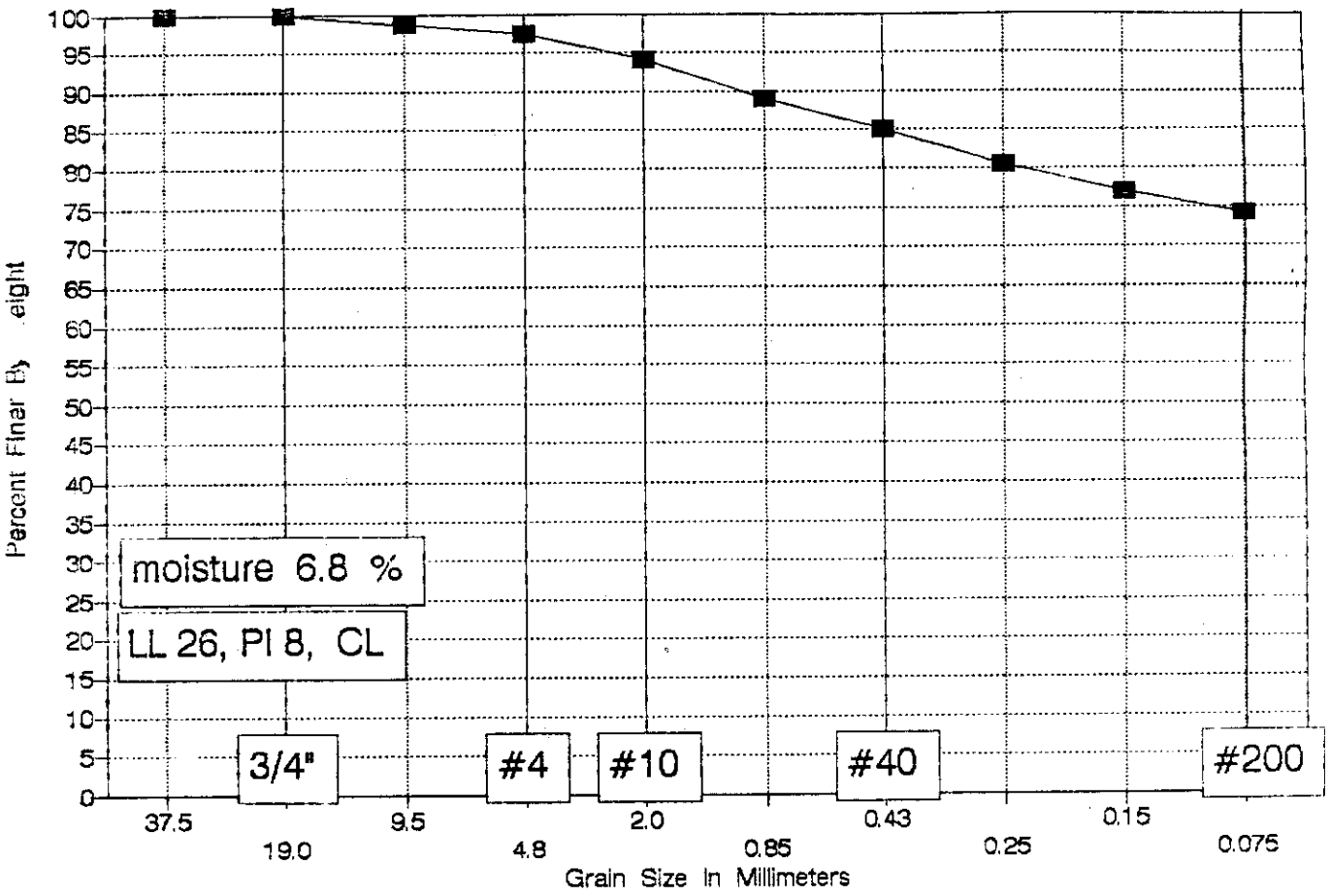
SIEVE ANALYSIS

Dry weight of total sample= 98.9

Sieve #	weight retained	% Finer		
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	0	100.00%	100.0	19.0
3/8 inch	0	100.00%	100.0	9.5
# 4	1.41	98.57%	98.6	4.8
# 10	5.53	94.41%	94.4	2.0
# 20	9.91	89.98%	90.0	0.85
# 40	13.56	86.29%	86.3	0.43
# 60	17.05	82.76%	82.8	0.25
# 100	20.38	79.39%	79.4	0.15
# 200	24.09	75.64%	75.6	0.075

GRADATION CURVE

Boring D-3 sample at 72 to 74 feet



CWM RFI Phase II

Boring D-3
Sample bag
Depth 72-74 feet
Moisture Content = 6.8

Wt soil and dish 463.7
Dry soil & dish 441
Dish 108.8

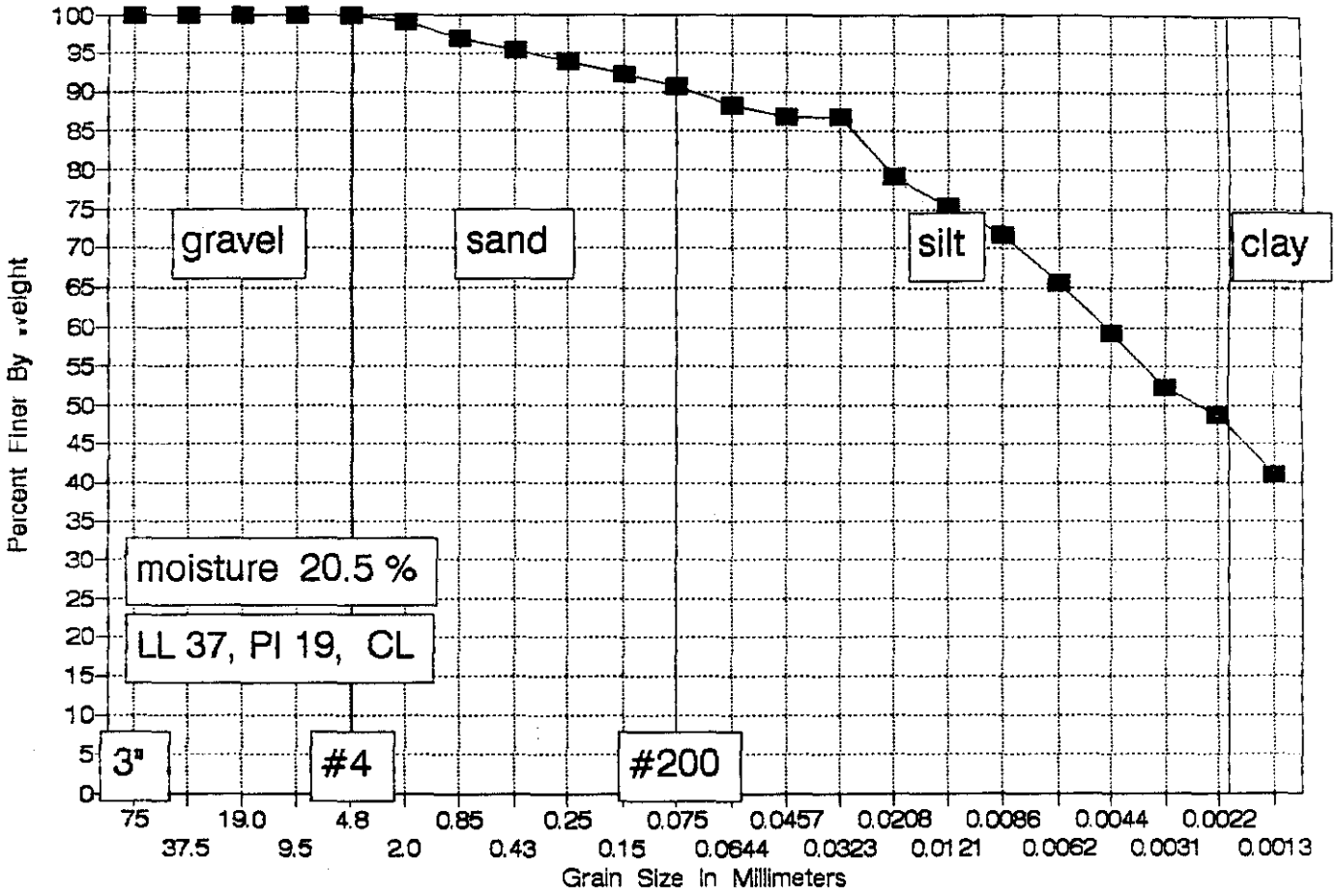
SIEVE ANALYSIS

Dry weight of total sample= 332.2

Sieve #	weight retained	% Finer		
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	0	100.00%	100.0	19.0
3/8 inch	4.7	98.59%	98.6	9.5
# 4	8.1	97.56%	97.6	4.8
# 10	19.8	94.04%	94.0	2.0
# 20	36	89.16%	89.2	0.85
# 40	50.1	84.92%	84.9	0.43
# 60	65	80.43%	80.4	0.25
# 100	76.5	76.97%	77.0	0.15
# 200	86	74.11%	74.1	0.075

GRADATION CURVE

Boring C-2R sample at 22 to 24 feet



Chemical Waste Management RFI Phase II

Boring C-2R
Sample at 22 to 24 feet

Wt soil and dish	275.1
Dry soil & dish	246.9
Dish	109.3

Moisture Content = 20.5

SIEVE & HYDROMETER ANALYSIS

SIEVE PORTION

Dry weight of TOTAL sample= 137.6
sample split -#10 sieve = 30.21

Sieve #	Weight Retained	Total Percent Finer
1.5 inch		100.00%
3/4 inch	0	100.00%
3/8 inch	0	100.00%
# 4	0.14	99.90%
# 10	1.49	98.92%
# 20	0.61	96.92%
# 40	1.06	95.45%
# 60	1.53	93.91%
# 100	2.01	92.34%
# 200	2.5	90.73%

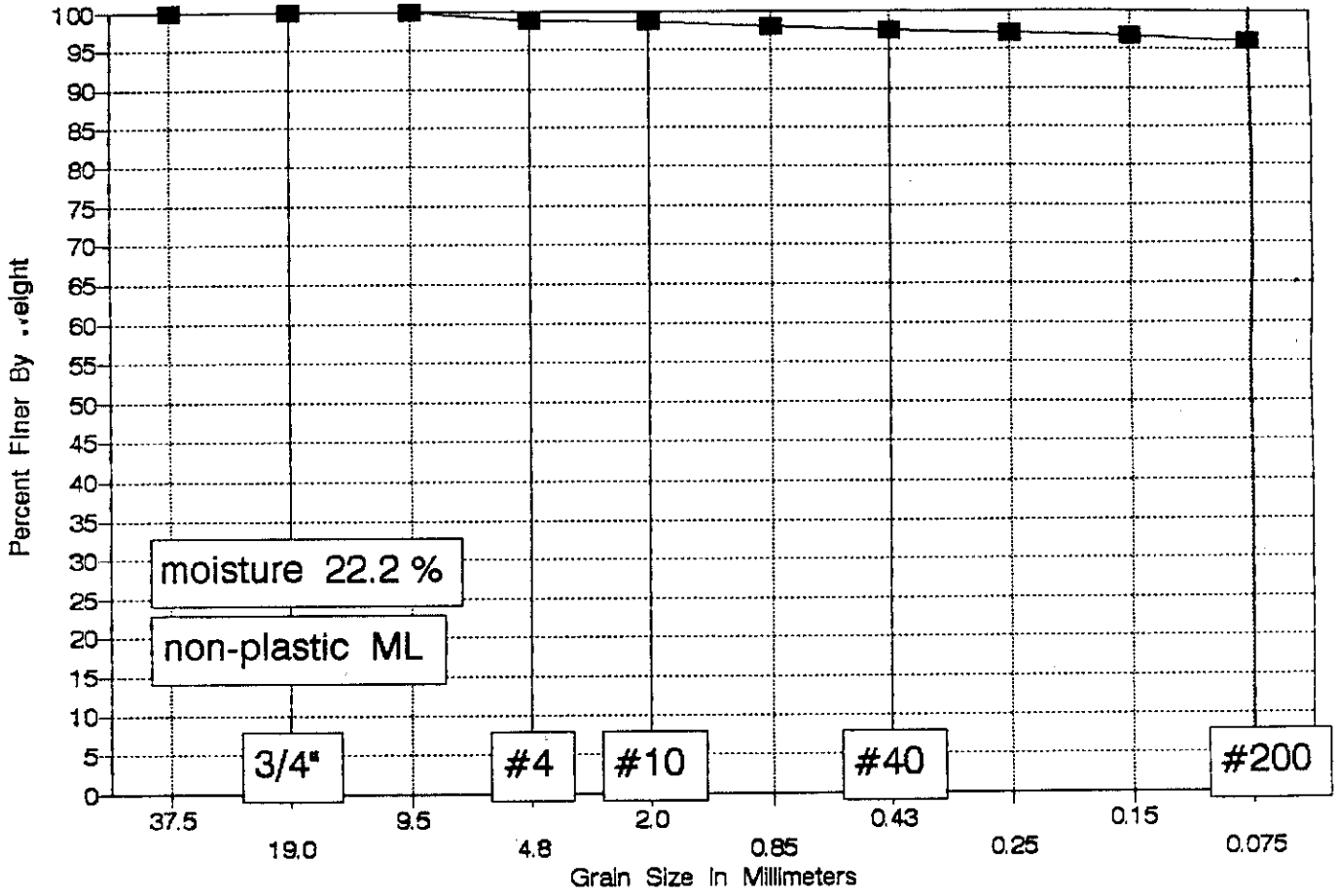
Constants this test
Gs= 2.65 20c=.01365 21c=.01348 22c=.01332
18c=.01399 19c=.01382
When 5 grams of Sodium Hexametaphosphate used correction = 6

HYDROMETER ANALYSIS

Elapsed time	Tc	R'	Zr	Particle Dia. mm	Percent Partial	Total Percent Finer
0.5	20	33	10.86	0.0644	89.37	88.41
1	20	32.5	10.94	0.0457	87.72	86.77
2	20	32.5	10.94	0.0323	87.72	86.77
5	20	30.2	11.32	0.0208	80.11	79.24
15	20	29	11.52	0.0121	76.13	75.31
30	20	27.9	11.70	0.0086	72.49	71.71
60	20	26	12.01	0.0062	66.20	65.49
120	20	24.1	12.32	0.0044	59.91	59.27
250	19	22	12.67	0.0031	52.96	52.39
500	19	20.9	12.85	0.0022	49.32	48.79
1536	20	18.5	13.25	0.0013	41.38	40.93

GRADATION CURVE

Boring C-2R sample at 30.5 to 31 feet



CWM RFI Phase II

Boring C-2R
Sample
Depth 30.5-31 feet
Moisture Content = 22.2

Wt soil and dish 302.8
Dry soil & dish 267.4
Dish 107.9

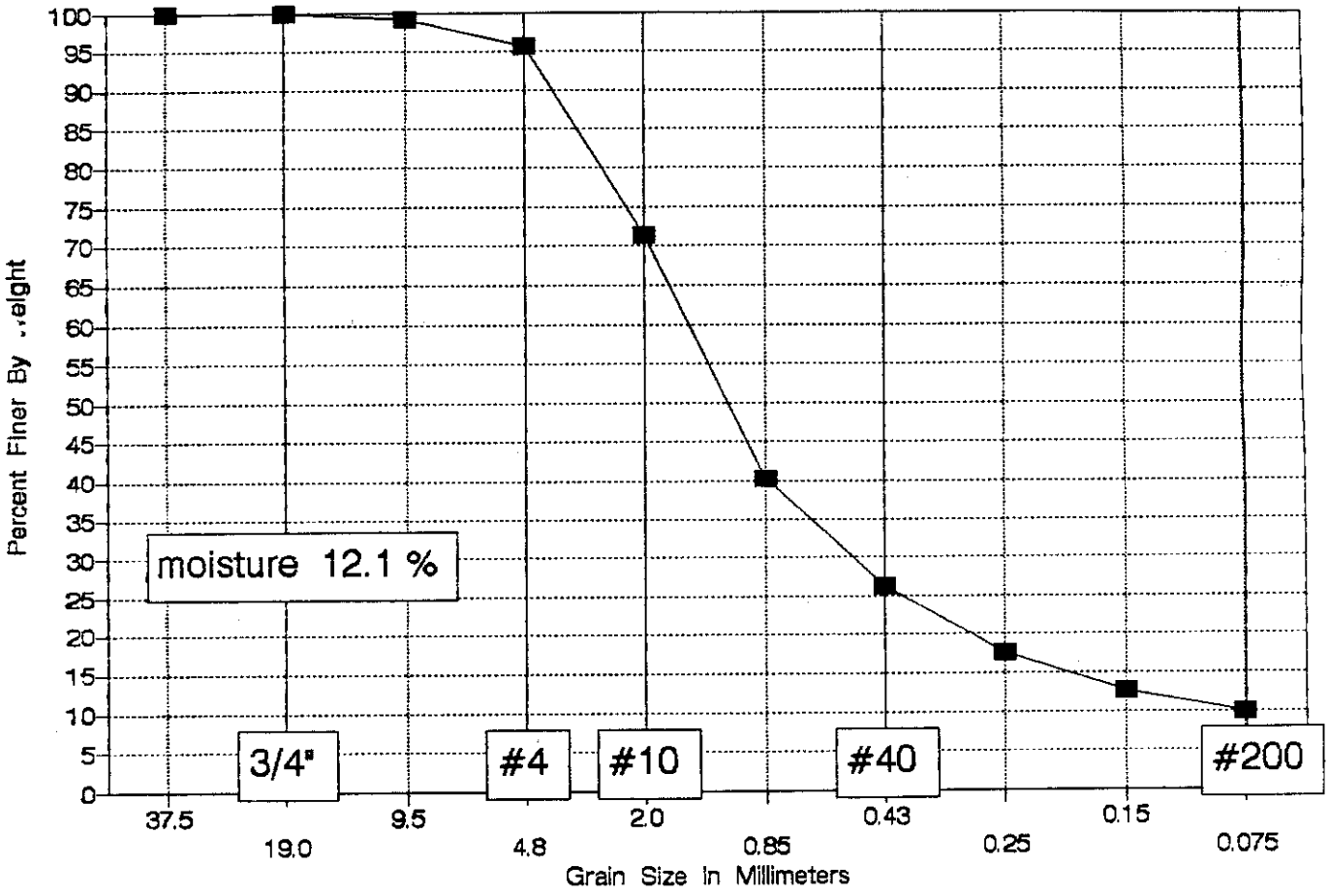
SIEVE ANALYSIS

Dry weight of total sample= 159.5

Sieve #	weight retained	% Finer		
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	0	100.00%	100.0	19.0
3/8 inch	0	100.00%	100.0	9.5
# 4	1.8	98.87%	98.9	4.8
# 10	2.3	98.56%	98.6	2.0
# 20	3.1	98.06%	98.1	0.85
# 40	3.9	97.55%	97.6	0.43
# 60	4.5	97.18%	97.2	0.25
# 100	5.2	96.74%	96.7	0.15
# 200	6.3	96.05%	96.1	0.075

GRADATION CURVE

Boring C-2R sample at 31.5 to 32 feet



CWM RFI Phase II

Boring C-2R
Sample
Depth 31.5-32 feet
Moisture Content = 12.1

Wt soil and dish	326.5
Dry soil & dish	303.4
Dish	112.9

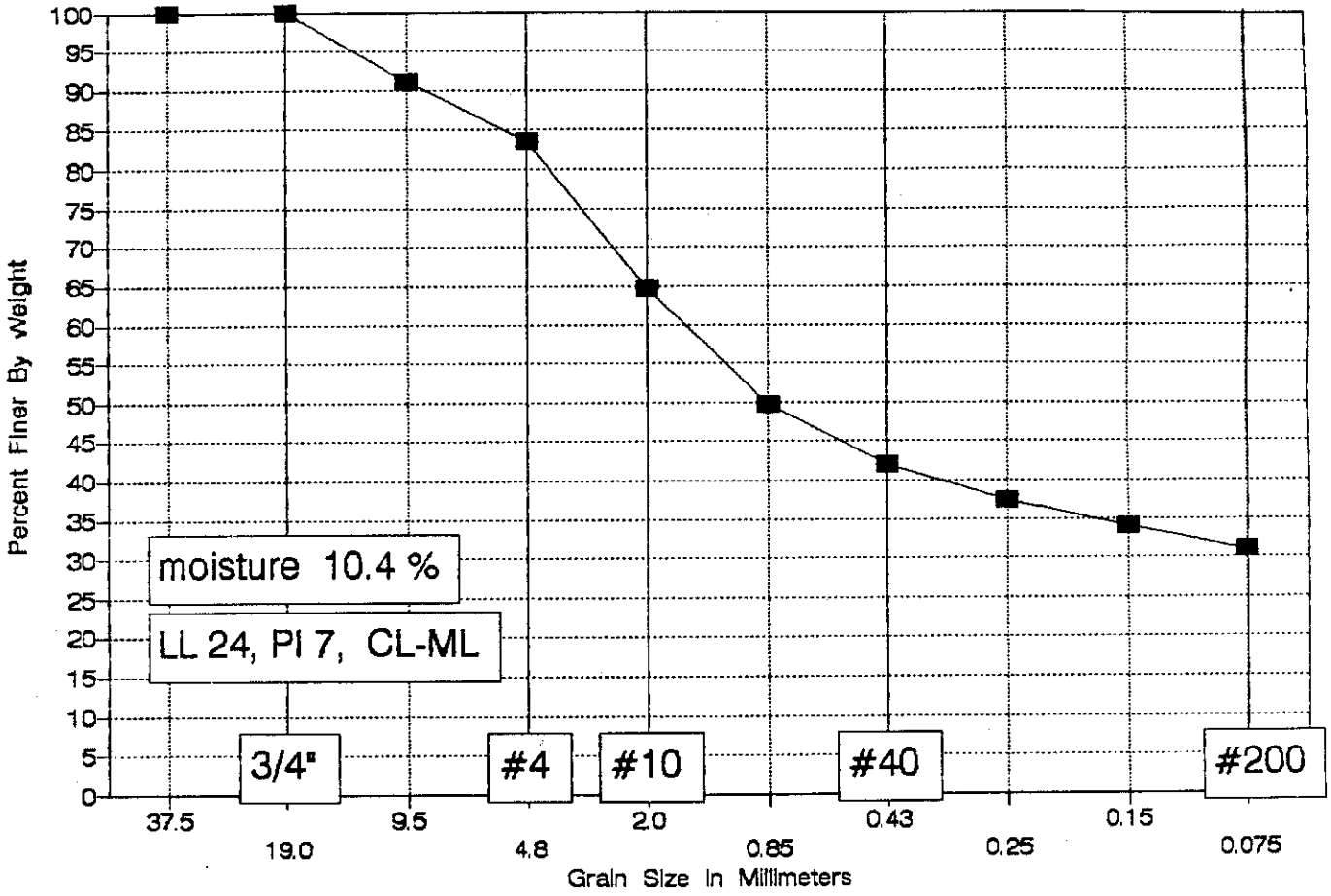
SIEVE ANALYSIS

Dry weight of total sample= 190.5

Sieve #	weight retained	% Finer		
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	0	100.00%	100.0	19.0
3/8 inch	1.7	99.11%	99.1	9.5
# 4	8.2	95.70%	95.7	4.8
# 10	54.7	71.29%	71.3	2.0
# 20	113.8	40.26%	40.3	0.85
# 40	140.5	26.25%	26.2	0.43
# 60	156.8	17.69%	17.7	0.25
# 100	166.6	12.55%	12.5	0.15
# 200	171.5	9.97%	10.0	0.075

GRADATION CURVE

Boring C-2R sample 10 at 38 to 40 feet



CWM RFI Phase II

Boring C-2R
Sample 10
Depth 38-40 feet
Moisture Content = 10.4

Wt soil and dish	256.7
Dry soil & dish	242.5
Dish	105.9

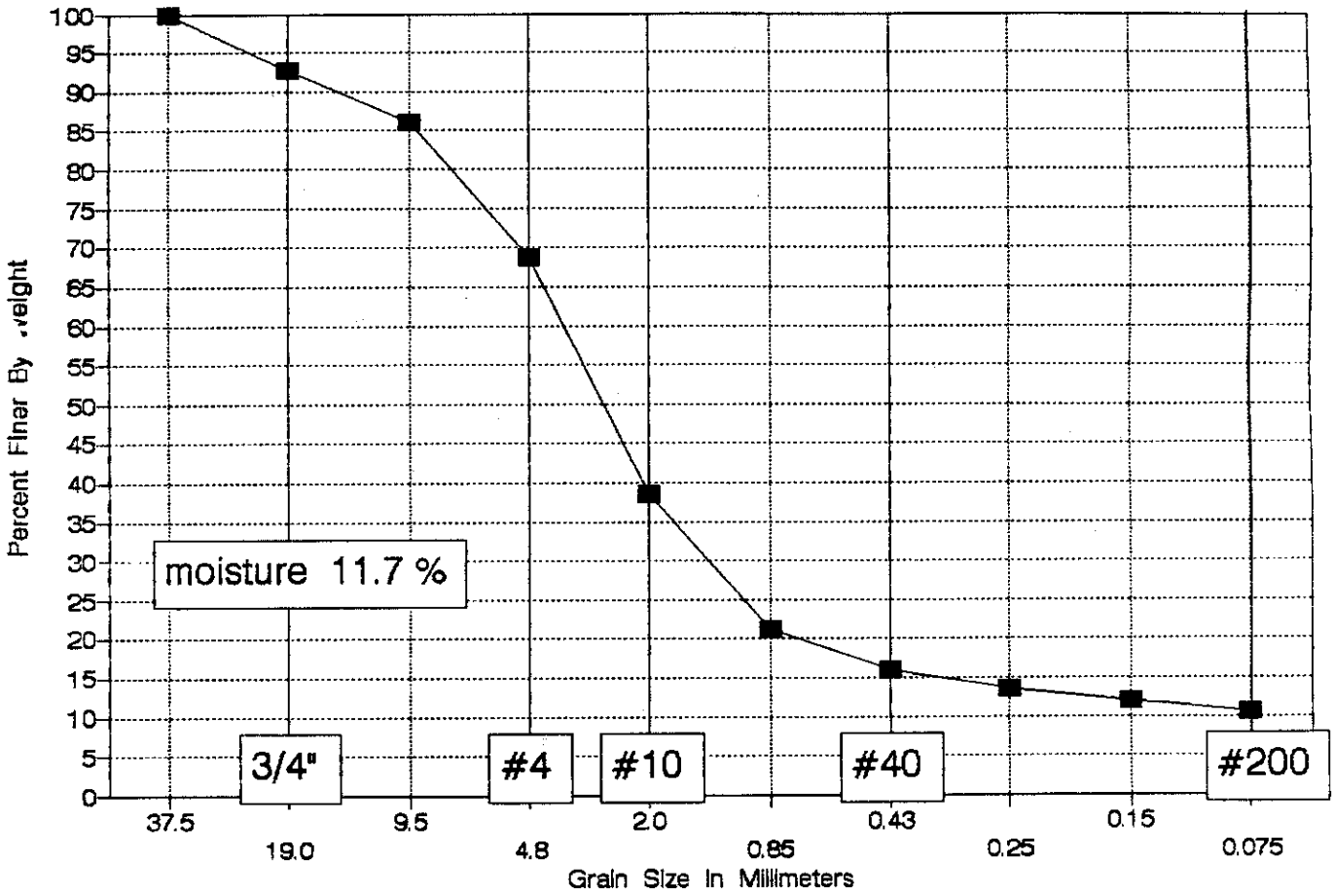
SIEVE ANALYSIS

Dry weight of total sample= 136.6

Sieve #	weight retained	% Finer		
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	0	100.00%	100.0	19.0
3/8 inch	12.1	91.14%	91.1	9.5
# 4	22.5	83.53%	83.5	4.8
# 10	48.2	64.71%	64.7	2.0
# 20	68.6	49.78%	49.8	0.85
# 40	79.2	42.02%	42.0	0.43
# 60	85.5	37.41%	37.4	0.25
# 100	90	34.11%	34.1	0.15
# 200	94.1	31.11%	31.1	0.075

GRADATION CURVE

Boring C-2R sample 11 at 40 to 42 feet



CWM RFI Phase II

Boring C-2R
Sample 11
Depth 40-42 feet
Moisture Content = 11.7

Wt soil and dish	484.6
Dry soil & dish	445.2
Dish	107.8

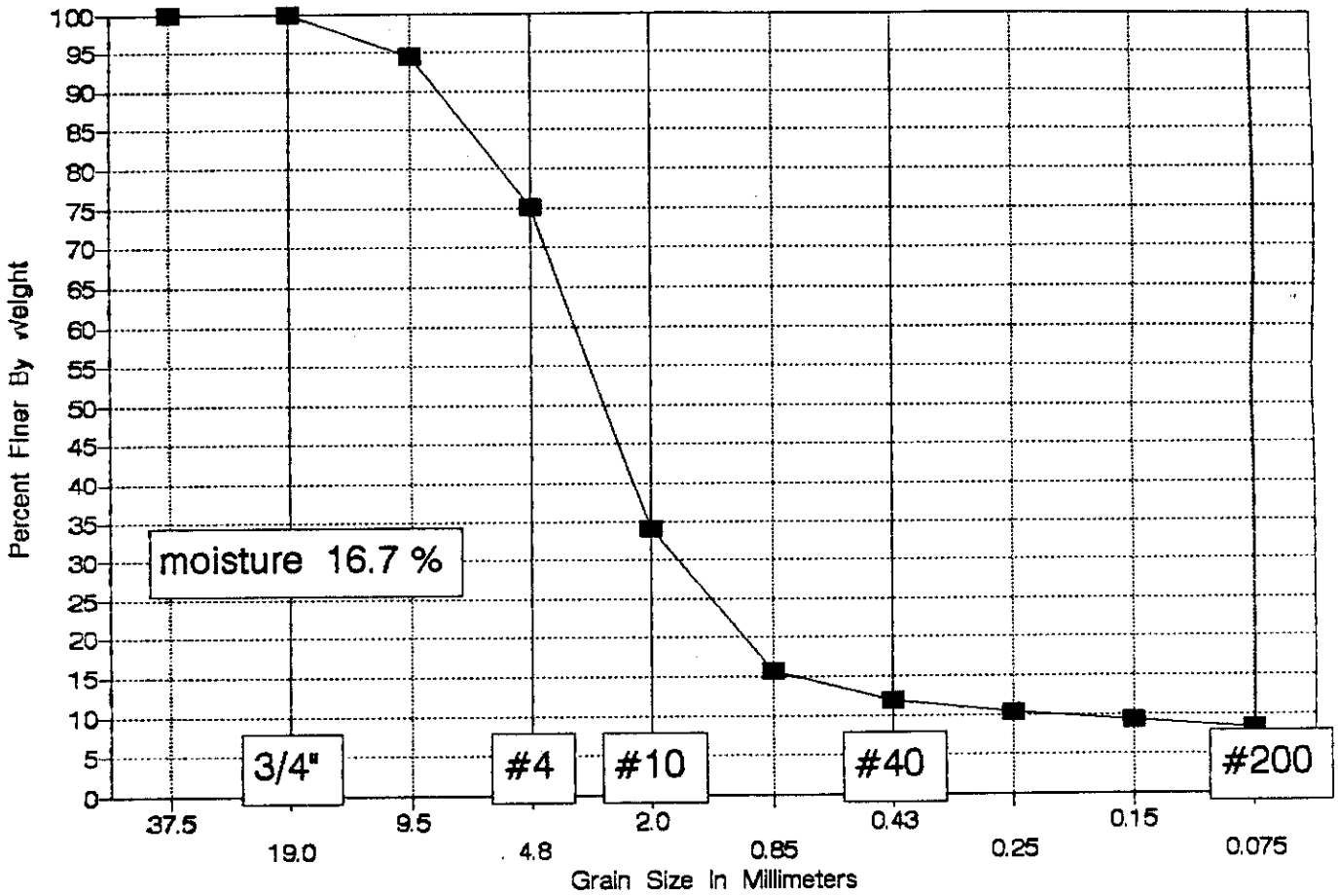
SIEVE ANALYSIS

Dry weight of total sample= 337.4

Sieve #	weight retained	% Finer		
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	24.8	92.65%	92.6	19.0
3/8 inch	46.8	86.13%	86.1	9.5
# 4	105.4	68.76%	68.8	4.8
# 10	207.4	38.53%	38.5	2.0
# 20	266	21.16%	21.2	0.85
# 40	283.3	16.03%	16.0	0.43
# 60	291.7	13.54%	13.5	0.25
# 100	297.1	11.94%	11.9	0.15
# 200	301.8	10.55%	10.6	0.075

GRADATION CURVE

Boring C-2R sample 12x at 42 to 44 feet



CWM RFI Phase II

Boring C-2R
Sample 12x
Depth 42-44 feet
Moisture Content = 16.7

Wt soil and dish	297.5
Dry soil & dish	270.4
Dish	108

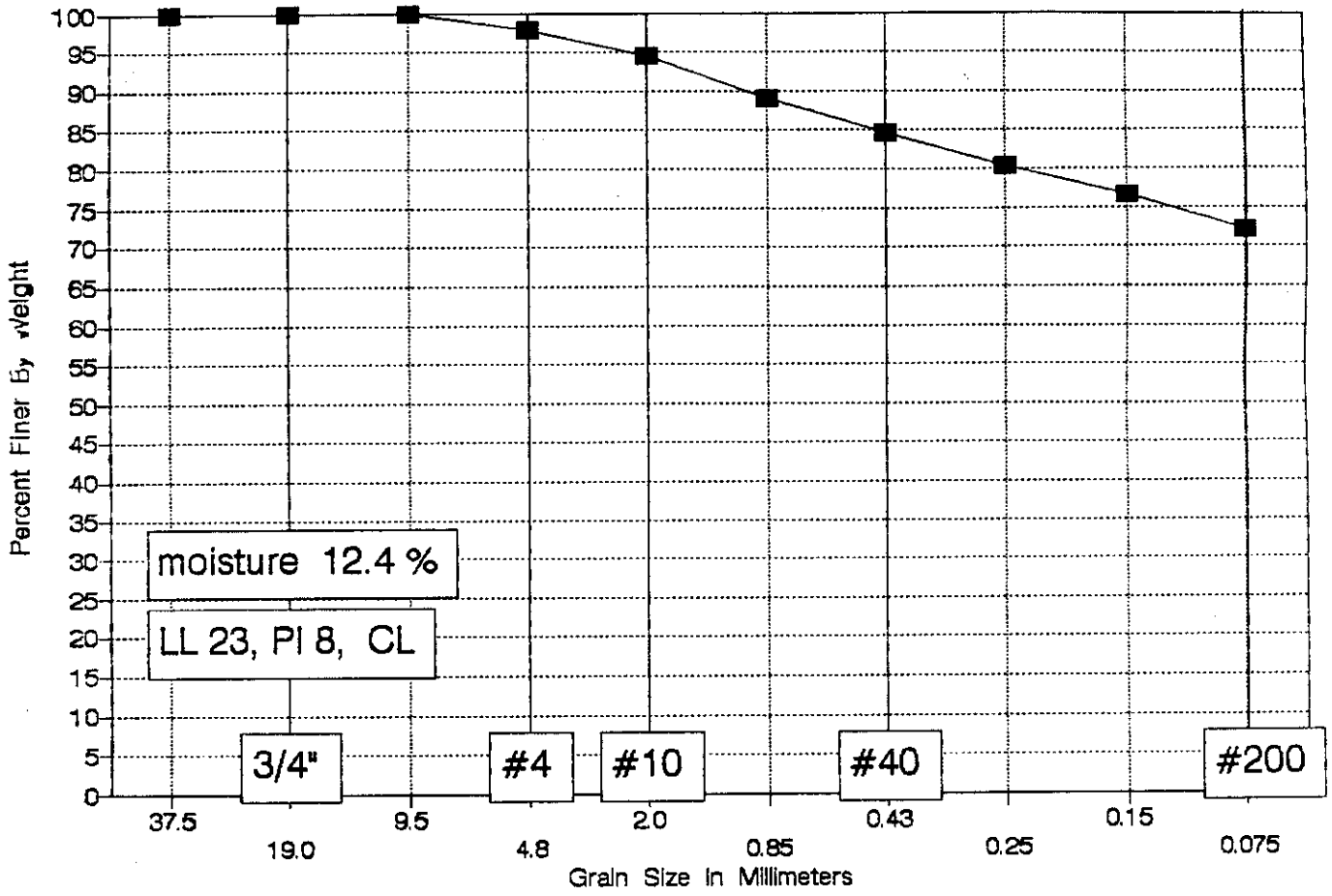
SIEVE ANALYSIS

Dry weight of total sample= 162.4

Sieve #	weight retained	% Finer		
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	0	100.00%	100.0	19.0
3/8 inch	8.9	94.52%	94.5	9.5
# 4	40.3	75.18%	75.2	4.8
# 10	107.1	34.05%	34.1	2.0
# 20	137.1	15.58%	15.6	0.85
# 40	143.1	11.88%	11.9	0.43
# 60	145.7	10.28%	10.3	0.25
# 100	147.3	9.30%	9.3	0.15
# 200	148.9	8.31%	8.3	0.075

GRADATION CURVE

Boring C-2R sample 13 at 44 to 46 feet



CWM RFI Phase II

Boring C-2R
Sample 13
Depth 44-46 feet
Moisture Content = 12.4

Wt soil and dish	267.3
Dry soil & dish	249.7
Dish	107.7

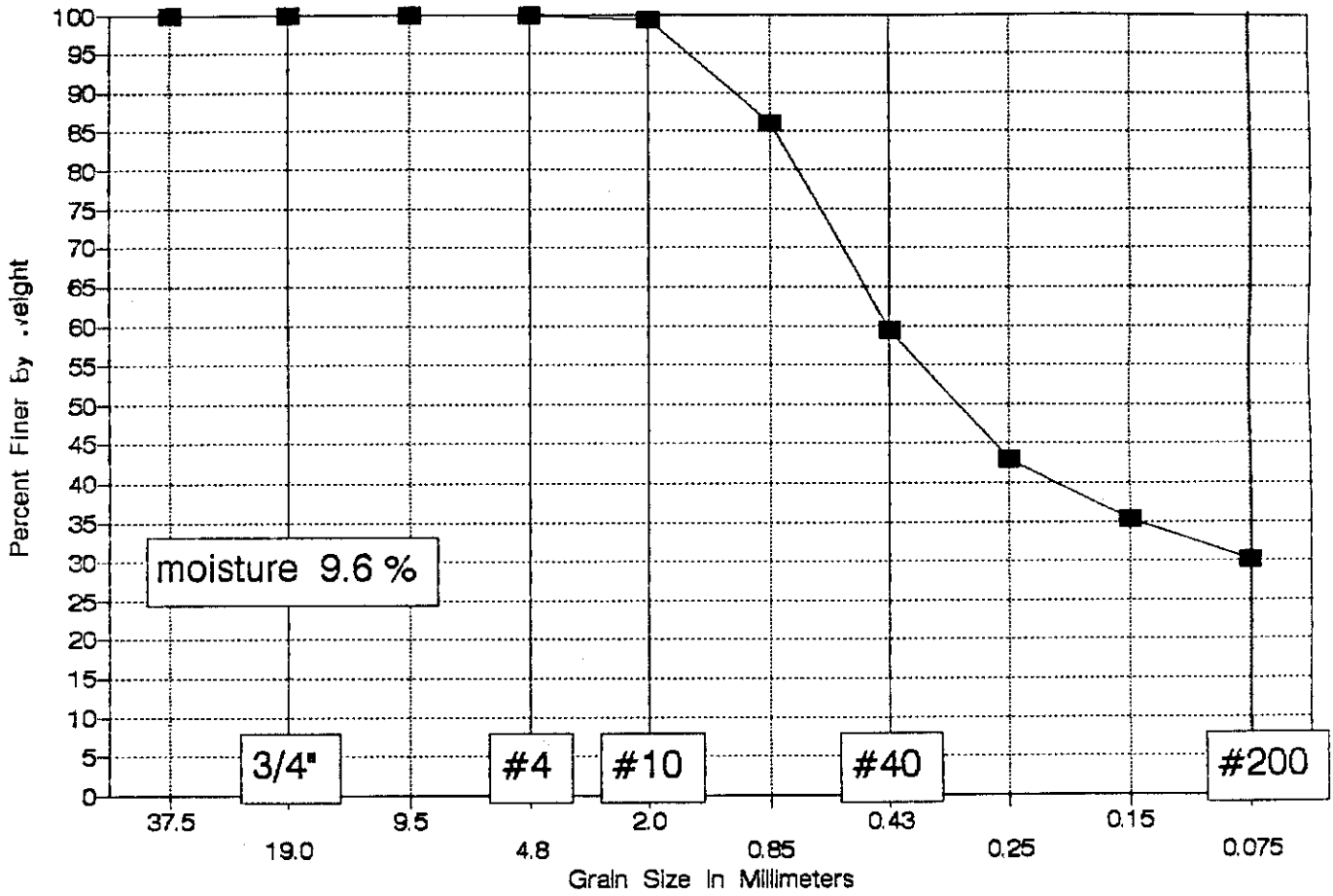
SIEVE ANALYSIS

Dry weight of total sample= 142

Sieve #	weight retained	% Finer		
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	0	100.00%	100.0	19.0
3/8 inch	0	100.00%	100.0	9.5
# 4	3.1	97.82%	97.8	4.8
# 10	7.8	94.51%	94.5	2.0
# 20	15.4	89.15%	89.2	0.85
# 40	21.8	84.65%	84.6	0.43
# 60	28	80.28%	80.3	0.25
# 100	33.3	76.55%	76.5	0.15
# 200	39.7	72.04%	72.0	0.075

GRADATION CURVE

Boring C-2R sample 16x at 50 to 52 feet



CWM RFI Phase II

Boring C-2R
Sample 16x
Depth 50-52 feet
Moisture Content = 9.6

Wt soil and dish	281.3
Dry soil & dish	266.2
Dish	108.2

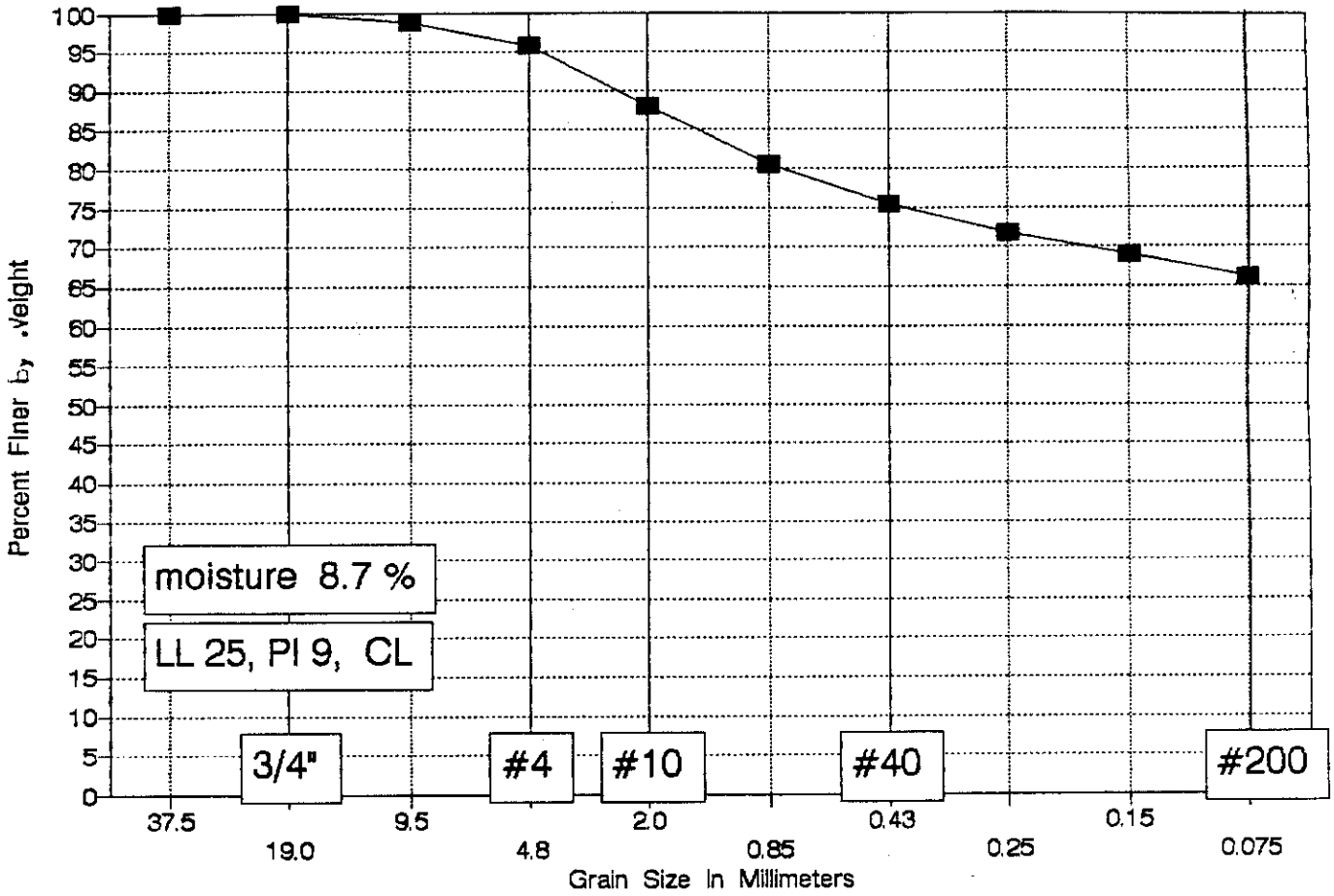
SIEVE ANALYSIS

Dry weight of total sample= 158

Sieve #	weight retained	% Finer		
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	0	100.00%	100.0	19.0
3/8 inch	0	100.00%	100.0	9.5
# 4	0	100.00%	100.0	4.8
# 10	0.9	99.43%	99.4	2.0
# 20	22.1	86.01%	86.0	0.85
# 40	64.2	59.37%	59.4	0.43
# 60	90.2	42.91%	42.9	0.25
# 100	102.1	35.38%	35.4	0.15
# 200	110.3	30.19%	30.2	0.075

GRADATION CURVE

Boring C-2R sample at 52 to 54 feet



CWM RFI Phase II

Boring C-2R
Sample
Depth 52-54 feet
Moisture Content = 8.7

Wt soil and dish 225.9
Dry soil & dish 216.6
Dish 109.1

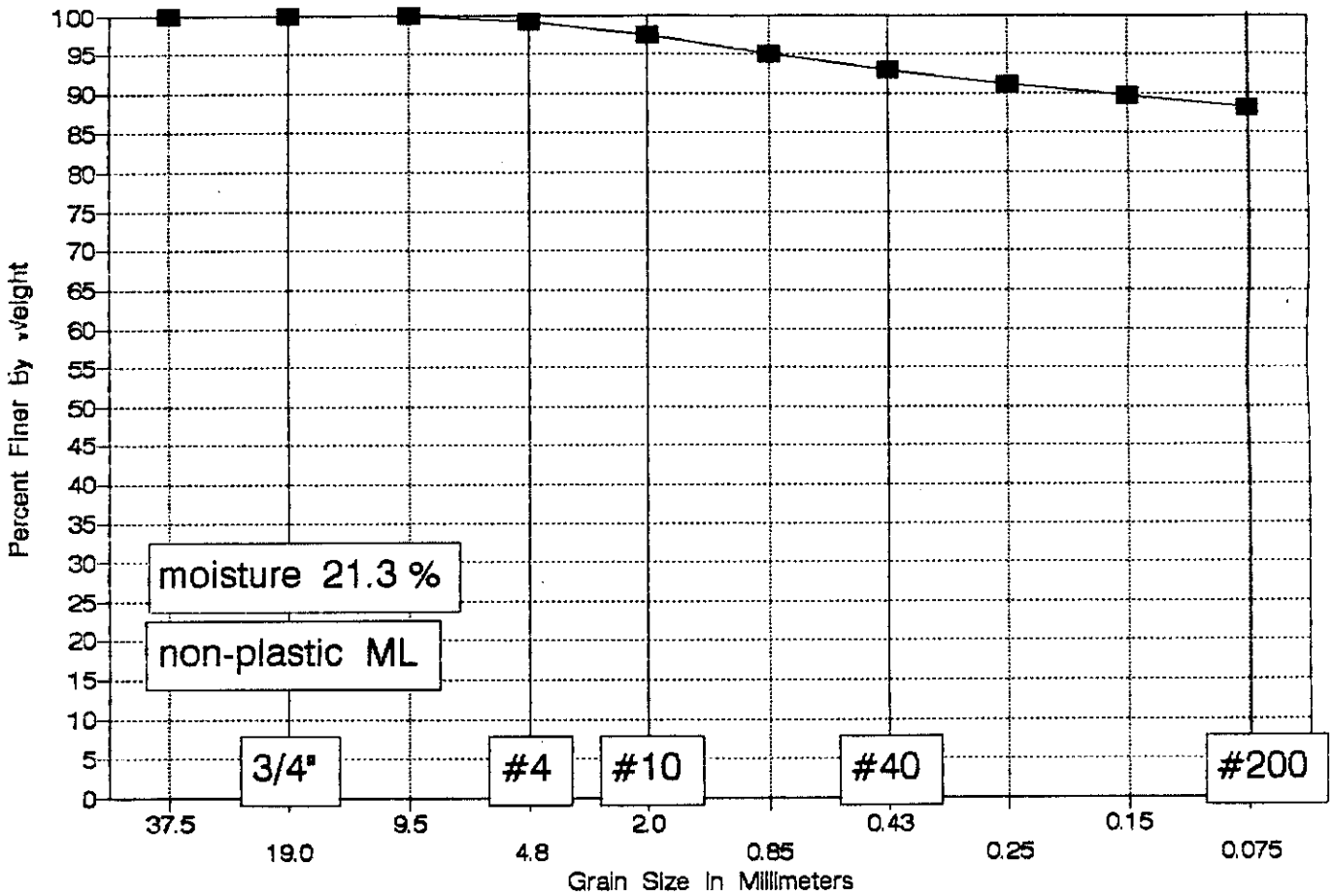
SIEVE ANALYSIS

Dry weight of total sample= 107.5

Sieve #	weight retained	% Finer		
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	0	100.00%	100.0	19.0
3/8 inch	1.3	98.79%	98.8	9.5
# 4	4.6	95.72%	95.7	4.8
# 10	13	87.91%	87.9	2.0
# 20	20.9	80.56%	80.6	0.85
# 40	26.3	75.53%	75.5	0.43
# 60	30.3	71.81%	71.8	0.25
# 100	33.3	69.02%	69.0	0.15
# 200	36.4	66.14%	66.1	0.075

GRADATION CURVE

Boring C-2R sample at 59 to 59.5 feet



CWM RFI Phase II

Boring C-2R
Sample
Depth 59-59.5 feet
Moisture Content = 21.3

Wt soil and dish	379.8
Dry soil & dish	332.4
Dish	109.5

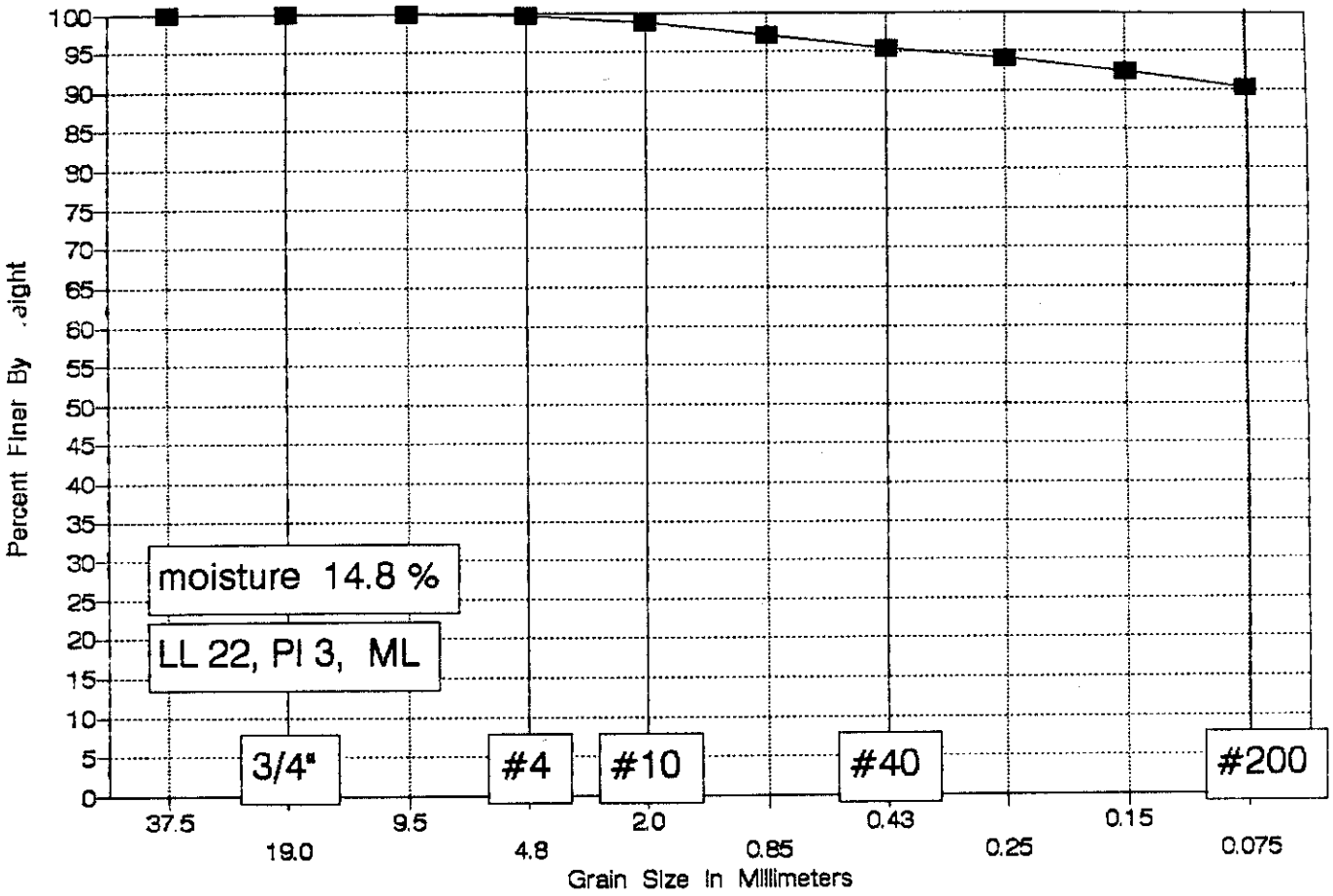
SIEVE ANALYSIS

Dry weight of total sample= 222.9

Sieve #	weight retained	% Finer		
1.5 inch	0	100.00%	100.0	37.5
3/4 inch	0	100.00%	100.0	19.0
3/8 inch	0	100.00%	100.0	9.5
# 4	1.7	99.24%	99.2	4.8
# 10	5.7	97.44%	97.4	2.0
# 20	11.1	95.02%	95.0	0.85
# 40	15.8	92.91%	92.9	0.43
# 60	19.7	91.16%	91.2	0.25
# 100	23	89.68%	89.7	0.15
# 200	26.2	88.25%	88.2	0.075

GRADATION CURVE

Boring D-2 sample 19 at 51 to 53 feet



CWM CHEMICAL SERVICES, INC.
CHICAGO INCINERATOR FACILITY
FINAL RCRA FACILITY INVESTIGATION REPORT
January 10, 1994

TABLE OF CONTENTS

VOLUME I	Part 1	Facility Investigation
	Part 2	Evaluation of Corrective Measure Technologies
	Part 3	Investigation Analysis
VOLUME II	Appendix A:	Boring Logs, Phase I
	Appendix B:	Boring Logs, Phase II
	Appendix C:	Well Logs Within One Mile Radius
	Appendix D:	Well Construction, Phase I
	Appendix E:	Well Construction, Phase II
	Appendix F:	Slug Test Results for RFI Wells
	Appendix G:	Bail Recovery/Slug Tests for Temporary Piezometers
	Appendix H:	Lab Permeability Results
	Appendix I:	Soils Lab Data
VOLUME III	Appendix J:	ISGS Methane Gas Report
	Appendix K:	Laboratory Reports
	Appendix L:	Isoconcentration Maps
	Appendix M:	Groundwater Model Results
VOLUME IV	Appendix N:	Data Validation Reports
	Appendix O:	RFI Baseline Human Health Risk Assessment
	Appendix P:	Draft Ecological Risk Asssessment

J

Manufactured By EconoPrint, Inc., Madison, WI

Printed On Recycled Paper

APPENDIX J

ISGS METHANE GAS REPORT

Illinois State Geological Survey

Natural Resources Building
615 East Peabody Drive
Champaign, IL 61820-6964
217/333-4747
FAX 217/244-7004

ENR
Illinois Department of
Energy and Natural Resources

July 9, 1992

Mr. David P. Trainor
Dames & Moore
1846 Hoffman Street
Madison, Wisconsin 53704

Dear David Trainor:

Enclosed is our final technical report on the isotopic results we obtained from the gas samples collected at the Chemical Waste Management-Chicago Incinerator site. Let us know if you have any questions or comments on the report. We have also included an invoice for the isotopic analyses and transportation involved with the last sampling trip to the site.

We have enjoyed working with you and Mark McColloch. Thank you for your input to the GSA abstract, I think it has been a very interesting study and hope it will be accepted for the meeting this fall.

Best Regards,

Keith C. Hackley

Keith C. Hackley
Associate Geochemist
Isotope Geochemistry Unit
ISGS

cc
C.L. (Jack) Liu, Unit Head

Printed on recycled paper

IDENTIFICATION OF THE SOURCE OF METHANE AT THE SITE OF CHEMICAL WASTE MANAGEMENT - CHICAGO INCINERATOR

by

Keith C. Hackley and C. L. (Jack) Liu
Isotope Geochemistry Unit

prepared for
Dames and Moore

Illinois State Geological Survey
615 East Peabody
Champaign, Illinois 61820

July, 1992

Identification of the Source of Methane
at the Site of
Chemical Waste Management - Chicago Incinerator

TABLE OF CONTENTS

EXECUTIVE SUMMARY ii

I. INTRODUCTION. 1

II. BACKGROUND - ENVIRONMENTAL ISOTOPES. 3

A. Stable Isotopes 3

1. Carbon and Hydrogen Isotopes 5
2. Oxygen and hydrogen Isotopes 6

B. Radioactive Isotopes (Carbon-14). 6

III. SITE LOCATION, METHODS AND SITE GEOLOGY. 8

A. Site and Sample Location. 8

B. Site Description and Geology. 8

C. Methods 9

IV. RESULTS AND DISCUSSION 11

A. Assessment of $\delta^{13}C$ and δD of Methane 11

B. Assessment of ^{14}C Results. 13

C. Further Implications of Isotopic and Chemical Results 16

D. Assessment of "Biobeds" as a Source of Subsurface Methane . . . 15

V. CONCLUSIONS. 16

VI. ACKNOWLEDGEMENTS 17

VII. REFERENCES 18

VIII. TABLES 20

IX. FIGURES. 23

EXECUTIVE SUMMARY

Significant concentrations of methane have been found in subsurface sediments at the Chemical Waste Management-Chicago Incinerator site at Lake Calumet in southeastern Cook County, Illinois. During a subsurface investigation of the site, the consulting firm Dames and Moore found concentrations of methane up to 70% in subsurface gas samples. The Lake Calumet area has a long history of receiving industrial and municipal waste materials and is currently surrounded by several landfills which are potential sources of methane production.

The purpose of this investigation was to help determine the source of methane in the subsurface sediments at the CWM-Chicago Incinerator site using environmental isotopes. The basic approach was to analyze the methane (CH_4) for its carbon and hydrogen isotopic composition and compare the results to the various genetic groups of methane for which isotopic compositions are well established.

The carbon isotopic composition of the methane from the lower lacustrine and glacial deposits at this site indicate that the primary source of methane is from the natural microbial reduction of carbon dioxide within the sediments. The carbon-14 data and stable carbon isotopic data for the methane and carbon dioxide indicate that the methane sampled from the shallower lacustrine sediments is probably a mixture of microbial methane produced in the deeper zones and microbial methane produced by a different metabolic pathway known as acetate-fermentation in the shallower sediments. Although landfill methane is also produced by microbial fermentation of organic matter, the carbon-14 and carbon isotopic data of associated carbon dioxide as well as the chemical composition of gas samples nearest the landfill indicate that there is no significant contribution of landfill methane in the wells sampled at this site.

The hydrogen isotopic ratio of the methane from the deep and intermediate stratigraphic zones is unusually light for microbial methane produced by reduction of carbon dioxide. However, isotopic analysis on water sampled from the lower glacial deposits and water sampled from the bedrock in the area also show very light hydrogen isotopic compositions which explains the unusually light hydrogen isotopes observed in the methane.

I. INTRODUCTION

Significant concentrations of methane are present in subsurface sediments at the Chemical Waste Management (CWM)-Chicago Incinerator site at Lake Calumet in southeastern Cook County, Illinois. The CWM-Chicago Incinerator is a treatment facility for hazardous wastes and is located on the third pier on the eastern side of the lake. Dames and Moore, a consulting firm, was hired by CWM to do a subsurface investigation of the site. During the subsurface investigation, Dames and Moore found significant concentrations of methane and requested the assistance of the Isotope Geochemistry Unit of the ISGS to help determine the source of the methane using environmental isotopes.

There are at least three possible sources of methane in the area of the third pier at Lake Calumet: 1) methane derived from natural microbial processes in the glacial deposits, 2) methane derived from nearby landfills, and 3) methane derived from organic waste material associated with "biobeds" which were once located on the surface of the pier. The first possible source, bacterial "drift gas", occurs naturally and is relatively common in the glacial deposits and shallow Paleozoic sediments throughout Illinois (Coleman et al. 1988). Landfills, the second possible source mentioned, are a likely source since a significant amount of methane is produced in landfills and there are several large landfills surrounding Lake Calumet. One, the Paxton Landfill, is located directly east of the pier just across the access road. The third possible source mentioned above, the "biobeds", were long ditches located at the front of the pier before the incinerator was built by CWM. The ditches were apparently used to dispose of liquid organic wastes. The organic wastes and ditches were removed from the front part of the pier prior to construction of the Chicago

Incinerator. It has been suggested that perhaps some of the hydrocarbons could have moved downward from the "biobed" area into the subsurface sediments and have become the source of methane.

The use of environmental isotopes can be very helpful for distinguishing different sources of methane (Schoell, 1980; Whiticar et al., 1986; Coleman et al., 1991). In this investigation we analyzed the carbon isotope ($^{13}C/^{12}C$) and hydrogen isotope ($^{2}H/^{1}H$) ratios of the CH_4 in the gas samples. The $^{13}C/^{12}C$ ratio of carbon dioxide (CO_2) was also analyzed in several gas samples. A few of the methane samples were analyzed for their carbon-14 (^{14}C) contents; radiocarbon analyses are particularly useful for identifying landfill methane.

The following report interprets of the isotopic data and discusses what they reveal about the source of methane in the subsurface sediments of the third pier on Lake Calumet. Since many people are unfamiliar with the use of environmental isotopes, the background section defines and briefly reviews the aspects of isotope geochemistry which are pertinent to this report.

II. BACKGROUND - ENVIRONMENTAL ISOTOPES

Isotopes are atoms of the same element that have a different number of neutrons in the nuclei and therefore different atomic weights (shown as a superscript in front of the element's symbol). Isotopes may be "stable" or "radioactive". Environmental isotopes generally include the isotopes of the following elements: carbon (^{12}C, ^{13}C, ^{14}C), hydrogen (^{1}H, ^{2}H, ^{3}H), oxygen (^{16}O, ^{18}O), sulfur (^{32}S, ^{34}S) and nitrogen (^{14}N, ^{15}N). In the current study we have used the isotopes of carbon, hydrogen and oxygen. The relative terrestrial abundances for the isotopes of these three elements are:

Carbon-12 (^{12}C)	98.89%	
Carbon-13 (^{13}C)	1.11%	
Carbon-14 (^{14}C)	10^{-10}%	(radioactive)
Hydrogen (^{1}H)	99.984%	
Deuterium (^{2}H,D).	0.015%	
Tritium (^{3}H)	10^{-14} to 10^{-16}%	(radioactive)
Oxygen-16 (^{16}O)	99.76%	
Oxygen-18 (^{18}O)	0.2%	

(from Hoefs, 1980; Fritz and Fontz, 1980)

A. Stable Isotopes

The concentrations of stable isotopes of an element in coexisting chemical phases or reacting chemical compounds vary slightly because of the differences in the mass of the isotopes. In general, for those elements undergoing transitions from solid, to liquid to gaseous phases over a range of temperature, the heavier isotope will be concentrated in the solid phase where it is more strongly bound. Heavier isotopes also tend to be concentrated in the more oxidized phase of an element. Isotopic distributions in biological systems

(such as photosynthesis or bacterial reactions) are primarily a result of kinetic effects or, in other words, differences between the reaction rates of the isotopes. In general the lighter isotope will have the faster reaction rate and will be concentrated in the main reaction product relative to the source materials.

Actual differences between isotopic abundances are usually very small and are normally expressed in the "delta" (δ) notation. A δ value of an isotope in a sample is the per mil (‰, parts per thousand) difference in the ratio of the less abundant isotope to the most abundant isotope in a sample relative to the same ratio in a known standard. This is illustrated in the following equation:

$$\delta X_{(sample)} = [(R_{sample} - R_{standard}) / R_{standard}] \cdot 1000$$

where δX represents the isotope of interest ($\delta^{13}C$, δD, or $\delta^{18}O$) and R represents the ratio of $^{13}C/^{12}C$, $^{2}H/^{1}H$, or $^{18}O/^{16}O$. The reference standard used for reporting the carbon results is PDB (Peedee Belemnite, or Belemitella americana from the Cretaceous Peedee Formation). The reference standard for the hydrogen and oxygen results is SMOW (Standard Mean Ocean Water). Positive values of $\delta^{13}C$, $\delta^{18}O$ or δD mean that the sample is enriched in the heavy isotope relative to the standard. Negative values of $\delta^{13}C$, $\delta^{18}O$ or δD mean that the sample is depleted in the heavy isotope relative to the standard. More positive values are often referred to as being isotopically "heavier", whereas more negative values are often referred to as being isotopically "lighter".

1. Carbon and Hydrogen Isotopes

Carbon and hydrogen isotopes and have been used quite successfully to determine the source of methane gas in Illinois and around the world (Schoell, 1980; Whiticar et al., 1986; Coleman et al., 1988). The majority of methane (CH_4) in nature is formed by two distinct processes, thermal decomposition of organic matter and microbial decomposition of organic matter. These two processes fractionate the carbon and hydrogen isotopes to different degrees. The $\delta^{13}C$ of thermogenic methane generally ranges between -25 to -50‰ while the $\delta^{13}C$ of microbial methane generally ranges between -50 to -90‰. Thus, analysis of the isotopic composition of CH_4 can provide useful information for distinguishing between sources of CH_4. Chemical analysis may also be helpful in distinguishing sources of CH_4 since thermogenic CH_4 (CH_4 associated with the production of petroleum) frequently is accompanied by significant quantities of higher molecular-weight carbon compounds such as ethane, propane and butane (Coleman et al., 1991).

During microbial methane production, often refered to as "methanogenesis", the CH_4 produced is enriched in the lighter isotopes (^{12}C and ^{1}H) relative to the original carbon source material. The CO_2 associated with microbial methane production is enriched in the heavier isotope (^{13}C). These isotopic effects during methanogenesis are shown in figure 1. The two primary metabolic pathways by which microbial methane is produced are CO_2-reduction and fermentation of acetate and other simple organic substrates (Whiticar et al., 1986). These two metabolic pathways yield methane with different isotopic characteristics. Methane produced by the CO_2-reduction pathway usually has isotopically lighter

$\delta^{13}C$ values and isotopically heavier δD values than the methane produced by fermentation (Whiticar et al., 1986).

2. Oxygen and Hydrogen Isotopes

The processes of evaporation, condensation and precipitation, as well as the temperature at which these processes take place, significantly affect the isotopic composition (δD and $\delta^{18}O$) of meteoric water. Oxygen and hydrogen isotopes in precipitation from around the world show a consistent relationship with latitude and climatic conditions (Craig, 1961). This relationship results in a straight line represented by the following equation:

$$\delta D = 8 \cdot \delta^{18}O + 10$$

This line is referred to as the "meteoric water line". The $\delta^{18}O$ and δD values are generally preserved in meteoric water after it enters the soil zone and infiltrates to the shallow groundwater. Significant deviations from the meteoric line in groundwater generally are caused by physical and chemical processes which affect the isotopic composition of the water subsequent to infiltration. The conservative nature of $\delta^{18}O$ and δD allows these isotopes to be used in leakage or mixing studies between two reservoirs of water that are isotopically distinct.

B. Radioactive Isotopes (Carbon-14)

Radioactive isotopes have unstable nuclei and therefore tend to change into a different element through spontaneous decay involving the emission of particles

and energy. The rates of decay for the various radioactive isotopes differ widely, ranging from a fraction of a second to millions of years. The rate of decay of each radioactive isotope, reported as the "half-life", refers to the length of time it takes for the concentration of radioactive isotope to decrease by one-half (50 %). The radioactive isotope used in this investigation, carbon-14 (^{14}C) has a half-life of 5730 years.

Carbon-14 is a naturally occuring radioactive isotope of carbon which is formed in the upper atmosphere by cosmic rays interacting with nitrogen atoms. The ^{14}C produced is incorporated into carbon dioxide ($^{14}CO_2$) and rapidly dispersed throughout the atmosphere and hydrosphere. Carbon-14 is useful for dating materials up to a maximum age of 50,000 years, or approximately 9 half-lives. Radiocarbon ages, by convention, are reported as *radiocarbon years before present* (RCYR BP). In groundwater studies, ^{14}C concentrations are usually reported as *percent modern carbon* (PMC). The reference standard material is, by convention, defined as 100% modern and represents the "normal" ^{14}C content of the atmosphere, prior to the start of atmospheric thermonuclear testing. Samples of carbon with concentrations of ^{14}C above the normal atmospheric level will have ^{14}C values greater than 100 PMC.

Figure 2 shows how the ^{14}C content of the atmosphere increased due to thermonuclear testing. This is important for distinguishing gases from recent landfills since a significant amount of the organic material brought into landfills probably originated from plants that grew in the last 40 years. Such materials are expected to have elevated ^{14}C concentrations which would be observed in the ^{14}C content of CO_2 and CH_4 gas produced within the landfills.

Coleman et al. (1991) have shown that ^{14}C analyses of CH_4 are very useful for identifying landfill CH_4.

III. SITE LOCATION, METHODS AND SITE GEOLOGY

A. Site and Sample Location

The CWM-Chicago Incinerator site is located on the third pier from the south at Lake Calumet in southeastern Cook county, Illinois (figure 3). The eastern portion of the pier, from which the samples for this investigation were collected, is located in the NW¼ of section 24 of township 37N, range 14E. Figure 4 shows the location of sampling points on the pier and a general cross-section through the cluster of piezometers sampled.

B. Site Description and Geology

The area of Lake Calumet, excluding the many landfills that are now in the immediate vacinity, is a low-lying, topographically flat area. Prior to industrialization the lake was only approximately 6 to 10 feet deep and surrounded by marshes containing up to 2 feet of water (Ross et al., 1988). With the onset of industrialization much of the lake, surrounding wetlands and vacant land in the area were filled in with various solid waste materials (Ross et al, 1988). Today, the area around Lake Calumet is highly industrialized and is occupied by many large landfills covering hundreds of acres and rising several tens of feet above the surrounding topography (Cravens and Zahn, 1990).

In general the geology of the site consists of fill material overlying

lacustrine and glacial deposits which unconformably overlie Paleozoic bedrock (see cross-section in figure 4). The bedrock in the area is Silurian dolomite which is covered by an average of 75 feet of glacial deposits. The Silurian dolomite has a maximum thickness of approximately 450 feet in the Lake Calumet area. The top of the dolomite is jointed and fractured due to weathering prior to and during glaciation. The glacial deposits above the Silurian dolomite consist of the Lemont drift and Wadsworth Till members of the Wedron Formation, which were deposited approximately 16 to 14 thousand years ago during the Wisconsinan age (Johnson and Hansel, 1989). According to Cravens and Zahn (1990), the Wadsworth Till member and the Lemont drift have relatively low permeabilities and together act as an aquitard for the underlying Silurian dolomite which is the main aquifer in the area.

C. Methods

The gas samples for this investigation were collected from several temporary piezometers and a few permanent monitoring wells located on the front part of the pier (figure 3). The cross-section in figure 4 shows the sediment type (lacustrine or glacial till) in which the various piezometers were screened. A total of fifteen gas samples were initially collected. One well, C-2PI, has a positive gas pressure of approximately 8 to 9 psig which allowed the sample bag to be filled without pumping. The rest of the gas samples were initially collected with a hand held sqeeze aspirator used to pump the gases from the headspace of the wells into one liter sample bags. Gas chromatography analyses showed that many of these initial samples were significantly contaminated with air. Nine wells (those with the highest concentration of methane) were therfore

resampled using a diaphragm pump and 65-liter sample bags. During the resampling event, the tops of the wells were sealed with a rubber stopper and parafilm to minimize air contamination. Only the isotopic data from the second set of samples are reported here.

A few samples of water were collected from the three temporary piezometers of cluster C-6 using a 1-inch diameter stainless steel bailer which was cleaned with deionized water before sampling each well. Since the recharge rate is extremely slow for these wells, we were not able to completely purge one full well-volume before sampling. Therefore the top three quarters of the water in each well was bailed and the lower quarter was sampled for δD, $\delta^{18}O$ and $\delta^{13}C$ (of dissolved inorganic carbon) determination.

The chemical analyses of the gas samples were determined by gas chromatography. The samples were analyzed for nitrogen, oxygen+argon, carbon dioxide, methane and hydrocarbons up to C_5. The stable isotope analyses of the gases (CH_4 and CO_2) were determined by converting the particular element of interest (such as carbon or hydrogen) into a purified gas phase (CO_2 or H_2) and then measuring the isotopic composition on an isotope ratio mass spectrometer. The ^{14}C analyses were completed by converting the CH_4 in each gas sample to high-purity benzene for determination of ^{14}C activity by liquid scintillation spectrometry.

IV. RESULTS AND DISCUSSION

The chemical and isotopic data obtained from the gas samples taken from the subsurface sediments at the CWM-Chicago Incinerator site are shown in Tables 1 and 2. The ^{14}C activity data for five methane samples are shown in Table 3. For convenience the percentage of methane detected and the isotopic results ($\delta^{13}C$ and ^{14}C activity) are also shown on the cross-section in figure 4. The resulting stable isotope analyses for the CH_4 are plotted in figure 5 along with the isotopic domains typically defined for four different sources of CH_4: microbial CO_2-reduction, microbial fermentation, landfill gas, and thermogenic gas. As shown in figure 5, the CH_4 samples collected from CWM-Chicago Incinerator site do not fall within any of these four major domains. The stable and radioactive isotopic compositions of the samples and the isotopic composition of the local groundwater can explain these rather unusual results.

A. Assessment of $\delta^{13}C$ and δD of CH_4

The $\delta^{13}C$ values of the CH_4 sampled from the deep wells and the intermediate depth wells indicate that the source of the methane in these wells is microbial reduction of CO_2, typical of drift gas found in glacial till throughout the state of Illinois (Coleman et al. 1988). However, the δD of the CH_4 from these wells is very negative, approximately 30 to 50‰ more negative than values typically observed for microbial methane produced via CO_2 reduction (Schoell, 1980; Whiticar et al., 1986; Coleman et al., 1988). Usually, isotopically light δD values are associated with microbial methane produced via the fermentation pathway. However, since the $\delta^{13}C$ data clearly indicate the CH_4 is produced via

the CO_2-reduction pathway, the light δD values could be a consequence of the methane having been formed in the presence of isotopically light water. The source of hydrogen in methane produced by the microbial CO_2-reduction pathway is believed to be primarily from surrounding water (Schoell, 1980 and Whiticar et al., 1986). Therefore, if the δD of the water is unusually negative, the microbial CH_4 produced via CO_2-reduction will also have unusually negative δD values.

Three water samples were taken from the C-6 cluster of wells (C-6PS, C-6PI & C-6PD) and analyzed for their hydrogen and oxygen isotopic compositions (table 4). The hydrogen isotopic composition, (δD), of the shallow water (-40.5‰) is similar to that of present day precipitation which for the Chicago area averages approximately -46‰ (Graf et al., 1965). The hydrogen isotopic composition of the intermediate water (-52.8‰) is slightly lighter than the average meteoric water for Chicago but not so light as to explain the formation of light δD values observed for the methane samples. However, isotopic analysis of water from the the deepest well showed a significantly light hydrogen isotopic composition (-87.6‰) relative to that of recent meteoric water. In addition, water sampled from a well screened in the upper portion of the Silurian dolomite, approximately one and a half miles southeast of the Chicago Incinerator, had a δD value of -117‰, approximately 70‰ lighter than recent meteoric water for the Chicago area. The presence of such isotopically light water in the area supports the hypothesis that the light δD values in the methane are due to the formation of methane in the presence of isotopically light water.

The $\delta^{13}C$ values of the methane sampled from the shallow wells are more variable and tend to be more positive than the methane from the intermediate and deep zones (figure 5). The $\delta^{13}C$ values of the CH_4 from the shallow zone range from -76.4‰ (similar to the intermediate and deeper CH_4) to -63.6‰, nearly 20‰ heavier than the $\delta^{13}C$ values of intermediate and deeper samples of CH_4. The δD values of the methane from the shallow zones, however, remain quite negative, which indicates that the shift in $\delta^{13}C$ values is probably not due to oxidation. The effect of oxidizing methane, as shown in figure 5, would result in a significant change in both the $\delta^{13}C$ and the δD values of the residual methane.

The observed shift in $\delta^{13}C$ values for the methane from the shallow zone is probably due to mixing between the methane produced by microbial CO_2-reduction in the intermediate zone with another source of methane having a significantly different $\delta^{13}C$ value, but similar δD value. The other source of methane could be microbial methane produced by the fermentation pathway in the shallower sediments. The $\delta^{13}C$ for sample AE2968 is -63.6‰, close to $\delta^{13}C$ values normally observed for methane produced by microbial fermentation. Methane produced in landfills is also formed by the fermentation pathway and has stable isotope compositions very similar to methane formed by microbial fermentation of naturally buried (non-anthropogenic) organic matter. Therefore, ^{14}C analyses were completed on a few methane samples to help determine whether landfill gas has mixed with naturally occurring methane.

B. Assessment of ^{14}C Results

The ^{14}C results of the methane, shown in Table 3, correlate with the depth

from which the methane was sampled. The methane from the deepest zone has the least ^{14}C activity, corresponding to an age of approximately 33,100 RCYR BP. The methane from the intermediate zone has significantly greater ^{14}C activity corresponding to an average age of approximately 15,900 RCYR BP. The ^{14}C activity of two methane samples from the shallow zone have very different results, one (#AE2960) is 16 PMC (14,700 RCYR BP) while the other (#AE2968) is approximately 58 PMC (4,300 RCYR BP). The ^{14}C values indicate that the methane in the shallow zone is probably a mixture of younger microbial CH_4 produced by fermentation, and older microbial methane from the intermediate zone.

Isotopic mass balance calculations indicate that the isotopically heavy end member of the shallow CH_4 is probably not of landfill origin. The mass balance calculations were made based on: a) the stable isotopic composition of the intermediate CH_4 (-80.7‰), b) an average $\delta^{13}C$ value for microbial CH_4 produced via fermentation (-55‰) and c) the $\delta^{13}C$ values for CH_4 from AE2968 and AE2960. Using the following isotopic mass-balance equation:

$$(X)\,\delta^{13}C_{CH4\text{-}Intrmdt} + (1\text{-}X)\,\delta^{13}C_{CH4\text{-}Frmntn} = \delta^{13}C_{CH4\text{-}Mixture}$$

a mixture of 33% intermediate CH_4 with 67% shallow methane produced by fermentation was determined for AE2968 and a mixture of 82% intermediate CH_4 with 18% of the shallow end member was calculated for AE2960. Using these calculated mixing percentages along with the ^{14}C results, it is possible to calculate the ^{14}C activity we would expect to observe for AE2960 and AE2968 if the shallow end member CH_4 was landfill gas. If we use a conservative estimate of 130 PMC for the ^{14}C activity of the landfill gas end member (landfill gas typically ranges

from 125 to 150 PMC, Coleman et al., 1991) and 14 PMC for the intermediate CH_4 end member, ^{14}C activities of 35 PMC and 91 PMC are calculated for AE2960 and AE2968 respectively. These calculated ^{14}C activities are much higher than the values actually measured for these two samples. Even considering the large statistical error for AE2968 (±14 PMC), the calculated activity (91 PMC) is more than two standard deviations above the measured ^{14}C value for this sample. Thus, the isotopic mass balance calculations indicate that the CH_4 produced in the shallow zone most probably originates from microbial fermentation of naturally buried organic material and not from landfill gas.

C. Further Implications of Isotopic and Chemical Results of CH_4 and associated CO_2

A plot of the $\delta^{13}C$ values of the CH_4 and associated CO_2, figure 6, also indicates that the CH_4 produced in the shallow zone is most probably due to microbial fermentation of naturally buried organic material. This hypothesis is further supported by the GC data which show the very low concentrations of CH_4 and CO_2 in gas samples taken from other shallow wells located on the east side of the site nearer to the landfill area (G-307, G-334, and P323). Landfill gas usually has very high concentrations of both CH_4 and CO_2 and we would therefore expect to see increasing concentrations of CH_4 and CO_2 closer to the landfill if gases were migrating from the landfill into the pier area in the shallow stratigraphic zone.

D. Assessment of "biobeds" as a Source of the Subsurface CH_4

Significant concentrations of phenols, polynuclear aromatic hydrocarbons (PAH) and naphthalene have been found in the groundwater within the fill material above the lacustine deposits (Dames and Moore, personal communication). These types of organic compounds are similar to the major components of creosote, which is derived from coal tar (Goerlitz et al., 1985). Assuming the organic compounds associated with the "biobeds" were derived from coal and/or petroleum, the ^{14}C results indicate that these organic compounds probably are not a significant source material for the production of methane in the subsuface sediments at this site. Since coal and petroleum originate from deposits that are millions of years old, chemicals derived from coal or petroleum would not have any ^{14}C activity remaining in them today. If the hydrocarbons from the "biobeds" were the primary source of the CH_4 then we would expect to see a reversed ^{14}C pattern with depth, where the shallowest CH_4 closest to the "biobed" source should reflect the greatest contribution of the "biobed" hydrocarbons, and therefore would have the oldest radiocarbon age.

V. CONCLUSIONS

The isotopic composition of methane samples taken from the intermediate and deep piezometers which penetrate the lower lacustrine and glacial till sediments at the CWM-Chicago Incinerator site indicate that the primary source of CH_4 is from natural microbial reduction of CO_2 in the subsurface sediments. The ^{14}C data and the $\delta^{13}C$ data for the CH_4 and CO_2 indicate that the methane in the upper

lacustrine sediments (shallow zone) is probably a mixture of CH_4 produced in the deeper zones by the CO_2-reduction pathway and microbial CH_4 produced via the fermentation pathway in the shallow zone. The ^{14}C results, as well as the chemical composition of the gas samples from wells nearest the landfill, indicate that the CH_4 formed in the shallow zone probably originates from the bacterial fermentation of organic material which was naturally buried (non-anthropogenic) and does not appear to be related to gas generated from nearby landfills or from the organic waste material of the "biobeds" once located in the area.

The δD of the CH_4 from the intermediate and deeper zones in this area is unusually negative for microbial methane produced by the CO_2-reduction pathway. However, isotopic analyses of the deep water at the site and water sampled from the Silurian dolomite in the vicinity of Lake Calumet indicate that there is a source of isotopically light water which could account for the unusually negative δD values observed for the methane.

VI. ACKNOWLEDGEMENTS

The authors wish to thank Dennis Coleman for his technical input on early discussions of the isotopic data. Funding for this project was provided by Chemical Waste Management Incorporated and Dames and Moore.

VII. REFERENCES

Coleman, DD, Benson, LJ and Hutchenson, PJ; (1991) The use of isotopic analysis for identification of landfill gas in the subsurfac. GRCDA 13th Annual International Landfill Gas Symposium, Proceedings, Governmental Refuse Collection and Dioposal Association (GRCDA), March 1990, Lincolnshire, Ill..

Coleman, DD, Liu, CL, and Riley, KM; (1988) Microbial methane in the shallow paleozoic sediments and glacial deposits of Illinois, U.S.A.. *Chemical Geol.* 71:23-40.

Craig. H; (1961) Isotopic variations in meteoric waters. *Science*, 133:1702-1703.

Cravens, S. J. and A. L. Zahn (1990) Ground-water quality investigation and monitoring program design for the Lake Calumet area of southeast Chicago. Illinois State Water Survey, Hydrology Division, SWS Contract Report 496, 112 p..

Dames and Moore, consulting firm, Madison, Wisconsin.

Fritz P, and Fontes JCh; (1980) Handbook of Environmental Isotope Geochemistry. Volume 1 The Terrestrial Environment, A, Elsevier Scientific Publishing Co., Amsterdam - Oxford - New York.

Goerlitz, D. F., Troutman, D. E., Godsy, E. M. and Franks B. J. (1985) Migration of wook-preserving chemicals in contaminated groundwater in a sand aquifer at Pensacola, Florida. *Environmental Science and Technology*, 19:961-968.

Graf D. L., Friedman I., and Meents W. F., (1965) The origin of saline formation waters, II: Isotopic fractionation by shale micropore systems. Illinois State Geological Survey, Circular 393, 32p.

Hoefs J; (1980) Stable Isotope Geochemistry. Second Edition, Minerals and Rocks Series vol. 9, Springer-Verlag, Berlin, Heidelberg, New York.

Ross, P. E., Henebry, M. S., Risatti, J. B., Murphy T. J., Demissie, M., and Burnett L. C. (1988) An environmental profile of Lake Calumet; Chapter 1 *in* A Preliminary Environmental Assessment of the Contamination Associated with Lake Calumet Cook County, Illinois. Hazardous Waste Research and Information Center, IDENR; HWRIC RR-019.

Schoell, M; (1980) The hydrogen and carbon isotopic composition of methane from natural gases of various origin. *Geochim. Cosmochim. Acta* 44:649-661.

Shafer J. M., Wehrmann, H. A., Schulmeister, M. K., and Schock, S. C. (1988) A plan for the comprehensive evaluation of the occurrence, transport and fate of ground-water contmainants in the Lake Calumet area of southeast Chicago. Illinois State Water Survey, prepared for the Hazardous Waste Research and Information Center, HWRIC TN88-010.

Whiticar, MJ, Faber, E, and Schoell, M; (1986) Biogenic methane formation in marine and freshwater environments: CO_2 reduction vs. acetate formation - Isotope evidence. *Geochim. Cosmochim. Acta* 50:693-709.

Table 1. GC data of gas samples collected from temporary piezometers at WM-Chicago Incinerator.

Site #	Sample points	CO_2 %	CO_2+Ar %	N_2 %	CH_4 %	C_2H_6 %
AE2960	C2PS	0.03	17.66	69.83	12.40	0.08
63	C2RPS	0.88	20.44	76.88	1.79	0.02
59	C2PI	0.30	1.40	29.25	69.04	0.02
62	C2RPI	0.37	7.35	40.69	51.58	0.01
61	C2RPD	1.33	12.15	55.63	30.85	0.04
AE2968	C6PS	1.22	18.43	77.51	2.80	0.04
67	C6PI	0.40	4.73	38.25	56.56	0.01
66	C6PD	0.25	11.03	48.39	40.32	ND
AE2973	P323	0.02	22.12	77.82	0.04	ND
65	C3PI	0.19	17.73	68.81	13.27	ND
64	C3PD	0.03	21.98	77.94	0.04	
AE2969	G307	0.02	22.02	77.96	ND	ND
70	G314	0.06	21.60	78.22	0.11	ND
71	G334	0.03	21.97	77.99	0.01	ND
72	P322	0.02	21.91	77.94	0.13	ND

Table 2. Isotopic data of CH_4 from gas samples collected at WM-Chicago Incinerator.

Site #	Sample points	$\delta^{13}C_{CH_4}$ ‰	δD_{CH_4} ‰	$\delta^{13}C_{CO_2}$ ‰
AE2960	C2PS	-76.2	-289.2	NA
63	C2RPS	-73.3	-274.2	-13.4
59	C2PI	-82.4	-284.2	-12.0
62	C2RPI	-79.1	-286.8	-17.6
61	C2RPD	-79.2	-297.8	-20.8
AE2968	C6PS	-63.6	-272.4	-13.3
67	C6PI	-81.4	-280.0	-13.1
66	C6PD	-79.4	-299.2	NA
AE2973	P323	NA	NA	NA
65	C3PI	-79.7	-278.1	NA
64	C3PD	NA	NA	NA
AE2969	G307	NA	NA	NA
70	G314	NA	NA	NA
71	G334	NA	NA	NA
72	P322	NA	NA	NA

Table 3. Results of ^{14}C analysis of CH_4 in selected gas samples from site of Chicago Incinerator.

Site #	Sample points	$^{14}C_{CH_4}$	Radiocarbon years B.P.
AE2966	C6PD	1.63 ± 0.26 PMC	33,000 ±1400
68	C6PS	58.38 ± 13.47 PMC	4,300 ±2100
60	C2PS	16.00 ± 0.33 PMC	14,700 ±170
59	C2PI	13.61 ± 0.22 PMC	16,000 ±130
65	C3PI	14.34 ± 0.57 PMC	15,600 ±320

Table 4. Isotopic data of H_2O from cluster C-6.

Site #	Sample points	δD ‰	$\delta^{18}O$ ‰
AE2968	C6PS	-40.5	-5.9
67	C6PI	-52.8	-7.5
66	C6PD	-87.6	-12.2

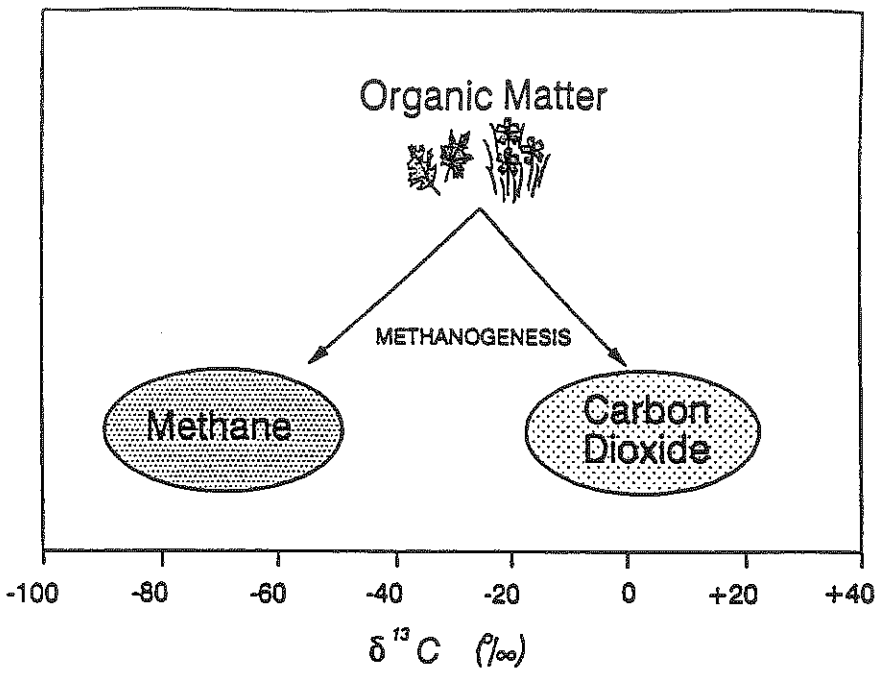


Figure 1. Schematic diagram showing the general carbon isotope effects produced by methanogensis.

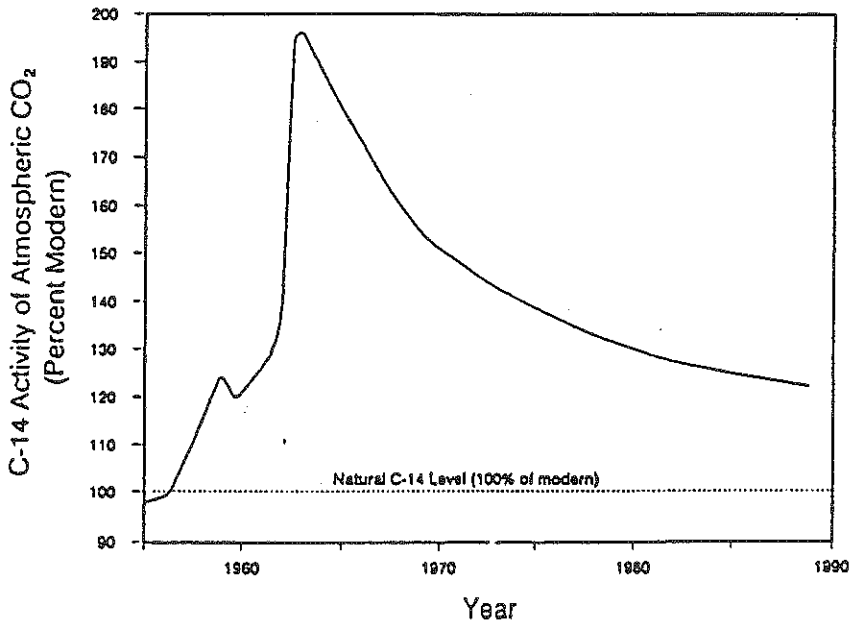


Figure 2. Carbon-14 concentration in atmospheric carbon dioxide (Coleman et al., 1991)

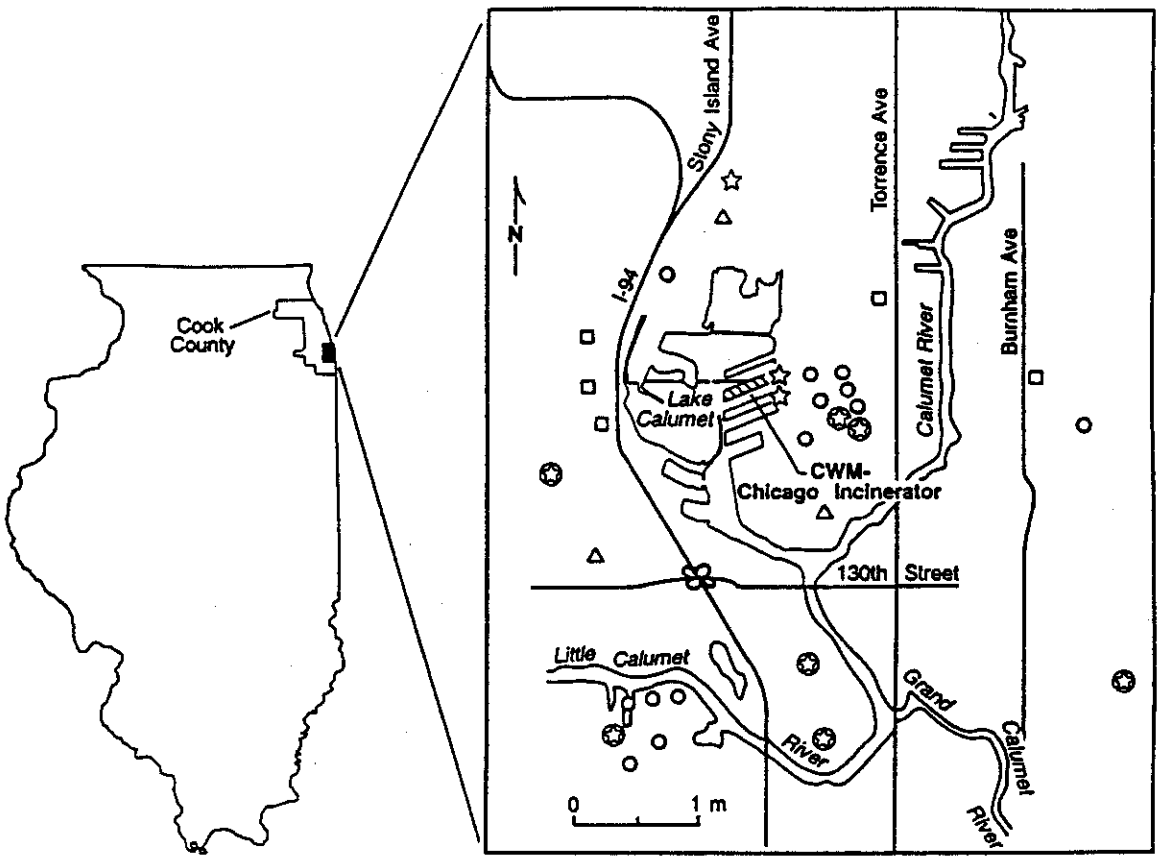


Figure 3. Site map showing location of CWM-Chicago Incinerator and types of waste handling facilities in the Lake Calumet area (modified from Shafer et al., 1988).

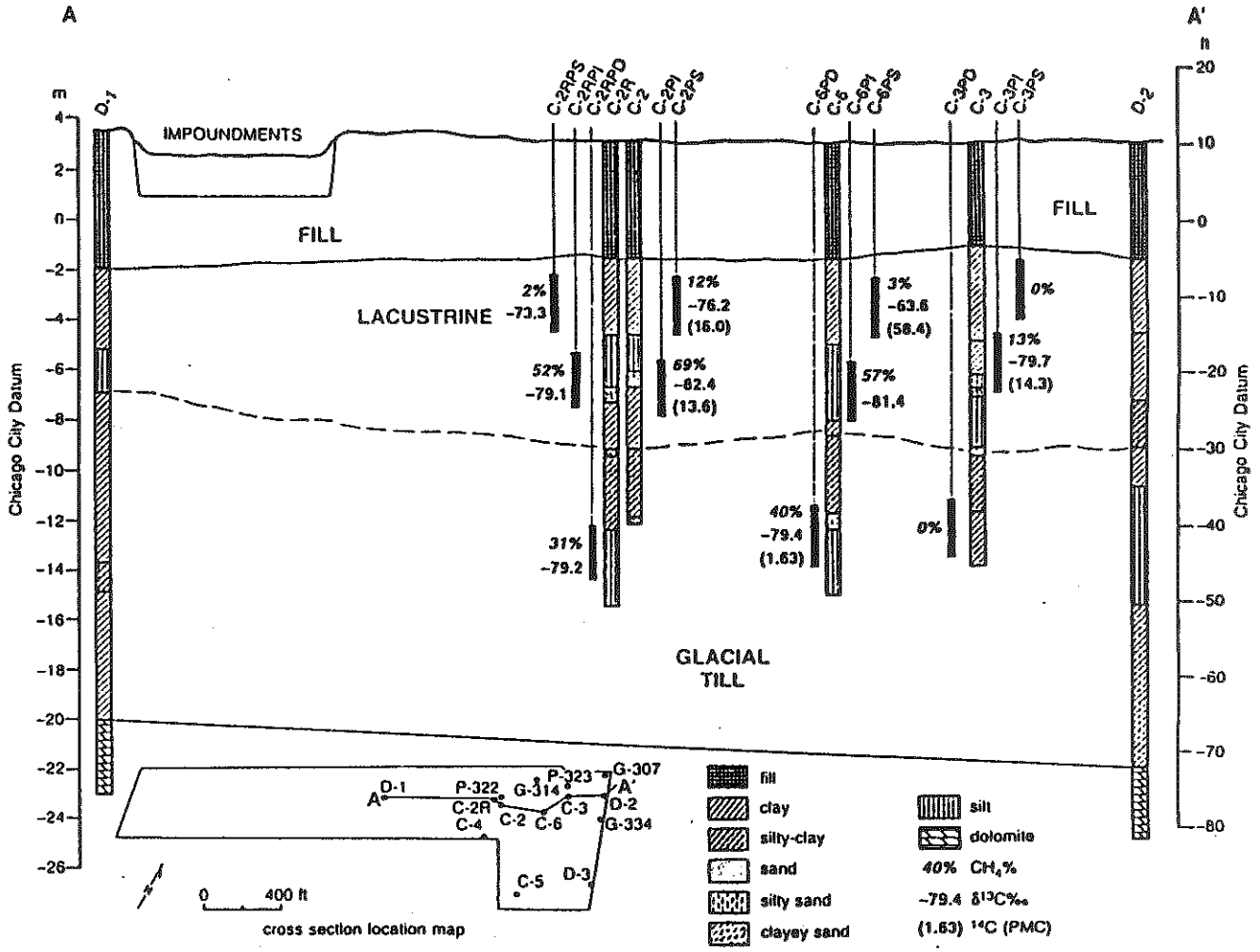


Figure 4. Geological cross-section of the east portion of the CWM-Chicago Incinerator site with insert showing location of sample points on the pier (modified from Dames and Moore, 1991, proj. No. 13963-052).

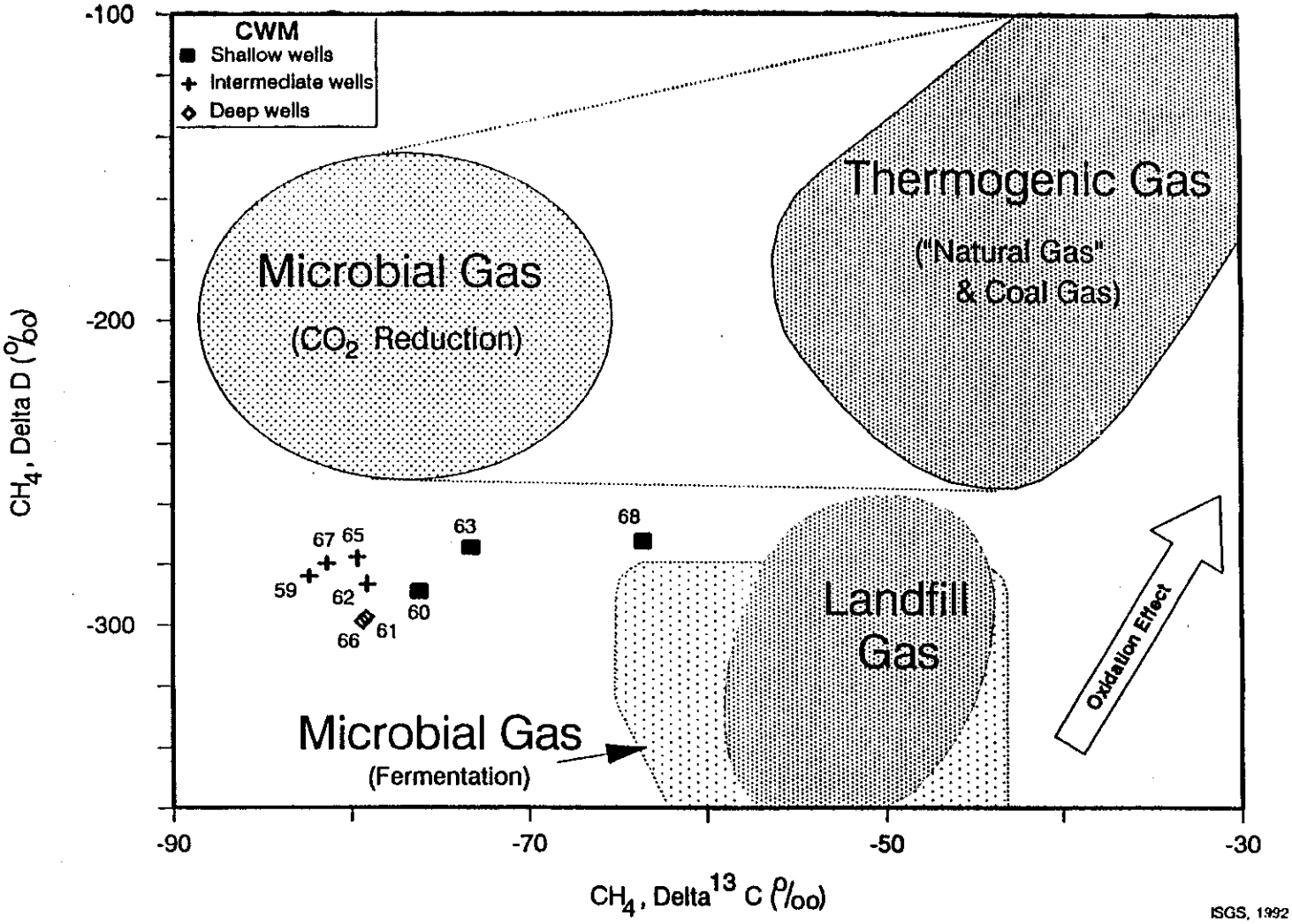


Figure 5. Carbon and hydrogen isotopic compositions of methane sampled from the subsurface sediments at the CWM-Chicago Incinerator site. The shaded areas are where methane from various sources typically plot (modified from Coleman et al, 1991).

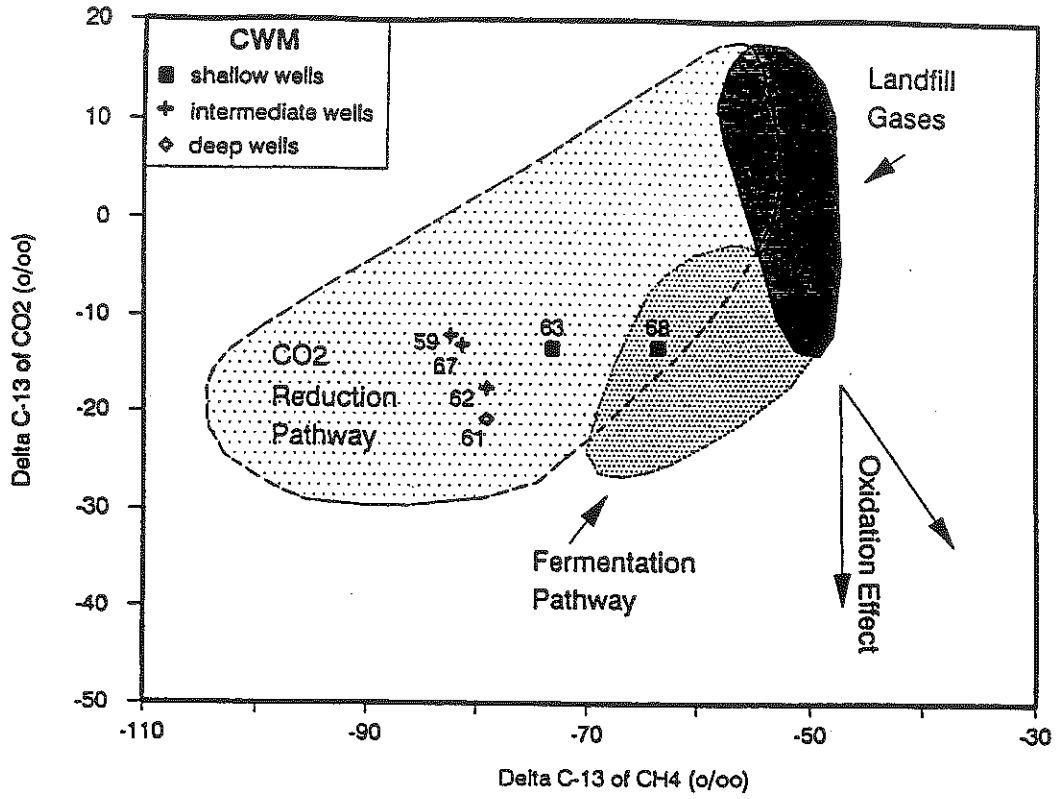


Figure 6. Carbon isotopic composition of methane and associated carbon dioxide from the CWM-Chicago Incinerator site. The common isotopic ranges for microbial methane from the two primary metabolic pathways (Whiticar et al., 1986) and for landfill gas (Coleman et al., 1991) are also shown.

K

Manufactured By EconoPrint, Inc., Madison, WI

Printed On Recycled Paper

APPENDIX K
LABORATORY REPORTS

The data presented in the following tables has been provided by ETC Laboratories. Each sample analyzed is presented, according to the various constituents as a member of their chemical group. The detection limit is noted by the "<" symbol.

PHASE II
GROUNDWATER SAMPLE RESULTS

- APPENDIX K -

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	Company	Facility	Sample Point	Date

Parameters	Units	Sample Points, Sampling Dates, and ETC Sample No.'s							
		X FG-10GW 911022 HA6528	X 911024TB 911024 HA6555	X FG-9GW 911029 HA6530	X 911031TB 911031 HA6587	X FG-1GW 911105 HA6531	X GWOUPUT 911105 HA6532	X FG-12GW 911106 HA6534	TB-RELOG 911106 HA6588
Priority Poll. Volatiles GC/MS									
Acrolein	ug/l	< 20	< 20	< 5000	< 20	< 100	< 100	< 20	< 20
Acrylonitrile	ug/l	< 10	< 10	< 3000	< 10	< 50	< 50	< 10	< 10
Benzene	ug/l	3.1	< 4	< 4400	< 4	64	72	122	< 4
Bromoform	ug/l	< 5	< 5	< 5000	< 5	< 100	< 100	< 10	< 5
Carbon tetrachloride	ug/l	< 3	< 3	< 3000	< 3	< 70	< 70	< 7	< 3
Chlorobenzene	ug/l	< 6	< 6	< 6000	< 6	< 200	< 200	21.0	< 6
Chlorodibromomethane	ug/l	< 3	< 3	< 3000	< 3	< 80	< 80	< 8	< 3
Chloroethane	ug/l	< 10	< 10	<10000	< 10	< 300	< 300	< 30	< 10
Chloroform	ug/l	< 2	< 2	< 2000	< 2	< 40	< 40	< 4	< 2
Dichlorobromomethane	ug/l	< 2	< 2	< 2000	< 2	< 50	< 50	< 6	< 2
Dichlorodifluoromethane	ug/l	< 10	< 10	<10000	< 10	< 300	< 300	< 30	< 10
1,1-Dichloroethane	ug/l	< 5	< 5	< 5000	< 5	273	379	< 10	< 5
1,2-Dichloroethane	ug/l	< 3	< 3	< 3000	< 3	< 70	< 70	58.2	< 3
1,1-Dichloroethylene	ug/l	1.4	< 3	46900	< 3	2450	3260	< 7	< 3
1,2-Dichloropropane	ug/l	< 6	< 6	< 6000	< 6	< 200	< 200	< 20	< 6
cis-1,3-Dichloropropylene	ug/l	< 5	< 5	< 5000	< 5	< 100	< 100	< 10	< 5
Ethylbenzene	ug/l	< 7	< 7	< 7000	< 7	< 200	< 200	134	< 7
Methyl bromide	ug/l	< 10	< 10	<10000	< 10	< 300	< 300	< 30	< 10
Methyl chloride	ug/l	< 10	< 10	<10000	< 10	< 300	< 300	< 30	< 10
Methylene chloride	ug/l	< 3	< 3	199000	< 3	1280	1540	27.3	< 3
1,1,2,2-Tetrachloroethane	ug/l	< 7	< 7	< 7000	< 7	< 200	< 200	< 20	< 7
Tetrachloroethylene	ug/l	< 4	< 4	< 4000	< 4	< 100	< 100	< 10	< 4
Toluene	ug/l	3.4	< 6	< 6000	< 6	< 200	62	479	< 6
1,2-Trans-dichloroethylene	ug/l	< 2	< 2	< 2000	< 2	< 40	< 40	< 4	< 2
1,1,1-Trichloroethane	ug/l	< 4	< 4	< 4000	< 4	< 100	< 100	< 10	< 4
1,1,2-Trichloroethane	ug/l	< 5	< 5	134000	< 5	< 100	< 100	< 10	< 5
Trichloroethylene	ug/l	< 2	< 2	1200	< 2	< 50	< 50	< 5	< 2
Trichlorofluoromethane	ug/l	< 10	< 10	<10000	< 10	< 300	< 300	< 30	< 10
Vinyl chloride	ug/l	< 10	< 10	7700	< 10	445	591	< 30	< 10
trans-1,3-Dichloropropylene	ug/l	< 10	< 10	<10000	< 10	< 300	< 300	< 30	< 10

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	Units	X FG-10GW 911022 HA6528	X 911024TB 911024 HA6555	X FG-9GW 911029 HA6530	X 911031TB 911031 HA6587	X FG-1GW 911105 HA6531	X GWDUP01 911105 HA6532	X FG-12GW 911106 HA6534	TB-RELUG 911106 HA6588
Sample Points, Sampling Dates, and ETC Sample No.'s									
Priority Poll. Acids GC/MS									
2-Chlorophenol	ug/l	< 6	-	< 100	-	40.8	33.2	247	-
2,4-Dichlorophenol	ug/l	6.27	-	8820	-	193	205	1160	-
2,4-Dimethylphenol	ug/l	< 5	-	< 93.1	-	21.3	24.1	41.2	-
4,6-Dinitro-o-cresol	ug/l	< 50	-	< 800	-	< 20	< 20	< 300	-
2,4-Dinitrophenol	ug/l	< 80	-	< 1000	-	< 40	< 42.9	< 500	-
2-Nitrophenol	ug/l	< 7	-	< 100	-	< 3.64	< 3.67	< 50	-
4-Nitrophenol	ug/l	< 5	-	< 80	-	< 2	< 2	< 30	-
p-Chloro-m-cresol	ug/l	< 6	-	< 100	-	< 3	< 3	< 40	-
Pentachlorophenol	ug/l	< 7	-	< 100	-	< 4	< 4	< 50	-
Phenol	ug/l	56.1	-	10100	-	868	861	5120	-
2,4,6-Trichlorophenol	ug/l	< 5	-	79	-	4.02	4.27	44.4	-
Priority Poll. B/Ns GC/MS									
Acenaphthene	ug/l	< 4	-	< 70	-	2.23	2.55	< 20	-
Acenaphthylene	ug/l	< 7	-	< 100	-	< 4	< 4	< 40	-
Anthracene	ug/l	< 4	-	< 70	-	< 1.92	< 1.94	< 20	-
Benzo(a)anthracene	ug/l	< 20	-	< 300	-	< 8	< 8	< 100	-
Benzo(a)pyrene	ug/l	< 5	-	< 90	-	< 3	< 3	< 30	-
Benzo(b)fluoranthene	ug/l	< 9	-	< 200	-	< 5	< 5	< 60	-
Benzo(ghi)perylene	ug/l	< 8	-	< 100	-	< 4	< 4	< 50	-
Benzo(k)fluoranthene	ug/l	< 5	-	< 90	-	< 3	< 3	< 30	-
bis(2-Chloroethoxy)methane	ug/l	< 10	-	< 200	-	< 5.35	< 5.41	< 70	-
bis(2-Chloroethyl) ether	ug/l	< 10	-	< 200	-	< 5.76	< 6	< 70	-
bis(2-Chloroisopropyl)ether	ug/l	< 10	-	< 200	-	< 5.76	< 5.82	< 70	-
bis(2-Ethylhexyl)phthalate	ug/l	< 20	-	< 300	-	< 10.1	< 10	< 100	-
4-Bromophenyl phenyl ether	ug/l	< 4	-	< 70	-	< 2	< 2	< 20	-
Butyl benzyl phthalate	ug/l	< 20	-	< 300	-	< 10	< 10	< 100	-
2-Chloronaphthalene	ug/l	< 4	-	< 70	-	< 1.92	< 1.94	< 20	-
4-Chlorophenyl phenyl ether	ug/l	< 8	-	< 100	-	< 4	< 4	< 50	-
Chrysene	ug/l	< 5	-	< 90	-	< 3	< 3	< 30	-
Dibenzo(a,h)anthracene	ug/l	< 5	-	< 90	-	< 3	< 3	< 30	-
1,2-Dichlorobenzene	ug/l	< 4	-	< 70	-	< 2	< 2	< 20	-
1,3-Dichlorobenzene	ug/l	< 4	-	< 70	-	< 2	< 2	< 20	-

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below (*ETC Sample No.*) | WASTE MANAGEMENT, INC. (*Company*) | 705 (*Facility*) | See Below (*Sample Point*, *Date*)

Parameters	Units	X FG-10GW 911022 HA6528	X 911024TB 911024 HA6555	X FG-9GW 911029 HA6530	X 911031TB 911031 HA6587	X FG-1GW 911105 HA6531	X GWDUP01 911105 HA6532	X FG-12GW 911106 HA6534	TB-RELOG 911106 HA6588
1,4-Dichlorobenzene	ug/l	< 8	-	< 200	-	< 4	< 4	< 60	-
3,3'-Dichlorobenzidine	ug/l	< 30	-	< 600	-	< 20	< 20	< 200	-
Diethyl phthalate	ug/l	< 20	-	< 300	-	< 10	< 10	< 100	-
Dimethyl phthalate	ug/l	< 20	-	< 300	-	< 10	< 10	< 100	-
Di-n-butyl phthalate	ug/l	< 20	-	< 300	-	< 10	< 10	< 100	-
2,4-Dinitrotoluene	ug/l	< 10	-	< 200	-	< 6	< 5.82	< 70	-
2,6-Dinitrotoluene	ug/l	< 4	-	< 70	-	< 2	< 2	< 20	-
Di-n-octyl phthalate	ug/l	< 20	-	< 300	-	< 10	< 10	< 100	-
Fluoranthene	ug/l	< 4	-	< 80	-	1.6	1.8	< 30	-
Fluorene	ug/l	< 4	-	< 70	-	2.18	2.57	< 20	-
Hexachlorobenzene	ug/l	< 4	-	< 70	-	< 2	< 2	< 20	-
Hexachlorobutadiene	ug/l	< 2	-	< 30	-	< .9	< .9	< 10	-
Hexachlorocyclopentadiene	ug/l	< 20	-	< 300	-	< 10	< 10	< 100	-
Hexachloroethane	ug/l	< 3	-	< 60	-	< 2	< 2	< 20	-
Indeno(1,2,3-c,d)pyrene	ug/l	< 7	-	< 100	-	< 4	< 4	< 50	-
Isophorone	ug/l	< 4	-	< 75.9	-	< 2.22	< 2.24	< 30	-
Naphthalene	ug/l	3.25	-	< 55.2	-	22.4	29.8	41.8	-
Nitrobenzene	ug/l	< 4	-	1000	-	< 1.92	< 1.94	< 20	-
N-Nitrosodimethylamine	ug/l	< 20	-	< 345	-	< 10.1	< 10.2	< 100	-
N-Nitrosodi-n-propylamine	ug/l	< 20	-	< 300	-	< 10.1	< 10.2	< 100	-
N-Nitrosodiphenylamine	ug/l	< 4	-	< 70	-	< 2	< 2	< 20	-
Phenanthrene	ug/l	< 10	-	< 200	-	4.3	4.3	< 70	-
Pyrene	ug/l	< 4	-	< 70	-	1.4	1.6	< 20	-
1,2,4-Trichlorobenzene	ug/l	< 4	-	< 70	-	< 2	< 1.94	< 20	-
Metals Analysis Data									
Antimony	ug/l	16	-	< 60	-	< 60	< 60	< 60	-
Arsenic	ug/l	3.4	-	6.6	-	9.2	8.6	31	-
Barium	ug/l	270	-	82	-	49	49	180	-
Beryllium	ug/l	.53	-	.42	-	< 1.0	< 1.0	.84	-
Cadmium	ug/l	< 2.0	-	< 2.0	-	< 2.0	< 2.0	< 2.0	-
Chromium	ug/l	2.9	-	< 10	-	3.9	4.8	8.1	-
Cobalt	ug/l	< 20	-	< 20	-	< 20	< 20	< 20	-
Copper	ug/l	8.7	-	6.8	-	< 10	2.2	9.7	-
Lead	ug/l	3.4	-	1.7	-	< 5.0	< 5.0	< 5.0	-
Mercury	ug/l	< .20	-	.18	-	< .20	< .20	< .20	-

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below				See Below	
ETC Sample No.	*Company*		*Facility*	*Sample Point*	*Date*
	WASTE MANAGEMENT, INC.		705		

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		X FG-10GW 911022 HA6528	X 911024TB 911024 HA6555	X FG-9GW 911029 HA6530	X 911031TB 911031 HA6587	X FG-1GW 911105 HA6531	X GWDUPUT 911105 HA6532	X FG-12GW 911106 HA6534	TB-RELUG 911106 HA6588
Nickel	ug/l	110	-	92	-	13	15	51	-
Selenium	ug/l	4.1	-	8.0	-	4.4	4.9	19	-
Silver	ug/l	2.2	-	< 10	-	< 10	< 10	2.3	-
Thallium	ug/l	< 10	-	< 10	-	< 10	< 10	< 10	-
Tin	ug/l	160	-	< 50	-	< 50	< 50	26	-
Vanadium	ug/l	< 20	-	< 20	-	16	16	54	-
Zinc	ug/l	14	-	11	-	13	9.0	4.0	-
Field Parameters									
pH (Field)	std	8.16	-	10.01	-	11.46	-	11.25	-
pH (Field)	std	-	-	10.01	-	11.49	-	11.28	-
pH (Field)	std	-	-	10.01	-	11.49	-	11.29	-
pH (Field)	std	-	-	10.00	-	11.50	-	11.30	-
Specific Conductance (Field)	um/cm	5400	-	6930	-	3280	-	5370	-
Specific Conductance (Field)	um/cm	-	-	6910	-	3290	-	5320	-
Specific Conductance (Field)	um/cm	-	-	6920	-	3320	-	5310	-
Specific Conductance (Field)	um/cm	-	-	6920	-	3290	-	5360	-
Temperature	Deg. C	-	-	11.6	-	13.0	-	16.8	-
Sample Depth	Feet	10	-	9	-	9	-	9	-
Miscellaneous Parameters									
1,1,1,2-Tetrachloroethane	ug/l	< 10	< 10	<10000	< 10	< 300	< 300	< 30	< 10
1,2,3-Trichloropropane	ug/l	< 10	< 10	<10000	< 10	< 300	< 300	< 30	< 10
1,2,4,5-Tetrachlorobenzene	ug/l	< 20	-	< 300	-	< 10	< 10	< 100	-
1,2-Dibromo-3-chloropropane	ug/l	< 10	< 10	<10000	< 10	< 300	< 300	< 30	< 10
1,2-Dibromoethane	ug/l	< 10	< 10	<10000	< 10	< 300	< 300	< 30	< 10
1,4-Dichloro-2-butene	ug/l	< 10	< 10	<10000	< 10	< 300	< 300	< 25.0	< 10
1,4-Dioxane	ug/l	< 300	< 300	<80000	< 300	89	< 2000	< 300	< 300
1,4-Naphthoquinone	ug/l	< 20	-	< 300	-	< 10	< 10	< 100	-
1-Naphthylamine	ug/l	< 20	-	< 300	-	< 10	< 10	< 100	-
2,3,4,6-Tetrachlorophenol	ug/l	< 20	-	< 300	-	< 10	< 10	< 100	-
2,4,5-Trichlorophenol	ug/l	< 20	-	< 345	-	< 10.1	< 10.2	< 100	-
2,6-Dichlorophenol	ug/l	6.5	-	1460	-	57.5	58.8	250	-
2-Acetylaminofluorene	ug/l	< 20	-	< 300	-	< 10	< 10.2	< 100	-
2-Chloro-1,3-butadiene	ug/l	ND	ND	ND	ND	ND	ND	ND	ND

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below				See Below	
ETC Sample No.	*Company*	*Facility*		*Sample Point*	*Date*
	WASTE MANAGEMENT, INC.	705			

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		X FG-10GW 911022 HA6528	X 911024TB 911024 HA6555	X FG-9GW 911029 HA6530	X 911031TB 911031 HA6587	X FG-1GW 911105 HA6531	X GWDUP01 911105 HA6532	X FG-12GW 911106 HA6534	TB-RELOG 911106 HA6588
2-Hexanone	ug/l	< 10	< 10	<10000	< 10	< 300	< 300	< 30	< 10
2-Methylnaphthalene	ug/l	< 20	-	< 300	-	7.7	6.9	< 100	-
2-Naphthylamine	ug/l	< 20	-	< 300	-	< 10	< 10	< 100	-
2-Picoline	ug/l	< 20	-	< 300	-	< 10	< 10	< 100	-
2-sec-Butyl-4,6-dinitrophenol	ug/l	< 20	-	< 300	-	< 10	< 10	< 100	-
3,3'-Dimethylbenzidine	ug/l	< 20	-	< 300	-	< 10	< 10	< 100	-
3-Methylcholanthrene	ug/l	< 10	-	< 200	-	< 6	< 6	< 70	-
3-chloropropene	ug/l	< 10	< 10	<10000	< 10	< 300	< 300	< 30	< 10
4-Aminobiphenyl	ug/l	< 20	-	< 300	-	< 10	< 10	< 100	-
4-Nitroquinoline-N-oxide	ug/l	IND	-	IND	-	IND	IND	IND	-
5-Nitro-o-toluidine	ug/l	< 20	-	< 300	-	< 10	< 10	< 100	-
7,12-Dimethylbenzo(a)anthracen	ug/l	< 20	-	< 300	-	< 10	< 10	< 100	-
Acetone	ug/l	18.4	< 10	<10000	< 10	1500	1890	499	< 10
Acetonitrile	ug/l	< 20	< 20	14800	< 20	902	785	15.6	< 20
Acetophenone	ug/l	< 20	-	< 345	-	< 10.1	< 10	< 100	-
Aniline	ug/l	< 20	-	5130	-	194	225	418	-
Aramite	ug/l	< 20	-	< 300	-	< 10	< 10	< 100	-
Benzyl alcohol	ug/l	< 20	-	< 345	-	< 10	< 10	< 100	-
Carbon disulfide	ug/l	< 10	< 10	<10000	< 10	< 300	< 300	< 30	< 10
Diallate	ug/l	< 20	-	< 300	-	< 10	< 10	< 100	-
Dibenzofuran	ug/l	< 20	-	< 300	-	1.3	1.7	< 100	-
Dibromomethane	ug/l	< 10	< 10	<10000	< 10	< 300	< 300	< 30	< 10
Diphenylamine	ug/l	< 20	-	< 300	-	< 10	< 10	< 100	-
Ending Sample Depth	Feet	11	-	10	-	12	-	11	-
Ethyl cyanide	ug/l	< 40	< 40	<10000	< 40	< 200	< 200	< 40	< 40
Ethyl methacrylate	ug/l	< 10	< 10	<10000	< 10	< 300	< 300	< 30	< 10
Ethyl methanesulfonate	ug/l	< 20	-	< 300	-	< 10	< 10	< 100	-
Hexachlorophene	ug/l	< 20	-	< 300	-	< 10	< 10	< 100	-
Hexachloropropene	ug/l	< 20	-	< 300	-	< 10	< 10	< 100	-
Iodomethane	ug/l	< 10	< 10	<10000	< 10	< 300	< 300	< 30	< 10
Isobutyl alcohol	ug/l	< 230	< 230	<60000	< 230	< 1150	< 1150	< 200	< 200
Isodrin	ug/l	< 10	-	< 200	-	< 6	< 6	< 80	-
Isosafrole	ug/l	< 20	-	< 300	-	< 10	< 10	< 100	-
Methacrylonitrile	ug/l	< 100	< 100	<30000	< 100	< 550	< 600	< 100	< 100
Methapyrilene	ug/l	IND	-	IND	-	IND	IND	IND	-
Methyl ethyl ketone	ug/l	< 10	< 10	<10000	< 10	< 300	< 300	< 30	< 10
Methyl methacrylate	ug/l	< 10	< 10	<10000	< 10	< 300	< 300	< 30	< 10

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below — *ETC Sample No.* | WASTE MANAGEMENT, INC. — *Company* | 705 — *Facility* | See Below — *Sample Point* | *Date*

Parameters	Units	X FG-10GW 911022 HA6528	X 911024TB 911024 HA6555	X FG-9GW 911029 HA6530	X 911031TB 911031 HA6587	X FG-1GW 911105 HA6531	X GWDUP01 911105 HA6532	X FG-12GW 911106 HA6534	TB-RELUG 911106 HA6588
Methyl methanesulfonate	ug/l	< 20	-	< 300	-	< 10	< 10	< 100	-
Methyl-iso-butyl ketone	ug/l	< 10	< 10	<10000	< 10	< 250	< 300	582	< 10
N-Nitrosodi-n-butylamine	ug/l	< 20	-	< 300	-	< 10	< 10.2	< 100	-
N-Nitrosodiethylamine	ug/l	< 20	-	< 300	-	< 10	< 10	< 100	-
N-Nitrosomethylethylamine	ug/l	< 20	-	< 345	-	< 10.1	< 10.2	< 100	-
N-Nitrosomorpholine	ug/l	< 20	-	< 300	-	< 10	< 10.2	< 100	-
N-Nitrosopiperidine	ug/l	< 20	-	< 300	-	< 10.1	< 10.2	< 100	-
N-Nitrosopyrrolidine	ug/l	< 20	-	< 300	-	< 10	< 10.2	< 100	-
Pentachlorobenzene	ug/l	< 20	-	< 300	-	< 10	< 10	< 100	-
Pentachloroethane	ug/l	ND	ND	ND	ND	ND	ND	ND	ND
Pentachloronitrobenzene	ug/l	< 20	-	< 300	-	< 10	< 10	< 100	-
Phenacetin	ug/l	< 20	-	< 300	-	< 10	< 10	< 100	-
Pronamide	ug/l	< 20	-	< 300	-	< 10	< 10	< 100	-
Pyridine	ug/l	< 20	-	8450	-	365	368	< 100	-
Safrole	ug/l	< 20	-	< 300	-	< 10	< 10	< 100	-
Styrene	ug/l	< 10	< 10	<10000	< 10	< 300	< 300	< 30	< 10
Tetraethyldithiopyrophosphate	ug/l	ND	-	ND	-	ND	ND	ND	-
Vinyl acetate	ug/l	< 10	< 10	<10000	< 10	< 300	< 300	< 30	< 10
m+p-Cresols	ug/l	6.1	-	1160	-	248	260	543	-
m-Dinitrobenzene	ug/l	< 20	-	< 300	-	< 10	< 10	< 100	-
m-Nitroaniline	ug/l	< 20	-	< 300	-	< 10	< 10	< 100	-
m-Xylene	ug/l	< 10	< 10	<10000	< 10	< 300	< 300	341	< 10
m-phenylenediamine	ug/l	< 20	-	< 345	-	< 10.1	< 10.2	< 100	-
o+p-Xylenes	ug/l	< 10	< 10	<10000	< 10	< 300	< 300	402	< 10
o-Cresol	ug/l	< 20	-	< 345	-	4.8	5.7	70	-
o-Nitroaniline	ug/l	< 20	-	< 300	-	< 10	< 10	< 100	-
o-Toluidine	ug/l	< 20	-	< 345	-	< 10	< 10	82	-
o-phenylenediamine	ug/l	< 20	-	< 300	-	< 10.1	< 10.2	< 100	-
p-Chloroaniline	ug/l	< 20	-	13900	-	103	125	1800	-
p-Dimethylaminoazobenzene	ug/l	< 20	-	< 300	-	< 10	< 10	< 100	-
p-Nitroaniline	ug/l	< 20	-	< 300	-	< 10	< 10	< 100	-
p-phenylenediamine	ug/l	< 20	-	< 345	-	< 10.1	< 10.2	< 100	-
sym-Trinitrobenzene	ug/l	IND	-	IND	-	IND	IND	IND	-

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

DATE: 10/14/93
PAGE: 8

Chain of Custody Data Required for ETC Data Management Summary Report

See Below — *ETC Sample No.* | WASTE MANAGEMENT, INC. — *Company* | 705 — *Facility* | See Below — *Sample Point* | *Date*

Parameters	*Units*	X FG-2GW 911106 HA6533	X 911111TB 911106 HA6589	X SWDUP01 911108 HA6697	L SW-14 911108 HA6698	L SW-13 911108 HA6699	L SW-11 911108 HA6701	L SW-8 911108 HA6702	L SW-12 911108 HA6704
Sample Points, Sampling Dates, and ETC Sample No.'s									
Priority Poll. Volatiles GC/MS									
Acrolein	ug/l	< 20	< 20	-	-	-	-	-	-
Acrylonitrile	ug/l	< 10	< 10	-	-	-	-	-	-
Benzene	ug/l	10.1	< 4	< 4	< 4	< 4	< 4	< 4	< 4
Bromoform	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Carbon tetrachloride	ug/l	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Chlorobenzene	ug/l	1.6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Chlorodibromomethane	ug/l	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Chloroethane	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Chloroethylvinyl ether	ug/l	-	-	< 10	< 10	< 10	< 10	< 10	< 10
Chloroform	ug/l	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Dichlorobromomethane	ug/l	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Dichlorodifluoromethane	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
1,1-Dichloroethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1,2-Dichloroethane	ug/l	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
1,1-Dichloroethylene	ug/l	55.8	< 3	< 3	< 3	< 3	< 3	< 3	< 3
1,2-Dichloropropane	ug/l	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
cis-1,3-Dichloropropylene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Ethylbenzene	ug/l	< 7	< 7	< 7	< 7	< 7	< 7	< 7	< 7
Methyl bromide	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methyl chloride	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	1.8	< 10
Methylene chloride	ug/l	248	2.3	2.7	< 2.80	2.3	2.5	2.2	< 2.80
1,1,2,2-Tetrachloroethane	ug/l	< 7	< 7	< 7	< 7	< 7	< 7	< 7	< 7
Tetrachloroethylene	ug/l	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
Toluene	ug/l	3.1	< 6	< 6.00	4.1	< 6	1.3	< 6	< 6
1,2-Trans-dichloroethylene	ug/l	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,1,1-Trichloroethane	ug/l	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
1,1,2-Trichloroethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Trichloroethylene	ug/l	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Trichlorofluoromethane	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Vinyl chloride	ug/l	26.1	< 10	< 10	< 10	< 10	< 10	< 10	< 10
trans-1,3-Dichloropropylene	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below — ETC Sample No. | WASTE MANAGEMENT, INC. — Company | 705 — Facility | See Below — Sample Point | See Below — Date

Parameters	Units	X FG-2GW 911106 HA6533	X 911111TB 911106 HA6589	X SWDUP01 911108 HA6697	L SW-14 911108 HA6698	L SW-13 911108 HA6699	L SW-11 911108 HA6701	L SW-8 911108 HA6702	L SW-12 911108 HA6704
Priority Poll. Acids GC/MS									
2-Chlorophenol	ug/l	< 5	-	< 3	< 3	< 3	< 3	< 3	< 3
2,4-Dichlorophenol	ug/l	73.9	-	< 3	< 3	< 3	< 3	< 3	< 3
2,4-Dimethylphenol	ug/l	< 4	-	< 3	< 3	< 3	< 3	< 3	< 3
4,6-Dinitro-o-cresol	ug/l	< 30	-	< 20	< 20	< 20	< 20	< 20	< 20
2,4-Dinitrophenol	ug/l	< 60	-	< 40	< 40	< 40	< 40	< 40	< 40
2-Nitrophenol	ug/l	< 5	-	< 4	< 4	< 4	< 4	< 4	< 4
4-Nitrophenol	ug/l	< 3	-	< 2	< 2	< 2	< 2	< 2	< 2
p-Chloro-m-cresol	ug/l	< 4	-	< 3	< 3	< 3	< 3	< 3	< 3
Pentachlorophenol	ug/l	< 5	-	< 4	< 4	< 4	< 4	< 4	< 4
Phenol	ug/l	126	-	< 2	< 2	< 2	< 2	< 2	< 2
2,4,6-Trichlorophenol	ug/l	< 4	-	< 3	< 3	< 3	< 3	< 3	< 3
Priority Poll. B/Ns GC/MS									
Acenaphthene	ug/l	4.44	-	< 2	< 2	< 2	< 2	< 2	< 2
Acenaphthylene	ug/l	< 5	-	< 4	< 4	< 4	< 4	< 4	< 4
Anthracene	ug/l	3.07	-	< 2	< 2	< 2	< 2	< 2	< 2
Benzo(a)anthracene	ug/l	8.0	-	< 8	< 8	< 8	< 8	< 8	< 8
Benzo(a)pyrene	ug/l	< 4	-	< 3	< 3	< 3	< 3	< 3	< 3
Benzo(b)fluoranthene	ug/l	11.1	-	< 5	< 5	< 5	< 5	< 5	< 5
Benzo(ghi)perylene	ug/l	< 6	-	< 4	< 4	< 4	< 4	< 4	< 4
Benzo(k)fluoranthene	ug/l	< 4	-	< 3	< 3	< 3	< 3	< 3	< 3
bis(2-Chloroethoxy)methane	ug/l	< 8	-	< 5	< 5	< 5	< 5	< 5	< 5
bis(2-Chloroethyl) ether	ug/l	< 8	-	< 6	< 6	< 6	< 6	< 6	< 6
bis(2-Chloroisopropyl)ether	ug/l	< 8	-	< 6	< 6	< 6	< 6	< 6	< 6
bis(2-Ethylhexyl)phthalate	ug/l	< 10	-	< 10	< 10	< 10	< 10	< 10	< 10
4-Bromophenyl phenyl ether	ug/l	< 3	-	< 2	< 2	< 2	< 2	< 2	< 2
Butyl benzyl phthalate	ug/l	< 10	-	< 10	< 10	< 10	< 10	< 10	< 10
2-Chloronaphthalene	ug/l	< 3	-	< 2	< 2	< 2	< 2	< 2	< 2
4-Chlorophenyl phenyl ether	ug/l	< 6	-	< 4	< 4	< 4	< 4	< 4	< 4
Chrysene	ug/l	9.19	-	< 3	< 3	< 3	< 3	< 3	< 3
Dibenzo(a,h)anthracene	ug/l	< 4	-	< 3	< 3	< 3	< 3	< 3	< 3
1,2-Dichlorobenzene	ug/l	< 3	-	< 2	< 2	< 2	< 2	< 2	< 2
1,3-Dichlorobenzene	ug/l	< 3	-	< 2	< 2	< 2	< 2	< 2	< 2

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below				See Below	
ETC Sample No.	WASTE MANAGEMENT, INC. *Company*	705 *Facility*		*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		X FG-2GW 911106 HA6533	X 911111TB 911106 HA6589	X SWDUP01 911108 HA6697	L SW-14 911108 HA6698	L SW-13 911108 HA6699	L SW-11 911108 HA6701	L SW-8 911108 HA6702	L SW-12 911108 HA6704
1,4-Dichlorobenzene	ug/l	< 6	-	< 4	< 4	< 4	< 4	< 4	< 4
3,3'-Dichlorobenzidine	ug/l	< 20	-	< 20	< 20	< 20	< 20	< 20	< 20
Diethyl phthalate	ug/l	< 10	-	< 10	< 10	< 10	< 10	< 10	< 10
Dimethyl phthalate	ug/l	< 10	-	< 10	< 10	< 10	< 10	< 10	< 10
Di-n-butyl phthalate	ug/l	< 10	-	< 10	< 10	< 10	< 10	< 10	< 10
2,4-Dinitrotoluene	ug/l	< 8	-	< 6	< 6	< 6	< 6	< 6	< 6
2,6-Dinitrotoluene	ug/l	< 3	-	< 2	< 2	< 2	< 2	< 2	< 2
Di-n-octyl phthalate	ug/l	< 10	-	< 10	< 10	< 10	< 10	< 10	< 10
Fluoranthene	ug/l	15.3	-	< 2	< 2	< 2	< 2	< 2	< 2
Fluorene	ug/l	4.83	-	< 2	< 2	< 2	< 1.94	< 2	< 1.90
Hexachlorobenzene	ug/l	< 3	-	< 2	< 2	< 2	< 2	< 2	< 2
Hexachlorobutadiene	ug/l	< 1	-	< .9	< .9	< .9	< .9	< .9	< .9
Hexachlorocyclopentadiene	ug/l	< 10	-	< 10	< 10	< 10	< 10	< 10	< 10
Hexachloroethane	ug/l	< 2	-	< 2	< 2	< 2	< 2	< 2	< 2
Indeno(1,2,3-c,d)pyrene	ug/l	< 5	-	< 4	< 4	< 4	< 4	< 4	< 4
Isophorone	ug/l	< 3	-	< 2	< 2	< 2	< 2	< 2	< 2
Naphthalene	ug/l	25.6	-	< 2	< 1.62	< 2	< 2	< 1.62	< 2
Nitrobenzene	ug/l	< 3	-	< 2	< 2	< 2	< 2	< 2	< 2
N-Nitrosodimethylamine	ug/l	< 10	-	< 10	< 10	< 10	< 10	< 10	< 10
N-Nitrosodi-n-propylamine	ug/l	< 10	-	< 10.2	< 10.1	< 10.1	< 10.2	< 10.1	< 10.0
N-Nitrosodiphenylamine	ug/l	< 3	-	< 2	< 2	< 2	< 2	< 2	< 2
Phenanthrene	ug/l	24.6	-	< 6	< 5	< 5	< 6	< 5	< 5
Pyrene	ug/l	11.9	-	< 2	< 2	< 2	< 2	< 2	< 2
1,2,4-Trichlorobenzene	ug/l	< 3	-	< 2	< 2	< 2	< 2	< 2	< 2
Metals Analysis Data									
Antimony	ug/l	< 60	-	< 60	< 60	< 60	< 60	< 60	< 60
Arsenic	ug/l	11	-	< 10	< 10	< 10	< 10	< 10	< 10
Barium	ug/l	92	-	-	-	-	-	-	-
Beryllium	ug/l	.53	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cadmium	ug/l	< 3.0	-	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
Chromium	ug/l	< 10	-	< 10	< 10	< 10	< 10	< 10	< 10
Cobalt	ug/l	< 20	-	-	-	-	-	-	-
Copper	ug/l	11	-	< 10	< 10	< 10	< 10	< 10	< 10
Lead	ug/l	< 5.0	-	< 75	< 75	< 75	< 75	< 75	< 75
Mercury	ug/l	< .20	-	< .20	< .20	< .20	< .20	< .20	< .20

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below — *ETC Sample No.* | WASTE MANAGEMENT, INC. — *Company* | 705 — *Facility* | See Below — *Sample Point* | *Date*

Parameters	Units	X FG-2GW 911106 HA6533	X 91111118 911106 HA6589	X SWOUP01 911108 HA6697	L SW-14 911108 HA6698	L SW-13 911108 HA6699	L SW-11 911108 HA6701	L SW-8 911108 HA6702	L SW-12 911108 HA6704
Nickel	ug/l	33	-	< 20	< 20	< 20	< 20	< 20	< 20
Selenium	ug/l	5.0	-	< 5.0	1.9	< 5.0	1.9	< 5.0	1.2
Silver	ug/l	< 10	-	< 10	< 10	< 10	< 10	< 10	< 10
Thallium	ug/l	< 10	-	< 10	< 10	< 10	< 10	< 10	< 10
Tin	ug/l	43	-	-	-	-	-	-	-
Vanadium	ug/l	9.9	-	-	-	-	-	-	-
Zinc	ug/l	< 20	-	< 20	< 20	< 20	< 20	< 20	< 20
Field Parameters									
pH (Field)	std	9.61	-	-	7.91	7.80	8.11	7.88	7.65
pH (Field)	std	-	-	-	7.83	7.82	8.14	8.00	7.53
pH (Field)	std	-	-	-	7.87	7.86	8.15	8.01	7.59
pH (Field)	std	-	-	-	-	7.89	8.16	8.03	7.62
Specific Conductance (Field)	um/cm	4880	-	-	544	549	545	545	535
Specific Conductance (Field)	um/cm	4950	-	-	537	543	538	538	539
Specific Conductance (Field)	um/cm	4900	-	-	539	539	532	542	-
Specific Conductance (Field)	um/cm	4910	-	-	540	538	534	537	-
Groundwater Elevation	Feet	-	-	-	-	-	-	-	-
Temperature	Deg. C	12.7	-	-	1.8	2.1	2.0	2.1	2.3
Well Depth	Feet	-	-	-	-	-	-	-	-
Sample Depth	Feet	9	-	-	-	-	-	-	-
Well Elevation	Feet	-	-	-	-	-	-	-	-
Stick-Up	Feet	-	-	-	-	-	-	-	-
Miscellaneous Parameters									
1,1,1,2-Tetrachloroethane	ug/l	< 10	< 10	-	-	-	-	-	-
1,2,3-Trichloropropane	ug/l	< 10	< 10	-	-	-	-	-	-
1,2,4,5-Tetrachlorobenzene	ug/l	< 10	-	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane	ug/l	< 10	< 10	-	-	-	-	-	-
1,2-Dibromoethane	ug/l	< 10	< 10	-	-	-	-	-	-
1,4-Dichloro-2-butene	ug/l	< 10	< 10	-	-	-	-	-	-
1,4-Dioxane	ug/l	301	< 300	-	-	-	-	-	-
1,4-Naphthoquinone	ug/l	< 10	-	-	-	-	-	-	-
1-Naphthylamine	ug/l	< 10	-	-	-	-	-	-	-
2,3,4,6-Tetrachlorophenol	ug/l	< 10	-	-	-	-	-	-	-

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected "-"=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	Units	Sample Points, Sampling Dates, and ETC Sample No.'s							
		X FG-2GW 911106 HA6533	X 911111TB 911106 HA6589	X SWDUP01 911108 HA6697	L SW-14 911108 HA6698	L SW-13 911108 HA6699	L SW-11 911108 HA6701	L SW-6 911108 HA6702	L SW-12 911108 HA6704
2,4,5-Trichlorophenol	ug/l	< 10	-	-	-	-	-	-	-
2,6-Dichlorophenol	ug/l	18.8	-	-	-	-	-	-	-
2-Acetylaminofluorene	ug/l	< 10	-	-	-	-	-	-	-
2-Chloro-1,3-butadiene	ug/l	ND	ND	-	-	-	-	-	-
2-Hexanone	ug/l	< 10	< 10	-	-	-	-	-	-
2-Methylnaphthalene	ug/l	11	-	-	-	-	-	-	-
2-Naphthylamine	ug/l	< 10	-	-	-	-	-	-	-
2-Picoline	ug/l	< 10	-	-	-	-	-	-	-
2-sec-Butyl-4,6-dinitrophenol	ug/l	< 10	-	-	-	-	-	-	-
3,3'-Dimethylbenzidine	ug/l	< 10	-	-	-	-	-	-	-
3-Methylcholanthrene	ug/l	< 8	-	-	-	-	-	-	-
3-chloropropene	ug/l	< 10	< 10	-	-	-	-	-	-
4-Aminobiphenyl	ug/l	< 10	-	-	-	-	-	-	-
4-Nitroquinoline-N-oxide	ug/l	IND	-	-	-	-	-	-	-
5-Nitro-o-toluidine	ug/l	< 10	-	-	-	-	-	-	-
7,12-Dimethylbenzo(a)anthracen	ug/l	< 10	-	-	-	-	-	-	-
Acetone	ug/l	91.0	< 10	-	-	-	-	-	-
Acetonitrile	ug/l	219	< 20	-	-	-	-	-	-
Acetophenone	ug/l	5.2	-	-	-	-	-	-	-
Aniline	ug/l	< 10	-	-	-	-	-	-	-
Aramite	ug/l	< 10	-	-	-	-	-	-	-
Benzyl alcohol	ug/l	< 10	-	-	-	-	-	-	-
Carbon disulfide	ug/l	< 10	< 10	-	-	-	-	-	-
Depth to Groundwater	Feet	-	-	-	-	-	-	-	-
Diallate	ug/l	< 10	-	-	-	-	-	-	-
Dibenzofuran	ug/l	3.5	-	-	-	-	-	-	-
Dibromomethane	ug/l	< 10	< 10	-	-	-	-	-	-
Diphenylamine	ug/l	< 10	-	-	-	-	-	-	-
Ending Sample Depth	Feet	11.5	-	-	-	-	-	-	-
Ethyl cyanide	ug/l	< 40	< 40	-	-	-	-	-	-
Ethyl methacrylate	ug/l	< 10	< 10	-	-	-	-	-	-
Ethyl methanesulfonate	ug/l	< 10	-	-	-	-	-	-	-
Hexachlorophene	ug/l	< 10	-	-	-	-	-	-	-
Hexachloropropene	ug/l	< 10	-	-	-	-	-	-	-
Iodomethane	ug/l	< 10	< 10	-	-	-	-	-	-
Isobutyl alcohol	ug/l	< 230	< 200	-	-	-	-	-	-
Isodrin	ug/l	< 8	-	-	-	-	-	-	-

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	Units	Sample Points, Sampling Dates, and ETC Sample No.'s							
		X FG-2GW 911106 HA6533	X 911111TB 911106 HA6589	X SWDUP01 911108 HA6697	L SW-14 911108 HA6698	L SW-13 911108 HA6699	L SW-11 911108 HA6701	L SW-8 911108 HA6702	L SW-12 911108 HA6704
Isosafrole	ug/l	< 10	-	-	-	-	-	-	-
Methacrylonitrile	ug/l	< 100	< 100	-	-	-	-	-	-
Methapyrilene	ug/l	IND	-	-	-	-	-	-	-
Methyl ethyl ketone	ug/l	< 10	< 10	-	-	-	-	-	-
Methyl methacrylate	ug/l	< 10	< 10	-	-	-	-	-	-
Methyl methanesulfonate	ug/l	< 10	-	-	-	-	-	-	-
Methyl-iso-butyl ketone	ug/l	< 10	< 10	-	-	-	-	-	-
N-Nitrosodi-n-butylamine	ug/l	< 10	-	-	-	-	-	-	-
N-Nitrosodiethylamine	ug/l	< 10	-	-	-	-	-	-	-
N-Nitrosomethylethylamine	ug/l	< 10	-	-	-	-	-	-	-
N-Nitrosomorpholine	ug/l	< 10	-	-	-	-	-	-	-
N-Nitrosopiperidine	ug/l	< 10	-	-	-	-	-	-	-
N-Nitrosopyrrolidine	ug/l	< 10	-	-	-	-	-	-	-
Pentachlorobenzene	ug/l	< 10	-	-	-	-	-	-	-
Pentachloroethane	ug/l	ND	ND	-	-	-	-	-	-
Pentachloronitrobenzene	ug/l	< 10	-	-	-	-	-	-	-
Phenacetin	ug/l	< 10	-	-	-	-	-	-	-
Pronamide	ug/l	< 10	-	-	-	-	-	-	-
Pyridine	ug/l	< 10	-	-	-	-	-	-	-
Safrole	ug/l	< 10	-	-	-	-	-	-	-
Styrene	ug/l	< 10	< 10	-	-	-	-	-	-
Tetraethyldithiopyrophosphate	ug/l	ND	-	-	-	-	-	-	-
Unable to Sample	CODE	-	-	-	-	-	-	-	-
Vinyl acetate	ug/l	< 10	< 10	-	-	-	-	-	-
m+p-Cresols	ug/l	< 10	-	-	-	-	-	-	-
m-Dinitrobenzene	ug/l	< 10	-	-	-	-	-	-	-
m-Nitroaniline	ug/l	< 10	-	-	-	-	-	-	-
m-Xylene	ug/l	< 10	< 10	-	-	-	-	-	-
m-phenylenediamine	ug/l	< 10	-	-	-	-	-	-	-
o+p-Xylenes	ug/l	< 10	< 10	-	-	-	-	-	-
o-Cresol	ug/l	< 10	-	-	-	-	-	-	-
o-Nitroaniline	ug/l	< 10	-	-	-	-	-	-	-
o-Toluidine	ug/l	< 10	-	-	-	-	-	-	-
o-phenylenediamine	ug/l	< 10	-	-	-	-	-	-	-
p-Chloroaniline	ug/l	< 10	-	-	-	-	-	-	-
p-Dimethylaminoazobenzene	ug/l	< 10	-	-	-	-	-	-	-
p-Nitroaniline	ug/l	< 10	-	-	-	-	-	-	-

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below *ETC Sample No.* | WASTE MANAGEMENT, INC. *Company* | 705 *Facility* | See Below *Sample Point* *Date*

Parameters	Units	Sample Points, Sampling Dates, and ETC Sample No.'s							
		X FG-2GW 911106 HA6533	X 911111TB 911106 HA6589	X SWDUP01 911108 HA6697	L SW-14 911108 HA6698	L SW-13 911108 HA6699	L SW-11 911108 HA6701	L SW-8 911108 HA6702	L SW-12 911108 HA6704
p-phenylenediamine	ug/l	< 10	-	-	-	-	-	-	-
sym-Trinitrobenzene	ug/l	IND	-	-	-	-	-	-	-

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below ETC Sample No.	WASTE MANAGEMENT, INC. Company	705 Facility	See Below Sample Point	Date

Parameters	Units	Sample Points, Sampling Dates, and ETC Sample No.'s							
		L SW-6 911108 HA6705	TB-RELOG 911108 HA6708	X FG-7GW 911111 HA6536	X FG-8GW 911112 HA6537	X FG-5GW 911112 HA6538	X GWFB01 911112 HA6583	X 911112TB 911112 HA6590	X FG-3GW 911112 HA6535
Priority Poll. Volatiles GC/MS									
Acrolein	ug/l	-	-	<10000	< 20.0	<10000	< 20	< 20	< 20
Acrylonitrile	ug/l	-	-	< 5000	< 10	< 5000	< 10	< 10	< 10
Benzene	ug/l	-	< 4	2430	< 2000	4260	< 4	< 4	< 4
Bromoform	ug/l	-	< 5	< 2000	< 2000	< 500	< 5	< 5	< 5
Carbon tetrachloride	ug/l	-	< 3	< 1000	< 1000	< 300	< 3	< 3	< 3
Chlorobenzene	ug/l	-	< 6	< 3000	< 3000	963	< 6	< 6	< 6
Chlorodibromomethane	ug/l	-	< 3	< 2000	< 2000	< 300	< 3	< 3	< 3
Chloroethane	ug/l	-	< 10	< 5000	< 5000	< 1000	< 10	< 10	< 10
2-Chloroethylvinyl ether	ug/l	-	< 10	-	-	-	-	-	-
Chloroform	ug/l	-	< 2	< 800	< 800	< 200	< 2	< 2	< 2
Dichlorobromomethane	ug/l	-	< 2	< 1000	< 1000	< 200	< 2	< 2	< 2
Dichlorodifluoromethane	ug/l	-	< 10	< 5000	< 5000	< 1000	< 10	< 10	< 10
1,1-Dichloroethane	ug/l	-	< 5	< 2000	< 2000	< 500	< 5	< 5	13.0
1,2-Dichloroethane	ug/l	-	< 3	< 1000	< 1000	< 300	< 3	< 3	< 3
1,1-Dichloroethylene	ug/l	-	< 3	74300	< 1000	52300	< 3	< 3	< 3
1,2-Dichloropropane	ug/l	-	< 6	< 3000	< 3000	< 600	< 6	< 6	< 6
cis-1,3-Dichloropropylene	ug/l	-	< 5	< 3000	< 3000	< 500	< 5	< 5	< 5
Ethylbenzene	ug/l	-	< 7	< 4000	< 4000	160	< 7	< 7	< 7
Methyl bromide	ug/l	-	< 10	< 5000	< 5000	< 1000	< 10	< 10	< 10
Methyl chloride	ug/l	-	< 10	< 5000	< 5000	< 1000	< 10	< 10	< 10
Methylene chloride	ug/l	-	< 3	651000	1480	15000	5.05	3.34	< 3
1,1,2,2-Tetrachloroethane	ug/l	-	< 7	< 3000	< 3000	< 700	< 7	< 7	< 7
Tetrachloroethylene	ug/l	-	< 4	< 2000	< 2000	< 410	< 4	< 4	< 4
Toluene	ug/l	-	< 6	< 3000	< 3000	5570	< 6	< 6	< 6
1,2-Trans-dichloroethylene	ug/l	-	< 2	< 800	< 800	218	< 2	< 2	< 2
1,1,1-Trichloroethane	ug/l	-	< 4	< 2000	< 2000	< 400	< 4	< 4	< 4
1,1,2-Trichloroethane	ug/l	-	< 5	< 3000	< 3000	1800	< 5	< 5	< 5
Trichloroethylene	ug/l	-	< 2	< 1000	< 1000	284	< 2	< 2	< 2
Trichlorofluoromethane	ug/l	-	< 10	< 5000	< 5000	< 1000	3.4	< 10	< 10
Vinyl chloride	ug/l	-	< 10	6050	< 5000	1410	< 10	< 10	< 10
trans-1,3-Dichloropropylene	ug/l	-	< 10	< 5000	< 5000	< 1000	< 10	< 10	< 10

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		L SW-6 911108 HA6705	TB-RELUG 911108 HA6708	X FG-7GW 911111 HA6536	X FG-8GW 911112 HA6537	X FG-5GW 911112 HA6538	X GWFB01 911112 HA6583	X 911112TB 911112 HA6590	X FG-3GW 911112 HA6535
Priority Poll. Acids GC/MS									
2-Chlorophenol	ug/l	< 3	-	< 90	39.3	469	< 4	-	583
2,4-Dichlorophenol	ug/l	< 3	-	< 70	< 4	3430	< 3	-	2000
2,4-Dimethylphenol	ug/l	< 3	-	< 70	5.96	57.0	< 3	-	< 5
4,6-Dinitro-o-cresol	ug/l	< 20	-	< 600	< 30	< 30	< 30	-	< 40
2,4-Dinitrophenol	ug/l	< 40	-	< 1000	< 60	< 60	< 50	-	< 70
2-Nitrophenol	ug/l	< 4	-	< 100	< 5	< 5	< 4	-	< 6
4-Nitrophenol	ug/l	< 2	-	< 60	< 3	< 3	< 3	-	< 4
p-Chloro-m-cresol	ug/l	< 3	-	< 80	< 4	< 4	< 3	-	< 5
Pentachlorophenol	ug/l	< 4	-	< 100	< 5	260	< 4	-	25.4
Phenol	ug/l	< 2	-	19900	668	7510	< 2	-	5490
2,4,6-Trichlorophenol	ug/l	< 3	-	< 70	< 4	62.7	< 3	-	< 5
Priority Poll. B/Ns GC/MS									
Acenaphthene	ug/l	< 2	-	< 50	5.08	< 3	< 2	-	8.82
Acenaphthylene	ug/l	< 4	-	< 90	< 5	< 5	< 4	-	< 6
Anthracene	ug/l	< 2	-	< 50	< 3	< 3	< 2	-	17.4
Benzo(a)anthracene	ug/l	< 8	-	< 200	< 10	< 10	< 9	-	17.6
Benzo(a)pyrene	ug/l	< 3	-	< 70	< 3	< 4	< 3	-	15.0
Benzo(b)fluoranthene	ug/l	< 5	-	< 100	< 6	< 7	< 6	-	18.9
Benzo(ghi)perylene	ug/l	< 4	-	< 100	< 5	< 6	< 5	-	10.4
Benzo(k)fluoranthene	ug/l	< 3	-	< 70	< 3	< 4	< 3	-	< 4
bis(2-Chloroethoxy)methane	ug/l	< 5	-	< 100	< 7	< 8	< 6	-	< 9
bis(2-Chloroethyl) ether	ug/l	< 6	-	< 200	< 8	< 8	< 7	-	< 10
bis(2-Chloroisopropyl)ether	ug/l	< 6	-	< 200	< 8	< 8	< 7	-	< 10
bis(2-Ethylhexyl)phthalate	ug/l	< 10	-	< 300	38.0	< 10	< 10	-	< 20
4-Bromophenyl phenyl ether	ug/l	< 2	-	< 50	< 3	< 3	< 2	-	< 3
Butyl benzyl phthalate	ug/l	< 10	-	< 300	< 10	< 10	< 10	-	< 20
2-Chloronaphthalene	ug/l	< 2	-	< 50	< 3	< 3	< 2	-	< 3
4-Chlorophenyl phenyl ether	ug/l	< 4	-	< 100	< 6	< 6	< 5	-	< 7
Chrysene	ug/l	< 3	-	< 70	< 3	< 4	< 3	-	17.1
Dibenzo(a,h)anthracene	ug/l	< 3	-	< 70	< 3	< 4	< 3	-	< 4
1,2-Dichlorobenzene	ug/l	< 2	-	< 50	< 3	< 3	< 2	-	< 3
1,3-Dichlorobenzene	ug/l	< 2	-	< 50	< 3	< 3	< 2	-	< 3

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

DATE: 10/14/93
PAGE: 17

Chain of Custody Data Required for ETC Data Management Summary Report

See Below — *ETC Sample No.* | WASTE MANAGEMENT, INC. — *Company* | 705 — *Facility* | See Below — *Sample Point* | *Date*

Parameters	Units	SW-6 911108 HA6705	TB-RELOG 911108 HA6708	FG-7GW 911111 HA6536	FG-8GW 911112 HA6537	FG-5GW 911112 HA6538	GWFB01 911112 HA6583	911112TB 911112 HA6590	FG-3GW 911112 HA6535
1,4-Dichlorobenzene	ug/l	< 5	-	< 100	< 6	< 6	< 5	-	< 7
3,3'-Dichlorobenzidine	ug/l	< 20	-	< 400	< 20	< 20	< 20	-	< 30
Diethyl phthalate	ug/l	< 10	-	< 300	< 10	< 10	< 10	-	< 20
Dimethyl phthalate	ug/l	< 10	-	< 300	< 10	< 10	< 10	-	< 20
Di-n-butyl phthalate	ug/l	< 10	-	< 300	< 10	3.4	< 10	-	< 20
2,4-Dinitrotoluene	ug/l	< 6	-	< 200	< 8	< 8	< 7	-	< 10
2,6-Dinitrotoluene	ug/l	< 2	-	< 50	< 3	< 3	< 2	-	< 3
Di-n-octyl phthalate	ug/l	< 10	-	< 300	< 10	< 10	< 10	-	< 20
Fluoranthene	ug/l	< 2	-	< 60	2.5	< 3	< 3	-	55.3
Fluorene	ug/l	< 2	-	< 50	1.4	< 3	< 2	-	9.80
Hexachlorobenzene	ug/l	< 2	-	< 50	< 3	< 3	< 2	-	< 3
Hexachlorobutadiene	ug/l	< .9	-	< 20	< 1	< 1	< 1	-	< 2
Hexachlorocyclopentadiene	ug/l	< 10	-	< 300	< 10	< 10	< 10	-	< 20
Hexachloroethane	ug/l	< 2	-	< 40	< 2	< 2	< 2	-	< 3
Indeno(1,2,3-c,d)pyrene	ug/l	< 4	-	< 100	< 5	< 5	< 4	-	11.3
Isophorone	ug/l	< 2	-	< 60	< 3	< 3	< 3	-	< 4
Naphthalene	ug/l	< 2	-	112	9.92	< 2	< 2	-	66.2
Nitrobenzene	ug/l	< 2	-	< 50	< 3	< 3	< 2	-	< 3
N-Nitrosodimethylamine	ug/l	< 10	-	< 300	< 10	< 10	< 10	-	< 20
N-Nitrosodi-n-propylamine	ug/l	< 10	-	< 300	< 10	< 10	< 10	-	< 20
N-Nitrosodiphenylamine	ug/l	< 2	-	< 50	< 3	< 3	< 2	-	< 3
Phenanthrene	ug/l	< 6	-	< 100	2.9	< 8	< 6	-	61.7
Pyrene	ug/l	< 2	-	< 50	2.55	< 3	< 2	-	59.8
1,2,4-Trichlorobenzene	ug/l	< 2	-	< 50	< 3	< 3	< 2	-	< 3
Metals Analysis Data									
Antimony	ug/l	< 60	-	< 60	< 60	< 60	< 60	-	120
Arsenic	ug/l	< 10	-	43	43	46	< 10	-	620
Barium	ug/l	-	-	390	92	77	< 20	-	970
Beryllium	ug/l	< 1.0	-	1.4	< 1.0	.38	< 1.0	-	.45
Cadmium	ug/l	< 3.0	-	< 3.0	< 3.0	< 3.0	< 3.0	-	< 3.0
Chromium	ug/l	< 10	-	5.3	< 10	12	< 10	-	3.2
Cobalt	ug/l	-	-	< 20	< 20	< 20	< 20	-	< 20
Copper	ug/l	< 10	-	22	< 10	9.8	< 10	-	11
Lead	ug/l	< 75	-	1.1	1.3	< 5.0	< 5.0	-	6.3
Mercury	ug/l	< .20	-	< .20	< .20	< .20	< .20	-	< .20

Footnotes: &MDL=Below Method Detection Limit ND=Parameter not detected "-"=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below				See Below	
ETC Sample No.	WASTE MANAGEMENT, INC.	*Company*	705 *Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		L SW-6 911108 HA6705	TB-RELOG 911108 HA6708	X FG-7GW 911111 HA6536	X FG-8GW 911112 HA6537	X FG-5GW 911112 HA6538	X GWFB01 911112 HA6583	X 91111218 911112 HA6590	X FG-3GW 911112 HA6535
Nickel	ug/l	< 20	-	56	55	92	< 20	-	220
Selenium	ug/l	2.5	-	18	2.8	29	< 5.0	-	12
Silver	ug/l	< 10	-	2.9	< 10	< 10	< 10	-	< 10
Thallium	ug/l	< 10	-	< 10	< 10	< 10	< 10	-	< 10
Tin	ug/l	-	-	60	23	< 50	< 50	-	89
Vanadium	ug/l	-	-	27	32	200	< 20	-	< 20
Zinc	ug/l	< 20	-	< 20	8.1	< 20	< 20	-	4.5
Field Parameters									
pH (Field)	std	7.81	-	10.52	9.70	11.15	6.47	-	7.48
pH (Field)	std	-	-	10.54	9.71	11.17	6.46	-	7.45
pH (Field)	std	-	-	10.54	9.71	11.18	6.47	-	7.44
pH (Field)	std	-	-	10.54	9.73	11.17	6.48	-	7.44
Specific Conductance (Field)	um/cm	550	-	14000	2980	4300	9.72	-	5820
Specific Conductance (Field)	um/cm	542	-	13800	2970	4320	9.75	-	5800
Specific Conductance (Field)	um/cm	532	-	13600	2990	4380	9.67	-	5870
Specific Conductance (Field)	um/cm	536	-	13900	2980	4390	9.70	-	5760
Groundwater Elevation	Feet	-	-	-	-	-	-	-	-
Temperature	Deg. C	1.9	-	15.1	14.0	15.2	6.9	-	16.0
Well Depth	Feet	-	-	-	-	-	-	-	-
Sample Depth	Feet	-	-	9	9	9	-	-	9
Well Elevation	Feet	-	-	-	-	-	-	-	-
Stick-Up	Feet	-	-	-	-	-	-	-	-
Miscellaneous Parameters									
1,1,1,2-Tetrachloroethane	ug/l	-	-	< 5000	< 5000	< 1000	< 10	< 10	< 10
1,2,3-Trichloropropane	ug/l	-	-	< 5000	< 5000	< 1000	< 10	< 10	< 10
1,2,4,5-Tetrachlorobenzene	ug/l	-	-	< 300	< 10	< 10	< 10	-	< 20
1,2-Dibromo-3-chloropropane	ug/l	-	-	< 5000	< 5000	< 1000	< 10	< 10	< 10
1,2-Dibromoethane	ug/l	-	-	< 5000	< 5000	< 1000	< 10	< 10	< 10
1,4-Dichloro-2-butene	ug/l	-	-	< 5000	< 5000	< 1000	< 10	< 10	< 10
1,4-Dioxane	ug/l	-	-	< 200000	< 300	< 200000	< 300	< 300	2180
1,4-Naphthoquinone	ug/l	-	-	< 300	< 10	< 10	< 10	-	< 20
1-Naphthylamine	ug/l	-	-	< 300	< 10	< 10	< 10	-	< 20
2,3,4,6-Tetrachlorophenol	ug/l	-	-	< 300	< 10	19.3	< 10	-	< 20

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		L SW-6 911108 HA6705	TB-RELOG 911108 HA6708	X FG-7GW 911111 HA6536	X FG-8GW 911112 HA6537	X FG-5GW 911112 HA6538	X GWFB01 911112 HA6583	X 911112TB 911112 HA6590	X FG-3GW 911112 HA6535
2,4,5-Trichlorophenol	ug/l	-	-	< 300	< 10	< 14.3	< 10	-	< 20
2,6-Dichlorophenol	ug/l	-	-	< 300	4.4	527	< 10	-	390
2-Acetylaminofluorene	ug/l	-	-	< 300	< 10	< 10	< 10	-	< 20
2-Chloro-1,3-butadiene	ug/l	-	-	ND	ND	ND	ND	ND	ND
2-Hexanone	ug/l	-	-	< 5000	< 5000	< 1000	< 10	< 10	< 10
2-Methylnaphthalene	ug/l	-	-	< 300	1.4	3.7	< 10	-	29.1
2-Naphthylamine	ug/l	-	-	< 300	< 10	< 10	< 10	-	< 20
2-Picoline	ug/l	-	-	< 300	< 10	< 10	< 10	-	< 20
2-sec-Butyl-4,6-dinitrophenol	ug/l	-	-	< 300	< 10	< 10	< 10	-	< 20
3,3'-Dimethylbenzidine	ug/l	-	-	< 300	< 10	< 10	< 10	-	< 20
3-Methylcholanthrene	ug/l	-	-	< 100	< 7	< 8	< 6	-	< 9
3-chloropropene	ug/l	-	-	< 5000	< 5000	< 1000	< 10	< 10	< 10
4-Aminobiphenyl	ug/l	-	-	< 300	< 10	< 10	< 10	-	< 20
4-Nitroquinoline-N-oxide	ug/l	-	-	IND	IND	IND	IND	-	IND
5-Nitro-o-toluidine	ug/l	-	-	< 300	< 10	< 10	< 10	-	< 20
7,12-Dimethylbenzo(a)anthracen	ug/l	-	-	< 300	< 10	< 10	< 10	-	< 20
Acetone	ug/l	-	-	16100	< 5000	< 1000	< 10	< 10	< 10
Acetonitrile	ug/l	-	-	198000	176	< 7500	< 20	< 20	< 20
Acetophenone	ug/l	-	-	< 300	7.8	< 10	< 10	-	< 20
Aniline	ug/l	-	-	< 300	78.3	< 10	< 10	-	< 20
Aramite	ug/l	-	-	< 300	< 10	< 10	< 10	-	< 20
Benzyl alcohol	ug/l	-	-	180	< 10	< 10	< 10	-	< 20
Carbon disulfide	ug/l	-	-	< 5000	< 5000	< 1000	< 10	< 10	< 10
Depth to Groundwater	Feet	-	-	-	-	-	-	-	-
Diallate	ug/l	-	-	< 300	< 10	< 10	< 10	-	< 20
Dibenzofuran	ug/l	-	-	< 300	< 10	< 10	< 10	-	7.4
Dibromomethane	ug/l	-	-	< 5000	< 5000	< 1000	< 10	< 10	< 10
Diphenylamine	ug/l	-	-	< 300	< 10	< 10	< 10	-	< 20
Ending Sample Depth	Feet	-	-	12	13	13	-	-	12
Ethyl cyanide	ug/l	-	-	<20000	< 40	<20000	< 40	< 40	< 40
Ethyl methacrylate	ug/l	-	-	< 5000	< 5000	< 1000	< 10	< 10	< 10
Ethyl methanesulfonate	ug/l	-	-	< 300	< 10	< 10	< 10	-	< 20
Hexachlorophene	ug/l	-	-	< 300	< 10	< 10	< 10	-	< 20
Hexachloropropene	ug/l	-	-	< 300	< 10	< 10	< 10	-	< 20
Iodomethane	ug/l	-	-	< 5000	< 5000	< 1000	< 10	< 10	< 10
Isobutyl alcohol	ug/l	-	-	< 115000	< 230	< 115000	< 200	< 200	< 200
Isodrin	ug/l	-	-	< 200	< 8	< 8	< 7	-	< 10

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	Company	Facility	Sample Point	Date

Parameters	Units	Sample Points, Sampling Dates, and ETC Sample No.'s							
		L SW-6 911108 HA6705	TB-RELOG 911108 HA6708	X FG-7GW 911111 HA6536	X FG-8GW 911112 HA6537	X FG-5GW 911112 HA6538	X GWFB01 911112 HA6583	X 911112TB 911112 HA6590	X FG-3GW 911112 HA6535
Isosafrole	ug/l	-	-	< 300	< 10	< 10	< 10	-	< 20
Methacrylonitrile	ug/l	-	-	<60000	< 100	<60000	< 100	< 100	< 100
Methapyrilene	ug/l	-	-	IND	IND	IND	IND	-	IND
Methyl ethyl ketone	ug/l	-	-	< 5000	< 5000	< 1000	< 10	< 10	< 10
Methyl methacrylate	ug/l	-	-	< 5000	< 5000	< 1000	< 10	< 10	< 10
Methyl methanesulfonate	ug/l	-	-	< 300	< 10	< 10	< 10	-	< 20
Methyl-iso-butyl ketone	ug/l	-	-	< 5000	< 5000	1460	< 10	< 10	< 10
N-Nitrosodi-n-butylamine	ug/l	-	-	< 300	< 10	< 10	< 10	-	< 20
N-Nitrosodiethylamine	ug/l	-	-	< 300	< 10	< 10	< 10	-	< 20
N-Nitrosomethylethylamine	ug/l	-	-	< 300	< 10	< 10	< 10	-	< 20
N-Nitrosomorpholine	ug/l	-	-	< 300	< 10	< 10	< 10	-	< 20
N-Nitrosopiperidine	ug/l	-	-	< 300	< 10	< 10	< 10	-	< 20
N-Nitrosopyrrolidine	ug/l	-	-	< 300	< 10	< 10	< 10	-	< 20
Pentachlorobenzene	ug/l	-	-	< 300	< 10	< 10	< 10	-	< 20
Pentachloroethane	ug/l	-	-	ND	ND	ND	ND	ND	ND
Pentachloronitrobenzene	ug/l	-	-	< 300	< 10	< 10	< 10	-	< 20
Phenacetin	ug/l	-	-	< 300	< 10	< 10	< 10	-	< 20
Pronamide	ug/l	-	-	< 300	< 10	< 10	< 10	-	< 20
Pyridine	ug/l	-	-	9300	49.9	3470	< 10	-	713
Safrole	ug/l	-	-	< 300	< 10	< 10	< 10	-	< 20
Styrene	ug/l	-	-	< 5000	< 5000	< 1000	< 10	< 10	< 10
Tetraethyldithiopyrophosphate	ug/l	-	-	ND	ND	ND	ND	-	ND
Unable to Sample	CODE	-	-	-	-	-	-	-	-
Vinyl acetate	ug/l	-	-	< 5000	< 5000	< 1000	< 10	< 10	< 10.0
m+p-Cresols	ug/l	-	-	200	123	3400	< 10	-	2270
m-Dinitrobenzene	ug/l	-	-	< 300	< 10	< 10	< 10	-	< 20
m-Nitroaniline	ug/l	-	-	< 300	< 10	< 10	< 10	-	< 20
m-Xylene	ug/l	-	-	< 5000	< 5000	260	< 10	< 10	< 10
m-phenylenediamine	ug/l	-	-	< 300	< 10	< 10	< 10	-	< 20
o+p-Xylenes	ug/l	-	-	< 5000	< 5000	330	< 10	< 10	< 10
o-Cresol	ug/l	-	-	< 300	< 10	37.1	< 10	-	< 20
o-Nitroaniline	ug/l	-	-	< 300	< 10	< 10	< 10	-	< 20
o-Toluidine	ug/l	-	-	< 300	33.1	< 10	< 10	-	< 20
o-phenylenediamine	ug/l	-	-	< 300	< 10	< 10	< 10	-	< 20
p-Chloroaniline	ug/l	-	-	< 300	21.2	533	< 10	-	< 20
p-Dimethylaminoazobenzene	ug/l	-	-	< 300	< 10	< 10	< 10	-	< 20
p-Nitroaniline	ug/l	-	-	< 300	< 10	< 10	< 10	-	< 20

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below				See Below	
ETC Sample No.	WASTE MANAGEMENT, INC.	*Company*	705 *Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		L SW-6 911108 HA6705	TB-RELOG 911108 HA6708	X FG-7GW 911111 HA6536	X FG-8GW 911112 HA6537	X FG-5GW 911112 HA6538	X GWFBUI 911112 HA6583	X 911112TB 911112 HA6590	X FG-3GW 911112 HA6535
p-phenylenediamine	ug/l	-	-	< 300	< 10	< 10	< 10	-	< 20
sym-Trinitrobenzene	ug/l	-	-	IND	IND	IND	IND	-	IND

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below (*ETC Sample No.*) | WASTE MANAGEMENT, INC. (*Company*) | 705 (*Facility*) | See Below (*Sample Point*) | See Below (*Date*)

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		X FG-4GW 911114 HA6539	X FG-6GW 911119 HA6542	X FG-11GW 911119 HA6541	X FG-14 911202 HA6544	X 9112031B 911202 HA6591	X FG-13GW 911202 HA6545	W G314 911205 HA6547	W G307 911205 HA6548
Priority Poll. Volatiles GC/MS									
Acrolein	ug/l	< 20	< 20	< 400	< 4000	< 20	< 200	< 200	< 20
Acrylonitrile	ug/l	< 10	< 10	< 200	< 2000	< 10	< 100	< 100	< 10
Benzene	ug/l	9.87	< 1000	< 400	14200	< 4	115	1050	< 4
Bromoform	ug/l	< 5	< 1000	< 500	< 500	< 5	< 90	< 100	< 5
Carbon tetrachloride	ug/l	< 3	< 700	< 300	< 300	< 3	< 60	< 70	< 3
Chlorobenzene	ug/l	< 6	< 2000	< 600	701	< 6	57	< 200	< 6
Chlorodibromomethane	ug/l	< 3	< 800	< 300	< 300	< 3	< 60	< 80	< 3
Chloroethane	ug/l	< 10	< 3000	< 1000	< 1000	< 10	< 200	< 300	< 10
2-Chloroethylvinyl ether	ug/l	-	-	-	-	-	-	-	-
Chloroform	ug/l	< 2	< 400	< 200	4480	< 2	< 30	< 40	< 2
Dichlorobromomethane	ug/l	< 2	< 600	< 200	< 200	< 2	< 40	< 50	< 2
Dichlorodifluoromethane	ug/l	< 10	< 3000	< 1000	< 1000	< 10	< 200	< 300	< 10
1,1-Dichloroethane	ug/l	4.1	< 1000	< 500	3560	< 5	< 90	< 100	< 5
1,2-Dichloroethane	ug/l	< 3	< 700	< 300	6250	< 3	< 60	< 70	< 3
1,1-Dichloroethylene	ug/l	46.3	< 700	< 300	39800	< 3	97.8	3500	< 3
1,2-Dichloropropane	ug/l	< 6	< 2000	< 600	< 600	< 6	< 100	< 200	< 6
cis-1,3-Dichloropropylene	ug/l	< 5	< 1000	< 500	< 500	< 5	< 100	< 100	< 5
Ethylbenzene	ug/l	< 7	< 2000	< 700	13400	< 7	158	< 200	< 7
Methyl bromide	ug/l	< 10	< 3000	< 1000	< 1000	< 10	< 200	< 300	< 10
Methyl chloride	ug/l	< 10	< 3000	< 1000	< 1000	< 10	< 200	< 300	< 10
Methylene chloride	ug/l	< 3	< 700	478	8360	< 3	< 60	< 70	< 3
1,1,2,2-Tetrachloroethane	ug/l	< 7	< 2000	< 700	< 700	< 7	< 100	< 200	< 7
Tetrachloroethylene	ug/l	< 4	< 1000	< 400	2650	< 4	< 80	< 100	< 4
Toluene	ug/l	3.2	< 2000	< 600	85200	< 6	1470	61	1.3
1,2-Trans-dichloroethylene	ug/l	12.9	< 400	< 200	251	< 2	< 30	< 40	< 2
1,1,1-Trichloroethane	ug/l	< 4	< 1000	< 400	67400	< 4	23	< 100	< 4
1,1,2-Trichloroethane	ug/l	< 5	< 1000	< 500	28600	< 5	< 100	< 100	< 5
Trichloroethylene	ug/l	3.11	< 500	< 200	2220	< 2	< 40	< 50	< 2
Trichlorofluoromethane	ug/l	< 10	< 3000	< 1000	< 1000	< 10	< 200	< 300	< 10
Vinyl chloride	ug/l	21.7	< 3000	< 1000	< 1000	< 10	< 200	2250	< 10
trans-1,3-Dichloropropylene	ug/l	< 10	< 3000	< 1000	< 1000	< 10	< 200	< 300	< 10

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below ETC Sample No.	WASTE MANAGEMENT, INC. Company	705 Facility	See Below Sample Point	Date

Parameters	Units	Sample Points, Sampling Dates, and ETC Sample No.'s							
		X FG-4GW 911114 HA6539	X FG-6GW 911119 HA6542	X FG-11GW 911119 HA6541	X FG-14 911202 HA6544	X 9112031B 911202 HA6591	X FG-13GW 911202 HA6545	W G314 911205 HA6547	W G307 911205 HA6548
Priority Poll. Acids GC/MS									
2-Chlorophenol	ug/l	31.6	14.7	-	11100	-	1210	18.4	< 3
2,4-Dichlorophenol	ug/l	178	228	-	62600	-	31400	< 2.73	< 3
2,4-Dimethylphenol	ug/l	6.19	< 3	-	7250	-	< 6	< 2.73	< 3
4,6-Dinitro-o-cresol	ug/l	< 30	< 30	-	< 500	-	< 50	< 20	< 20
2,4-Dinitrophenol	ug/l	< 50	< 50	-	< 800	-	< 93.3	< 40	< 40
2-Nitrophenol	ug/l	< 5	< 4	-	< 70	-	< 8	< 4	< 4
4-Nitrophenol	ug/l	< 3	< 3	-	< 50	-	< 5	< 2.42	< 2
p-Chloro-m-cresol	ug/l	< 4	< 4	-	< 60	-	< 7	< 3	< 3
Pentachlorophenol	ug/l	< 5	< 4	-	675	-	61.0	< 4	< 4
Phenol	ug/l	577	1400	-	16800	-	403	64.1	< 2
2,4,6-Trichlorophenol	ug/l	1.6	3.62	-	878	-	358	< 3	< 3
Priority Poll. B/Ns GC/MS									
Acenaphthene	ug/l	< 2	< 2	-	< 38.0	-	< 4.22	< 1.92	< 2
Acenaphthylene	ug/l	< 4	< 4	-	< 70	-	< 7.78	< 4	< 4
Anthracene	ug/l	< 2	< 2	-	< 38.0	-	< 4.22	< 1.92	< 2
Benzo(a)anthracene	ug/l	< 10	< 10	-	< 156	-	< 20	< 8	< 8
Benzo(a)pyrene	ug/l	< 3	< 3	-	< 50.0	-	< 6	< 3	< 3
Benzo(b)fluoranthene	ug/l	< 6	< 6	-	< 96.0	-	< 10	< 5	< 5
Benzo(ghi)perylene	ug/l	< 5	< 5	-	< 80	-	< 9	< 4	< 4
Benzo(k)fluoranthene	ug/l	< 3	< 3	-	< 50.0	-	< 6	< 3	< 3
bis(2-Chloroethoxy)methane	ug/l	< 7	< 6	-	< 106	-	< 10	< 5	< 5
bis(2-Chloroethyl) ether	ug/l	< 7	< 7	-	< 100	-	< 10	< 5.76	< 6
bis(2-Chloroisopropyl)ether	ug/l	< 7	< 7	-	< 100	-	< 10	< 5.76	< 6
bis(2-Ethylhexyl)phthalate	ug/l	< 10	< 10	-	< 200	-	< 20	< 10.1	< 10
4-Bromophenyl phenyl ether	ug/l	< 2	< 2	-	< 40	-	< 4	< 2	< 2
Butyl benzyl phthalate	ug/l	< 10	< 10	-	< 200	-	< 20	< 10	< 10
2-Chloronaphthalene	ug/l	< 2	< 2	-	< 38.0	-	< 4.22	< 1.92	< 2
4-Chlorophenyl phenyl ether	ug/l	< 5	< 5	-	< 80	-	< 9	< 4	< 4
Chrysene	ug/l	< 3	< 3	-	< 50.0	-	< 6	< 3	< 3
Dibenzo(a,h)anthracene	ug/l	< 3	< 3	-	< 50.0	-	< 6	< 3	< 3
1,2-Dichlorobenzene	ug/l	< 2	< 2	-	4970	-	6.16	< 2	< 2
1,3-Dichlorobenzene	ug/l	< 2	< 2	-	432	-	< 4.22	< 2	< 2

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		X FG-4GW 911114 HA6539	X FG-6GW 911119 HA6542	X FG-11GW 911119 HA6541	X FG-14 911202 HA6544	X 911203TB 911202 HA6591	X FG-13GW 911202 HA6545	W G314 911205 HA6547	W G307 911205 HA6548
1,4-Dichlorobenzene	ug/l	< 6	< 5	-	559	-	< 9.78	< 4	< 4
3,3'-Dichlorobenzidine	ug/l	< 20	< 20	-	< 330	-	< 40	< 20	< 20
Diethyl phthalate	ug/l	< 10	< 10	-	< 200	-	< 20	< 10.1	< 10
Dimethyl phthalate	ug/l	< 10	< 10	-	< 200	-	< 20	< 10	< 10
Di-n-butyl phthalate	ug/l	< 10	< 10	-	< 200	-	< 20	< 10	< 10.1
2,4-Dinitrotoluene	ug/l	< 7	< 7	-	< 100	-	< 10	< 6	< 6
2,6-Dinitrotoluene	ug/l	< 2	< 2	-	< 40	-	< 4	< 2	< 2
Di-n-octyl phthalate	ug/l	< 10	< 10	-	< 200	-	< 20	< 10	< 10
Fluoranthene	ug/l	2.5	< 3	-	< 44.0	-	< 5	< 2	< 2
Fluorene	ug/l	< 2	< 2	-	< 40	-	< 4	< 1.92	< 2
Hexachlorobenzene	ug/l	< 2	< 2	-	< 40	-	< 4	< 2	< 2
Hexachlorobutadiene	ug/l	< 1	< 1	-	< 20	-	< 2	< .909	< .9
Hexachlorocyclopentadiene	ug/l	< 10	< 10	-	< 200	-	< 20	< 10	< 10
Hexachloroethane	ug/l	< 2	< 2	-	< 30	-	< 4	< 2	< 2
Indeno(1,2,3-c,d)pyrene	ug/l	< 5	< 5	-	< 70	-	< 8	< 4	< 4
Isophorone	ug/l	< 3	< 3	-	< 44.0	-	< 5	< 2.22	< 2
Naphthalene	ug/l	5.68	< 2	-	< 32.0	-	< 3.56	< 1.62	< 2
Nitrobenzene	ug/l	< 2	< 2	-	7980	-	569	< 1.92	< 2
N-Nitrosodimethylamine	ug/l	< 10	< 10	-	< 200	-	< 22.2	< 10.1	< 10
N-Nitrosodi-n-propylamine	ug/l	< 10	< 10	-	< 200	-	< 22.2	< 10.1	< 10.1
N-Nitrosodiphenylamine	ug/l	< 2	< 2	-	< 40	-	< 4	< 2	< 2
Phenanthrene	ug/l	3.3	< 7	-	43	-	< 12.0	< 5.45	< 5
Pyrene	ug/l	2.1	< 2	-	< 38.0	-	< 4	< 2	< 2
1,2,4-Trichlorobenzene	ug/l	< 2	< 2	-	< 38.0	-	< 4	< 2	< 2
Metals Analysis Data									
Antimony	ug/l	16	< 60	-	< 60	-	< 60	15	< 60
Arsenic	ug/l	9.0	9.4	-	18	-	3.7	97	9.1
Barium	ug/l	79	24	-	93	-	64	520	25
Beryllium	ug/l	< 1.0	< 1.0	-	< 1.0	-	< 1.0	< 1.0	< 1.0
Cadmium	ug/l	< 3.0	< 3.0	-	< 2.0	-	< 2.0	< 2.0	< 2.0
Chromium	ug/l	< 10	12	-	< 10	-	< 10	< 10	3.9
Cobalt	ug/l	< 20	< 20	-	< 20	-	< 20	< 20	< 20
Copper	ug/l	< 10	2.7	-	2.1	-	< 10	< 10	2.0
Lead	ug/l	1.3	4.6	-	3.4	-	1.2	2.0	1.2
Mercury	ug/l	< .20	< .20	-	< .20	-	< .20	< .20	< .20

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	X FG-4GW 911114 HA6539	X FG-6GW 911119 HA6542	X FG-11GW 911119 HA6541	X FG-14 911202 HA6544	X 911203TB 911202 HA6591	X FG-13GW 911202 HA6545	W G314 911205 HA6547	W G307 911205 HA6548
Nickel	ug/l	7.9	200	-	18	-	43	39	< 20
Selenium	ug/l	2.4	13	-	4.3	-	3.7	3.7	33
Silver	ug/l	< 10	< 10	-	< 10	-	< 10	< 10	< 10
Thallium	ug/l	< 10	< 10	-	< 10	-	< 10	< 50	< 10
Tin	ug/l	< 50	< 50	-	< 50	-	< 50	< 50	< 50
Vanadium	ug/l	26	280	-	< 20	-	< 20	< 20	5.8
Zinc	ug/l	< 20	< 20	-	18	-	12	< 20	< 20
Field Parameters									
pH (Field)	std	11.35	12.60	11.23	9.25	-	8.88	7.00	9.23
pH (Field)	std	11.35	12.60	11.24	9.24	-	8.83	6.97	9.24
pH (Field)	std	11.35	12.58	11.24	9.21	-	8.84	7.00	9.21
pH (Field)	std	11.35	12.59	11.25	9.23	-	8.86	7.01	9.22
Specific Conductance (Field)	um/cm	3900	14500	2750	4060	-	1880	7720	2000
Specific Conductance (Field)	um/cm	3870	14200	2720	4050	-	1890	7720	2010
Specific Conductance (Field)	um/cm	3880	14100	2720	4020	-	1890	7710	2000
Specific Conductance (Field)	um/cm	3850	14000	2740	4050	-	1890	7730	2010
Groundwater Elevation	Feet	-	-	-	-	-	-	584.87	587.04
Temperature	Deg. C	15.9	18.3	-	11.0	-	9.2	8.8	8.8
Well Depth	Feet	-	-	-	6	-	-	17.99	16.88
Sample Depth	Feet	9	9	10	-	-	6	-	-
Well Elevation	Feet	-	-	-	-	-	-	591.38	590.71
Stick-Up	Feet	-	-	-	-	-	-	2.15	2.19
Miscellaneous Parameters									
1,1,1,2-Tetrachloroethane	ug/l	< 10	< 3000	< 1000	< 1000	< 10	< 200	< 300	< 10
1,2,3-Trichloropropane	ug/l	< 10	< 3000	< 1000	< 1000	< 10	< 200	< 300	< 10
1,2,4,5-Tetrachlorobenzene	ug/l	< 10	< 10	-	< 200	-	< 22.2	< 10	< 10
1,2-Dibromo-3-chloropropane	ug/l	< 10	< 3000	< 1000	< 1000	< 10	< 200	< 300	< 10
1,2-Dibromoethane	ug/l	< 10	< 3000	< 1000	< 1000	< 10	< 200	< 300	< 10
1,4-Dichloro-2-butene	ug/l	< 10	< 3000	< 1000	< 1000	< 10	< 200	< 300	< 10
1,4-Dioxane	ug/l	66	10	800	<60000	< 300	< 3000	< 3000	< 300
1,4-Naphthoquinone	ug/l	< 10	< 10	-	< 200	-	< 20	< 10	< 10
1-Naphthylamine	ug/l	< 10	< 10	-	< 200	-	< 20	< 10.1	< 10
2,3,4,6-Tetrachlorophenol	ug/l	< 10	< 10	-	< 200	-	< 22.2	< 10	< 10

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	Units	Sample Points, Sampling Dates, and ETC Sample No's							
		X FG-4GW 911114 HA6539	X FG-6GW 911119 HA6542	X FG-11GW 911119 HA6541	X FG-14 911202 HA6544	X 911203TB 911202 HA6591	X FG-13GW 911202 HA6545	W G314 911205 HA6547	W G307 911205 HA6548
2,4,5-Trichlorophenol	ug/l	< 10	< 10	-	< 200	-	< 22.2	< 10	< 10
2,6-Dichlorophenol	ug/l	< 12.7	302	-	6560	-	< 22.2	< 10.1	< 10
2-Acetylaminofluorene	ug/l	< 10	< 10	-	< 200	-	< 20	< 10	< 10
2-Chloro-1,3-butadiene	ug/l	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	ug/l	< 10	< 3000	< 1000	< 1000	< 10	< 200	< 300	< 10
2-Methylnaphthalene	ug/l	< 10	< 10	-	81	-	< 22.2	< 10.1	< 10
2-Naphthylamine	ug/l	< 10	< 10	-	< 200	-	< 20	< 10.1	< 10
2-Picoline	ug/l	< 10	< 10	-	< 200	-	< 20	< 10	< 10
2-sec-Butyl-4,6-dinitrophenol	ug/l	< 10	< 10	-	< 200	-	< 20	< 10	< 10
3,3'-Dimethylbenzidine	ug/l	< 10	< 10	-	< 200	-	< 20	< 10	< 10
3-Methylcholanthrene	ug/l	< 7	< 7	-	< 100	-	< 10	< 6	< 6
3-chloropropene	ug/l	< 10	< 3000	< 1000	< 1000	< 10	< 200	< 300	< 10
4-Aminobiphenyl	ug/l	< 10	< 10	-	< 200	-	< 22.2	< 10	< 10
4-Nitroquinoline-N-oxide	ug/l	IND	IND	-	IND	-	IND	IND	IND
5-Nitro-o-toluidine	ug/l	< 10	< 10	-	< 200	-	< 20	< 10	< 10.1
7,12-Dimethylbenzo(a)anthracen	ug/l	< 10	< 10	-	< 200	-	< 20	< 10	< 10
Acetone	ug/l	49.9	80700	950	< 1000	< 10	< 200	< 300	< 10
Acetonitrile	ug/l	< 15.0	< 20	722	< 3000	< 20	< 200	917	< 20
Acetophenone	ug/l	< 10	< 10	-	< 200	-	< 20	< 10.1	< 10
Aniline	ug/l	< 10	< 10	-	5190	-	2850	< 10.1	< 10
Aramite	ug/l	< 10	< 10	-	< 200	-	< 20	< 10	< 10
Benzyl alcohol	ug/l	23.1	< 10	-	< 200	-	< 20	< 10	< 10
Carbon disulfide	ug/l	< 10	< 3000	< 1000	< 1000	< 10	< 200	< 300	< 10
Depth to Groundwater	Feet	-	-	-	-	-	-	6.51	3.67
Diallate	ug/l	< 10	< 10	-	< 200	-	< 20	< 10	< 10
Dibenzofuran	ug/l	< 10	< 10	-	< 200	-	< 22.2	< 10.1	< 10
Dibromomethane	ug/l	< 10	< 3000	< 1000	< 1000	< 10	< 200	< 300	< 10
Diphenylamine	ug/l	< 10	< 10	-	< 200	-	< 20	< 10	< 10
Ending Sample Depth	Feet	13	11	11	7	-	8	-	-
Ethyl cyanide	ug/l	< 40.0	< 40	< 800	< 8000	< 40	< 400	< 400	< 40
Ethyl methacrylate	ug/l	< 10	< 3000	< 1000	< 1000	< 10	< 200	< 300	< 10
Ethyl methanesulfonate	ug/l	< 10	< 10	-	< 200	-	< 20	< 10.1	< 10
Hexachlorophene	ug/l	< 10	< 10	-	< 200	-	< 20	< 10	< 10
Hexachloropropene	ug/l	< 10	< 10	-	< 200	-	< 20	< 10.1	< 10
Iodomethane	ug/l	< 10	< 3000	< 1000	< 1000	< 10	< 200	< 300	< 10
Isobutyl alcohol	ug/l	28	5.2	< 5000	<46000	< 230	< 2300	< 2300	< 200
Isodrin	ug/l	< 7	< 7	-	< 100	-	< 10	< 6	< 6

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

DATE: 10/14/93
PAGE: 27

Chain of Custody Data Required for ETC Data Management Summary Report

See Below — *ETC Sample No.* | WASTE MANAGEMENT, INC. — *Company* | 705 — *Facility* | See Below — *Sample Point* | *Date*

Parameters	Units	X FG-4GW 911114 HA6539	X FG-6GW 911119 HA6542	X FG-11GW 911119 HA6541	X FG-14 911202 HA6544	X 9112031B 911202 HA6591	X FG-13GW 911202 HA6545	W G314 911205 HA6547	W G307 911205 HA6548
Isosafrole	ug/l	< 10	< 10	-	< 200	-	< 20	< 10	< 10
Methacrylonitrile	ug/l	5.0	< 100	200	<20000	< 100	< 1000	< 1000	< 100
Methapyrilene	ug/l	IND	IND	-	IND	-	IND	IND	IND
Methyl ethyl ketone	ug/l	< 10	< 3000	< 1000	< 1000	< 10	< 200	< 300	< 10
Methyl methacrylate	ug/l	< 10	< 3000	< 1000	< 1000	< 10	< 200	< 300	< 10
Methyl methanesulfonate	ug/l	< 10	< 10	-	< 200	-	< 20	< 10	< 10
Methyl-iso-butyl ketone	ug/l	7.5	< 3000	5380	18600	< 10	3640	< 300	< 10
N-Nitrosodi-n-butylamine	ug/l	< 10	< 10	-	< 200	-	< 22.2	< 10.1	< 10
N-Nitrosodiethylamine	ug/l	< 10	< 10	-	< 200	-	< 20	< 10	< 10
N-Nitrosomethylethylamine	ug/l	< 10	< 10	-	< 200	-	< 20	< 10	< 10
N-Nitrosomorpholine	ug/l	< 10	< 10	-	< 200	-	< 20	< 10.1	< 10
N-Nitrosopiperidine	ug/l	< 10	< 10	-	< 200	-	< 20	< 10	< 10
N-Nitrosopyrrolidine	ug/l	< 10	< 10	-	< 200	-	< 20	< 10.1	< 10.1
Pentachlorobenzene	ug/l	< 10	< 10	-	< 200	-	< 20	< 10	< 10
Pentachloroethane	ug/l	ND	ND	ND	ND	ND	ND	ND	ND
Pentachloronitrobenzene	ug/l	< 10	< 10	-	< 200	-	< 20	< 10	< 10
Phenacetin	ug/l	< 10	< 10	-	< 200	-	< 20	< 10	< 10
Pronamide	ug/l	< 10	< 10	-	< 200	-	< 20	< 10	< 10
Pyridine	ug/l	12	< 10	-	85	-	< 22.2	35.0	< 10
Safrole	ug/l	< 10	< 10	-	< 200	-	< 20	< 10.1	< 10
Styrene	ug/l	< 10	< 3000	< 1000	4180	< 10	< 200	< 300	< 10
Tetraethyldithiopyrophosphate	ug/l	ND	ND	-	ND	-	ND	ND	ND
Unable to Sample	CODE	-	-	-	-	-	-	-	-
Vinyl acetate	ug/l	< 10	< 3000	< 1000	< 1000	< 10	< 200	< 300	< 10
m+p-Cresols	ug/l	122	31.3	-	35500	-	7.2	232	< 10
m-Dinitrobenzene	ug/l	< 10	< 10	-	< 200	-	< 20	< 10	< 10
m-Nitroaniline	ug/l	< 10	< 10	-	< 200	-	< 20	< 10	< 10
m-Xylene	ug/l	1.6	< 3000	< 1000	6480	< 10	338	< 300	< 10
m-phenylenediamine	ug/l	< 10	< 10	-	< 200	-	< 22.2	< 10.1	< 10
o+p-Xylenes	ug/l	< 10	< 3000	< 1000	5060	< 10	234	< 300	< 10
o-Cresol	ug/l	7.2	5.4	-	721	-	14	6.5	< 10
o-Nitroaniline	ug/l	< 10	< 10	-	< 200	-	< 20	< 10	< 10
o-Toluidine	ug/l	< 10	< 10	-	< 200	-	< 20	< 10	< 10
o-phenylenediamine	ug/l	< 10	< 10	-	< 200	-	< 22.2	< 10.1	< 10
p-Chloroaniline	ug/l	< 10	< 10	-	42900	-	13500	< 10.1	< 10
p-Dimethylaminoazobenzene	ug/l	< 10	< 10	-	< 200	-	< 20	< 10	< 10
p-Nitroaniline	ug/l	< 10	< 10	-	< 200	-	< 20	< 10.1	< 10

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		X FG-4GW 911114 HA6539	X FG-6GW 911119 HA6542	X FG-11GW 911119 HA6541	X FG-14 911202 HA6544	X 911203TB 911202 HA6591	X FG-13GW 911202 HA6545	W G314 911205 HA6547	W G307 911205 HA6548
p-phenylenediamine	ug/l	< 10	< 10	-	< 200	-	< 22.2	< 10.1	< 10
sym-Trinitrobenzene	ug/l	IND	IND	-	IND	-	IND	IND	IND

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below — ETC Sample No. | WASTE MANAGEMENT, INC. — Company | 705 — Facility | See Below — Sample Point | See Below — Date

Parameters	Units	X GWDUP02 911205 HA6549	W G342 911205 HA6550	W G344 911205 HA6551	W G332 911205 HA6554	X 911205TB 911205 HA6592	X GWFB02 911206 HA6584	X 911206TB 911206 HA6593	W G343 911209 HA6552
Priority Poll. Volatiles GC/MS									
Acrolein	ug/l	< 40	< 40	< 40	< 50	< 20	< 20	< 20	< 20
Acrylonitrile	ug/l	< 20	< 20	< 20	< 30	< 10	< 10	< 10	< 10
Benzene	ug/l	30.9	30.0	137	428	< 4	< 4	< 4	< 4
Bromoform	ug/l	< 5	< 20	< 50	< 50	< 5	< 5	< 5	< 5
Carbon tetrachloride	ug/l	< 3	< 10	< 30	< 30	< 3	< 3	< 3	< 3
Chlorobenzene	ug/l	< 6	< 30	< 60	63.3	< 6	< 6	< 6	< 6
Chlorodibromomethane	ug/l	< 3	< 20	< 30	< 30	< 3	< 3	< 3	< 3
Chloroethane	ug/l	< 10	< 50	< 100	< 100	< 10	< 10	< 10	< 10
2-Chloroethylvinyl ether	ug/l	-	-	-	-	-	-	-	-
Chloroform	ug/l	< 2	< 8	< 20	< 20	< 2	< 2	< 2	< 2
Dichlorobromomethane	ug/l	< 2	< 10	< 20	< 20	< 2	< 2	< 2	< 2
Dichlorodifluoromethane	ug/l	< 10	< 50	< 100	< 100	< 10	< 10	< 10	< 10
1,1-Dichloroethane	ug/l	6.93	< 20	< 50	< 50	< 5	< 5	< 5	< 5
1,2-Dichloroethane	ug/l	< 3	< 10	< 30	< 30	< 3	< 3	< 3	< 3
1,1-Dichloroethylene	ug/l	33.9	36.7	< 30	2240	< 3	< 3	< 3	< 3
1,2-Dichloropropane	ug/l	< 6	< 30	< 60	< 60	< 6	< 6	< 6	< 6
cis-1,3-Dichloropropylene	ug/l	< 5	< 30	< 50	< 50	< 5	< 5	< 5	< 5
Ethylbenzene	ug/l	< 7	< 40	72	16	< 7	< 7	< 7	< 7
Methyl bromide	ug/l	< 10	< 50	< 100	< 100	< 10	< 10	< 10	< 10
Methyl chloride	ug/l	< 10	< 50	< 100	< 100	< 10	< 10	< 10	< 10
Methylene chloride	ug/l	< 3	< 10	< 30	1870	< 3	< 3	< 3	< 3
1,1,2,2-Tetrachloroethane	ug/l	< 7	6.6	< 70	< 70	< 7	< 7	< 7	< 7
Tetrachloroethylene	ug/l	< 4	< 20	< 40	< 40	< 4	< 4	< 4	< 4
Toluene	ug/l	< 6	< 30	288	385	< 6	< 6	< 6	< 6
1,2-Trans-dichloroethylene	ug/l	< 2	< 8	< 20	< 20	< 2	< 2	< 2	< 2
1,1,1-Trichloroethane	ug/l	< 4	< 20	< 40	< 40	< 4	< 4	< 4	< 4
1,1,2-Trichloroethane	ug/l	< 5	< 30	< 50	< 50	< 5	< 5	< 5	< 5
Trichloroethylene	ug/l	< 2	< 10	< 20	< 20	< 2	< 2	< 2	< 2
Trichlorofluoromethane	ug/l	< 10	< 50	< 100	< 100	< 10	< 10	< 10	< 10
Vinyl chloride	ug/l	21.8	< 50	< 100	441	< 10	< 10	< 10	< 10
trans-1,3-Dichloropropylene	ug/l	< 10	< 50	< 100	< 100	< 10	< 10	< 10	< 10

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

WASTE MANAGEMENT, INC. — 705 — See Below

ETC Sample No. — *Company* — *Facility* — *Sample Point* — *Date*

Parameters	Units	Sample Points, Sampling Dates, and ETC Sample No.'s							
		X GWDUP02 911205 HA6549	W G342 911205 HA6550	W G344 911205 HA6551	W G332 911205 HA6554	X 911205TB 911205 HA6592	X GWFB02 911206 HA6584	X 911206TB 911206 HA6593	W G343 911209 HA6552
Priority Poll. Acids GC/MS									
2-Chlorophenol	ug/l	1380	1100	541	64.8	-	< 3	-	8.52
2,4-Dichlorophenol	ug/l	57.2	< 3.03	345	< 2.76	-	< 3	-	20.4
2,4-Dimethylphenol	ug/l	< 3	< 3.03	< 2.90	< 2.76	-	< 3	-	4.96
4,6-Dinitro-o-cresol	ug/l	< 30	< 30	< 30	< 20	-	< 30	-	4.5
2,4-Dinitrophenol	ug/l	< 50	< 50	< 50	< 40	-	< 40	-	< 50
2-Nitrophenol	ug/l	< 4	< 4	< 4	< 3.67	-	< 4	-	8.12
4-Nitrophenol	ug/l	< 3	< 3	< 3	< 2	-	< 3	-	< 3
p-Chloro-m-cresol	ug/l	< 3	< 3	< 3	< 3	-	< 3	-	6.23
Pentachlorophenol	ug/l	< 4	< 4	7.12	< 4	-	< 4	-	9.06
Phenol	ug/l	51200	42200	3570	2330	-	< 2	-	< 2
2,4,6-Trichlorophenol	ug/l	24.5	30.5	28.3	< 2.76	-	< 3	-	8.97
Priority Poll. B/Ns GC/MS									
Acenaphthene	ug/l	< 2	< 2	4.98	< 1.94	-	< 2	-	< 2
Acenaphthylene	ug/l	< 4	< 4	< 4	< 3.57	-	< 4	-	< 3.89
Anthracene	ug/l	< 2	< 2	< 2.04	2.52	-	< 2	-	< 2
Benzo(a)anthracene	ug/l	< 9	< 9	< 8	< 8	-	< 8	-	< 9
Benzo(a)pyrene	ug/l	< 3	< 3	< 3	< 3	-	< 3	-	< 3
Benzo(b)fluoranthene	ug/l	< 5	< 5	< 5	< 5	-	< 5	-	< 5
Benzo(ghi)perylene	ug/l	< 5	< 5	< 4	< 4	-	< 4	-	< 5
Benzo(k)fluoranthene	ug/l	< 3	< 3	< 3	< 3	-	< 3	-	< 3
bis(2-Chloroethoxy)methane	ug/l	< 6	< 6	< 6	< 5	-	< 6	-	< 6
bis(2-Chloroethyl) ether	ug/l	< 6	< 6	< 6	< 6	-	< 6	-	< 6
bis(2-Chloroisopropyl)ether	ug/l	< 6	< 6	< 6.13	< 5.82	-	< 6	-	< 6
bis(2-Ethylhexyl)phthalate	ug/l	< 10	< 10	< 10	< 10.2	-	< 10	-	< 10
4-Bromophenyl phenyl ether	ug/l	< 2	< 2	< 2	< 2	-	< 2	-	< 2
Butyl benzyl phthalate	ug/l	< 10	< 10	< 10	< 10	-	< 10	-	< 10
2-Chloronaphthalene	ug/l	< 2	< 2.13	< 2.04	< 2	-	< 2	-	< 2.11
4-Chlorophenyl phenyl ether	ug/l	< 5	< 5	< 5	< 4	-	< 4	-	< 5
Chrysene	ug/l	< 3	< 3	< 3	< 3	-	< 3	-	< 3
Dibenzo(a,h)anthracene	ug/l	< 3	< 3	< 2.69	< 3	-	< 3	-	< 3
1,2-Dichlorobenzene	ug/l	< 2	< 2	< 2	< 1.94	-	< 2	-	< 2
1,3-Dichlorobenzene	ug/l	< 2	< 2	< 2	< 1.94	-	< 2	-	< 2

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below — *ETC Sample No.* | WASTE MANAGEMENT, INC. — *Company* | 705 — *Facility* | See Below — *Sample Point* | *Date*

Parameters	Units	Sample Points, Sampling Dates, and ETC Sample No.'s							
		X GWDUP02 911205 HA6549	W G342 911205 HA6550	W G344 911205 HA6551	W G332 911205 HA6554	X 911205TB 911205 HA6592	X GWFB02 911206 HA6584	X 911206TB 911206 HA6593	W G343 911209 HA6552
1,4-Dichlorobenzene	ug/l	< 5	< 5	< 5	< 4.49	-	< 5	-	< 5
3,3'-Dichlorobenzidine	ug/l	< 20	< 20	< 20	< 20	-	< 20	-	< 20
Diethyl phthalate	ug/l	< 10	< 10	< 10	< 10	-	< 10	-	< 10
Dimethyl phthalate	ug/l	< 10	< 10	< 10	< 10.2	-	< 10	-	< 10
Di-n-butyl phthalate	ug/l	< 10	< 10	< 10	< 10.2	-	< 10	-	< 11.1
2,4-Dinitrotoluene	ug/l	< 6	< 6	< 6.13	< 6	-	< 6	-	< 6
2,6-Dinitrotoluene	ug/l	< 2	< 2	< 2	< 1.94	-	< 2	-	< 2
Di-n-octyl phthalate	ug/l	< 10	< 10	< 10	< 10	-	< 10	-	< 10
Fluoranthene	ug/l	< 2	< 2	< 2	< 2.24	-	< 2	-	< 2
Fluorene	ug/l	< 2	< 2	4.85	< 1.94	-	< 2	-	< 2.11
Hexachlorobenzene	ug/l	< 2	< 2	< 2	< 2	-	< 2	-	< 2
Hexachlorobutadiene	ug/l	< 1	< 1	< 1	< .9	-	< .9	-	< 1
Hexachlorocyclopentadiene	ug/l	< 10	< 10	< 10	< 10	-	< 10	-	< 10
Hexachloroethane	ug/l	< 2	< 2	< 2	< 2	-	< 2	-	< 2
Indeno(1,2,3-c,d)pyrene	ug/l	< 4	< 4	< 4	< 4	-	< 4	-	< 4
Isophorone	ug/l	< 2	< 2.47	< 2	< 2.24	-	< 2	-	< 2.44
Naphthalene	ug/l	< 2	< 1.80	74.8	25.0	-	< 2	-	< 1.78
Nitrobenzene	ug/l	< 2	< 2.13	< 2.04	< 1.94	-	< 2	-	< 2
N-Nitrosodimethylamine	ug/l	< 10	< 10	< 10.8	< 10.2	-	< 10	-	< 11.1
N-Nitrosodi-n-propylamine	ug/l	< 10	< 10	< 10.8	< 10.2	-	< 10.4	-	< 11.1
N-Nitrosodiphenylamine	ug/l	< 2	< 2	< 2	< 2	-	< 2	-	< 2
Phenanthrene	ug/l	< 6	< 6	2.8	< 5.51	-	< 6	-	< 6
Pyrene	ug/l	< 2	< 2	< 2	< 1.94	-	< 2	-	< 2
1,2,4-Trichlorobenzene	ug/l	< 2	< 2	< 2	< 2	-	< 2	-	< 2
Metals Analysis Data									
Antimony	ug/l	< 60	< 60	< 60	< 60	-	16	-	< 60
Arsenic	ug/l	46	42	27	3.9	-	< 10	-	2.6
Barium	ug/l	25	26	58	610	-	< 20	-	58
Beryllium	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	-	< 1.0	-	< 1.0
Cadmium	ug/l	< 2.0	< 2.0	< 2.0	< 2.0	-	< 2.0	-	< 2.0
Chromium	ug/l	< 10	< 10	< 10	< 10	-	< 10	-	< 10
Cobalt	ug/l	< 20	< 20	< 20	< 20	-	< 20	-	< 20
Copper	ug/l	< 10	< 10	< 10	< 10	-	< 10	-	< 10
Lead	ug/l	2.0	3.2	4.1	< 5.0	-	2.0	-	6.0
Mercury	ug/l	< .20	< .20	< .20	< .20	-	< .20	-	.14

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below — *ETC Sample No.* | WASTE MANAGEMENT, INC. — *Company* | 705 — *Facility* | See Below — *Sample Point* — *Date*

Parameters	Units	Sample Points, Sampling Dates, and ETC Sample No.'s							
		X GWDUP02 911205 HA6549	W G342 911205 HA6550	W G344 911205 HA6551	W G332 911205 HA6554	X 9112051B 911205 HA6592	X GWF802 911206 HA6584	X 9112061B 911206 HA6593	W G343 911209 HA6552
Nickel	ug/l	17	17	31	47	-	< 20	-	< 20
Selenium	ug/l	3.1	2.5	4.8	4.3	-	< 5.0	-	< 5.0
Silver	ug/l	< 10	< 10	< 10	< 10	-	< 10	-	< 10
Thallium	ug/l	< 10	< 10	< 20	< 20	-	< 10	-	< 10
Tin	ug/l	< 50	< 50	< 50	< 50	-	< 50	-	< 50
Vanadium	ug/l	23	29	< 20	< 20	-	< 20	-	< 20
Zinc	ug/l	< 20	< 20	6.5	6.9	-	14	-	< 20
Field Parameters									
pH (Field)	std	-	9.43	9.54	12.86	-	6.50	-	7.46
pH (Field)	std	-	9.39	9.53	12.83	-	6.53	-	7.45
pH (Field)	std	-	9.40	9.53	12.84	-	7.06	-	7.43
pH (Field)	std	-	9.41	9.50	12.82	-	6.82	-	7.39
Specific Conductance (Field)	um/cm	-	5960	4560	6830	-	4.55	-	893
Specific Conductance (Field)	um/cm	-	6000	4580	6820	-	4.52	-	881
Specific Conductance (Field)	um/cm	-	5980	4540	6830	-	4.53	-	867
Specific Conductance (Field)	um/cm	-	5960	4510	6840	-	4.52	-	874
Groundwater Elevation	Feet	-	580.36	585.33	587.65	-	-	-	586.70
Temperature	Deg. C	-	8.1	11.6	9.9	-	-	-	11.7
Well Depth	Feet	-	17.02	18.15	11.50	-	-	-	17.81
Sample Depth	Feet	-	-	2	-	-	-	-	-
Well Elevation	Feet	-	592.46	593.03	592.40	-	-	-	591.93
Stick-Up	Feet	-	1.92	-	2.40	-	-	-	2.84
Miscellaneous Parameters									
1,1,1,2-Tetrachloroethane	ug/l	< 10	< 50	< 100	< 100	< 10	< 10	< 10	< 10
1,2,3-Trichloropropane	ug/l	< 10	< 50	< 100	< 100	< 10	< 10	< 10	< 10
1,2,4,5-Tetrachlorobenzene	ug/l	< 10	< 10	< 10	< 10	-	< 10	-	< 10
1,2-Dibromo-3-chloropropane	ug/l	< 10	< 50	< 100	< 100	< 10	< 10	< 10	< 10
1,2-Dibromoethane	ug/l	< 10	< 50	< 100	< 100	< 10	< 10	< 10	< 10
1,4-Dichloro-2-butene	ug/l	< 10	< 50	< 100	< 100	< 10	< 10	< 10	< 10
1,4-Dioxane	ug/l	210	290	< 600	97	< 300	< 300	< 300	< 300
1,4-Naphthoquinone	ug/l	< 10	< 10	< 10	< 10	-	< 10	-	< 10
1-Naphthylamine	ug/l	< 10	< 11.2	< 10.8	< 10.2	-	< 10	-	< 10
2,3,4,6-Tetrachlorophenol	ug/l	< 10	< 10	< 10.8	< 10	-	< 10	-	< 10

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	X GWDUP02 911205 HA6549	W G342 911205 HA6550	W G344 911205 HA6551	W G332 911205 HA6554	X 911205TB 911205 HA6592	X GWFB02 911206 HA6584	X 911206TB 911206 HA6593	W G343 911209 HA6552
		Sample Points, Sampling Dates, and ETC Sample No.'s							
2,4,5-Trichlorophenol	ug/l	< 10	< 11.2	< 10.8	4.2	-	< 10	-	7.6
2,6-Dichlorophenol	ug/l	323	350	498	239	-	< 10	-	< 11.1
2-Acetylaminofluorene	ug/l	< 10	< 10	< 10	< 10	-	< 10	-	< 10
2-Chloro-1,3-butadiene	ug/l	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	ug/l	< 10	33	< 100	< 100	< 10	< 10	< 10	< 10
2-Methylnaphthalene	ug/l	< 10	< 10	< 10.8	< 10.2	-	< 10	-	< 10
2-Naphthylamine	ug/l	< 10	< 11.2	< 10.8	< 10.2	-	< 10	-	< 10
2-Picoline	ug/l	< 10	< 10	< 10	< 10	-	< 10	-	< 10
2-sec-Butyl-4,6-dinitrophenol	ug/l	< 10	< 11.2	< 10.8	< 10	-	< 10	-	< 10
3,3'-Dimethylbenzidine	ug/l	< 10	< 10	< 10	< 10	-	< 10	-	< 10
3-Methylcholanthrene	ug/l	< 6	< 6	< 6	< 6	-	< 6	-	< 6
3-chloropropene	ug/l	< 10	< 50	< 100	< 100	< 10	< 10	< 10	< 10
4-Aminobiphenyl	ug/l	< 10	< 10	< 10	< 10	-	< 10	-	< 10
4-Nitroquinoline-N-oxide	ug/l	IND	IND	IND	IND	-	IND	-	IND
5-Nitro-o-toluidine	ug/l	< 10	< 10	< 10	< 10	-	< 10.4	-	< 11.1
7,12-Dimethylbenzo(a)anthracen	ug/l	< 10	< 10	< 10	< 10	-	< 10	-	< 10
Acetone	ug/l	468	607	398	883	< 10	< 10	< 10	< 10
Acetonitrile	ug/l	< 30	< 30	51.2	1560	< 20	< 20	< 20	4.2
Acetophenone	ug/l	< 10	< 10	< 10	< 10	-	< 10	-	< 10
Aniline	ug/l	< 10	< 10	706	< 10.2	-	< 10	-	< 10
Aramite	ug/l	< 10	< 10	< 10	< 10	-	< 10	-	< 10
Benzyl alcohol	ug/l	< 10	< 10	< 10	< 10.2	-	< 10	-	< 10
Carbon disulfide	ug/l	4.8	< 50	< 100	< 100	< 10	< 10	< 10	< 10
Depth to Groundwater	Feet	-	12.10	7.70	4.75	-	-	-	5.23
Diallate	ug/l	< 10	< 10	< 10	< 10	-	< 10	-	< 10
Dibenzofuran	ug/l	< 10	< 10	4.0	< 10.2	-	< 10	-	< 11.1
Dibromomethane	ug/l	< 10	< 50	< 100	< 100	< 10	< 10	< 10	< 10
Diphenylamine	ug/l	< 10	< 10	< 10	< 10	-	< 10	-	< 10
Ending Sample Depth	Feet	-	-	29	-	-	-	-	-
Ethyl cyanide	ug/l	< 80	< 80	< 80	< 100	< 40	< 40	< 40	< 40
Ethyl methacrylate	ug/l	< 10	< 50	< 100	< 100	< 10	< 10	< 10	< 10
Ethyl methanesulfonate	ug/l	< 10	< 10	< 10	< 10	-	< 10	-	< 10
Hexachlorophene	ug/l	< 10	< 10	< 10	< 10	-	< 10	-	< 10
Hexachloropropene	ug/l	< 10	< 10	< 10	< 10.2	-	< 10	-	< 10
Iodomethane	ug/l	< 10	< 50	< 100	< 100	< 10	< 10	< 10	< 10
Isobutyl alcohol	ug/l	< 460	< 460	< 460	2460	< 200	< 200	< 230	12
Isodrin	ug/l	< 7	< 7	< 6	< 6	-	< 6	-	< 7

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

		Sample Points, Sampling Dates, and ETC Sample No.'s							
Parameters	*Units*	X GWDUP02 911205 HA6549	W G342 911205 HA6550	W G344 911205 HA6551	W G332 911205 HA6554	X 911205TB 911205 HA6592	X GWFB02 911206 HA6584	X 911206TB 911206 HA6593	W G343 911209 HA6552
Isosafrole	ug/l	< 10	< 10	< 10	< 10	-	< 10	-	< 10
Methacrylonitrile	ug/l	< 200	< 200	< 200	< 300	< 100	< 100	< 100	< 100
Methapyrilene	ug/l	IND	IND	IND	IND	-	IND	-	IND
Methyl ethyl ketone	ug/l	78.9	< 50	< 100	< 100	< 10	< 10	< 10	< 10
Methyl methacrylate	ug/l	< 10	< 50	< 100	< 100	< 10	< 10	< 10	< 10
Methyl methanesulfonate	ug/l	< 10	< 10	< 10	< 10	-	< 10	-	< 10
Methyl-iso-butyl ketone	ug/l	824	861	1150	52	< 10	< 10	< 10	< 10
N-Nitrosodi-n-butylamine	ug/l	< 10	< 10	< 10.8	< 10.2	-	< 10	-	< 10
N-Nitrosodiethylamine	ug/l	< 10	< 10	< 10	< 10	-	< 10	-	< 10
N-Nitrosomethylethylamine	ug/l	< 10	< 10	< 10	< 10.2	-	< 10	-	< 10
N-Nitrosomorpholine	ug/l	< 10	< 10	< 10	< 10.2	-	< 10	-	< 10
N-Nitrosopiperidine	ug/l	< 10	< 11.2	< 10	< 10	-	< 10	-	< 10
N-Nitrosopyrrolidine	ug/l	< 10	< 10	< 10	< 10.2	-	< 10.4	-	< 11.1
Pentachlorobenzene	ug/l	< 10	< 10	< 10	< 10	-	< 10	-	< 10
Pentachloroethane	ug/l	ND	ND	ND	ND	ND	ND	ND	ND
Pentachloronitrobenzene	ug/l	< 10	< 10	< 10	< 10	-	< 10	-	< 10
Phenacetin	ug/l	< 10	< 10	< 10	< 10	-	< 10	-	< 10
Pronamide	ug/l	< 10	< 10	< 10	< 10	-	< 10	-	< 10
Pyridine	ug/l	< 10	< 10	4.6	93.0	-	< 10	-	< 10
Safrole	ug/l	< 10	< 10	< 10	< 10	-	< 10	-	< 10
Styrene	ug/l	< 10	< 50	< 100	< 100	< 10	< 10	< 10	< 10
Tetraethyldithiopyrophosphate	ug/l	ND	ND	ND	ND	-	ND	-	ND
Unable to Sample	CODE	-	-	-	-	-	-	-	-
Vinyl acetate	ug/l	< 10	< 50	< 100	< 100	< 10	< 10	< 10	< 10
m+p-Cresols	ug/l	6.7	< 10	37.6	6.0	-	< 10	-	5.5
m-Dinitrobenzene	ug/l	< 10	< 10	< 10	< 10	-	< 10	-	< 10
m-Nitroaniline	ug/l	< 10	< 10	< 10	< 10	-	< 10	-	< 10
m-Xylene	ug/l	< 10	< 50	141	23	< 10	< 10	< 10	< 10
m-phenylenediamine	ug/l	< 10	< 10	< 10	< 10.2	-	< 10	-	< 10
o+p-Xylenes	ug/l	< 10	< 50	130	23	< 10	< 10	< 10	< 10
o-Cresol	ug/l	< 10	< 10	36.0	< 10	-	< 10	-	5.2
o-Nitroaniline	ug/l	< 10	< 10	< 10	< 10	-	< 10	-	< 10
o-Toluidine	ug/l	< 10	< 10	< 10	< 10	-	< 10	-	< 10
o-phenylenediamine	ug/l	< 10	< 10	< 10.8	< 10.2	-	< 10	-	< 10
p-Chloroaniline	ug/l	< 10	< 11.2	4120	11.6	-	< 10	-	< 10
p-Dimethylaminoazobenzene	ug/l	< 10	< 10	< 10	< 10	-	< 10	-	< 10
p-Nitroaniline	ug/l	< 10	< 10	< 10	< 10	-	< 10	-	< 10

Footnotes: BMDL=Below Method Detection Limit ND=Paremeter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		X GWDUP02 911205 HA6549	W G342 911205 HA6550	W G344 911205 HA6551	W G332 911205 HA6554	X 911205TB 911205 HA6592	X GWFB02 911206 HA6584	X 911206TB 911206 HA6593	W G343 911209 HA6552
p-phenylenediamine	ug/l	< 10	< 10	< 10	< 10.2	-	< 10	-	< 10
sym-Trinitrobenzene	ug/l	IND	IND	IND	IND	-	IND	-	IND

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below				See Below
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*
	WASTE MANAGEMENT, INC.	705		

Parameters	*Units*	W G347 911209 HA6553	W G305 911209 HA6556	W G348 911209 HA6562	X FG-15GW 911209 HA6563	W G330 911209 HA6564	W G303 911209 HA6569	W G349 911209 HA6570	X GWFB03 911209 HA6585
		Sample Points, Sampling Dates, and ETC Sample No.'s							
Priority Poll. Volatiles GC/MS									
Acrolein	ug/l	< 20	< 20	< 200	< 100	< 20	< 20	< 50	< 20
Acrylonitrile	ug/l	< 10	< 10	< 100	< 50	< 10	< 10	< 30	< 10
Benzene	ug/l	< 4	< 4	119	482	37.6	< 4	132	< 4
Bromoform	ug/l	< 5	< 5	< 10	< 200	< 5	< 5	< 100	< 5
Carbon tetrachloride	ug/l	< 3	< 3	< 7	< 100	< 3	< 3	< 70	< 3
Chlorobenzene	ug/l	< 6	< 6	< 15.0	< 300	< 6.00	< 6	< 150	< 6
Chlorodibromomethane	ug/l	< 3	< 3	< 8	< 200	< 3	< 3	< 80	< 3
Chloroethane	ug/l	< 10	< 10	< 30	< 500	< 10	< 10	< 300	< 10
2-Chloroethylvinyl ether	ug/l	-	-	-	-	-	-	-	-
Chloroform	ug/l	< 2	< 2	< 4	< 80	< 2	< 2	< 40	< 2
Dichlorobromomethane	ug/l	< 2	< 2	< 6	< 100	< 2	< 2	< 50	< 2
Dichlorodifluoromethane	ug/l	< 10	< 10	< 30	< 500	< 10	< 10	< 300	< 10
1,1-Dichloroethane	ug/l	< 5	< 5	< 11.8	< 200	11.4	< 5	< 100	< 5
1,2-Dichloroethane	ug/l	< 3	< 3	66.2	< 100	< 3	< 3	< 70	< 3
1,1-Dichloroethylene	ug/l	< 3	< 3	43.4	2430	237	< 3	< 70	< 3
1,2-Dichloropropane	ug/l	< 6	< 6	< 20	< 300	< 6	< 6	< 200	< 6
cis-1,3-Dichloropropylene	ug/l	< 5	< 5	< 10	< 300	< 5	< 5	< 100	< 5
Ethylbenzene	ug/l	< 7	< 7	41.7	< 400	< 7.20	< 7	800	< 7
Methyl bromide	ug/l	< 10	< 10	< 30	< 500	< 10	< 10	< 300	< 10
Methyl chloride	ug/l	< 10	< 10	< 30	< 500	< 10	< 10	< 300	< 10
Methylene chloride	ug/l	< 3	15.0	< 7.00	764	< 3	< 3	< 70	< 3
1,1,2,2-Tetrachloroethane	ug/l	< 7	< 7	< 20	< 300	< 7	< 7	< 200	< 7
Tetrachloroethylene	ug/l	< 4	< 4	< 10	< 200	< 4	< 4	326	< 4
Toluene	ug/l	< 6	< 6	108	2820	39.1	< 6	1500	< 6
1,2-Trans-dichloroethylene	ug/l	< 2	< 2	< 4	< 80	61.9	< 2	< 40	< 2
1,1,1-Trichloroethane	ug/l	< 4	< 4	18.0	< 200	< 4	< 4	< 100	< 4
1,1,2-Trichloroethane	ug/l	< 5	6.18	40.8	< 300	< 5	< 5	< 100	< 5
Trichloroethylene	ug/l	< 2	< 2	< 5	< 100	7.11	< 2	< 50	< 2
Trichlorofluoromethane	ug/l	< 10	< 10	< 30	< 500	< 10	< 10	< 300	< 10
Vinyl chloride	ug/l	< 10	< 10	32.5	< 500	80.5	< 10	< 300	< 10
trans-1,3-Dichloropropylene	ug/l	< 10	< 10	< 30	< 500	< 10	< 10	< 300	< 10

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below				See Below	
ETC Sample No.	WASTE MANAGEMENT, INC.	*Company*	705 *Facility*	*Sample Point*	*Date*

Parameters	*Units*	W G347 911209 HA6553	W G305 911209 HA6556	W G348 911209 HA6562	X FG-15GW 911209 HA6563	W G330 911209 HA6564	W G303 911209 HA6569	W G349 911209 HA6570	X GWFB03 911209 HA6585
Sample Points, Sampling Dates, and ETC Sample No.'s									
Priority Poll. Acids GC/MS									
2-Chlorophenol	ug/l	< 3	< 4	1590	8.21	37.5	< 3	52.1	< 3
2,4-Dichlorophenol	ug/l	< 3	< 3	635	458	53.2	< 3	294	< 3
2,4-Dimethylphenol	ug/l	< 3	< 3	< 3	< 2.76	1.1	< 3	< 2.81	< 3
4,6-Dinitro-o-cresol	ug/l	< 20	< 30	< 20	< 20	< 20	< 30	< 30	< 20
2,4-Dinitrophenol	ug/l	< 40	< 50	< 40	< 40	< 40	< 40	< 40	< 40
2-Nitrophenol	ug/l	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
4-Nitrophenol	ug/l	< 2	< 3	< 2	< 2	< 2	< 3	< 3	< 2
p-Chloro-m-cresol	ug/l	< 3	< 4	< 3	< 3	< 3	< 3	< 3	< 3
Pentachlorophenol	ug/l	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
Phenol	ug/l	< 2	< 2	25.1	90.0	77.9	< 2	547	< 2
2,4,6-Trichlorophenol	ug/l	< 3	< 3	14.5	35.6	< 2.76	< 3	6.50	< 3
Priority Poll. B/Ns GC/MS									
Acenaphthene	ug/l	< 2	< 2	< 2	< 1.94	< 1.94	< 2	< 1.98	< 2
Acenaphthylene	ug/l	< 4	< 4	< 4	< 3.57	< 4	< 4	< 4	< 4
Anthracene	ug/l	< 2	< 2	< 2	< 2	< 1.94	< 2	< 2	< 2
Benzo(a)anthracene	ug/l	< 8	< 10	< 8	< 8	< 8	< 8	< 8	< 8
Benzo(a)pyrene	ug/l	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Benzo(b)fluoranthene	ug/l	< 5	< 6	< 5	< 5	< 5	< 5	< 5	< 5
Benzo(ghi)perylene	ug/l	< 4	< 5	< 4	< 4	< 4	< 4	< 4	< 4
Benzo(k)fluoranthene	ug/l	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
bis(2-Chloroethoxy)methane	ug/l	< 5	< 7	< 5	< 5	< 5	< 6	< 6	< 5
bis(2-Chloroethyl) ether	ug/l	< 6	< 7	< 6	< 6	< 6	< 6	< 6	< 6
bis(2-Chloroisopropyl)ether	ug/l	< 6	< 7	< 6	< 5.82	< 5.82	< 6	< 5.94	< 6
bis(2-Ethylhexyl)phthalate	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-Bromophenyl phenyl ether	ug/l	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Butyl benzyl phthalate	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Chloronaphthalene	ug/l	< 2	< 2	< 2	< 1.94	< 2	< 2	< 2	< 2
4-Chlorophenyl phenyl ether	ug/l	< 4	< 5	< 4	< 4	< 4	< 4	< 4	< 4
Chrysene	ug/l	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Dibenzo(a,h)anthracene	ug/l	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
1,2-Dichlorobenzene	ug/l	< 2	< 2	3.32	6.64	< 1.94	< 2	< 1.98	< 2
1,3-Dichlorobenzene	ug/l	< 2	< 2	< 2	< 1.94	< 1.94	< 2	< 1.98	< 2

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below				See Below	
ETC Sample No.	WASTE MANAGEMENT, INC.	*Company*	705 *Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		W G347 911209 HA6553	W G305 911209 HA6556	W G348 911209 HA6562	X FG-15GW 911209 HA6563	W G330 911209 HA6564	W G303 911209 HA6569	W G349 911209 HA6570	X GWFB03 911209 HA6585
1,4-Dichlorobenzene	ug/l	< 5	< 5	< 4	< 4.49	< 4.49	< 5	< 4.58	< 4
3,3'-Dichlorobenzidine	ug/l	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Diethyl phthalate	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Dimethyl phthalate	ug/l	< 10	< 10	< 10	< 10.2	< 10.2	< 10	< 10.4	< 10
Di-n-butyl phthalate	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2,4-Dinitrotoluene	ug/l	< 6	< 7	< 6	< 5.82	< 6	< 6	< 6	< 6
2,6-Dinitrotoluene	ug/l	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Di-n-octyl phthalate	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Fluoranthene	ug/l	< 2	< 3	< 2	< 2	< 2	< 2	< 2	< 2
Fluorene	ug/l	< 1.96	< 2	< 2	< 1.94	< 1.94	< 1.98	< 1.98	< 1.94
Hexachlorobenzene	ug/l	< 2	< 2	< 2	10.3	< 2	< 2	< 2	< 2
Hexachlorobutadiene	ug/l	< .9	< 1	< .9	< .9	< .9	< .9	< .9	< .9
Hexachlorocyclopentadiene	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Hexachloroethane	ug/l	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Indeno(1,2,3-c,d)pyrene	ug/l	< 4	< 5	< 4	< 4	< 4	< 4	< 4	< 4
Isophorone	ug/l	< 2.27	< 3	< 2	< 2.24	< 2.24	< 2	< 2.29	< 2
Naphthalene	ug/l	< 2	< 2	25.0	46.3	5.99	< 1.67	62.1	< 2
Nitrobenzene	ug/l	< 2	< 2	< 2	< 1.94	< 1.94	< 2	< 1.98	< 2
N-Nitrosodimethylamine	ug/l	< 10.3	< 12.3	< 10	< 10.2	< 10.2	< 10.4	< 10.4	< 10
N-Nitrosodi-n-propylamine	ug/l	< 10.3	< 12.3	< 10	< 10.2	< 10.2	< 10.4	< 10.4	< 10.2
N-Nitrosodiphenylamine	ug/l	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Phenanthrene	ug/l	< 6	< 7	< 6	< 6	< 5.51	< 6	< 6	< 6
Pyrene	ug/l	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,2,4-Trichlorobenzene	ug/l	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Metals Analysis Data									
Antimony	ug/l	< 60	< 60	< 60	< 60	< 60	< 60	< 60	14
Arsenic	ug/l	6.4	5.4	7.5	2.0	6.4	3.1	15	< 10
Barium	ug/l	180	54	110	420	41	50	91	< 20
Beryllium	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cadmium	ug/l	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Chromium	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	2.6
Cobalt	ug/l	< 20	26	< 20	< 20	< 20	< 20	< 20	< 20
Copper	ug/l	< 10	< 10	< 10	8.5	< 10	< 10	< 10	5.8
Lead	ug/l	< 5.0	< 5.0	1.3	2.0	1.7	4.4	2.2	< 5.0
Mercury	ug/l	< .20	< .20	< .20	< .20	< .20	< .20	.14	< .20

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below — *ETC Sample No.* | WASTE MANAGEMENT, INC. — *Company* | 705 — *Facility* | See Below — *Sample Point* | *Date*

Parameters	Units	W G347 911209 HA6553	W G305 911209 HA6556	W G348 911209 HA6562	X FG-15GW 911209 HA6563	W G330 911209 HA6564	W G303 911209 HA6569	W G349 911209 HA6570	X GWFB03 911209 HA6585
Nickel	ug/l	< 20	< 20	5.9	48	7.2	< 20	8.7	< 20
Selenium	ug/l	< 5.0	< 5.0	2.9	9.0	< 5.0	< 5.0	3.4	< 5.0
Silver	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Thallium	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Tin	ug/l	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Vanadium	ug/l	< 20	< 20	< 20	< 20	< 20	< 20	29	< 20
Zinc	ug/l	< 20	< 20	< 20	< 20	< 20	< 20	< 20	7.0
Field Parameters									
pH (Field)	std	7.64	7.33	8.30	12.95	8.54	7.67	10.65	7.40
pH (Field)	std	7.64	7.33	8.27	12.98	8.55	7.65	10.64	7.03
pH (Field)	std	7.65	7.33	8.27	12.99	8.56	7.71	10.64	7.67
pH (Field)	std	7.65	7.34	8.29	13.01	8.56	7.69	10.62	7.21
Specific Conductance (Field)	um/cm	1560	3060	3720	10200	1710	798	2560	2.84
Specific Conductance (Field)	um/cm	1560	3040	3730	10200	1740	790	2560	2.85
Specific Conductance (Field)	um/cm	1560	3030	3710	10200	1760	796	2540	2.84
Specific Conductance (Field)	um/cm	1560	3060	3690	10200	1730	792	2570	2.85
Groundwater Elevation	Feet	586.63	581.79	586.46	-	584.02	582.46	587.25	-
Temperature	Deg. C	14.5	12.9	11.5	11.7	13.3	13.4	11.6	-
Well Depth	Feet	13.45	16.27	10.53	-	19.57	15.60	13.15	-
Sample Depth	Feet	-	-	-	9	-	-	-	-
Well Elevation	Feet	592.20	591.39	592.89	-	592.83	592.71	593.42	-
Stick-Up	Feet	2.43	2.34	2.37	-	2.83	2.13	2.40	-
Miscellaneous Parameters									
1,1,1,2-Tetrachloroethane	ug/l	< 10	< 10	< 30	< 500	< 10	< 10	< 300	< 10
1,2,3-Trichloropropane	ug/l	< 10	< 10	< 30	< 500	< 10	< 10	< 300	< 10
1,2,4,5-Tetrachlorobenzene	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
1,2-Dibromo-3-chloropropane	ug/l	< 10	< 10	< 30	< 500	< 10	< 10	< 300	< 10
1,2-Dibromoethane	ug/l	< 10	< 10	< 30	< 500	< 10	< 10	< 300	< 10
1,4-Dichloro-2-butene	ug/l	< 10	< 10	< 30	< 500	< 10.0	< 10	< 300	< 10
1,4-Dioxane	ug/l	< 300	< 300	< 3000	< 2000	38	< 300	< 800	< 300
1,4-Naphthoquinone	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
1-Naphthylamine	ug/l	< 10.3	< 10	< 10	< 10	< 10.2	< 10	< 10.4	< 10
2,3,4,6-Tetrachlorophenol	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below				See Below	
ETC Sample No.	WASTE MANAGEMENT, INC. *Company*	705 *Facility*		*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		W G347 911209 HA6553	W G305 911209 HA6556	W G348 911209 HA6562	X FG-15GW 911209 HA6563	W G330 911209 HA6564	W G303 911209 HA6569	W G349 911209 HA6570	X GWFB03 911209 HA6585
2,4,5-Trichlorophenol	ug/l	< 10	< 10	26.8	< 10.2	< 10.2	< 10	< 10.4	< 10
2,6-Dichlorophenol	ug/l	< 10	< 10	< 10	< 10.2	< 10.2	< 10	< 10.4	< 10
2-Acetylaminofluorene	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Chloro-1,3-butadiene	ug/l	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	ug/l	< 10	< 10	< 30	< 500	< 10	< 10	< 300	< 10
2-Methylnaphthalene	ug/l	< 10	< 10	3.8	12.7	< 10.2	< 10	< 10.4	< 10
2-Naphthylamine	ug/l	< 10.3	< 10	< 10	< 10	< 10.2	< 10	< 10.4	< 10
2-Picoline	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-sec-Butyl-4,6-dinitrophenol	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
3,3'-Dimethylbenzidine	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
3-Methylcholanthrene	ug/l	< 6	< 7	< 6	< 6	< 6	< 6	< 6	< 6
3-chloropropene	ug/l	< 10	< 10	< 30	< 500	< 10	< 10	< 300	< 10
4-Aminobiphenyl	ug/l	< 10	< 10	< 10	< 10.2	< 10	< 10	< 10	< 10
4-Nitroquinoline-N-oxide	ug/l	IND	IND	IND	IND	IND	IND	IND	IND
5-Nitro-o-toluidine	ug/l	< 10.3	< 10	< 10	< 10	< 10.2	< 10.4	< 10	< 10.2
7,12-Dimethylbenzo(a)anthracen	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acetone	ug/l	< 10	< 10	< 30	< 500	< 10	< 10	< 300	< 10
Acetonitrile	ug/l	< 20	< 20	< 150	140	25.5	< 20	101	< 20
Acetophenone	ug/l	< 10	< 10	< 10	11.8	< 10.2	< 10	7.1	< 10
Aniline	ug/l	< 10	< 10	2960	< 10	< 10	< 10	128	< 10
Aramite	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Benzyl alcohol	ug/l	< 10	< 10	< 10	< 10.2	< 10	< 10	< 10	< 10
Carbon disulfide	ug/l	< 10	< 10	< 30	< 500	< 10	< 10	< 300	< 10
Depth to Groundwater	Feet	5.57	9.60	6.43	-	8.81	10.25	6.17	-
Diallate	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Dibenzofuran	ug/l	< 10	< 10	< 10	< 10.2	< 10.2	< 10	< 10	< 10
Dibromomethane	ug/l	< 10	< 10	< 30	< 500	< 10	< 10	< 300	< 10
Diphenylamine	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Ending Sample Depth	Feet	-	-	-	11.5	-	-	-	-
Ethyl cyanide	ug/l	< 40	< 40	< 400	< 200	< 40	< 40	< 100	< 40
Ethyl methacrylate	ug/l	< 10	< 10	< 30	< 500	< 10	< 10	< 300	< 10
Ethyl methanesulfonate	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Hexachlorophene	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Hexachloropropene	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Iodomethane	ug/l	< 10	< 10	< 30	< 500	< 10	< 10	< 300	< 10
Isobutyl alcohol	ug/l	< 200	< 200	< 2300	< 1150	< 230	< 230	< 575	< 200
Isodrin	ug/l	< 6	< 7	< 6	< 6	< 6	< 6	< 6	< 6

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below — ETC Sample No. | WASTE MANAGEMENT, INC. — Company | 705 — Facility | See Below — Sample Point | See Below — Date

Parameters	Units	W G347 911209 HA6553	W G305 911209 HA6556	W G348 911209 HA6562	X FG-15GW 911209 HA6563	W G330 911209 HA6564	W G303 911209 HA6569	W G349 911209 HA6570	X GWFB03 911209 HA6585
		Sample Points, Sampling Dates, and ETC Sample No.'s							
Isosafrole	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methacrylonitrile	ug/l	< 100	< 100	< 1000	< 600	< 100	< 100	< 300	< 100
Methapyrilene	ug/l	IND	IND	IND	IND	IND	IND	IND	IND
Methyl ethyl ketone	ug/l	< 10	< 10	< 30	< 500	< 10	< 10	< 300	< 10
Methyl methacrylate	ug/l	< 10	< 10	< 30	< 500	< 10.0	< 10	< 300	< 10
Methyl methanesulfonate	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methyl-iso-butyl ketone	ug/l	< 10	< 10	171	< 500	14.1	< 10	337	< 10
N-Nitrosodi-n-butylamine	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
N-Nitrosodiethylamine	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
N-Nitrosomethylethylamine	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
N-Nitrosomorpholine	ug/l	< 10.3	< 12.3	< 10	< 10.2	< 10	< 10.4	< 10	< 10.2
N-Nitrosopiperidine	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
N-Nitrosopyrrolidine	ug/l	< 10	< 10	< 10	< 10	< 10	< 10.4	< 10	< 10
Pentachlorobenzene	ug/l	< 10	< 10	< 10	2.6	< 10	< 10	< 10	< 10
Pentachloroethane	ug/l	ND	ND	ND	ND	ND	ND	ND	ND
Pentachloronitrobenzene	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Phenacetin	ug/l	< 10.3	< 10	< 10	< 10	< 10	< 10.4	< 10	< 10
Pronamide	ug/l	< 10	< 10	< 10	< 10.2	< 10	< 10	< 10	< 10
Pyridine	ug/l	< 10	< 10	5.3	< 10.2	21.5	< 10	1.2	< 10
Safrole	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Styrene	ug/l	< 10	< 10	< 30	< 500	< 10	< 10	1980	< 10
Tetraethyldithiopyrophosphate	ug/l	ND	ND	ND	ND	ND	ND	ND	ND
Unable to Sample	CODE	-	-	-	-	-	-	-	-
Vinyl acetate	ug/l	< 10	< 10	< 30	< 500	< 10	< 10	< 300	< 10
m+p-Cresols	ug/l	< 10	< 10	9.7	13.5	78.8	< 10	81.5	< 10
m-Dinitrobenzene	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
m-Nitroaniline	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
m-Xylene	ug/l	< 10	< 10	98.4	< 500	< 10.0	< 10.0	1260	< 10
m-phenylenediamine	ug/l	< 10	< 10	< 10	< 10.2	< 10	< 10	< 10	< 10
o+p-Xylenes	ug/l	< 10	< 10	77.5	< 500	12.1	< 10.0	1090	< 10
o-Cresol	ug/l	< 10	< 10	< 10	< 10.2	2.5	< 10	11.9	< 10
o-Nitroaniline	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
o-Toluidine	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
o-phenylenediamine	ug/l	< 10	< 10	< 10	< 10.2	< 10	< 10	< 10	< 10
p-Chloroaniline	ug/l	< 10	< 10	6860	< 10.2	< 10.2	< 10	39.5	< 10
p-Dimethylaminoazobenzene	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
p-Nitroaniline	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		W G347 911209 HA6553	W G305 911209 HA6556	W G348 911209 HA6562	X FG-15GW 911209 HA6563	W G330 911209 HA6564	W G303 911209 HA6569	W G349 911209 HA6570	X GWFB03 911209 HA6585
p-phenylenediamine	ug/l	< 10	< 10	< 10	< 10.2	< 10	< 10	< 10	< 10
sym-Trinitrobenzene	ug/l	IND	IND	IND	IND	IND	IND	IND	IND

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below — *ETC Sample No.* | WASTE MANAGEMENT, INC. — *Company* | 705 — *Facility* | See Below — *Sample Point* / *Date*

Parameters	Units	X 911209TB 911209 HA6594	W G308 911210 HA6558	W G337 911209 HA6561	W G324 911210 HA6566	W G302 911210 HA6567	W G318 911210 HA6568	X 911210TB 911210 HA6595	X FG-16GW 911211 HA6546
Priority Poll. Volatiles GC/MS									
Acrolein	ug/l	< 20	< 20	< 20	< 20	< 20	< 20	< 20	-
Acrylonitrile	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-
Benzene	ug/l	< 4	34.2	< 4	18.3	40.9	< 4	< 4	-
Bromoform	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	-
Carbon tetrachloride	ug/l	< 3	< 3	< 3	< 3	< 3	< 3	< 3	-
Chlorobenzene	ug/l	< 6	< 6.00	< 6	27.3	15.2	< 6	< 6	-
Chlorodibromomethane	ug/l	< 3	< 3	< 3	< 3	< 3	< 3	< 3	-
Chloroethane	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-
2-Chloroethylvinyl ether	ug/l	-	-	-	-	-	-	-	-
Chloroform	ug/l	< 2	< 2	< 2	< 2	< 2	< 2	< 2	-
Dichlorobromomethane	ug/l	< 2	< 2	< 2	< 2	< 2	< 2	< 2	-
Dichlorodifluoromethane	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-
1,1-Dichloroethane	ug/l	< 5	7.71	< 5	< 5	< 5	< 5	< 5	-
1,2-Dichloroethane	ug/l	< 3	9.79	< 3	< 3	< 3	< 3	< 3	-
1,1-Dichloroethylene	ug/l	< 3	2.7	< 3	< 3	< 3	< 3	< 3	-
1,2-Dichloropropane	ug/l	< 6	< 6	< 6	< 6	< 6	< 6	< 6	-
cis-1,3-Dichloropropylene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	-
Ethylbenzene	ug/l	< 7	< 7	< 7	< 7	< 7	< 7	< 7	-
Methyl bromide	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-
Methyl chloride	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-
Methylene chloride	ug/l	< 3	9.56	< 3	< 2.80	< 3	< 3	< 3	-
1,1,2,2-Tetrachloroethane	ug/l	< 7	< 7	< 7	< 7	< 7	< 7	< 7	-
Tetrachloroethylene	ug/l	< 4	< 4	< 4	< 4	< 4	< 4	< 4	-
Toluene	ug/l	< 6	27.9	< 6	6.53	< 6	< 6	< 6	-
1,2-Trans-dichloroethylene	ug/l	< 2	< 2	< 2	< 2	< 2	< 2	< 2	-
1,1,1-Trichloroethane	ug/l	< 4	< 4	< 4	< 4	< 4	< 4	< 4	-
1,1,2-Trichloroethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	-
Trichloroethylene	ug/l	< 2	< 2	< 2	< 2	< 2	< 2	< 2	-
Trichlorofluoromethane	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-
Vinyl chloride	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-
trans-1,3-Dichloropropylene	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		X 9112091B 911209 HA6594	W G308 911210 HA6558	W G337 911209 HA6561	W G324 911210 HA6566	W G302 911210 HA6567	W G318 911210 HA6568	X 9112101B 911210 HA6595	X FG-16GW 911211 HA6546
Priority Poll. Acids GC/MS									
2-Chlorophenol	ug/l	-	73.8	< 3	5.20	< 3.33	< 4	-	-
2,4-Dichlorophenol	ug/l	-	1280	< 3	< 2.84	< 2.73	< 4	-	-
2,4-Dimethylphenol	ug/l	-	77.9	< 3	< 2.84	< 3	< 4	-	-
4,6-Dinitro-o-cresol	ug/l	-	< 20	< 30	< 30	< 20	< 30	-	-
2,4-Dinitrophenol	ug/l	-	< 40	< 40	< 40	< 40	< 60	-	-
2-Nitrophenol	ug/l	-	< 4	< 4	< 4	< 4	< 5	-	-
4-Nitrophenol	ug/l	-	< 2	< 3	< 3	< 2	< 3	-	-
p-Chloro-m-cresol	ug/l	-	< 3.09	< 3	< 3	< 3	< 4	-	-
Pentachlorophenol	ug/l	-	< 4	< 4	< 4	< 4	< 5	-	-
Phenol	ug/l	-	553	< 2	59.5	< 2	< 2	-	-
2,4,6-Trichlorophenol	ug/l	-	26.2	< 3	< 3	< 3	< 4	-	-
Priority Poll. B/Ns GC/MS									
Acenaphthene	ug/l	-	14.4	< 1.98	4.64	< 2	< 3	-	-
Acenaphthylene	ug/l	-	< 4	< 4	< 4	< 4	< 5	-	-
Anthracene	ug/l	-	< 1.96	< 1.98	< 2.00	< 2	< 3	-	-
Benzo(a)anthracene	ug/l	-	< 8.04	< 8	< 8	< 8	< 10	-	-
Benzo(a)pyrene	ug/l	-	< 3	< 3	< 3	< 3	< 3	-	-
Benzo(b)fluoranthene	ug/l	-	< 5	< 5	< 5	< 5	< 6	-	-
Benzo(ghi)perylene	ug/l	-	< 4	< 4	< 4	< 4	< 5	-	-
Benzo(k)fluoranthene	ug/l	-	< 3	< 3	< 3	< 3	< 3	-	-
bis(2-Chloroethoxy)methane	ug/l	-	< 5	< 6	< 5.58	< 5	< 7	-	-
bis(2-Chloroethyl) ether	ug/l	-	< 5.88	< 6	< 6.00	< 6	< 8	-	-
bis(2-Chloroisopropyl)ether	ug/l	-	< 5.88	< 6	< 6.00	< 6	< 8	-	-
bis(2-Ethylhexyl)phthalate	ug/l	-	< 10	< 10	< 10	< 10	< 10	-	-
4-Bromophenyl phenyl ether	ug/l	-	< 2	< 2	< 2	< 2	< 3	-	-
Butyl benzyl phthalate	ug/l	-	< 10	< 10	< 10	< 10	< 10	-	-
2-Chloronaphthalene	ug/l	-	< 1.96	< 2	< 2	< 2	< 3	-	-
4-Chlorophenyl phenyl ether	ug/l	-	< 4	< 4	< 4	< 4	< 6	-	-
Chrysene	ug/l	-	< 2.58	< 3	< 3	< 3	< 3	-	-
Dibenzo(a,h)anthracene	ug/l	-	< 3	< 3	< 3	< 3	< 3	-	-
1,2-Dichlorobenzene	ug/l	-	< 2	< 2	< 2	< 2	< 3	-	-
1,3-Dichlorobenzene	ug/l	-	< 2	< 2	< 2	< 2	< 3	-	-

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		X 911209TB 911209 HA6594	W G308 911210 HA6558	W G337 911209 HA6561	W G324 911210 HA6566	W G302 911210 HA6567	W G318 911210 HA6568	X 911210TB 911210 HA6595	X FG-T6GW 911211 HA6546
1,4-Dichlorobenzene	ug/l	-	< 5	< 5	< 5	< 4	< 6	-	-
3,3'-Dichlorobenzidine	ug/l	-	< 20	< 20	< 20	< 20	< 20	-	-
Diethyl phthalate	ug/l	-	< 10	< 10	< 10	< 10	< 10	-	-
Dimethyl phthalate	ug/l	-	< 10.3	< 10	< 10.5	< 10	< 10	-	-
Di-n-butyl phthalate	ug/l	-	< 10	< 10	< 10	< 10	< 10	-	-
2,4-Dinitrotoluene	ug/l	-	< 6	< 6	< 6	< 6	< 8	-	-
2,6-Dinitrotoluene	ug/l	-	< 2	< 2	< 2	< 2	< 3	-	-
Di-n-octyl phthalate	ug/l	-	< 10	< 10	< 10	< 10	< 10	-	-
Fluoranthene	ug/l	-	6.23	< 2.29	< 2.32	< 2	< 3	-	-
Fluorene	ug/l	-	9.78	< 1.98	2.80	< 1.92	< 2.53	-	-
Hexachlorobenzene	ug/l	-	< 2	< 2	< 2	< 2	< 3	-	-
Hexachlorobutadiene	ug/l	-	< .9	< .9	< .9	< .9	< 1	-	-
Hexachlorocyclopentadiene	ug/l	-	< 10	< 10	< 10	< 10	< 10	-	-
Hexachloroethane	ug/l	-	< 2	< 2	< 2	< 2	< 2	-	-
Indeno(1,2,3-c,d)pyrene	ug/l	-	< 4	< 4	< 4	< 4	< 5	-	-
Isophorone	ug/l	-	< 2.27	< 2.29	< 2.32	< 2.22	< 2.93	-	-
Naphthalene	ug/l	-	85.6	< 2	16.7	< 1.62	< 2.13	-	-
Nitrobenzene	ug/l	-	< 1.96	< 2	< 2.00	< 1.92	< 2.53	-	-
N-Nitrosodimethylamine	ug/l	-	< 10.3	< 10.4	< 10.5	< 10	< 10	-	-
N-Nitrosodi-n-propylamine	ug/l	-	< 10.3	< 10.4	< 10.5	< 10.1	< 13.3	-	-
N-Nitrosodiphenylamine	ug/l	-	< 1.96	< 2	< 2	< 2	< 3	-	-
Phenanthrene	ug/l	-	22.9	< 5.63	4.8	< 5	< 7	-	-
Pyrene	ug/l	-	4.00	< 1.98	< 2.00	< 2	< 3	-	-
1,2,4-Trichlorobenzene	ug/l	-	< 2	< 2	< 2	< 2	< 3	-	-
Metals Analysis Data									
Antimony	ug/l	-	< 60	18	< 60	< 60	< 60	-	-
Arsenic	ug/l	-	130	7.8	6.3	< 10	19	-	-
Barium	ug/l	-	41	70	58	74	63	-	-
Beryllium	ug/l	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	-	-
Cadmium	ug/l	-	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	-	-
Chromium	ug/l	-	< 10	< 10	< 10	< 10	< 10	-	-
Cobalt	ug/l	-	< 20	< 20	< 20	< 20	< 20	-	-
Copper	ug/l	-	< 10	< 10	< 10	< 10	< 10	-	-
Lead	ug/l	-	2.2	2.0	< 5.0	< 5.0	< 5.0	-	-
Mercury	ug/l	-	< .20	1.2	.30	< .20	< .20	-	-

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	Units	Sample Points, Sampling Dates, and ETC Sample No's							
		X 911209TB 911209 HA6594	W G308 911210 HA6558	W G337 911209 HA6561	W G324 911210 HA6566	W G302 911210 HA6567	W G318 911210 HA6568	X 911210TB 911210 HA6595	X FG-16GW 911211 HA6546
Nickel	ug/l	-	30	< 20	18	5.3	4.5	-	-
Selenium	ug/l	-	1.0	< 5.0	2.4	1.3	< 5.0	-	-
Silver	ug/l	-	< 10	< 10	< 10	< 10	< 10	-	-
Thallium	ug/l	-	< 10	< 10	< 10	< 10	< 10	-	-
Tin	ug/l	-	< 50	< 50	< 50	< 50	< 50	-	-
Vanadium	ug/l	-	4.0	< 20	18	< 20	< 20	-	-
Zinc	ug/l	-	4.1	< 20	< 20	< 20	< 20	-	-
Field Parameters									
pH (Field)	std	-	9.97	7.48	11.66	10.53	7.68	-	-
pH (Field)	std	-	9.97	7.47	11.68	10.51	7.68	-	-
pH (Field)	std	-	9.96	7.49	11.68	10.51	7.69	-	-
pH (Field)	std	-	9.95	7.49	11.68	10.49	7.71	-	-
Specific Conductance (Field)	um/cm	-	1490	3100	2460	2090	2360	-	-
Specific Conductance (Field)	um/cm	-	1490	3090	2460	2090	2360	-	-
Specific Conductance (Field)	um/cm	-	1500	3090	2450	2070	2370	-	-
Specific Conductance (Field)	um/cm	-	1490	3110	2450	2100	2370	-	-
Groundwater Elevation	Feet	-	586.30	580.51	581.52	579.46	583.47	-	-
Temperature	Deg. C	-	12.1	12.6	11.7	12.0	13.0	-	-
Well Depth	Feet	-	15.95	14.98	17.75	17.95	18.98	-	-
Sample Depth	Feet	-	-	-	-	-	-	-	8
Well Elevation	Feet	-	593.26	591.99	593.39	593.64	595.08	-	-
Stick-Up	Feet	-	2.68	1.86	2.39	2.38	2.25	-	-
Miscellaneous Parameters									
1,1,1,2-Tetrachloroethane	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-
1,2,3-Trichloropropane	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-
1,2,4,5-Tetrachlorobenzene	ug/l	-	< 10	< 10	< 10	< 10	< 10	-	-
1,2-Dibromo-3-chloropropane	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-
1,2-Dibromoethane	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-
1,4-Dichloro-2-butene	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-
1,4-Dioxane	ug/l	< 300	< 300	< 300	< 300	< 300	< 300	< 300	-
1,4-Naphthoquinone	ug/l	-	< 10	< 10	< 10	< 10	< 10	-	-
1-Naphthylamine	ug/l	-	< 10.3	< 10	< 10.5	< 10.1	< 10	-	-
2,3,4,6-Tetrachlorophenol	ug/l	-	< 10	< 10	< 10	< 10	< 10	-	-

Footnotes: BMDL=Below Method Detection Limit NO=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	Units	X 911209TB 911209 HA6594	W G308 911210 HA6558	W G337 911209 HA6561	W G324 911210 HA6566	W G302 911210 HA6567	W G318 911210 HA6568	X 911210TB 911210 HA6595	X FG-16GW 911211 HA6546
		Sample Points, Sampling Dates, and ETC Sample No.'s							
2,4,5-Trichlorophenol	ug/l	-	2.9	< 10	< 10	< 10	< 10	-	-
2,6-Dichlorophenol	ug/l	-	< 10.3	< 10	< 10.5	< 10.1	< 10	-	-
2-Acetylaminofluorene	ug/l	-	< 10.3	< 10	< 10.5	< 10	< 10	-	-
2-Chloro-1,3-butadiene	ug/l	ND	ND	ND	ND	ND	ND	ND	-
2-Hexanone	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-
2-Methylnaphthalene	ug/l	-	8.9	< 10	3.5	< 10.1	< 10	-	-
2-Naphthylamine	ug/l	-	< 10.3	< 10	< 10.5	< 10.1	< 10	-	-
2-Picoline	ug/l	-	< 10	< 10	< 10	< 10	< 10	-	-
2-sec-Butyl-4,6-dinitrophenol	ug/l	-	< 10	< 10	< 10	< 10	< 10	-	-
3,3'-Dimethylbenzidine	ug/l	-	< 10	< 10	< 10	< 10	< 10	-	-
3-Methylcholanthrene	ug/l	-	< 6	< 6	< 6	< 6	< 7	-	-
3-chloropropene	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-
4-Aminobiphenyl	ug/l	-	< 10.3	< 10	< 10	< 10	< 10	-	-
4-Nitroquinoline-N-oxide	ug/l	-	IND	IND	IND	IND	IND	-	-
5-Nitro-o-toluidine	ug/l	-	< 10	< 10	< 10	< 10.1	< 10	-	-
7,12-Dimethylbenzo(a)anthracen	ug/l	-	< 10	< 10	< 10	< 10	< 10	-	-
Acetone	ug/l	< 10	< 10.0	< 10	< 10	< 10	< 10	< 10	-
Acetonitrile	ug/l	< 20	< 15.0	< 20	< 20	< 20	< 20	< 20	-
Acetophenone	ug/l	-	< 10	< 10	2.9	< 10.1	< 10	-	-
Aniline	ug/l	-	46.7	< 10	< 10	< 10	< 10	-	-
Aramite	ug/l	-	< 10	< 10	< 10	< 10	< 10	-	-
Benzyl alcohol	ug/l	-	< 10.3	< 10	< 10	< 10	< 10	-	-
Carbon disulfide	ug/l	< 10	15.1	< 10	< 10	< 10	< 10	< 10	-
Depth to Groundwater	Feet	-	6.96	11.48	11.87	14.18	11.61	-	-
Diallate	ug/l	-	< 10	< 10	< 10	< 10	< 10	-	-
Dibenzofuran	ug/l	-	6.4	< 10	< 10.5	< 10	< 10	-	-
Dibromomethane	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-
Diphenylamine	ug/l	-	< 10.3	< 10	< 10	< 10	< 10	-	-
Ending Sample Depth	Feet	-	-	-	-	-	-	-	11.5
Ethyl cyanide	ug/l	< 40	< 40	< 40.0	< 40	< 40	< 40	< 40	-
Ethyl methacrylate	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-
Ethyl methanesulfonate	ug/l	-	< 10	< 10	< 10	< 10	< 10	-	-
Hexachlorophene	ug/l	-	< 10	< 10	< 10	< 10	< 10	-	-
Hexachloropropene	ug/l	-	< 10	< 10	< 10	< 10	< 10	-	-
Iodomethane	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-
Isobutyl alcohol	ug/l	< 200	< 230	< 200	< 230	< 200	< 200	< 200	-
Isodrin	ug/l	-	< 6	< 6	< 6	< 6	< 8	-	-

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

DATE: 10/14/93
PAGE: 48

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		X 911209TB 911209 HA6594	W G308 911210 HA6558	W G337 911209 HA6561	W G324 911210 HA6566	W G302 911210 HA6567	W G318 911210 HA6568	X 911210TB 911210 HA6595	X FG-16GW 911211 HA6546
Isosafrole	ug/l	-	< 10	< 10	< 10	< 10	< 10	-	-
Methacrylonitrile	ug/l	< 100	< 100	< 100	< 100	< 100	< 100	< 100	-
Methapyrilene	ug/l	-	IND	IND	IND	IND	IND	-	-
Methyl ethyl ketone	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-
Methyl methacrylate	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-
Methyl methanesulfonate	ug/l	-	< 10	< 10	< 10	< 10	< 10	-	-
Methyl-iso-butyl ketone	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-
N-Nitrosodi-n-butylamine	ug/l	-	< 10.3	< 10	< 10	< 10	< 10	-	-
N-Nitrosodiethylamine	ug/l	-	< 10	< 10	< 10	< 10	< 10	-	-
N-Nitrosomethylethylamine	ug/l	-	< 10	< 10	< 10	< 10	< 10	-	-
N-Nitrosomorpholine	ug/l	-	< 10	< 10	< 10.5	< 10	< 13.3	-	-
N-Nitrosopiperidine	ug/l	-	< 10	< 10	< 10	< 10	< 10	-	-
N-Nitrosopyrrolidine	ug/l	-	< 10	< 10.4	< 10.5	< 10	< 13.3	-	-
Pentachlorobenzene	ug/l	-	< 10	< 10	< 10	< 10	< 10	-	-
Pentachloroethane	ug/l	ND	ND	ND	ND	ND	ND	ND	-
Pentachloronitrobenzene	ug/l	-	< 10	< 10	< 10	< 10	< 10	-	-
Phenacetin	ug/l	-	< 10	< 10	< 10	< 10.1	< 10	-	-
Pronamide	ug/l	-	< 10	< 10	< 10	< 10	< 10	-	-
Pyridine	ug/l	-	< 10.3	< 10	1.3	< 10	< 10	-	-
Safrole	ug/l	-	< 10	< 10	< 10	< 10	< 10	-	-
Styrene	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-
Tetraethyldithiopyrophosphate	ug/l	-	ND	ND	ND	ND	ND	-	-
Unable to Sample	CODE	-	-	-	-	-	-	-	1
Vinyl acetate	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-
m+p-Cresols	ug/l	-	452	< 10	19.2	< 10	< 10	-	-
m-Dinitrobenzene	ug/l	-	< 10	< 10	< 10	< 10	< 10	-	-
m-Nitroaniline	ug/l	-	< 10	< 10	< 10	< 10	< 10	-	-
m-Xylene	ug/l	< 10	< 10.0	< 10	< 10	< 10	< 10	< 10	-
m-phenylenediamine	ug/l	-	< 10.3	< 10	< 10.5	< 10	< 10	-	-
o+p-Xylenes	ug/l	< 10	< 10.0	< 10	< 10	< 10	< 10	< 10	-
o-Cresol	ug/l	-	18.1	< 10	3.4	< 10	< 10	-	-
o-Nitroaniline	ug/l	-	< 10	< 10	< 10	< 10	< 10	-	-
o-Toluidine	ug/l	-	< 10	< 10	< 10	< 10	< 10	-	-
o-phenylenediamine	ug/l	-	< 10.3	< 10	< 10.5	< 10	< 10	-	-
p-Chloroaniline	ug/l	-	617	< 10	< 10	< 10	< 10	-	-
p-Dimethylaminoazobenzene	ug/l	-	< 10	< 10	< 10	< 10	< 10	-	-
p-Nitroaniline	ug/l	-	< 10	< 10	< 10	< 10	< 10	-	-

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below				See Below	
ETC Sample No.	WASTE MANAGEMENT, INC. *Company*	705 *Facility*		*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		X 911209TB 911209 HA6594	W G308 911210 HA6558	W G337 911209 HA6561	W G324 911210 HA6566	W G302 911210 HA6567	W G318 911210 HA6568	X 911210TB 911210 HA6595	X FG-16GW 911211 HA6546
p-phenylenediamine	ug/l	-	< 10.3	< 10	< 10.5	< 10	< 10	-	-
sym-Trinitrobenzene	ug/l	-	IND	IND	IND	IND	IND	-	-

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		W G317 911211 HA6557	W G334 911211 HA6559	D GWDUP04 911211 HA6560	W G336 911211 HA6565	W G1Z35 911211 HA6575	D GWDUP03 911211 HA6577	D GWFB04 911211 HA6586	D 911211TB 911211 HA6596
Priority Poll. Volatiles GC/MS									
Acrolein	ug/l	< 20	< 20	< 20	< 20	< 20	< 100	< 20	< 20
Acrylonitrile	ug/l	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10
Benzene	ug/l	11.3	< 4	65.2	69.0	312	316	< 4	< 4
Bromoform	ug/l	< 5	< 5	< 5	< 5	< 5	< 20	< 5	< 5
Carbon tetrachloride	ug/l	< 3	< 3	< 3	< 3	< 3	< 10	< 3	< 3
Chlorobenzene	ug/l	6.64	< 6	7.36	8.11	< 6	< 30	< 6	< 6
Chlorodibromomethane	ug/l	< 3	< 3	< 3	< 3	< 3	< 20	< 3	< 3
Chloroethane	ug/l	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10
2-Chloroethylvinyl ether	ug/l	-	-	-	-	-	-	-	-
Chloroform	ug/l	< 2	< 2	< 2	< 2	< 2	< 8	< 2	< 2
Dichlorobromomethane	ug/l	< 2	< 2	< 2	< 2	< 2	< 10	< 2	< 2
Dichlorodifluoromethane	ug/l	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10
1,1-Dichloroethane	ug/l	4.6	< 5	< 5	< 5	< 5	< 20	< 5	< 5
1,2-Dichloroethane	ug/l	< 3	< 3	< 3	< 3	< 3	< 10	< 3	< 3
1,1-Dichloroethylene	ug/l	34.8	< 3	< 3	< 3	3.56	< 10	< 3	< 3
1,2-Dichloropropane	ug/l	< 6	< 6	< 6	< 6	< 6	< 30	< 6	< 6
cis-1,3-Dichloropropylene	ug/l	< 5	< 5	< 5	< 5	< 5	< 30	< 5	< 5
Ethylbenzene	ug/l	< 7	< 7	< 7	< 7	2.8	< 40	< 7	< 7
Methyl bromide	ug/l	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10
Methyl chloride	ug/l	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10
Methylene chloride	ug/l	33.1	< 3	< 3	< 3	< 3	< 10	< 3	< 3
1,1,2,2-Tetrachloroethane	ug/l	< 7	< 7	< 7	< 7	< 7	< 30	< 7	< 7
Tetrachloroethylene	ug/l	< 4	< 4	< 4	< 4	< 4	< 20	< 4	< 4
Toluene	ug/l	12.3	< 6	< 6	< 6	59.3	50.2	< 6	< 6
1,2-Trans-dichloroethylene	ug/l	< 2	< 2	< 2	< 2	< 2	< 8	< 2	< 2
1,1,1-Trichloroethane	ug/l	< 4	< 4	< 4	< 4	< 4	< 20	< 4	< 4
1,1,2-Trichloroethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 30	< 5	< 5
Trichloroethylene	ug/l	< 2	< 2	< 2	< 2	< 2	< 10	< 2	< 2
Trichlorofluoromethane	ug/l	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10
Vinyl chloride	ug/l	< 10	< 10	< 10	< 10	33.3	< 50	< 10	< 10
trans-1,3-Dichloropropylene	ug/l	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below				See Below	
ETC Sample No.		*Company*	*Facility*	*Sample Point*	*Date*
		WASTE MANAGEMENT, INC.	705		

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		W G317 911211 HA6557	W G334 911211 HA6559	X GWDUP04 911211 HA6560	W G336 911211 HA6565	W GT235 911211 HA6575	X GWDUP03 911211 HA6577	X GWFB04 911211 HA6586	X 911211TB 911211 HA6596
Priority Poll. Acids GC/MS									
2-Chlorophenol	ug/l	5.21	< 3	< 3	< 3	2.5	< 3.37	< 3	-
2,4-Dichlorophenol	ug/l	340	< 3	< 3	< 3	< 3	< 3	< 3	-
2,4-Dimethylphenol	ug/l	< 3.10	< 3	< 3	< 3	< 2.73	< 2.76	< 3	-
4,6-Dinitro-o-cresol	ug/l	< 30	< 30	< 30	< 20	< 20	< 20	< 20	-
2,4-Dinitrophenol	ug/l	< 50	< 40	< 40	< 40	< 40	< 40	< 40	-
2-Nitrophenol	ug/l	< 4	< 4	< 4	< 4	< 4	< 4	< 4	-
4-Nitrophenol	ug/l	< 3	< 3	< 3	< 2	< 2	< 2	< 2	-
p-Chloro-m-cresol	ug/l	< 3.45	< 3	< 3	< 3	< 3.03	< 3.06	< 3	-
Pentachlorophenol	ug/l	< 4	< 4	< 4	< 4	< 4	< 4	< 4	-
Phenol	ug/l	183	< 2	< 2	< 2	1810	1730	< 2	-
2,4,6-Trichlorophenol	ug/l	< 3.10	< 3	< 3	< 3	< 3	< 3	< 3	-
Priority Poll. B/Ns GC/MS									
Acenaphthene	ug/l	2.22	< 2	2.12	2.53	< 1.92	< 1.94	< 2	-
Acenaphthylene	ug/l	< 4.02	< 4	< 4	< 4	< 4	< 4	< 4	-
Anthracene	ug/l	< 2.18	< 2	< 2	< 2	< 1.92	< 1.94	< 2	-
Benzo(a)anthracene	ug/l	< 9	< 8	< 8	< 8	< 8	< 8	< 8	-
Benzo(a)pyrene	ug/l	< 3	< 3	< 3	< 3	< 3	< 3	< 3	-
Benzo(b)fluoranthene	ug/l	< 6	< 5	< 5	< 5	< 5	< 5	< 5	-
Benzo(ghi)perylene	ug/l	< 5	< 4	< 4	< 4	< 4	< 4	< 4	-
Benzo(k)fluoranthene	ug/l	< 3	< 3	< 3	< 3	< 3	< 3	< 3	-
bis(2-Chloroethoxy)methane	ug/l	< 6	< 6	< 6	< 5	< 5	< 5	< 5	-
bis(2-Chloroethyl) ether	ug/l	< 6.55	< 6	< 6	< 6	< 6	< 6	< 6	-
bis(2-Chloroisopropyl)ether	ug/l	< 6.55	< 6	< 6.00	< 6	< 5.76	< 5.82	< 6	-
bis(2-Ethylhexyl)phthalate	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-
4-Bromophenyl phenyl ether	ug/l	< 2	< 2	< 2	< 2	< 2	< 2	< 2	-
Butyl benzyl phthalate	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-
2-Chloronaphthalene	ug/l	< 2	< 2	< 2	< 2	< 1.92	< 1.94	< 2	-
4-Chlorophenyl phenyl ether	ug/l	< 5	< 4	< 4	< 4	< 4	< 4	< 4	-
Chrysene	ug/l	< 3	< 3	< 3	< 3	< 3	< 3	< 3	-
Dibenzo(a,h)anthracene	ug/l	< 3	< 3	< 3	< 3	< 3	< 3	< 3	-
1,2-Dichlorobenzene	ug/l	< 2	< 2	< 2	< 2	< 2	< 2	< 2	-
1,3-Dichlorobenzene	ug/l	< 2	< 2	< 2	< 2	< 2	< 2	< 2	-

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below — WASTE MANAGEMENT, INC. — 705 — See Below

ETC Sample No. — *Company* — *Facility* — *Sample Point* — *Date*

Parameters	Units	Sample Points, Sampling Dates, and ETC Sample No.'s							
		W G317 911211 HA6557	W G334 911211 HA6559	X GWDUP04 911211 HA6560	W G336 911211 HA6565	W GT235 911211 HA6575	X GWDUP03 911211 HA6577	X GWFB04 911211 HA6586	X 911211TB 911211 HA6596
1,4-Dichlorobenzene	ug/l	< 5	< 5	< 5	< 4	< 4	< 4	< 5	-
3,3'-Dichlorobenzidine	ug/l	< 20	< 20	< 20	< 20	< 20	< 20	< 20	-
Diethyl phthalate	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-
Dimethyl phthalate	ug/l	< 11.5	< 10	< 10	< 10	< 10	< 10	< 10	-
Di-n-butyl phthalate	ug/l	52.7	< 10	33.0	< 10	< 10	10	< 10	-
2,4-Dinitrotoluene	ug/l	< 7	< 6	< 6	< 6	< 6	< 5.82	< 6	-
2,6-Dinitrotoluene	ug/l	< 2	< 2	< 2	< 2	< 2	< 2	< 2	-
Di-n-octyl phthalate	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-
Fluoranthene	ug/l	< 3	< 2	< 2	< 2	< 2	< 2	< 2	-
Fluorene	ug/l	1.8	< 2.00	< 2.00	< 1.92	< 1.92	< 1.94	< 1.96	-
Hexachlorobenzene	ug/l	< 2	< 2	< 2	< 2	< 2	< 2	< 2	-
Hexachlorobutadiene	ug/l	< 1	< .9	< .9	< .9	< .9	< .9	< .9	-
Hexachlorocyclopentadiene	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-
Hexachloroethane	ug/l	< 2	< 2	< 2	< 2	< 2	< 2	< 2	-
Indeno(1,2,3-c,d)pyrene	ug/l	< 4	< 4	< 4	< 4	< 4	< 4	< 4	-
Isophorone	ug/l	< 2.53	< 2.32	< 2.32	< 2.22	< 2.22	< 2.24	< 2	-
Naphthalene	ug/l	9.22	< 2	< 1.68	< 1.62	10.6	11.1	< 2	-
Nitrobenzene	ug/l	< 2.18	< 2	< 2	< 2	< 1.92	< 1.94	< 2	-
N-Nitrosodimethylamine	ug/l	< 11.5	< 10	< 10	< 10.1	< 10.1	< 10.2	< 10	-
N-Nitrosodi-n-propylamine	ug/l	< 11.5	< 10.5	< 10.5	< 10	< 10.1	< 10.2	< 10.3	-
N-Nitrosodiphenylamine	ug/l	< 2	< 2	< 2	< 2	< 2	< 2	< 2	-
Phenanthrene	ug/l	3.4	< 6	< 6	< 5	< 5.45	< 5.51	< 6	-
Pyrene	ug/l	< 2	< 2	< 2	< 2	< 2	< 2	< 2	-
1,2,4-Trichlorobenzene	ug/l	< 2	< 2	< 2	< 2	< 2	< 2	< 2	-
Metals Analysis Data									
Antimony	ug/l	13	< 60	< 60	< 60	14	< 60	< 60	-
Arsenic	ug/l	2.0	6.9	3.4	3.2	7.1	6.5	< 10	-
Barium	ug/l	1700	47	95	86	1300	1400	< 20	-
Beryllium	ug/l	.40	< 1.0	< 1.0	< 1.0	.33	.30	< 1.0	-
Cadmium	ug/l	< 2.0	< 2.0	< 2.0	.96	.57	< 2.0	< 2.0	-
Chromium	ug/l	< 10	< 10	< 10	2.3	< 10	< 10	< 10	-
Cobalt	ug/l	< 20	< 20	< 20	< 20	< 20	< 20	< 20	-
Copper	ug/l	9.8	6.7	4.5	4.2	7.3	7.4	< 10	-
Lead	ug/l	1.9	< 5.0	< 5.0	< 5.0	7.4	1.0	1.6	-
Mercury	ug/l	< .20	< .20	< .20	< .20	< .20	< .20	< .20	-

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below — *ETC Sample No.* | WASTE MANAGEMENT, INC. — *Company* | 705 — *Facility* | See Below — *Sample Point* *Date*

Parameters	Units	W G317 911211 HA6557	W G334 911211 HA6559	X GWDUP04 911211 HA6560	W G336 911211 HA6565	W G1235 911211 HA6575	X GWDUP03 911211 HA6577	X GWFB04 911211 HA6586	X 911211TB 911211 HA6596
Nickel	ug/l	31	< 20	8.2	8.2	21	18	< 20	-
Selenium	ug/l	< 5.0	2.0	2.0	1.1	4	4.2	2.0	-
Silver	ug/l	< 10	2.8	< 10	3.2	2.5	< 10	2.2	-
Thallium	ug/l	< 10	< 20	< 20	< 20	< 20	< 20	< 10	-
Tin	ug/l	21	52	210	190	180	170	< 50	-
Vanadium	ug/l	< 20	< 20	< 20	< 20	< 20	< 20	< 20	-
Zinc	ug/l	10	< 20	< 20	4.8	< 20	< 20	7.2	-
Field Parameters									
pH (Field)	std	12.87	8.54	-	7.79	7.73	-	6.87	-
pH (Field)	std	12.90	8.55	-	7.74	7.72	-	7.03	-
pH (Field)	std	12.89	8.57	-	7.72	7.73	-	7.02	-
pH (Field)	std	12.88	8.58	-	7.83	7.73	-	6.90	-
Specific Conductance (Field)	um/cm	9410	3800	-	3570	6720	-	3.87	-
Specific Conductance (Field)	um/cm	9450	3830	-	3520	6710	-	3.83	-
Specific Conductance (Field)	um/cm	9420	3820	-	3520	6700	-	3.86	-
Specific Conductance (Field)	um/cm	9470	3850	-	3540	6700	-	3.85	-
Groundwater Elevation	Feet	589.84	586.91	-	581.07	588.11	-	-	-
Temperature	Deg. C	12.2	11.9	-	13.0	13.4	-	11.0	-
Well Depth	Feet	18.84	13.72	-	18.68	20.75	-	-	-
Sample Depth	Feet	-	-	-	-	-	-	-	-
Well Elevation	Feet	597.76	592.46	-	592.95	594.13	-	-	-
Stick-Up	Feet	2.57	2.40	-	2.48	2.60	-	-	-
Miscellaneous Parameters									
1,1,1,2-Tetrachloroethane	ug/l	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10
1,2,3-Trichloropropane	ug/l	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10
1,2,4,5-Tetrachlorobenzene	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-
1,2-Dibromo-3-chloropropane	ug/l	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10
1,2-Dibromoethane	ug/l	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10
1,4-Dichloro-2-butene	ug/l	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10
1,4-Dioxane	ug/l	< 300	< 300	< 300	< 300	130	130	< 300	< 300
1,4-Naphthoquinone	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-
1-Naphthylamine	ug/l	< 11.5	< 10	< 10	< 10	< 10.1	< 10.2	< 10	-
2,3,4,6-Tetrachlorophenol	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below *ETC Sample No.* | WASTE MANAGEMENT, INC. *Company* | 705 *Facility* | See Below *Sample Point* | *Date*

Parameters	Units	W G317 911211 HA6557	W G334 911211 HA6559	X GWDUP04 911211 HA6560	W G336 911211 HA6565	W G1235 911211 HA6575	X GWDUP03 911211 HA6577	X GWFB04 911211 HA6586	X 911211TB 911211 HA6596
2,4,5-Trichlorophenol	ug/l	< 11.5	< 10	< 10	< 10	< 10	< 10	< 10	-
2,6-Dichlorophenol	ug/l	< 11.5	< 10	< 10	< 10	< 10	< 10.2	< 10	-
2-Acetylaminofluorene	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-
2-Chloro-1,3-butadiene	ug/l	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	ug/l	< 10.0	< 10	< 10	< 10	< 10	< 50	< 10	< 10
2-Methylnaphthalene	ug/l	2.6	< 10	< 10	< 10	< 10.1	< 10.2	< 10	-
2-Naphthylamine	ug/l	< 11.5	< 10	< 10	< 10	< 10.1	< 10.2	< 10	-
2-Picoline	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-
2-sec-Butyl-4,6-dinitrophenol	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-
3,3'-Dimethylbenzidine	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-
3-Methylcholanthrene	ug/l	< 6	< 6	< 6	< 6	< 6	< 6	< 6	-
3-chloropropene	ug/l	< 10	< 10	< 10.0	< 10	< 10.0	< 50	< 10	< 10
4-Aminobiphenyl	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-
4-Nitroquinoline-N-oxide	ug/l	IND	IND	IND	IND	IND	IND	IND	-
5-Nitro-o-toluidine	ug/l	< 11.5	< 10.5	< 10	< 10	< 10	< 10	< 10.3	-
7,12-Dimethylbenzo(a)anthracen	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-
Acetone	ug/l	398	< 10	< 10	< 10	196	169	< 10	< 10
Acetonitrile	ug/l	6.0	< 20	< 20	< 20	5640	9830	< 20	< 20
Acetophenone	ug/l	12.6	< 10	< 10	< 10	< 10.1	< 10.2	< 10	-
Aniline	ug/l	< 11.5	< 10	< 10	< 10	2.8	28.9	< 10	-
Aramite	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-
Benzyl alcohol	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-
Carbon disulfide	ug/l	< 10	< 10	< 10.0	< 10	34.7	30	< 10	< 10
Depth to Groundwater	Feet	7.92	5.55	-	11.88	6.02	-	-	-
Diallate	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-
Dibenzofuran	ug/l	< 11.5	< 10	< 10.5	< 10.1	< 10.1	< 10.2	< 10	-
Dibromomethane	ug/l	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10
Diphenylamine	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-
Ending Sample Depth	Feet	-	-	-	-	-	-	-	-
Ethyl cyanide	ug/l	< 40	< 40	< 40	< 40	12	< 200	< 40	< 40
Ethyl methacrylate	ug/l	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10
Ethyl methanesulfonate	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-
Hexachlorophene	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-
Hexachloropropene	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-
Iodomethane	ug/l	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10
Isobutyl alcohol	ug/l	< 230	< 200	< 200	< 200	33	47	< 200	< 200
Isodrin	ug/l	< 7	< 6	< 6	< 6	< 6	< 6	< 6	-

Footnotes: &MDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below — *ETC Sample No.* | WASTE MANAGEMENT, INC. — *Company* | 705 — *Facility* | See Below — *Sample Point* | *Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		W G317 911211 HA6557	W G334 911211 HA6559	X GWDUP04 911211 HA6560	W G336 911211 HA6565	W GT235 911211 HA6575	X GWDUP03 911211 HA6577	X GWFB04 911211 HA6586	X 911211TB 911211 HA6596
Isosafrole	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-
Methacrylonitrile	ug/l	< 100	< 100	< 100	< 100	< 100	< 600	< 100	< 100
Methapyrilene	ug/l	IND	IND	IND	IND	IND	IND	IND	-
Methyl ethyl ketone	ug/l	45.0	< 10	< 10	< 10	43.4	< 50	< 10	< 10
Methyl methacrylate	ug/l	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10
Methyl methanesulfonate	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-
Methyl-iso-butyl ketone	ug/l	< 10	< 10	< 10	< 10	105	104	< 10	< 10
N-Nitrosodi-n-butylamine	ug/l	< 10	< 10	< 10	< 10	< 10	< 10.2	< 10	-
N-Nitrosodiethylamine	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-
N-Nitrosomethylethylamine	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-
N-Nitrosomorpholine	ug/l	< 10	< 10	< 10.5	< 10	< 10.1	< 10	< 10	-
N-Nitrosopiperidine	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-
N-Nitrosopyrrolidine	ug/l	< 10	< 10	< 10	< 10.1	< 10	< 10.2	< 10	-
Pentachlorobenzene	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-
Pentachloroethane	ug/l	ND	ND	ND	ND	ND	ND	ND	ND
Pentachloronitrobenzene	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-
Phenacetin	ug/l	< 11.5	< 10	< 10	< 10	< 10	< 10	< 10	-
Pronamide	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-
Pyridine	ug/l	< 10	< 10	< 10	< 10	709	724	< 10	-
Safrole	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-
Styrene	ug/l	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10
Tetraethyldithiopyrophosphate	ug/l	ND	ND	ND	ND	ND	ND	ND	-
Unable to Sample	CODE	-	-	-	-	-	-	-	-
Vinyl acetate	ug/l	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10
m+p-Cresols	ug/l	26.3	< 10	< 10	< 10	80.5	92.6	< 10	-
m-Dinitrobenzene	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-
m-Nitroaniline	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-
m-Xylene	ug/l	< 10.0	< 10	< 10	< 10	3.3	< 50	< 10	< 10
m-phenylenediamine	ug/l	< 10	< 10	< 10	< 10	< 10.1	< 10.2	< 10	-
o+p-Xylenes	ug/l	2.3	< 10	< 10	< 10	5.8	< 50	< 10	< 10
o-Cresol	ug/l	< 11.5	< 10	< 10	< 10	6.5	6.8	< 10	-
o-Nitroaniline	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-
o-Toluidine	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-
o-phenylenediamine	ug/l	< 10	< 10	< 10	< 10	< 10.1	< 10.2	< 10	-
p-Chloroaniline	ug/l	< 11.5	< 10	< 10	< 10	< 10.1	< 10.2	< 10	-
p-Dimethylaminoazobenzene	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-
p-Nitroaniline	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below				See Below
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*
	WASTE MANAGEMENT, INC.	705		

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		W G317 911211 HA6557	W G334 911211 HA6559	X GWDUP04 911211 HA6560	W G336 911211 HA6565	W G1235 911211 HA6575	X GWDUP03 911211 HA6577	X GWFB04 911211 HA6586	X 911211TB 911211 HA6596
p-phenylenediamine	ug/l	< 10	< 10	< 10	< 10	< 10.1	< 10.2	< 10	-
sym-Trinitrobenzene	ug/l	IND	IND	IND	IND	IND	IND	IND	-

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		W G121S 911212 HA6573	W G124S 911212 HA6576	W G120S 911212 HA6580	X 9112121B 911212 HA6597	X 9112161B 911211 HA6598			
Priority Poll. Volatiles GC/MS									
Acrolein	ug/l	< 20	< 20	< 20	< 20	< 20			
Acrylonitrile	ug/l	< 10	< 10	< 10	< 10	< 10			
Benzene	ug/l	262	< 4	< 4.40	< 4	< 4			
Bromoform	ug/l	< 5	< 5	< 5	< 5	< 5			
Carbon tetrachloride	ug/l	< 3	< 3	< 3	< 3	< 3			
Chlorobenzene	ug/l	64.6	< 6	< 6.00	< 6	< 6			
Chlorodibromomethane	ug/l	< 3	< 3	< 3	< 3	< 3			
Chloroethane	ug/l	< 10	< 10	< 10	< 10	< 10			
2-Chloroethylvinyl ether	ug/l	-	-	-	-	-			
Chloroform	ug/l	< 2	< 2	< 2	< 2	< 2			
Dichlorobromomethane	ug/l	< 2	< 2	< 2	< 2	< 2			
Dichlorodifluoromethane	ug/l	< 10	< 10	< 10.0	< 10	< 10			
1,1-Dichloroethane	ug/l	< 5	< 5	< 5	< 5	< 5			
1,2-Dichloroethane	ug/l	< 3	< 3	< 3	< 3	< 3			
1,1-Dichloroethylene	ug/l	< 3	< 3	< 3	< 3	< 3			
1,2-Dichloropropane	ug/l	< 6	< 6	< 6	< 6	< 6			
cis-1,3-Dichloropropylene	ug/l	< 5	< 5	< 5	< 5	< 5			
Ethylbenzene	ug/l	14.6	< 7	< 7	< 7	< 7			
Methyl bromide	ug/l	< 10	< 10	< 10	< 10	< 10			
Methyl chloride	ug/l	< 10	< 10	< 10	< 10	< 10			
Methylene chloride	ug/l	< 3	< 3	< 3	< 3	< 3			
1,1,2,2-Tetrachloroethane	ug/l	< 7	< 7	< 7	< 7	< 7			
Tetrachloroethylene	ug/l	< 4	< 4	< 4	< 4	< 4			
Toluene	ug/l	7.80	< 6	< 6	< 6	< 6			
1,2-Trans-dichloroethylene	ug/l	< 2	< 2	< 2	< 2	< 2			
1,1,1-Trichloroethane	ug/l	< 4	< 4	< 4	< 4	< 4			
1,1,2-Trichloroethane	ug/l	< 5	< 5	< 5	< 5	< 5			
Trichloroethylene	ug/l	< 2	< 2	< 2	< 2	< 2			
Trichlorofluoromethane	ug/l	< 10	< 10	< 10	< 10	< 10			
Vinyl chloride	ug/l	< 10	< 10	< 10	< 10	< 10			
trans-1,3-Dichloropropylene	ug/l	< 10	< 10	< 10	< 10	< 10			

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		W GI21S 911212 HA6573	W GI24S 911212 HA6576	W GI20S 911212 HA6580	X 91121218 911212 HA6597	X 91121618 911211 HA6598			
Priority Poll. Acids GC/MS									
2-Chlorophenol	ug/l	1.9	< 3	< 3	-	-			
2,4-Dichlorophenol	ug/l	< 3	< 3	< 3	-	-			
2,4-Dimethylphenol	ug/l	< 2.81	< 3	< 2.78	-	-			
4,6-Dinitro-o-cresol	ug/l	< 25.0	< 20	< 20	-	-			
2,4-Dinitrophenol	ug/l	< 40	< 40	< 40	-	-			
2-Nitrophenol	ug/l	< 4	< 4	< 4	-	-			
4-Nitrophenol	ug/l	< 3	< 2	< 2	-	-			
p-Chloro-m-cresol	ug/l	< 3.13	< 3	< 3.09	-	-			
Pentachlorophenol	ug/l	< 4	< 4	< 4	-	-			
Phenol	ug/l	< 2	< 2	< 2	-	-			
2,4,6-Trichlorophenol	ug/l	< 3	< 3	< 3	-	-			
Priority Poll. B/Ns GC/MS									
Acenaphthene	ug/l	2.28	< 2	4.23	-	-			
Acenaphthylene	ug/l	< 4	< 4	< 4	-	-			
Anthracene	ug/l	< 1.98	< 2	< 1.96	-	-			
Benzo(a)anthracene	ug/l	< 8	< 8	< 8	-	-			
Benzo(a)pyrene	ug/l	< 3	< 3	< 3	-	-			
Benzo(b)fluoranthene	ug/l	< 5	< 5	< 5	-	-			
Benzo(ghi)perylene	ug/l	< 4	< 4	< 4	-	-			
Benzo(k)fluoranthene	ug/l	< 3	< 3	< 3	-	-			
bis(2-Chloroethoxy)methane	ug/l	< 5.52	< 5	< 5	-	-			
bis(2-Chloroethyl) ether	ug/l	< 6	< 6	< 6	-	-			
bis(2-Chloroisopropyl)ether	ug/l	< 5.94	< 6	< 6	-	-			
bis(2-Ethylhexyl)phthalate	ug/l	< 10	< 10	< 10	-	-			
4-Bromophenyl phenyl ether	ug/l	< 2	< 2	< 2	-	-			
Butyl benzyl phthalate	ug/l	< 10	< 10	< 10	-	-			
2-Chloronaphthalene	ug/l	< 2	< 2	< 2	-	-			
4-Chlorophenyl phenyl ether	ug/l	< 4	< 4	< 4	-	-			
Chrysene	ug/l	< 3	< 3	< 3	-	-			
Dibenzo(a,h)anthracene	ug/l	< 3	< 3	< 3	-	-			
1,2-Dichlorobenzene	ug/l	5.18	< 2	< 2	-	-			
1,3-Dichlorobenzene	ug/l	< 1.98	< 2	< 2	-	-			

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below				See Below	
ETC Sample No.	WASTE MANAGEMENT, INC. *Company*	705 *Facility*		*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		W GI21S 911212 HA6573	W GI24S 911212 HA6576	W GI20S 911212 HA6580	X 9112121B 911212 HA6597	X 9112161B 911211 HA6598			
1,4-Dichlorobenzene	ug/l	< 4.58	< 5	< 5	-	-			
3,3'-Dichlorobenzidine	ug/l	< 20	< 20	< 20	-	-			
Diethyl phthalate	ug/l	< 10	< 10	< 10	-	-			
Dimethyl phthalate	ug/l	< 10.4	< 10	< 10.3	-	-			
Di-n-butyl phthalate	ug/l	< 10	< 10	< 10	-	-			
2,4-Dinitrotoluene	ug/l	< 5.94	< 6	< 6	-	-			
2,6-Dinitrotoluene	ug/l	< 2	< 2	< 2	-	-			
Di-n-octyl phthalate	ug/l	< 10	< 10	< 10	-	-			
Fluoranthene	ug/l	< 2	< 2	< 2.27	-	-			
Fluorene	ug/l	< 1.98	< 1.96	4.73	-	-			
Hexachlorobenzene	ug/l	< 2	< 2	< 2	-	-			
Hexachlorobutadiene	ug/l	< .9	< .9	< .9	-	-			
Hexachlorocyclopentadiene	ug/l	< 10	< 10	< 10	-	-			
Hexachloroethane	ug/l	< 2	< 2	< 2	-	-			
Indeno(1,2,3-c,d)pyrene	ug/l	< 4	< 4	< 4	-	-			
Isophorone	ug/l	< 2.29	< 2.27	< 2.27	-	-			
Naphthalene	ug/l	12.0	< 1.65	1.5	-	-			
Nitrobenzene	ug/l	< 1.98	< 2	< 2	-	-			
N-Nitrosodimethylamine	ug/l	< 10.4	< 10	< 10.3	-	-			
N-Nitrosodi-n-propylamine	ug/l	< 10.4	< 10.3	< 10.3	-	-			
N-Nitrosodiphenylamine	ug/l	< 2	< 2	< 2	-	-			
Phenanthrene	ug/l	< 5.63	< 6	3.1	-	-			
Pyrene	ug/l	< 2	< 2	< 1.96	-	-			
1,2,4-Trichlorobenzene	ug/l	< 2	< 2	< 2	-	-			
Metals Analysis Data									
Antimony	ug/l	< 60	< 60	14	-	-			
Arsenic	ug/l	9.9	< 10	41	-	-			
Barium	ug/l	410	65	830	-	-			
Beryllium	ug/l	.48	< 1.0	.29	-	-			
Cadmium	ug/l	< 2.0	< 2.0	1.7	-	-			
Chromium	ug/l	3.3	3.2	< 10	-	-			
Cobalt	ug/l	< 20	< 20	< 20	-	-			
Copper	ug/l	9.6	6.0	6.7	-	-			
Lead	ug/l	< 5.0	1.3	< 5.0	-	-			
Mercury	ug/l	< .20	< .2	< .20	-	-			

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below				See Below	
ETC Sample No.		*Company*	*Facility*	*Sample Point*	*Date*
		WASTE MANAGEMENT, INC.	705		

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		W GT21S 911212 HA6573	W GT24S 911212 HA6576	W GT20S 911212 HA6580	X 91121218 911212 HA6597	X 91121618 911211 HA6598			
Nickel	ug/l	29	7.5	6.6	-	-			
Selenium	ug/l	< 50	1.1	< 25	-	-			
Silver	ug/l	< 10	2.2	3.6	-	-			
Thallium	ug/l	< 50	< 20	< 20	-	-			
Tin	ug/l	220	81	250	-	-			
Vanadium	ug/l	< 20	< 20	< 20	-	-			
Zinc	ug/l	< 20	< 20	14	-	-			
Field Parameters									
pH (Field)	std	7.71	7.18	6.81	-	-			
pH (Field)	std	7.74	7.21	6.83	-	-			
pH (Field)	std	7.74	7.23	6.85	-	-			
pH (Field)	std	7.74	7.14	6.86	-	-			
Specific Conductance (Field)	um/cm	20000	4560	2980	-	-			
Specific Conductance (Field)	um/cm	20000	4540	2970	-	-			
Specific Conductance (Field)	um/cm	20000	4500	2930	-	-			
Specific Conductance (Field)	um/cm	20000	4570	2950	-	-			
Groundwater Elevation	Feet	586.27	584.18	584.21	-	-			
Temperature	Deg. C	13.7	14.3	14.4	-	-			
Well Depth	Feet	20.71	20.75	20.78	-	-			
Sample Depth	Feet	-	-	-	-	-			
Well Elevation	Feet	593.89	593.28	593.84	-	-			
Stick-Up	Feet	1.80	1.74	2.09	-	-			
Miscellaneous Parameters									
1,1,1,2-Tetrachloroethane	ug/l	< 10	< 10	< 10	< 10	< 10			
1,2,3-Trichloropropane	ug/l	< 10	< 10	< 10	< 10	< 10			
1,2,4,5-Tetrachlorobenzene	ug/l	< 10	< 10	< 10	-	-			
1,2-Dibromo-3-chloropropane	ug/l	< 10	< 10	< 10	< 10	< 10			
1,2-Dibromoethane	ug/l	< 10	< 10	< 10	< 10	< 10			
1,4-Dichloro-2-butene	ug/l	< 10	< 10	< 10	< 10	< 10			
1,4-Dioxane	ug/l	33	< 300	< 300	< 300	< 300			
1,4-Naphthoquinone	ug/l	< 10	< 10	< 10	-	-			
1-Naphthylamine	ug/l	< 10.4	< 10	< 10	-	-			
2,3,4,6-Tetrachlorophenol	ug/l	< 10	< 10	< 10	-	-			

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Peramater not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	Units	W GT21S 911212 HA6573	W GT24S 911212 HA6576	W GT20S 911212 HA6580	X 911212IB 911212 HA6597	X 911216IB 911211 HA6598			
2,4,5-Trichlorophenol	ug/l	< 10	< 10	< 10	-	-			
2,6-Dichlorophenol	ug/l	< 10	< 10	< 10	-	-			
2-Acetylaminofluorene	ug/l	< 10	< 10	< 10	-	-			
2-Chloro-1,3-butadiene	ug/l	ND	ND	ND	ND	ND			
2-Hexanone	ug/l	< 10	< 10	< 10	< 10	< 10			
2-Methylnaphthalene	ug/l	< 10.4	< 10	4.9	-	-			
2-Naphthylamine	ug/l	< 10.4	< 10	< 10	-	-			
2-Picoline	ug/l	< 10	< 10	< 10	-	-			
2-sec-Butyl-4,6-dinitrophenol	ug/l	< 10	< 10	< 10	-	-			
3,3'-Dimethylbenzidine	ug/l	< 10	< 10	< 10	-	-			
3-Methylcholanthrene	ug/l	< 6	< 6	< 6	-	-			
3-chloropropene	ug/l	< 10.0	< 10	< 10	< 10	< 10			
4-Aminobiphenyl	ug/l	< 10	< 10	< 10	-	-			
4-Nitroquinoline-N-oxide	ug/l	IND	IND	IND	-	-			
5-Nitro-o-toluidine	ug/l	< 10	< 10.3	< 10	-	-			
7,12-Dimethylbenzo(a)anthracen	ug/l	< 10	< 10	< 10	-	-			
Acetone	ug/l	< 10	< 10	< 10	< 10	< 10			
Acetonitrile	ug/l	< 15.0	< 20	< 20	< 20	< 20			
Acetophenone	ug/l	< 10.4	< 10	< 10.3	-	-			
Aniline	ug/l	< 10.4	< 10	< 10	-	-			
Aramite	ug/l	< 10	< 10	< 10	-	-			
Benzyl alcohol	ug/l	< 10	< 10	< 10	-	-			
Carbon disulfide	ug/l	< 10.0	< 10	< 10	< 10	< 10			
Depth to Groundwater	Feet	7.62	9.10	9.63	-	-			
Diallate	ug/l	< 10	< 10	< 10	-	-			
Dibenzofuran	ug/l	< 10.4	< 10	< 10.3	-	-			
Dibromomethane	ug/l	< 10	< 10	< 10	< 10	< 10			
Diphenylamine	ug/l	< 10	< 10	< 10	-	-			
Ending Sample Depth	Feet	-	-	-	-	-			
Ethyl cyanide	ug/l	< 40	< 40	< 40	< 40	< 40			
Ethyl methacrylate	ug/l	< 10	< 10	< 10	< 10	< 10			
Ethyl methanesulfonate	ug/l	< 10	< 10	< 10	-	-			
Hexachlorophene	ug/l	< 10	< 10	< 10	-	-			
Hexachloropropene	ug/l	< 10	< 10	< 10	-	-			
Iodomethane	ug/l	< 10	< 10	< 10	< 10	< 10			
Isobutyl alcohol	ug/l	< 230	< 230	93	< 200	< 200			
Isodrin	ug/l	< 6	< 6	< 6	-	-			

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below		705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*
	WASTE MANAGEMENT, INC.			

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		W GT21S 911212 HA6573	W GT24S 911212 HA6576	W GT20S 911212 HA6580	X 91121218 911212 HA6597	X 91121618 911211 HA6598			
Isosafrole	ug/l	< 10	< 10	< 10	-	-			
Methacrylonitrile	ug/l	< 100	< 100	< 100	< 100	< 100			
Methapyrilene	ug/l	IND	IND	IND	-	-			
Methyl ethyl ketone	ug/l	< 10	< 10	< 10	< 10	< 10			
Methyl methacrylate	ug/l	< 10	< 10	< 10	< 10	< 10			
Methyl methanesulfonate	ug/l	< 10	< 10	< 10	-	-			
Methyl-iso-butyl ketone	ug/l	< 10	< 10	< 10	< 10	< 10			
N-Nitrosodi-n-butylamine	ug/l	< 10	< 10	< 10.3	-	-			
N-Nitrosodiethylamine	ug/l	< 10	< 10	< 10	-	-			
N-Nitrosomethylethylamine	ug/l	< 10	< 10	< 10	-	-			
N-Nitrosomorpholine	ug/l	< 10.4	< 10	< 10.3	-	-			
N-Nitrosopiperidine	ug/l	< 10	< 10	< 10	-	-			
N-Nitrosopyrrolidine	ug/l	< 10.4	< 10.3	< 10	-	-			
Pentachlorobenzene	ug/l	< 10	< 10	< 10	-	-			
Pentachloroethane	ug/l	ND	ND	ND	ND	ND			
Pentachloronitrobenzene	ug/l	< 10	< 10	< 10	-	-			
Phenacetin	ug/l	< 10	< 10	< 10	-	-			
Pronamide	ug/l	< 10	< 10	< 10	-	-			
Pyridine	ug/l	< 10	< 10	< 10	-	-			
Safrole	ug/l	< 10	< 10	< 10	-	-			
Styrene	ug/l	< 10	< 10	< 10	< 10	< 10			
Tetraethyldithiopyrophosphate	ug/l	ND	ND	ND	-	-			
Unable to Sample	CODE	-	-	-	-	-			
Vinyl acetate	ug/l	< 10	< 10	< 10	< 10	< 10			
m+p-Cresols	ug/l	< 10.4	< 10	< 10	-	-			
m-Dinitrobenzene	ug/l	< 10	< 10	< 10	-	-			
m-Nitroaniline	ug/l	< 10	< 10	< 10	-	-			
m-Xylene	ug/l	< 10.0	< 10	< 10	< 10	< 10			
m-phenylenediamine	ug/l	< 10.4	< 10	< 10	-	-			
o+p-Xylenes	ug/l	11.0	< 10	< 10	< 10	< 10			
o-Cresol	ug/l	< 10.4	< 10	< 10	-	-			
o-Nitroaniline	ug/l	< 10	< 10	< 10	-	-			
o-Toluidine	ug/l	< 10	< 10	< 10	-	-			
o-phenylenediamine	ug/l	< 10.4	< 10	< 10.3	-	-			
p-Chloroaniline	ug/l	68.5	< 10	< 10.3	-	-			
p-Dimethylaminoazobenzene	ug/l	< 10	< 10	< 10	-	-			
p-Nitroaniline	ug/l	< 10	< 10	< 10	-	-			

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

PHASE I
GROUNDWATER SAMPLE RESULTS

- APPENDIX K -

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

DATE: 10/14/93
PAGE: 1

Chain of Custody Data Required for ETC Data Management Summary Report

See Below				See Below	
ETC Sample No.	WASTE MANAGEMENT, INC.	*Company*	705 *Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		W G314 891116 HA1816	W G336 891116 HA1820	W G308 891116 HA1823	W G347 891117 HA1817	W G344 891117 HA1822	W G343 891120 HA1818	W G334 891120 HA1819	W G307 891120 HA1821
Priority Poll. Volatiles GC/MS									
Acrolein	ug/l	< 2000	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Acrylonitrile	ug/l	< 1000	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Benzene	ug/l	596	111	11.9	< 4.40	212	< 4.40	< 4.40	< 4
Bromoform	ug/l	< 500	< 5	< 5	< 5	< 50	< 5	< 5	< 5
Carbon tetrachloride	ug/l	< 300	< 3	< 3	< 3	< 30	< 3	< 3	< 3
Chlorobenzene	ug/l	< 600	12.4	< 6.00	< 6	< 60.0	< 6	< 6	< 6
Chlorodibromomethane	ug/l	< 300	< 3	< 3	< 3	< 30	< 3	< 3	< 3
Chloroethane	ug/l	< 1000	< 10	< 10	< 10	< 100	< 10	< 10	< 10
Chloroform	ug/l	< 200	< 2	< 2	< 2	< 20	< 2	< 2	< 2
Dichlorobromomethane	ug/l	< 200	< 2	< 2	< 2	< 20	< 2	< 2	< 2
Dichlorodifluoromethane	ug/l	< 1000	< 10	< 10	< 10	< 100	< 10	< 10	< 10
1,1-Dichloroethane	ug/l	< 470	< 5	5.18	< 5	< 47.0	< 4.70	< 5	< 5
1,2-Dichloroethane	ug/l	< 300	< 3	7.98	< 3	80.5	< 3	< 3	< 3
1,1-Dichloroethylene	ug/l	3340	< 3	< 3	< 3	28.1	< 3	< 3	< 3
1,2-Dichloropropane	ug/l	< 600	< 6	< 6	< 6	< 60	< 6	< 6	< 6
cis-1,3-Dichloropropylene	ug/l	< 500	< 5	< 5	< 5	< 50	< 5	< 5	< 5
Ethylbenzene	ug/l	< 700	< 7	< 7	< 7	90.0	< 7	< 7	< 7
Methyl bromide	ug/l	< 1000	< 10	< 10	< 10	< 100	< 10	< 10	< 10
Methyl chloride	ug/l	< 1000	< 10	< 10	< 10	< 100	< 10	< 10	< 10
Methylene chloride	ug/l	1310	18.0	50.0	8.14	60.5	6.58	22.9	6.06
1,1,2,2-Tetrachloroethane	ug/l	< 700	< 7	< 7	< 7	< 70	< 7	< 7	< 7
Tetrachloroethylene	ug/l	< 400	< 4	< 4	< 4	< 40	< 4	< 4	< 4
Toluene	ug/l	< 600	< 6.00	4.9	< 6.00	418	< 6.00	< 6	< 6.00
1,2-Trans-dichloroethylene	ug/l	< 200	< 2	< 2	< 2	< 20	< 2	< 2	< 2
1,1,1-Trichloroethane	ug/l	< 400	< 4	< 4	< 4	< 40	< 3.80	< 4	< 4
1,1,2-Trichloroethane	ug/l	< 500	< 5	< 5	< 5	< 50	< 5	< 5	< 5
Trichloroethylene	ug/l	< 200	< 2	< 2	< 2	< 20	< 2	< 2	< 2
Trichlorofluoromethane	ug/l	< 1000	< 10	< 10.0	< 10.0	< 100	< 10.0	< 10	< 10.0
Vinyl chloride	ug/l	14500	< 10	27.8	< 10	< 100	< 10	< 10	< 10
trans-1,3-Dichloropropylene	ug/l	< 1000	< 10	< 10	< 10	< 100	< 10	< 10	< 10

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	Units	W G314 891116 HA1816	W G336 891116 HA1820	W G308 891116 HA1823	W G347 891117 HA1817	W G344 891117 HA1822	W G343 891120 HA1818	W G334 891120 HA1819	W G307 891120 HA1821
Priority Poll. Acids GC/MS									
2-Chlorophenol	ug/l	< 4	.64	50.4	< 4	989	< 4	< 4	< 4
2,4-Dichlorophenol	ug/l	35.7	< 3	283	< 3	1310	< 3	< 3	4.56
2,4-Dimethylphenol	ug/l	3.28	< 3	21.9	< 3	31.6	< 3	< 3	< 3
4,6-Dinitro-o-cresol	ug/l	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30
2,4-Dinitrophenol	ug/l	< 47.2	< 50	< 50	< 50	< 50	< 50	< 40	< 50
2-Nitrophenol	ug/l	< 4	< 3.96	< 4.04	< 4	< 4.00	< 4	< 4	< 4
4-Nitrophenol	ug/l	< 2.70	< 2.64	< 2.70	< 3	< 2.67	< 3	< 3	< 3
p-Chloro-m-cresol	ug/l	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Pentachlorophenol	ug/l	< 4	< 4	< 4	< 4	13.3	< 4	< 4	< 4
Phenol	ug/l	403	< 2	236	< 2	4290	< 2	< 2	< 2
2,4,6-Trichlorophenol	ug/l	< 3	< 3	2.7	< 3	3.60	< 3	< 3	< 3
Priority Poll. B/Ns GC/MS									
Acenaphthene	ug/l	.88	1.7	8.37	< 2	3.51	< 2	< 2	< 2
Acenaphthylene	ug/l	< 3.93	< 4	< 4	< 4	< 3.89	< 4	< 4	< 4
Anthracene	ug/l	< 2.13	< 2.09	2.26	< 2	< 2.11	< 2	< 2	< 2
Benzo(a)anthracene	ug/l	< 9	< 9	1.6	< 9	< 9	< 8	< 8	< 8
Benzo(a)pyrene	ug/l	< 3	< 3	< 2.81	< 3	< 3	< 3	< 3	< 3
Benzo(b)fluoranthene	ug/l	< 5	< 5	1.4	< 5	< 5	< 5	< 5	< 5
Benzo(ghi)perylene	ug/l	< 5	< 5	< 5	< 5	< 5	< 4	< 4	< 4
Benzo(k)fluoranthene	ug/l	< 3	< 3	< 2.81	< 3	< 3	< 3	< 3	< 3
bis(2-Chloroethoxy)methane	ug/l	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
bis(2-Chloroethyl) ether	ug/l	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
bis(2-Chloroisopropyl)ether	ug/l	< 6	< 6.26	< 6.40	< 6	< 6.33	< 6	< 6	< 6
bis(2-Ethylhexyl)phthalate	ug/l	9.3	12.4	5.7	12.7	11.5	< 10	< 10	< 10
4-Bromophenyl phenyl ether	ug/l	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Butyl benzyl phthalate	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Chloronaphthalene	ug/l	< 2	< 2	< 2.13	< 2	< 2.11	< 2	< 2	< 2
4-Chlorophenyl phenyl ether	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 4	< 5
Chrysene	ug/l	< 3	< 3	< 2.81	< 3	< 3	< 3	< 3	< 3
Dibenzo(a,h)anthracene	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
1,2-Dichlorobenzene	ug/l	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,3-Dichlorobenzene	ug/l	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		W G314 891116 HA1816	W G336 891116 HA1820	W G308 891116 HA1823	W G347 891117 HA1817	W G344 891117 HA1822	W G343 891120 HA1818	W G334 891120 HA1819	W G307 891120 HA1821
1,4-Dichlorobenzene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
3,3'-Dichlorobenzidine	ug/l	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Diethyl phthalate	ug/l	< 11.2	< 10	< 10	< 10	< 11.1	< 10	< 10	< 10
Dimethyl phthalate	ug/l	< 10	< 11.0	< 11.2	< 10	< 10	< 10	< 10	< 10
Di-n-butyl phthalate	ug/l	< 11.2	.37	.33	.55	< 10	< 10	< 10	.39
2,4-Dinitrotoluene	ug/l	< 6.40	< 6	< 6	< 6	< 6	< 6	< 6	< 6
2,6-Dinitrotoluene	ug/l	< 2.13	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Di-n-octyl phthalate	ug/l	< 11.2	< 10	.64	< 10	< 10	< 10	< 10	< 10
Fluoranthene	ug/l	< 2	< 2	5.66	< 2	< 2	< 2	< 2	< 2
Fluorene	ug/l	< 2.13	.48	4.57	< 2.11	2.47	< 2.04	< 2.02	< 2.04
Hexachlorobenzene	ug/l	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Hexachlorobutadiene	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Hexachlorocyclopentadiene	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Hexachloroethane	ug/l	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Indeno(1,2,3-c,d)pyrene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Isophorone	ug/l	< 2.47	< 2.42	< 2.47	< 2	< 2.44	< 2	< 2	< 2
Naphthalene	ug/l	2.61	.53	31.8	< 2	98.7	< 2	< 2	< 2
Nitrobenzene	ug/l	< 2.13	< 2.09	< 2.13	< 2	< 2.11	< 2	< 2	< 2
N-Nitrosodimethylamine	ug/l	< 10	< 10	< 10	< 10	< 11.1	< 10	< 10	< 10
N-Nitrosodi-n-propylamine	ug/l	< 11.2	< 11.0	< 11.2	< 11.1	< 11.1	< 10.8	< 10.6	< 10.8
N-Nitrosodiphenylamine	ug/l	< 2	< 2	< 2	< 2	< 2	< 2	< 2.02	< 2
Phenanthrene	ug/l	.68	.43	12.8	< 6	1.6	< 6	< 6	< 6
Pyrene	ug/l	< 2	< 2	4.46	< 2	< 2	< 2	< 2	< 2
1,2,4-Trichlorobenzene	ug/l	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Priority Poll. Pest/PCBs GC/MS									
Aldrin	ug/l	< .05	< .05	< .5	< .05	< .6	< .05	< .05	< .05
Alpha-BHC	ug/l	< .05	< .05	< .5	< .05	< .6	< .05	< .05	< .05
Beta-BHC	ug/l	< .05	< .05	< .5	< .05	< .6	< .05	< .05	< .05
Gamma-BHC	ug/l	< .05	< .05	< .5	< .05	< .6	< .05	< .05	< .05
Delta-BHC	ug/l	< .05	< .05	< .5	< .05	< .6	< .05	< .05	< .05
Chlordane	ug/l	< 1	< 1	< 10	< 1	< 10	< 1	< 1	< 1
4,4'-DDT	ug/l	< .1	< .1	< 1	< .1	< 1	< .1	< .1	< .1
4,4'-DDE	ug/l	< .1	< .1	< 1	< .1	< 1	< .1	< .1	< .1
4,4'-DDD	ug/l	< .1	< .1	< 1	< .1	< 1	< .1	< .1	< .1
Dieldrin	ug/l	< .1	< .1	< 1	< .1	< 1	< .1	< .1	< .1

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		W G314 891116 HA1816	W G336 891116 HA1820	W G308 891116 HA1823	W G347 891117 HA1817	W G344 891117 HA1822	W G343 891120 HA1818	W G334 891120 HA1819	W G307 891120 HA1821
Endosulfan I	ug/l	< .05	< .05	< .5	< .05	< .6	< .05	< .05	< .05
Endosulfan II	ug/l	< .1	< .1	< 1	< .1	< 1	< .1	< .1	< .1
Endosulfan sulfate	ug/l	< .1	< .1	< 1	< .1	< 1	< .1	< .1	< .1
Endrin	ug/l	< .1	< .1	< 1	< .1	< 1	< .1	< .1	< .1
Endrin aldehyde	ug/l	< .1	< .1	< 1	< .1	< 1	< .1	< .1	< .1
Heptachlor	ug/l	< .05	< .05	< .5	< .05	< .6	< .05	< .05	< .05
Heptachlor epoxide	ug/l	< .05	< .05	< .5	< .05	< .6	< .05	< .05	< .05
Toxaphene	ug/l	< 2	< 2	< 20	< 2	< 20	< 2	< 2	< 2
Groundwater Conventionals									
Chloride	mg/l	2432	593	417	212	1320	23.8	426	254
Sulfate as SO4	mg/l	221	340	185	210	835	243	1400	1130
Cyanide, Total	mg/l	< .0100	< .0100	< .0100	< .0100	-	< .0100	< .0100	< .0100
Metals Analysis Data									
Antimony	ug/l	< 60	< 60	< 60	< 60	< 60	< 60	< 60	< 60
Arsenic	ug/l	150	68	170	30	130	18	94	130
Barium	ug/l	1400	720	1500	330	370	130	550	1000
Beryllium	ug/l	11	4.9	8.9	1.9	12	.29	4.4	8.5
Cadmium	ug/l	35	38	56	11	18	.80	27	60
Calcium	ug/l	1200000	688000	911000	368000	491000	127000	1050000	1350000
Chromium	ug/l	180	110	220	47	190	15	96	210
Cobalt	ug/l	81	47	110	30	31	6.4	65	170
Copper	ug/l	180	520	590	86	100	22	200	350
Iron	ug/l	-	-	-	-	-	-	-	-
Lead	ug/l	620	1100	1900	470	180	110	590	820
Magnesium	ug/l	218000	407000	400000	185000	34600	44000	262000	453000
Mercury	ug/l	.52	.70	2.0	< .20	< .20	.17	.79	.43
Nickel	ug/l	150	140	660	52	130	14	130	270
Potassium	ug/l	160000	153000	119000	28000	419000	16000	128000	72900
Selenium	ug/l	9.2	5.6	1.9	1.1	19	< 5.0	3.3	2.6
Silver	ug/l	16	18	23	5.8	8.1	< 10	17	32
Sodium	ug/l	442000	286000	292000	117000	593000	22000	176000	169000
Thallium	ug/l	7.5	< 10	4.6	< 10	8.4	< 10	3.0	5.9
Tin	ug/l	< 50	24	< 50	< 50	< 50	< 50	< 50	< 50

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below — *ETC Sample No.* | WASTE MANAGEMENT, INC. — *Company* | 705 — *Facility* | See Below — *Sample Point* | *Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		W G314 891116 HA1816	W G336 891116 HA1820	W G308 891116 HA1823	W G347 891117 HA1817	W G344 891117 HA1822	W G343 891120 HA1818	W G334 891120 HA1819	W G307 891120 HA1821
Vanadium	ug/l	300	190	320	89	360	27	180	340
Zinc	ug/l	1400	1300	1900	370	1100	95	860	1200
Field Parameters									
pH (Field)	std	7.06	8.50	9.51	7.83	10.07	7.78	8.61	7.65
Specific Conductance (Field)	um/cm	7670	3130	2290	1480	5520	758	3360	2800
Groundwater Elevation	Feet	584.24	580.21	584.39	586.11	583.88	586.23	586.98	586.12
Temperature	Deg. C	12.9	10.5	12.0	14.3	15.0	13.7	13.3	14.5
Depth to Water	Feet	7.14	12.74	8.79	6.09	9.15	5.70	5.48	4.59
Well Depth	Feet	18.02	18.80	15.16	13.50	18.14	17.91	13.73	16.74
Stick-Up	Feet	2.47	2.50	2.73	2.43	2.32	2.85	2.41	2.20
Groundwater Pesticides									
Methoxychlor	ug/l	< .5	< .5	< 5	< .5	< 6	< .5	< .5	< .5
Groundwater Herbicides									
2,4-D	ug/l	< 40	< 40	< 40	< 5	< 5	< 5	< 5	< 5
2,4,5-TP (Silvex)	ug/l	< 7	< 7	< 7	< 1	< 1	< 1	< 1	< 1
Aroclors by GC									
Aroclor 1242	ug/l	< .5	< .5	< 5	< .5	< 6	< .5	< .5	< .5
Aroclor 1254	ug/l	< 1	< 1	< 10	< 1	< 10	< 1	< 1	< 1
Aroclor 1260	ug/l	< 1	< 1	< 10	< 1	< 10	< 1	< 1	< 1
Aroclor 1248	ug/l	< .5	< .5	< 5	< .5	< 6	< .5	< .5	< .5
Aroclor 1232	ug/l	< .5	< .5	< 5	< .5	< 6	< .5	< .5	< .5
Aroclor 1221	ug/l	< .5	< .5	< 5	< .5	< 6	< .5	< .5	< .5
Aroclor 1016	ug/l	< .5	< .5	< 5	< .5	< 6	< .5	< .5	< .5
Miscellaneous Parameters									
1,1,1,2-Tetrachloroethane	ug/l	< 1000	< 10	< 10	< 10	< 100	< 10	< 10	< 10
1,2,3-Trichloropropane	ug/l	< 1000	< 10	< 10	< 10	< 100	< 10	< 10	< 10
1,2,4,5-Tetrachlorobenzene	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below				See Below	
ETC Sample No.	WASTE MANAGEMENT, INC.	*Company*	705 *Facility*	*Sample Point*	*Date*

Parameters	*Units*	W G314 891116 HA1816	W G336 891116 HA1820	W G308 891116 HA1823	W G347 891117 HA1817	W G344 891117 HA1822	W G343 891120 HA1818	W G334 891120 HA1819	W G307 891120 HA1821
		Sample Points, Sampling Dates, and ETC Sample No.'s							
1,2-Dibromo-3-chloropropane	ug/l	< 1000	< 10	< 10	< 10	< 100	< 10	< 10	< 10
1,2-Dibromoethane	ug/l	< 1000	< 10	< 10	< 10	< 100	< 10	< 10	< 10
1,4-Dichloro-2-butene	ug/l	< 1000	< 10.0	< 10.0	< 10.0	< 100	< 10.0	< 10.0	< 10.0
1,4-Dioxane	ug/l	<30000	< 300	39.3	82.7	< 300	< 300	< 300	140
1,4-Naphthoquinone	ug/l	< 10	< 10	< 10	< 10	< 11.1	< 10	< 10	< 10
1-Naphthylamine	ug/l	< 11.2	< 10	< 10	< 10	< 11.1	< 10	< 10	< 10
2,3,4,6-Tetrachlorophenol	ug/l	< 10	< 10	< 10	< 10	4.6	< 10	< 10	< 10
2,3,7,8-TCDD	ppt	< 3	< 1	< 2	< 2	< 1	< .6	< .8	< .8
2,3,7,8-TCDF	ppt	< 2	< .8	< 1	< .9	< 1	< .2	< .3	< .6
2,4,5-T	ug/l	< 7	< 7	< 7	< 1	< 1	< 1	< 1	< 1
2,4,5-Trichlorophenol	ug/l	< 10	< 10	< 11.2	< 10	29.0	< 10	< 10	< 10
2,6-Dichlorophenol	ug/l	< 11.2	< 10	14.4	< 10	134	< 10	< 10	< 10.8
2-Acetylaminofluorene	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Chloro-1,3-butadiene	ug/l	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	ug/l	< 1000	< 10	< 10.0	< 10.0	< 100	< 10	< 10	< 10
2-Methylnaphthalene	ug/l	< 11.2	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Naphthylamine	ug/l	< 11.2	< 10	< 10	< 10	< 11.1	< 10	< 10	< 10
2-Picoline	ug/l	< 10	< 10	< 10	< 10	3.4	< 10	< 10	< 10
2-sec-Butyl-4,6-dinitrophenol	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
3,3'-Dimethylbenzidine	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
3-Methylcholanthrene	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-Aminobiphenyl	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-Nitroquinoline-N-oxide	ug/l	IND	IND	IND	IND	IND	IND	IND	IND
5-Nitro-o-toluidine	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
7,12-Dimethylbenzo(a)anthracen	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acetone	ug/l	760	9.7	88.4	23.7	1100	20.3	8.3	11.7
Acetonitrile	ug/l	3210	< 20	17.7	8.97	13.4	< 20	< 20	< 20
Acetophenone	ug/l	1.7	< 10	< 10	< 10	11.5	< 10	< 10	< 10
Aniline	ug/l	< 10	< 10	6.6	< 10	1070	< 10	< 10	< 10
Aramite	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Benzyl alcohol	ug/l	< 11.2	< 10	1.2	< 10	< 11.1	< 10	< 10	< 10
Carbon disulfide	ug/l	< 1000	< 10.0	< 10.0	< 10	< 100	< 10	< 10	< 10
Chlorobenzilate	ug/l	< 3	< 3	< 30	< 3	< 30	< 3	< 3	< 3
Diallate	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Dibenzofuran	ug/l	< 11.2	< 10	3.5	< 10	2.3	< 10	< 10	< 10
Dibromomethane	ug/l	< 1000	< 10	< 10	< 10	< 100	< 10	< 10	< 10
Dimethoate	ug/l	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		W G314 891116 HA1816	W G336 891116 HA1820	W G308 891116 HA1823	W G347 891117 HA1817	W G344 891117 HA1822	W G343 891120 HA1818	W G334 891120 HA1819	W G307 891120 HA1821
Diphenylamine	ug/l	< 11.2	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Disulfoton	ug/l	< .5	< .5	< .5	< .5	< .6	< .5	< .5	< .5
Ethyl cyanide	ug/l	< 4000	< 40	< 40	14.1	< 40	< 40	< 40	< 40
Ethyl methacrylate	ug/l	< 1000	< 10	< 10	< 10	< 100	< 10	< 10	< 10
Ethyl methanesulfonate	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Famphur	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Hexachlorophene	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Hexachloropropene	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
HxCDD	ppt	< 30	< 3	< 5	< 4	< 2	< .2	< .3	< .5
HxCDF	ppt	< 20	< 1	< 3	< 2	< 1	< .7	< .5	< 1
Iodomethane	ug/l	IND	IND	IND	IND	IND	IND	IND	IND
Isobutyl alcohol	ug/l	<20000	< 200	< 200	21.2	< 200	< 200	< 200	< 200
Isodrin	ug/l	< 7	< 6	< 7	< 7	< 7	< 6	< 6	< 6
Isosafrole	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Kepone	ug/l	< .5	< .5	< 5	< .5	< 6	< .5	< .5	< .5
Methacrylonitrile	ug/l	<10000	< 100	< 100	4.5	< 100	< 100	< 100	< 100
Methapyrilene	ug/l	IND	IND	IND	IND	IND	IND	IND	IND
Methyl ethyl ketone	ug/l	< 1000	< 10	18.8	< 10	< 100	< 10	< 10	< 10
Methyl methacrylate	ug/l	< 1000	< 10	< 10	< 10	< 100	< 10	< 10	< 10
Methyl methanesulfonate	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methyl parathion	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methyl-iso-butyl ketone	ug/l	< 1000	< 10	18.6	5.1	2310	< 10	< 10	< 10
N-Nitrosodi-n-butylamine	ug/l	< 10	< 10	< 11.2	< 10	< 11.1	< 10	< 10	< 10
N-Nitrosodiethylamine	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
N-Nitrosomethylethylamine	ug/l	< 11.2	< 10	< 10	< 10	< 11.1	< 10	< 10	< 10
N-Nitrosomorpholine	ug/l	< 11.2	< 10	< 10	< 10	< 10	< 10	< 10	< 10
N-Nitrosopiperidine	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
N-Nitrosopyrrolidine	ug/l	IND	IND	IND	IND	IND	IND	IND	IND
O,O,O-Triethyl phosphorothioat	ug/l	IND	IND	IND	IND	IND	IND	IND	IND
PCDD	ppt	< 5	< 6	< 6	< 4	< 5	< 3	< 3	< 4
PCDF	ppt	< 4	< 1	< 5	< 2	< 3	< 1	< .6	< 1
Parathion	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Pentachlorobenzene	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Pentachloroethane	ug/l	IND	IND	IND	IND	IND	IND	IND	IND
Pentachloronitrobenzene	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Phenacetin	ug/l	< 10	< 10	< 10	< 10	< 11.1	< 10	< 10	< 10
Phorate	ug/l	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below ETC Sample No.	Company	Facility	See Below Sample Point	Date
	WASTE MANAGEMENT, INC.	705		

Parameters	Units	W G314 891116 HA1816	W G336 891116 HA1820	W G308 891116 HA1823	W G347 891117 HA1817	W G344 891117 HA1822	W G343 891120 HA1818	W G334 891120 HA1819	W G307 891120 HA1821
		Sample Points, Sampling Dates, and ETC Sample No.'s							
Pronamide	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Pyridine	ug/l	28	< 90	.72	< 90	7.1	< 90	< 90	< 90
Safrole	ug/l	< 11.2	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Styrene	ug/l	< 1000	< 10	< 10	< 10.0	< 100	< 10	< 10	< 10
Sulfide as S	mg/l	2.0	5.7	17.3	.30	18.6	< .25	1.6	2.3
TCDD	ppt	< 4	< 2	< 4	< 3	< 3	< .9	< .8	< 1
TCDF	ppt	< 2	< .9	< 2	< 1	< 1	< .2	< .3	< .6
Tetraethyldithiopyrophosphate	ug/l	IND	IND	IND	IND	IND	IND	IND	IND
Thionazin	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Vinyl acetate	ug/l	< 1000	< 10	< 10	< 10	< 100	< 10	< 10	< 10.0
a-a-Dimethylphenethylamine	ug/l	IND	IND	IND	IND	IND	IND	IND	IND
m+p-Cresols	ug/l	243	< 10	188	< 10	514	< 10	< 10	< 10
m-Dinitrobenzene	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
m-Nitroaniline	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
m-Xylene	ug/l	< 1000	< 10	< 10.0	< 10.0	219	< 10	< 10	< 10
o+p-Xylenes	ug/l	< 1000	< 10	< 10.0	< 10.0	179	< 10	< 10	< 10
o-Cresol	ug/l	< 11.2	< 10	11.8	< 10	86.4	< 10	< 10	< 10
o-Nitroaniline	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
o-Toluidine	ug/l	< 10	< 10	< 10	< 10	232	< 10	< 10	< 10
p-Chloroaniline	ug/l	< 11.2	.64	24.6	< 10	5570	< 10	< 10	< 10
p-Dimethylaminoazobenzene	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
p-Nitroaniline	ug/l	< 11.2	< 10	< 10	< 10	< 10	< 10	< 10	< 10
p-phenylenediamine	ug/l	IND	IND	IND	IND	IND	IND	IND	IND
sym-Trinitrobenzene	ug/l	IND	IND	IND	IND	IND	IND	IND	IND

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected "-"=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below				See Below	
ETC Sample No.	*Company*		*Facility*	*Sample Point*	*Date*
	WASTE MANAGEMENT, INC.		705		

Parameters	*Units*	W G349 891120 HA1824	X 01FB 891120 HA1838	W G348DUP 891121 HA1825	W G348 891121 HA1826	W G330 891121 HA1827	W G342 891121 HA1828	W G330DUP 891121 HA1829	W G344 891121 HA1852
		Sample Points, Sampling Dates, and ETC Sample No.'s							
Priority Poll. Volatiles GC/MS									
Acrolein	ug/l	< 20	< 20	< 20	< 200	97.5	< 20	< 20.0	-
Acrylonitrile	ug/l	< 10.0	< 10	< 10	< 100	< 10	< 10.0	< 10	-
Benzene	ug/l	41.3	< 4.40	78	83	34	< 44.0	33	-
Bromoform	ug/l	< 20	< 5	< 200	< 200	< 50	< 50	< 50	-
Carbon tetrachloride	ug/l	< 10	< 3	< 100	< 100	< 30	< 30	< 30	-
Chlorobenzene	ug/l	16	< 6	< 300	< 300	< 60	< 60	< 60	-
Chlorodibromomethane	ug/l	< 20	< 3	< 200	< 200	< 30	< 30	< 30	-
Chloroethane	ug/l	< 50	< 10	< 500	< 500	< 100	< 100	< 100	-
Chloroform	ug/l	< 8	< 2	< 80	< 80	< 20	< 20	< 20	-
Dichlorobromomethane	ug/l	< 10	< 2	< 100	< 100	< 20	< 20	< 20	-
Dichlorodifluoromethane	ug/l	< 50	< 10	< 500	< 500	< 100	< 100	< 100	-
1,1-Dichloroethane	ug/l	30.9	< 5	< 200	< 235	13	< 47.0	< 50	-
1,2-Dichloroethane	ug/l	19.4	< 3	< 140	< 140	< 30	< 30	< 30	-
1,1-Dichloroethylene	ug/l	< 10	< 3	61	< 140	539	34.5	505	-
1,2-Dichloropropane	ug/l	< 30	< 6	< 300	< 300	< 60	< 60	< 60	-
cis-1,3-Dichloropropylene	ug/l	< 30	< 5	< 300	< 300	< 50	< 50	< 50	-
Ethylbenzene	ug/l	66.5	< 7	110	130	< 70	< 70	< 70	-
Methyl bromide	ug/l	< 50	< 10	< 500	< 500	< 100	< 100	< 100	-
Methyl chloride	ug/l	< 50	< 10	< 500	< 500	< 100	< 100	< 100	-
Methylene chloride	ug/l	41.0	5.57	490	481	83.0	135	70.6	-
1,1,2,2-Tetrachloroethane	ug/l	< 30	< 7	< 300	< 300	< 70	< 70	< 70	-
Tetrachloroethylene	ug/l	128	< 4	< 200	< 200	< 40	< 40	< 40	-
Toluene	ug/l	353	< 6.00	240	280	27	< 60.0	25	-
1,2-Trans-dichloroethylene	ug/l	15.8	< 2	< 80	< 80	52.9	< 20	48.9	-
1,1,1-Trichloroethane	ug/l	< 20	< 3.80	< 190	< 200	< 40	< 40	< 40	-
1,1,2-Trichloroethane	ug/l	< 30	< 5.00	< 300	< 300	< 50	< 50	< 50	-
Trichloroethylene	ug/l	17.9	< 2	< 100	< 100	70.8	< 20	71.4	-
Trichlorofluoromethane	ug/l	< 50	< 10.0	< 500	< 500	< 100	< 100	< 100	-
Vinyl chloride	ug/l	< 50	< 10	957	954	1100	< 100	< 100	-
trans-1,3-Dichloropropylene	ug/l	< 50	< 10	< 500	< 500	< 100	< 100	< 100	-

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		W G349 891120 HA1824	X 01FB 891120 HA1838	W G348DUP 891121 HA1825	W G348 891121 HA1826	W G330 891121 HA1827	W G342 891121 HA1828	W G330DUP 891121 HA1829	W G344 891121 HA1852
Priority Poll. Acids GC/MS									
2-Chlorophenol	ug/l	30.2	< 3	2370	2730	< 4	671	< 3	-
2,4-Dichlorophenol	ug/l	94.4	< 3	237	186	22.6	464	21.8	-
2,4-Dimethylphenol	ug/l	3.75	< 3	14	15	1.7	29.1	1.6	-
4,6-Dinitro-o-cresol	ug/l	< 20	< 20	< 300	< 300	< 30	< 30	< 20	-
2,4-Dinitrophenol	ug/l	< 40	< 40	< 500	< 500	< 40	< 40	< 40	-
2-Nitrophenol	ug/l	< 4	< 4	< 40	< 40	< 4	< 4	< 4	-
4-Nitrophenol	ug/l	< 2	< 2	< 30	< 30	< 2.55	< 3	< 2.45	-
p-Chloro-m-cresol	ug/l	< 3	< 3	< 40	< 40	< 3	< 3	< 3	-
Pentachlorophenol	ug/l	< 4	< 4	< 40	< 40	< 4	< 4	< 4	-
Phenol	ug/l	350	< 2	< 20	231	22.0	67700	22.3	-
2,4,6-Trichlorophenol	ug/l	3.79	< 3	< 30	< 30	< 3	28.2	< 3	-
Priority Poll. B/Ns GC/MS									
Acenaphthene	ug/l	< 2	< 2	< 20	< 20	1.2	< 2	1.3	-
Acenaphthylene	ug/l	< 4	< 4	< 40	< 40	< 4	< 4	< 4	-
Anthracene	ug/l	< 2	< 2	< 20	< 20	< 2.02	< 2	< 1.94	-
Benzo(a)anthracene	ug/l	< 8	< 8	< 90	< 90	< 8	< 8	< 8	-
Benzo(a)pyrene	ug/l	< 3	< 3	< 30	< 30	< 3	< 3	< 3	-
Benzo(b)fluoranthene	ug/l	< 5	< 5	< 60	< 60	< 5	< 5	< 5	-
Benzo(ghi)perylene	ug/l	< 4	< 4	< 50	< 50	< 4	< 4	< 4	-
Benzo(k)fluoranthene	ug/l	< 3	< 3	< 30	< 30	< 3	< 3	< 3	-
bis(2-Chloroethoxy)methane	ug/l	< 5	< 5	< 60	< 60	< 6	< 6	< 5	-
bis(2-Chloroethyl) ether	ug/l	< 6	< 6	< 70	< 70	< 6	< 6	< 6	-
bis(2-Chloroisopropyl)ether	ug/l	< 6	< 6	< 67.1	< 67.1	< 6	< 5.94	< 6	-
bis(2-Ethylhexyl)phthalate	ug/l	< 10	< 10	< 100	< 100	< 10	< 10	< 10	-
4-Bromophenyl phenyl ether	ug/l	< 2	< 2	< 20	< 20	< 2	< 2	< 2	-
Butyl benzyl phthalate	ug/l	< 10	< 10	< 100	< 100	< 10	< 10	< 10	-
2-Chloronaphthalene	ug/l	< 2	< 2	< 20	< 20	< 2	< 1.98	< 2	-
4-Chlorophenyl phenyl ether	ug/l	< 4	< 4	< 50	< 50	< 4	< 4	< 4	-
Chrysene	ug/l	< 3	< 3	< 30	< 30	< 3	< 3	< 3	-
Dibenzo(a,h)anthracene	ug/l	< 10	< 10	< 118	< 118	< 10	< 10	< 10	-
1,2-Dichlorobenzene	ug/l	< 2	< 2	< 20	< 20	< 2	< 2	< 2	-
1,3-Dichlorobenzene	ug/l	< 2	< 2	< 20	< 20	< 2	< 2	< 2	-

Footnotes: BMDL=Below Method Detection Limit NO=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		W G349 891120 HA1824	X 01FB 891120 HA1838	W G348DUP 891121 HA1825	W G348 891121 HA1826	W G330 891121 HA1827	W G342 891121 HA1828	W G330DUP 891121 HA1829	W G344 891121 HA1852
1,4-Dichlorobenzene	ug/l	< 4	< 5	< 50	< 50	< 5	< 5	< 4	-
3,3'-Dichlorobenzidine	ug/l	< 20	< 20	< 200	< 200	< 20	< 20	< 20	-
Diethyl phthalate	ug/l	< 10	< 10	< 118	< 118	< 10	< 10	< 10	-
Dimethyl phthalate	ug/l	< 10.1	< 10	< 100	< 100	< 10.6	< 10.4	< 10.2	-
Di-n-butyl phthalate	ug/l	.74	< 10	< 100	< 100	< 10	< 10	.44	-
2,4-Dinitrotoluene	ug/l	< 6	< 6	< 70	< 70	< 6	< 6	< 6	-
2,6-Dinitrotoluene	ug/l	< 2	< 2	< 20	< 20	< 2	< 2	< 2	-
Di-n-octyl phthalate	ug/l	< 10	< 10	< 100	< 100	< 10	< 10	< 10	-
Fluoranthene	ug/l	< 2	< 2	< 30	< 30	.84	< 2	1.0	-
Fluorene	ug/l	< 1.92	< 1.96	< 20	< 20	1.3	< 1.98	1.4	-
Hexachlorobenzene	ug/l	< 2	< 2	< 20	< 20	< 2	< 2	< 2	-
Hexachlorobutadiene	ug/l	< .9	< .9	< 10	< 10	< 1	< .9	< .9	-
Hexachlorocyclopentadiene	ug/l	< 10	< 10	< 100	< 100	< 10	< 10	< 10	-
Hexachloroethane	ug/l	< 2	< 2	< 20	< 20	< 2	< 2	< 2	-
Indeno(1,2,3-c,d)pyrene	ug/l	< 5	< 5	< 60	< 60	< 5	< 5	< 5	-
Isophorone	ug/l	.49	< 2	< 25.9	11	< 2	< 2.29	< 2	-
Naphthalene	ug/l	7.81	< 2	40.9	42.14	6.20	< 1.67	6.22	-
Nitrobenzene	ug/l	< 2	< 2	< 20	< 20	< 2	< 2	< 2	-
N-Nitrosodimethylamine	ug/l	< 10.1	< 10	< 118	< 118	< 10	< 10	< 10	-
N-Nitrosodi-n-propylamine	ug/l	< 10.1	< 10.3	< 100	< 100	< 10.6	< 10.4	< 10.2	-
N-Nitrosodiphenylamine	ug/l	< 2	< 2	< 20	< 20	< 2	< 2	< 2	-
Phenanthrene	ug/l	< 5	< 6	< 60	< 60	2.4	< 6	2.6	-
Pyrene	ug/l	< 2	< 2	< 20	< 20	.66	< 2	.85	-
1,2,4-Trichlorobenzene	ug/l	< 2	< 2	< 20	< 20	< 2	< 2	< 2	-
Priority Poll. Pest/PCBs GC/MS									
Aldrin	ug/l	< .05	< .05	< .5	< .5	< .5	< .5	< .5	-
Alpha-BHC	ug/l	< .05	< .05	< .5	< .5	< .5	< .5	< .5	-
Beta-BHC	ug/l	< .05	< .05	< .5	< .5	< .5	< .5	< .5	-
Gamma-BHC	ug/l	< .05	< .05	< .5	< .5	< .5	< .5	< .5	-
Delta-BHC	ug/l	< .05	< .05	< .5	< .5	< .5	< .5	< .5	-
Chlordane	ug/l	< 1	< 1	< 10	< 10	< 10	< 10	< 10	-
4,4'-DDT	ug/l	< .1	< .1	< 1	< 1	< 1	< 1	< 1	-
4,4'-DDE	ug/l	< .1	< .1	< 1	< 1	< 1	< 1	< 1	-
4,4'-DDD	ug/l	< .1	< .1	< 1	< 1	< 1	< 1	< 1	-
Dieldrin	ug/l	< .1	< .1	< 1	< 1	< 1	< 1	< 1	-

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		W G349 891120 HA1824	X UIFB 891120 HA1838	W G348DUP 891121 HA1825	W G348 891121 HA1826	W G330 891121 HA1827	W G342 891121 HA1828	W G330DUP 891121 HA1829	W G344 891121 HA1852
Endosulfan I	ug/l	< .05	< .05	< .5	< .5	< .5	< .5	< .5	-
Endosulfan II	ug/l	< .1	< .1	< 1	< 1	< 1	< 1	< 1	-
Endosulfan sulfate	ug/l	< .1	< .1	< 1	< 1	< 1	< 1	< 1	-
Endrin	ug/l	< .1	< .1	< 1	< 1	< 1	< 1	< 1	-
Endrin aldehyde	ug/l	< .1	< .1	< 1	< 1	< 1	< 1	< 1	-
Heptachlor	ug/l	< .05	< .05	< .5	< .5	< .5	< .5	< .5	-
Heptachlor epoxide	ug/l	< .05	< .05	< .5	< .5	< .5	< .5	< .5	-
Toxaphene	ug/l	< 2	< 2	< 20	< 20	< 20	< 20	< 20	-
Groundwater Conventionals									
Chloride	mg/l	549	< 1.0	1043	1024	371	1752	1776	-
Sulfate as SO4	mg/l	390	< 5.0	158	154	260	1850	259	-
Cyanide, Total	mg/l	< .0100	< .0100	< .0100	< .0100	< .0100	< .0100	< .0100	< .0100
Metals Analysis Data									
Antimony	ug/l	< 60	< 60	< 60	< 60	< 60	< 60	18	-
Arsenic	ug/l	190	3.8	84	65	39	1600	54	-
Barium	ug/l	710	< 20	700	880	220	460	240	-
Beryllium	ug/l	23	< 1.0	9.0	9.4	2.7	35	2.8	-
Cadmium	ug/l	56	< 2.0	22	22	11	70	9.8	-
Calcium	ug/l	524000	240	241000	227000	179000	1420000	190000	-
Chromium	ug/l	380	< 10	130	140	78	490	83	-
Cobalt	ug/l	69	< 20	23	28	27	51	30	-
Copper	ug/l	220	< 10	82	130	88	280	110	-
Iron	ug/l	-	-	59700	72700	53400	167000	67400	-
Lead	ug/l	270	4.2	780	840	210	360	240	-
Magnesium	ug/l	58300	< 100	124000	123000	70700	74800	65500	-
Mercury	ug/l	.20	< .20	.74	.69	.37	.55	.41	-
Nickel	ug/l	210	< 20	75	90	67	190	73	-
Potassium	ug/l	278000	< 500	435000	439000	29000	156000	27000	-
Selenium	ug/l	29	< 5.0	14	8.7	8.7	16	7.0	-
Silver	ug/l	8.5	< 10	6.7	< 10	6.3	12	< 10	-
Sodium	ug/l	352000	< 500	355000	346000	236000	1080000	217000	-
Thallium	ug/l	20	< 10	2.8	2.8	< 10	26	< 10	-
Tin	ug/l	< 50	< 50	< 50	15	< 50	< 50	36	-

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below — WASTE MANAGEMENT, INC. — 705 — See Below

ETC Sample No. — *Company* — *Facility* — *Sample Point* — *Date*

Parameters	Units	Sample Points, Sampling Dates, and ETC Sample No.'s							
		W G349 891120 HA1824	X 01FB 891120 HA1838	W G348DUP 891121 HA1825	W G348 891121 HA1826	W G330 891121 HA1827	W G342 891121 HA1828	W G330DUP 891121 HA1829	W G344 891121 HA1852
Vanadium	ug/l	690	< 20	240	230	120	1300	120	-
Zinc	ug/l	2230	6.7	1200	1300	360	3050	360	-
Field Parameters									
pH (Field)	std	10.38	7.25	8.59	8.59	9.10	9.50	9.10	-
Specific Conductance (Field)	um/cm	2940	1.89	4750	4750	1700	7310	1700	-
Groundwater Elevation	Feet	585.72	-	584.39	584.39	583.67	579.69	583.67	-
Temperature	Deg. C	14.6	14.5	15.0	15.0	13.6	15.1	13.6	-
Depth to Water	Feet	7.70	-	8.50	8.50	9.16	12.77	9.16	-
Well Depth	Feet	13.11	-	10.54	10.54	19.65	16.92	19.65	-
Stick-Up	Feet	2.39	-	-	-	-	-	-	-
Groundwater Pesticides									
Methoxychlor	ug/l	< .5	< .5	< 5	< 5	< 5	< 5	< 5	-
Groundwater Herbicides									
2,4-D	ug/l	< 5	< 5	< 40	< 40	< 40	< 40	< 40	-
2,4,5-TP (Silvex)	ug/l	< 1	< 1	< 7	< 8	< 7	< 8	< 7	-
Aroclors by GC									
Aroclor 1242	ug/l	< .5	< .5	< 5	< 5	< 5	< 5	< 5	-
Aroclor 1254	ug/l	< 1	< 1	< 10	< 10	< 10	< 10	< 10	-
Aroclor 1260	ug/l	< 1	< 1	< 10	< 10	< 10	< 10	< 10	-
Aroclor 1248	ug/l	< .5	< .5	< 5	< 5	< 5	< 5	< 5	-
Aroclor 1232	ug/l	< .5	< .5	< 5	< 5	< 5	< 5	< 5	-
Aroclor 1221	ug/l	< .5	< .5	< 5	< 5	< 5	< 5	< 5	-
Aroclor 1016	ug/l	< .5	< .5	< 5	< 5	< 5	< 5	< 5	-
Miscellaneous Parameters									
1,1,1,2-Tetrachloroethane	ug/l	< 50	< 10	< 500	< 500	< 100	< 100	< 100	-
1,2,3-Trichloropropane	ug/l	< 50	< 10	< 500	< 500	< 100	< 100	< 100	-
1,2,4,5-Tetrachlorobenzene	ug/l	< 10	< 10	< 100	< 100	< 10	< 10	< 10	-

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		W G349 891120 HA1824	X 01FB 891120 HA1838	W G348DUP 891121 HA1825	W G348 891121 HA1826	W G330 891121 HA1827	W G342 891121 HA1828	W G330DUP 891121 HA1829	W G344 891121 HA1852
1,2-Dibromo-3-chloropropane	ug/l	< 50	< 10	< 500	< 500	< 100	< 100	< 100	-
1,2-Dibromoethane	ug/l	< 50	< 10	< 500	< 500	< 100	< 100	< 100	-
1,4-Dichloro-2-butene	ug/l	< 50.0	< 10.0	< 500	< 500	< 100	< 100	< 100	-
1,4-Dioxane	ug/l	< 300	< 300	507	< 3000	< 300	180	< 300	-
1,4-Naphthoquinone	ug/l	< 10	< 10	< 100	< 100	< 10	< 10	< 10	-
1-Naphthylamine	ug/l	< 10.1	< 10	< 100	< 100	< 10	< 10	< 10	-
2,3,4,6-Tetrachlorophenol	ug/l	< 10	< 10	< 100	< 100	< 10	< 10	< 10	-
2,3,7,8-TCDD	ppt	< .7	< .7	< 1	< 1	< .8	< 1	< 2	-
2,3,7,8-TCDF	ppt	< .2	< .2	< .3	< .2	< .2	< .3	< .3	-
2,4,5-T	ug/l	< 1	< 1	< 7	< 8	< 7	< 8	< 7	-
2,4,5-Trichlorophenol	ug/l	< 10.1	< 10	< 100	< 100	< 10	< 10.4	< 10	-
2,6-Dichlorophenol	ug/l	13.4	< 10	< 118	< 118	5.0	288	5.4	-
2-Acetylaminofluorene	ug/l	< 10	< 10	< 100	< 100	< 10	< 10	< 10	-
2-Chloro-1,3-butadiene	ug/l	ND	ND	ND	ND	ND	ND	ND	-
2-Hexanone	ug/l	< 50	< 10	< 500	< 500	< 100	< 100	< 100	-
2-Methylnaphthalene	ug/l	< 10	< 10	8.8	8.8	2.1	< 10	2.3	-
2-Naphthylamine	ug/l	< 10.1	< 10	< 100	< 100	< 10	< 10	< 10	-
2-Picoline	ug/l	< 10	< 10	< 100	< 100	< 10	< 10	< 10	-
2-sec-Butyl-4,6-dinitrophenol	ug/l	< 10	< 10	< 100	< 100	< 10	< 10	< 10	-
3,3'-Dimethylbenzidine	ug/l	< 10	< 10	< 100	< 100	< 10	< 10	< 10	-
3-Methylcholanthrene	ug/l	< 10	< 10	< 100	< 100	< 10	< 10	< 10	-
4-Aminobiphenyl	ug/l	< 10	< 10	< 100	< 100	< 10	< 10	< 10	-
4-Nitroquinoline-N-oxide	ug/l	IND	IND	IND	IND	IND	IND	IND	-
5-Nitro-o-toluidine	ug/l	< 10	< 10	< 100	< 100	< 10	< 10	< 10	-
7,12-Dimethylbenzo(a)anthracen	ug/l	< 10	< 10	< 100	< 100	< 10	< 10	< 10	-
Acetone	ug/l	376	6.1	634	586	51	875	41	-
Acetonitrile	ug/l	< 20	< 20	410	362	< 20	< 20	< 20	-
Acetophenone	ug/l	2.6	< 10	19	< 100	.77	< 10	.75	-
Aniline	ug/l	< 10	< 10	2680	3250	< 10	< 10	< 10	-
Aramite	ug/l	< 10	< 10	< 100	< 100	< 10	< 10	< 10	-
Benzyl alcohol	ug/l	< 10	< 10	< 100	< 100	< 10	< 10	< 10	-
Carbon disulfide	ug/l	< 50	< 10	< 500	< 500	< 100	< 100	< 100	-
Chlorobenzilate	ug/l	< 3	< 3	< 30	< 30	< 30	< 30	< 30	-
Diallate	ug/l	< 10	< 10	< 100	< 100	< 10	< 10	< 10	-
Dibenzofuran	ug/l	< 10.1	< 10	< 100	< 100	.63	< 10	.67	-
Dibromomethane	ug/l	< 50	< 10	< 500	< 500	< 100	< 100	< 100	-
Dimethoate	ug/l	< 3	< 3	< 3	< 3	< 3	< 3	< 3	-

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

DATE: 10/14/93
PAGE: 15

Chain of Custody Data Required for ETC Data Management Summary Report

See Below — *ETC Sample No.* | WASTE MANAGEMENT, INC. — *Company* | 705 — *Facility* | See Below — *Sample Point* — *Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		W G349 891120 HA1824	X 01FB 891120 HA1838	W G348DUP 891121 HA1825	W G348 891121 HA1826	W G330 891121 HA1827	W G342 891121 HA1828	W G330DUP 891121 HA1829	W G344 891121 HA1852
Diphenylamine	ug/l	< 10	< 10	< 100	< 100	< 10	< 10	< 10	-
Disulfoton	ug/l	< .5	< .5	< .5	< .5	< .5	< .5	< .5	-
Ethyl cyanide	ug/l	< 40	< 40	< 40	< 400	< 40	< 40	< 40	-
Ethyl methacrylate	ug/l	< 50	< 10.0	< 500	< 500	< 100	< 100	< 100	-
Ethyl methanesulfonate	ug/l	< 10	< 10	< 100	< 100	< 10	< 10	< 10	-
Famphur	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-
Hexachlorophene	ug/l	< 10	< 10	< 100	< 100	< 10	< 10	< 10	-
Hexachloropropene	ug/l	< 10	< 10	< 100	< 100	< 10	< 10	< 10	-
HxCDD	ppt	< .3	< .3	< .3	< .2	< .3	< .4	< .4	-
HxCDF	ppt	< .4	< .7	< .6	< .5	< .5	< .9	< .8	-
Iodomethane	ug/l	IND	IND	IND	IND	IND	IND	IND	-
Isobutyl alcohol	ug/l	< 230	< 200	< 230	< 2000	< 200	59	71	-
Isodrin	ug/l	< 6	< 6	< 70	< 70	< 6	< 6	< 6	-
Isosafrole	ug/l	< 10	< 10	< 100	< 100	< 10	< 10	< 10	-
Kepone	ug/l	< .5	< .5	< 5	< 5	< 5	< 5	< 5	-
Methacrylonitrile	ug/l	< 110	< 100	< 100	< 1000	< 100	< 110	< 100	-
Methapyrilene	ug/l	IND	IND	IND	IND	IND	IND	IND	-
Methyl ethyl ketone	ug/l	< 50	< 10	< 500	< 500	< 100	144	< 100	-
Methyl methacrylate	ug/l	< 50	< 10	< 500	< 500	< 100	< 100	< 100	-
Methyl methanesulfonate	ug/l	< 10	< 10	< 100	< 100	< 10	< 10	< 10	-
Methyl parathion	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	-
Methyl-iso-butyl ketone	ug/l	171	< 10	2070	2300	22	425	< 100	-
N-Nitrosodi-n-butylamine	ug/l	< 10	< 10	< 100	< 100	< 10	< 10	< 10	-
N-Nitrosodiethylamine	ug/l	< 10	< 10	< 100	< 100	< 10	< 10	< 10	-
N-Nitrosomethylethylamine	ug/l	< 10	< 10	< 100	< 100	< 10	< 10	< 10	-
N-Nitrosomorpholine	ug/l	< 10.1	< 10	< 100	< 100	< 10	< 10	< 10	-
N-Nitrosopiperidine	ug/l	< 10	< 10	< 100	< 100	< 10	< 10	< 10	-
N-Nitrosopyrrolidine	ug/l	IND	IND	IND	IND	IND	IND	IND	-
O,O,O-Triethyl phosphorothioat	ug/l	IND	IND	IND	IND	IND	IND	IND	-
PCDD	ppt	< 4	< 3	< 7	< 8	< 4	< 4	< 5	-
PCDF	ppt	< .6	< .4	< .9	< .9	< .6	< 1	< .9	-
Parathion	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	-
Pentachlorobenzene	ug/l	< 10	< 10	< 100	< 100	< 10	< 10	< 10	-
Pentachloroethane	ug/l	IND	IND	IND	IND	IND	IND	IND	-
Pentachloronitrobenzene	ug/l	< 10	< 10	< 100	< 100	< 10	< 10	< 10	-
Phenacetin	ug/l	< 10	< 10	< 100	< 100	< 10	< 10	< 10	-
Phorate	ug/l	< 3	< 3	3.45	3.01	< 3	< 3	< 3	-

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		W G349 891120 HA1824	X 01FB 891120 HA1838	W G348DUP 891121 HA1825	W G348 891121 HA1826	W G330 891121 HA1827	W G342 891121 HA1828	W G330DUP 891121 HA1829	W G344 891121 HA1852
Pronamide	ug/l	< 10	< 10	< 100	< 100	< 10	< 10	< 10	-
Pyridine	ug/l	< 80	< 80	< 900	< 900	2.8	< 80	2.8	-
Safrole	ug/l	< 10	< 10	< 100	< 100	< 10	< 10	< 10	-
Styrene	ug/l	239	< 10	< 500	< 500	< 100	< 100	< 100	-
Sulfide as S	mg/l	.40	< .25	2.4	2.3	4.7	2.8	4.5	-
TCDD	ppt	< 1	< .8	< 2	< 3	< 1	< 2	< 2	-
TCDF	ppt	< .3	< .2	< .3	< .3	< .3	< .3	< .4	-
Tetraethyldithiopyrophosphate	ug/l	IND	IND	IND	IND	IND	IND	IND	-
Thionazin	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	-
Vinyl acetate	ug/l	< 50	< 10	< 500	< 500	< 100	< 100	< 100	-
a-a-Dimethylphenethylamine	ug/l	IND	IND	IND	IND	IND	IND	IND	-
m+p-Cresols	ug/l	42.8	< 10	206	233	30.7	339	27.2	-
m-Dinitrobenzene	ug/l	< 10	< 10	< 100	< 100	< 10	< 10	< 10	-
m-Nitroaniline	ug/l	< 10	< 10	< 100	< 100	< 10	< 10	< 10	-
m-Xylene	ug/l	205	< 10	280	320	< 100	< 100	< 100	-
o+p-Xylenes	ug/l	188	< 10	190	220	< 100	< 100	< 100	-
o-Cresol	ug/l	13.1	< 10	< 118	< 118	< 10.6	< 10	1.4	-
o-Nitroaniline	ug/l	< 10	< 10	< 100	< 100	< 10	< 10	< 10	-
o-Toluidine	ug/l	< 10	< 10	242	283	< 10	< 10	< 10	-
p-Chloroaniline	ug/l	< 10.1	< 10	5900	6350	< 10.6	< 10.4	< 10	-
p-Dimethylaminoazobenzene	ug/l	< 10	< 10	< 100	< 100	< 10	< 10	< 10	-
p-Nitroaniline	ug/l	< 10	< 10	< 118	< 100	< 10	< 10	< 10	-
p-phenylenediamine	ug/l	IND	IND	IND	IND	IND	IND	IND	-
sym-Trinitrobenzene	ug/l	IND	IND	IND	IND	IND	IND	IND	-

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		W GT23S 891127 HA1804	W GT20S 891127 HA1805	X DUP 891127 HA1806	X UT1B 891127 HA1810	W GT24S 891127 HA1807	X U6FB 891128 HA1809	W G332 891128 HA1830	W G324 891128 HA1831
Priority Poll. Volatiles GC/MS									
Acrolein	ug/l	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Acrylonitrile	ug/l	< 10.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Benzene	ug/l	257	.92	1.0	< 4	.76	< 4	20900	71.9
Bromoform	ug/l	< 50	< 5	< 5	< 5	< 5	< 5	< 9000	< 9
Carbon tetrachloride	ug/l	< 30	< 3	< 3	< 3	< 3	< 3	< 6000	< 6
Chlorobenzene	ug/l	< 60	< 6.00	< 6.00	< 6	< 6	< 6	<12000	15.9
Chlorodibromomethane	ug/l	< 30	< 3	< 3	< 3	< 3	< 3	< 6000	< 6
Chloroethane	ug/l	< 100	< 10	< 10	< 10	< 10	< 10	<20000	< 20
Chloroform	ug/l	< 20	< 2	< 2	< 2	< 2	< 2	< 3000	< 3
Dichlorobromomethane	ug/l	< 20	< 2	< 2	< 2	< 2	< 2	< 4000	< 4
Dichlorodifluoromethane	ug/l	< 100	555	37.8	< 10	< 10	< 10	<20000	< 20
1,1-Dichloroethane	ug/l	< 50	< 5	< 5	< 5	< 5	< 5	< 9000	15.4
1,2-Dichloroethane	ug/l	< 30	< 3	< 3	< 3	< 3	< 3	< 6000	47.7
1,1-Dichloroethylene	ug/l	4730	< 3	< 3	< 3	< 3	< 3	358000	< 6
1,2-Dichloropropane	ug/l	< 60	< 6	< 6	< 6	< 6	< 6	<10000	< 10
cis-1,3-Dichloropropylene	ug/l	< 50	< 5	< 5	< 5	< 5	< 5	<10000	< 10
Ethylbenzene	ug/l	< 70	< 7.20	< 7	< 7	< 7	< 7	<10000	< 14.4
Methyl bromide	ug/l	< 100	< 10	< 10	< 10	< 10	< 10	<20000	< 20
Methyl chloride	ug/l	< 100	< 10.0	< 10	< 10	< 10	< 10	<20000	< 20
Methylene chloride	ug/l	7300	3.87	11.9	7.18	5.86	4.69	67100	43.7
1,1,2,2-Tetrachloroethane	ug/l	< 70	< 7	< 7	< 7	< 7	< 7	<10000	< 10
Tetrachloroethylene	ug/l	< 40	< 4	< 4	< 4	< 4	< 4	< 8000	< 8
Toluene	ug/l	79.6	1.4	1.3	< 6	.57	1.5	14700	25.1
1,2-Trans-dichloroethylene	ug/l	15	< 1.60	< 2	< 2	< 2	< 2	< 3000	< 3
1,1,1-Trichloroethane	ug/l	< 40	< 4	< 4	< 4	< 4	< 4	< 8000	< 8
1,1,2-Trichloroethane	ug/l	713	< 5	< 5	< 5	< 5	< 5	<10000	< 10
Trichloroethylene	ug/l	< 20	< 2	< 2	< 2	< 2	< 2	< 4000	< 4
Trichlorofluoromethane	ug/l	< 100	2.4	< 10	< 10	< 10	< 10	<20000	< 20
Vinyl chloride	ug/l	6500	< 10	< 10	< 10	< 10	< 10	271000	46.7
trans-1,3-Dichloropropylene	ug/l	< 100	< 10	< 10	< 10	< 10	< 10	<20000	< 20

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below				See Below	
ETC Sample No.	WASTE MANAGEMENT, INC.	*Company*	705 *Facility*	*Sample Point*	*Date*

Parameters	*Units*	W G123S 891127 HA1804	W G120S 891127 HA1805	X DUP 891127 HA1806	X UTTB 891127 HA1810	W G124S 891127 HA1807	X U6FB 891128 HA1809	W G332 891128 HA1830	W G324 891128 HA1831
Priority Poll. Acids GC/MS									
2-Chlorophenol	ug/l	< 200	< 40	< 4	-	< 4	< 4	76	34
2,4-Dichlorophenol	ug/l	334	< 30	< 3	-	< 3	< 3	493	37
2,4-Dimethylphenol	ug/l	< 142	< 30	2.0	-	< 3	< 3	< 155	40
4,6-Dinitro-o-cresol	ug/l	< 1000	< 300	< 30	-	< 30	< 30	< 1000	< 500
2,4-Dinitrophenol	ug/l	< 2000	< 500	< 50	-	< 50	< 50	< 2000	< 900
2-Nitrophenol	ug/l	< 200	< 50	< 5	-	< 5	< 4	< 200	< 80
4-Nitrophenol	ug/l	< 100	< 30	< 3.08	-	< 3	< 3	< 138	< 50
p-Chloro-m-cresol	ug/l	< 200	< 40	< 4	-	< 4	< 4	< 200	< 70
Pentachlorophenol	ug/l	< 200	< 50	< 5	-	< 5	< 4	< 200	< 80
Phenol	ug/l	< 80	< 20	< 2	-	< 2	< 2	4590	715
2,4,6-Trichlorophenol	ug/l	< 100	< 30	< 3	-	< 3	< 3	< 200	< 60
Priority Poll. B/Ns GC/MS									
Acenaphthene	ug/l	< 100	< 20	4.40	-	< 2	< 2	< 100	< 41.3
Acenaphthylene	ug/l	< 200	< 40	< 4	-	< 4	< 4	< 200	< 80
Anthracene	ug/l	< 100	< 20	< 2.44	-	< 2	< 2	< 100	< 41.3
Benzo(a)anthracene	ug/l	< 400	< 100	< 10	-	< 10	< 9	< 400	< 200
Benzo(a)pyrene	ug/l	< 100	< 30	< 3	-	< 3	< 3	< 100	< 50
Benzo(b)fluoranthene	ug/l	< 300	< 60	< 6	-	< 6	< 6	< 300	< 100
Benzo(ghi)perylene	ug/l	< 200	< 50	< 5	-	< 5	< 5	< 200	< 90
Benzo(k)fluoranthene	ug/l	< 100	< 30	< 3	-	< 3	< 3	< 100	< 50
bis(2-Chloroethoxy)methane	ug/l	< 300	< 70	< 7	-	< 7	< 6	< 300	< 100
bis(2-Chloroethyl) ether	ug/l	< 300	< 70	< 7	-	< 7	< 7	< 300	< 100
bis(2-Chloroisopropyl)ether	ug/l	< 300	< 70	< 7	-	< 7	< 7	< 300	< 100
bis(2-Ethylhexyl)phthalate	ug/l	< 500	< 100	< 12.8	-	4.1	4.1	< 600	< 217
4-Bromophenyl phenyl ether	ug/l	< 100	< 20	< 2	-	< 2	< 2	< 100	< 40
Butyl benzyl phthalate	ug/l	< 500	< 100	< 10	-	< 10	< 10	< 600	< 200
2-Chloronaphthalene	ug/l	< 100	< 20	< 2	-	< 2	< 2	< 100	< 40
4-Chlorophenyl phenyl ether	ug/l	< 200	< 50	< 5	-	< 5	< 5	< 200	< 90
Chrysene	ug/l	< 100	< 30	< 3	-	< 3	< 3	< 100	< 50
Dibenzo(a,h)anthracene	ug/l	< 500	< 100	< 10	-	< 10	< 10	< 600	< 200
1,2-Dichlorobenzene	ug/l	< 100	< 20	< 2	-	< 2	< 2	< 100	< 40
1,3-Dichlorobenzene	ug/l	< 100	< 20	< 2	-	< 2	< 2	< 100	< 40

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below (ETC Sample No.) | WASTE MANAGEMENT, INC. (Company) | 705 (Facility) | See Below (Sample Point) | See Below (Date)

Parameters	Units	W G123S 891127 HA1804	W G120S 891127 HA1805	X DUP 891127 HA1806	X 011B 891127 HA1810	W G124S 891127 HA1807	X 06FB 891128 HA1809	W G332 891128 HA1830	W G324 891128 HA1831
		Sample Points, Sampling Dates, and ETC Sample No.'s							
1,4-Dichlorobenzene	ug/l	< 200	< 50	< 6	-	< 6	< 5	< 300	< 100
3,3'-Dichlorobenzidine	ug/l	< 900	< 200	< 20	-	< 20	< 20	< 900	< 400
Diethyl phthalate	ug/l	< 500	< 100	< 12.8	-	< 10	< 10	< 600	< 200
Dimethyl phthalate	ug/l	< 500	< 100	< 12.8	-	< 10	< 10	< 600	< 217
Di-n-butyl phthalate	ug/l	< 500	< 100	< 12.8	-	< 10	< 10	< 600	< 200
2,4-Dinitrotoluene	ug/l	< 300	< 70	< 7	-	< 7	< 7	< 300	< 100
2,6-Dinitrotoluene	ug/l	< 100	< 20	< 2	-	< 2	< 2	< 100	< 40
Di-n-octyl phthalate	ug/l	< 526	27	< 10	-	< 10	< 11.8	< 600	< 217
Fluoranthene	ug/l	< 100	< 30	< 2.82	-	< 3	< 3	< 100	< 50
Fluorene	ug/l	< 100	< 20	5.94	-	< 2.44	< 2.24	< 100	< 41.3
Hexachlorobenzene	ug/l	< 100	< 20	< 2	-	< 2	< 2	< 100	< 40
Hexachlorobutadiene	ug/l	< 50	< 10	< 1	-	< 1	< 1	< 50	< 20
Hexachlorocyclopentadiene	ug/l	< 500	< 100	< 10	-	< 10	< 10	< 600	< 200
Hexachloroethane	ug/l	< 80	< 20	< 2	-	< 2	< 2	< 90	< 30
Indeno(1,2,3-c,d)pyrene	ug/l	< 200	< 60	< 6	-	< 6	< 6	< 300	< 100
Isophorone	ug/l	< 100	< 30	< 2.82	-	< 3	< 3	< 100	< 47.8
Naphthalene	ug/l	< 84.2	< 20.0	15.2	-	< 2	< 2	46	46.5
Nitrobenzene	ug/l	< 100	< 20	< 2.44	-	< 2	< 2	< 100	< 40
N-Nitrosodimethylamine	ug/l	< 500	< 100	< 10	-	< 10	< 10	< 575	< 217
N-Nitrosodi-n-propylamine	ug/l	< 500	< 100	< 12.8	-	< 12.8	< 11.8	< 600	< 217
N-Nitrosodiphenylamine	ug/l	< 100	< 20	< 2	-	< 2	< 2	< 100	< 40
Phenanthrene	ug/l	< 300	< 70	5.5	-	< 7	< 6	< 300	< 117
Pyrene	ug/l	< 100	< 20	< 2.44	-	< 2	< 2	< 100	< 40
1,2,4-Trichlorobenzene	ug/l	< 100	< 20	< 2	-	< 2	< 2	< 100	< 40
Priority Poll. Pest/PCBs GC/MS									
Aldrin	ug/l	< .06	< .06	< .06	-	< .05	< .06	< .06	< .06
Alpha-BHC	ug/l	< .06	< .06	< .06	-	< .05	< .06	< .06	< .06
Beta-BHC	ug/l	< .06	< .06	< .06	-	< .05	< .06	< .06	< .06
Gamma-BHC	ug/l	< .06	< .06	< .06	-	< .05	< .06	< .06	< .06
Delta-BHC	ug/l	< .06	< .06	< .06	-	< .05	< .06	< .06	< .06
Chlordane	ug/l	< 1	< 1	< 1	-	< 1	< 1	< 1	< 1
4,4'-DDT	ug/l	< .1	< .1	< .1	-	< .1	< .1	< .1	< .1
4,4'-DDE	ug/l	< .1	< .1	< .1	-	< .1	< .1	< .1	< .1
4,4'-DDD	ug/l	< .1	< .1	< .1	-	< .1	< .1	< .1	< .1
Dieldrin	ug/l	< .1	< .1	< .1	-	< .1	< .1	< .1	< .1

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	Units	W G123S 891127 HA1804	W G120S 891127 HA1805	X DUP 891127 HA1806	X 011B 891127 HA1810	W G124S 891127 HA1807	X 06FB 891128 HA1809	W G332 891128 HA1830	W G324 891128 HA1831
		Sample Points, Sampling Dates, and ETC Sample No.'s							
Endosulfan I	ug/l	< .06	< .06	< .06	-	< .05	< .06	< .06	< .06
Endosulfan II	ug/l	< .1	< .1	< .1	-	< .1	< .1	< .1	< .1
Endosulfan sulfate	ug/l	< .1	< .1	< .1	-	< .1	< .1	< .1	< .1
Endrin	ug/l	< .1	< .1	< .1	-	< .1	< .1	< .1	< .1
Endrin aldehyde	ug/l	< .1	< .1	< .1	-	< .1	< .1	< .1	< .1
Heptachlor	ug/l	< .06	< .06	< .06	-	< .05	< .06	< .06	< .06
Heptachlor epoxide	ug/l	< .06	< .06	< .06	-	< .05	< .06	< .06	< .06
Toxaphene	ug/l	< 2	< 3	< 3	-	< 2	< 3	< 2	< 3
Groundwater Conventionals									
Chloride	mg/l	2092	291	29.7	-	1195	< 1.0	700	1124
Sulfate as SO4	mg/l	91.6	< 5.0	< 5.0	-	650	< 5.0	26.5	510
Cyanide, Total	mg/l	< .0100	< .0100	< .0100	-	< .0100	< .0100	< .0100	.0374
Metals Analysis Data									
Antimony	ug/l	< 60	< 60	< 60	-	< 60	< 60	< 60	< 60
Arsenic	ug/l	16	55	53	-	14	< 10	180	47
Barium	ug/l	1500	980	1000	-	140	< 20	2860	1600
Beryllium	ug/l	.45	< 1.0	.28	-	.43	< 1.0	19	4.4
Cadmium	ug/l	5.0	7.9	9.1	-	7.3	< 2.0	76	17
Calcium	ug/l	387000	140000	146000	-	515000	190	910000	647000
Chromium	ug/l	59	20	37	-	150	5.1	390	120
Cobalt	ug/l	5.1	< 20	4.3	-	7.5	< 20	100	49
Copper	ug/l	35	17	22	-	34	< 10	460	290
Iron	ug/l	15200	24500	28400	-	15600	< 150	317000	79500
Lead	ug/l	110	30	41	-	59	< 5.0	2000	3700
Magnesium	ug/l	180000	326000	346000	-	128000	< 100	177000	190000
Mercury	ug/l	.24	.16	.20	-	.11	< .20	1.6	1.7
Nickel	ug/l	56	14	27	-	51	< 20	430	230
Potassium	ug/l	231000	31000	33000	-	48000	< 500	120000	176000
Selenium	ug/l	6.2	< 25	< 5.0	-	1.3	< 5.0	19	5.3
Silver	ug/l	5.4	< 10	2.3	-	10	< 10	21	11
Sodium	ug/l	742000	126000	128000	-	272000	< 500	265000	606000
Thallium	ug/l	< 50	< 10	< 10	-	< 10	< 10	8.0	< 10
Tin	ug/l	< 50	< 50	< 50	-	< 50	< 50	< 50	< 50

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below			See Below	
ETC Sample No.	WASTE MANAGEMENT, INC. *Company*	705 *Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		W G123S 891127 HA1804	W G120S 891127 HA1805	X DUP 891127 HA1806	X 011B 891127 HA1810	W G124S 891127 HA1807	X 06FB 891128 HA1809	W G332 891128 HA1830	W G324 891128 HA1831
Vanadium	ug/l	38	36	44	-	35	< 20	730	160
Zinc	ug/l	130	130	160	-	140	190	2900	2050
Field Parameters									
pH (Field)	std	8.07	6.94	6.94	-	7.13	8.03	12.34	11.77
Specific Conductance (Field)	um/cm	7170	3280	3280	-	4050	1.95	4240	4630
Groundwater Elevation	Feet	587.76	585.88	585.88	-	584.48	-	586.87	580.25
Temperature	Deg. C	15.7	13.4	13.4	-	17.9	10.6	10.4	12.5
Depth to Water	Feet	7.22	8.75	8.75	-	9.60	-	5.46	13.06
Well Depth	Feet	20.94	20.93	20.93	-	20.89	-	11.42	17.90
Stick-Up	Feet	-	-	-	-	-	-	-	-
Groundwater Pesticides									
Methoxychlor	ug/l	< .6	< .6	< .6	-	< .5	< .6	< .6	< .6
Groundwater Herbicides									
2,4-D	ug/l	< 5	< 5	< 5	-	< 5	< 5	< 5	< 5
2,4,5-TP (Silvex)	ug/l	< 1	< 1	< 1	-	< 1	< 1	< 1	< 1
Aroclors by GC									
Aroclor 1242	ug/l	< .6	< .6	< .6	-	< .5	< .6	< .6	< .6
Aroclor 1254	ug/l	< 1	< 1	< 1	-	< 1	< 1	< 1	< 1
Aroclor 1260	ug/l	< 1	< 1	< 1	-	< 1	< 1	< 1	< 1
Aroclor 1248	ug/l	< .6	< .6	< .6	-	< .5	< .6	< .6	< .6
Aroclor 1232	ug/l	< .6	< .6	< .6	-	< .5	< .6	< .6	< .6
Aroclor 1221	ug/l	< .6	< .6	< .6	-	< .5	< .6	< .6	< .6
Aroclor 1016	ug/l	< .6	< .6	< .6	-	< .5	< .6	< .6	< .6
Miscellaneous Parameters									
1,1,1,2-Tetrachloroethane	ug/l	< 100	< 10	< 10	< 10	< 10	< 10	<20000	< 20
1,2,3-Trichloropropane	ug/l	< 100	< 10	< 10.0	< 10	< 10	< 10	<20000	< 20
1,2,4,5-Tetrachlorobenzene	ug/l	< 500	< 100	< 10	-	< 10	< 10	< 600	< 200

Footnotes: BMDL=Below Method Detection Limit NO=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below — *ETC Sample No.* | WASTE MANAGEMENT, INC. — *Company* | 705 — *Facility* | See Below — *Sample Point* | *Date*

Parameters	Units	W GT23S 891127 HA1804	W GT20S 891127 HA1805	X DUP 891127 HA1806	X 011B 891127 HA1810	W GT24S 891127 HA1807	X 06FB 891128 HA1809	W G332 891128 HA1830	W G324 891128 HA1831
		Sample Points, Sampling Dates, and ETC Sample No.'s							
1,2-Dibromo-3-chloropropane	ug/l	< 100	< 10	< 10	< 10	< 10	< 10	<20000	< 20
1,2-Dibromoethane	ug/l	< 100	< 10	< 10	< 10	< 10	< 10	<20000	< 20
1,4-Dichloro-2-butene	ug/l	< 100	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	<20000	< 20.0
1,4-Dioxane	ug/l	426	< 300	< 300	< 300	< 300	< 300	< 300	< 300
1,4-Naphthoquinone	ug/l	< 500	< 100	< 10	-	< 10	< 10	< 600	< 200
1-Naphthylamine	ug/l	< 500	< 100	< 10	-	< 12.8	< 10	< 600	< 200
2,3,4,6-Tetrachlorophenol	ug/l	< 500	< 100	< 10	-	< 10	< 10	< 600	< 200
2,3,7,8-TCDD	ppt	< 1	< 3	< 1	-	< 1	< 1	< .9	< 1
2,3,7,8-TCDF	ppt	< .3	< .6	< .2	-	< .2	< .3	< .2	< .3
2,4,5-T	ug/l	1.04	< 1	< 1	-	< 1	< 1	1.09	< 1
2,4,5-Trichlorophenol	ug/l	< 500	< 100	< 10	-	< 10	< 10	< 600	< 200
2,6-Dichlorophenol	ug/l	100	< 100	< 10	-	< 10	< 10	64	< 217
2-Acetylaminofluorene	ug/l	< 500	< 100	< 10	-	< 10	< 10	< 600	< 200
2-Chloro-1,3-butadiene	ug/l	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	ug/l	< 100	< 10.0	< 10.0	< 10	< 10	< 10	<20000	< 20
2-Methylnaphthalene	ug/l	< 500	< 100	7.3	-	< 10	< 10	< 600	< 217
2-Naphthylamine	ug/l	< 500	< 100	< 10	-	< 12.8	< 10	< 600	< 200
2-Picoline	ug/l	< 500	< 100	< 10	-	< 10	< 10	< 600	< 200
2-sec-Butyl-4,6-dinitrophenol	ug/l	< 500	< 100	< 10	-	< 10	< 10	< 600	< 200
3,3'-Dimethylbenzidine	ug/l	< 500	< 100	< 10	-	< 10	< 10	< 600	< 200
3-Methylcholanthrene	ug/l	< 500	< 100	< 10	-	< 10	< 10	< 600	< 200
4-Aminobiphenyl	ug/l	< 500	< 100	< 10	-	< 10	< 10	< 600	< 200
4-Nitroquinoline-N-oxide	ug/l	IND	IND	IND	-	IND	IND	IND	IND
5-Nitro-o-toluidine	ug/l	< 500	< 100	< 10	-	< 10	< 10	< 600	< 200
7,12-Dimethylbenzo(a)anthracen	ug/l	< 500	< 100	< 10	-	< 10	< 10	< 600	< 200
Acetone	ug/l	1420	10.4	21.3	15.9	20.1	6.3	13000	< 20.0
Acetonitrile	ug/l	18700	< 20	< 20	< 20	50.7	< 20	1860	74.6
Acetophenone	ug/l	< 500	< 100	2.5	-	< 10	< 10	< 575	< 217
Aniline	ug/l	< 500	< 100	< 10	-	< 10	< 10	< 600	< 200
Aramite	ug/l	< 500	< 100	< 10	-	< 10	< 10	< 600	< 200
Benzyl alcohol	ug/l	< 500	< 100	< 10	-	< 10	< 10	< 600	< 200
Carbon disulfide	ug/l	< 100	< 10	< 10	< 10	< 10	< 10	<20000	< 20
Chlorobenzilate	ug/l	< 3	< 3	< 3	-	< 3	< 3	< 3	< 3
Diallate	ug/l	< 500	< 100	< 10	-	< 10	< 10	< 600	< 200
Dibenzofuran	ug/l	< 500	< 100	< 12.8	-	< 10	< 10	< 600	< 217
Dibromomethane	ug/l	< 100	< 10	< 10	< 10	< 10	< 10	<20000	< 20
Dimethoate	ug/l	< 3	< 3	< 3	-	< 3	< 3	< 3	< 3

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below — *ETC Sample No.* | WASTE MANAGEMENT, INC. — *Company* | 705 — *Facility* | See Below — *Sample Point* | See Below — *Date*

Parameters	Units	W GT23S 891127 HA1804	W GT20S 891127 HA1805	X DUP 891127 HA1806	X 01TB 891127 HA1810	W GT24S 891127 HA1807	X 06FB 891128 HA1809	W G332 891128 HA1830	W G324 891128 HA1831
Diphenylamine	ug/l	< 500	< 100	< 10	-	< 10	< 10	< 600	< 200
Disulfoton	ug/l	< .6	< .6	< .6	-	< .5	< .6	< .6	< .6
Ethyl cyanide	ug/l	52.6	< 40	< 40	< 40	< 40	< 40	< 40	< 40
Ethyl methacrylate	ug/l	< 100	< 10	< 10	< 10	< 10	< 10	<20000	< 20
Ethyl methanesulfonate	ug/l	< 500	< 100	< 10	-	< 10	< 10	< 600	< 200
Famphur	ug/l	< 10	< 10	< 10	-	< 10	< 10	< 10	< 10
Hexachlorophene	ug/l	< 10.5	< 100	< 10	-	< 10	< 10	< 11.5	< 10.9
Hexachloropropene	ug/l	< 500	< 100	< 10	-	< 10	< 10	< 600	< 200
HxCDD	ppt	< .3	< .6	< .5	-	< .3	< .3	< .4	< .4
HxCDF	ppt	< .8	< 1	< .9	-	< .7	< .6	< .7	< 1
Iodomethane	ug/l	IND	IND	IND	IND	IND	IND	IND	IND
Isobutyl alcohol	ug/l	< 230	< 200	< 200	< 200	< 200	< 200	3720	< 230
Isodrin	ug/l	< 300	< 70	< 8	-	< 8	< 7	< 300	< 100
Isosafrole	ug/l	< 500	< 100	< 10	-	< 10	< 10	< 600	< 200
Kepone	ug/l	< .6	< .6	< .6	-	< .5	< .6	< .6	< .6
Methacrylonitrile	ug/l	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
Methapyrilene	ug/l	IND	IND	IND	-	IND	IND	IND	IND
Methyl ethyl ketone	ug/l	402	< 10	< 10	< 10	< 10	< 10	<20000	< 20
Methyl methacrylate	ug/l	< 100	< 10	< 10	< 10	< 10	< 10	<20000	< 20
Methyl methanesulfonate	ug/l	< 500	< 100	< 10	-	< 10	< 10	< 600	< 200
Methyl parathion	ug/l	< 1	< 1	< 1	-	< 1	< 1	< 1	< 1
Methyl-iso-butyl ketone	ug/l	221	< 10	< 10.0	< 10	< 10	< 10	<20000	11
N-Nitrosodi-n-butylamine	ug/l	< 500	< 100	< 10	-	< 10	< 10	< 600	< 200
N-Nitrosodiethylamine	ug/l	< 500	< 100	< 10	-	< 10	< 10	< 600	< 217
N-Nitrosomethylethylamine	ug/l	< 500	< 100	< 10	-	< 12.8	< 10	< 600	< 200
N-Nitrosomorpholine	ug/l	< 500	< 100	< 12.8	-	< 12.8	< 10	< 600	< 200
N-Nitrosopiperidine	ug/l	< 500	< 100	< 10	-	< 10	< 10	< 600	< 200
N-Nitrosopyrrolidine	ug/l	IND	IND	IND	-	IND	IND	IND	IND
O,O,O-Triethyl phosphorothioat	ug/l	IND	IND	IND	-	IND	IND	IND	IND
PCDD	ppt	< 5	< 10	< 5	-	< 6	< 5	< 4	< 5
PCDF	ppt	< .9	< 1	< .7	-	< .5	< .6	< .5	< 1
Parathion	ug/l	< 1	< 1	< 1	-	< 1	< 1	< 1	< 1
Pentachlorobenzene	ug/l	< 500	< 100	< 10	-	< 10	< 10	< 600	< 200
Pentachloroethane	ug/l	IND	IND	IND	IND	IND	IND	IND	IND
Pentachloronitrobenzene	ug/l	< 500	< 100	< 10	-	< 10	< 10	< 600	< 200
Phenacetin	ug/l	< 500	< 100	< 10	-	< 10	< 10	< 600	< 217
Phorate	ug/l	< 3	< 3	< 3	-	< 3	< 3	< 3	< 3

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		W G123S 891127 HA1804	W G120S 891127 HA1805	X DUP 891127 HA1806	X 011B 891127 HA1810	W G124S 891127 HA1807	X 06FB 891128 HA1809	W G332 891128 HA1830	W G324 891128 HA1831
Pronamide	ug/l	< 500	< 100	< 10	-	< 10	< 10	< 600	< 200
Pyridine	ug/l	< 4000	< 1000	< 100	-	< 100	< 90	< 5000	< 2000
Safrole	ug/l	< 500	< 100	< 10	-	< 10	< 10	< 600	< 200
Styrene	ug/l	< 100	< 10	< 10	< 10	< 10	< 10	<20000	< 20
Sulfide as S	mg/l	1.2	.62	.86	-	< .25	< .25	11.3	16.1
TCDD	ppt	< 1	< 4	< 2	-	< 2	< 2	< 1	< 1
TCDF	ppt	< .3	< .8	< .4	-	< .3	< .3	< .4	< .7
Tetraethyldithiopyrophosphate	ug/l	IND	IND	IND	-	IND	IND	IND	IND
Thionazin	ug/l	< 1	< 1	< 1	-	< 1	< 1	< 1	< 1
Vinyl acetate	ug/l	< 100	< 10	< 10	< 10	< 10	< 10	<20000	< 20
a-a-Dimethylphenethylamine	ug/l	IND	IND	IND	-	IND	IND	IND	IND
m+p-Cresols	ug/l	310	< 100	< 10	-	< 10	< 10	440	221
m-Dinitrobenzene	ug/l	< 500	< 100	< 10	-	< 10	< 10	< 600	< 200
m-Nitroaniline	ug/l	< 500	< 100	< 10	-	< 10	< 10	< 600	< 200
m-Xylene	ug/l	< 100	< 10.0	< 10	< 10	< 10	< 10	<20000	4.5
o+p-Xylenes	ug/l	< 100	< 10.0	< 10	< 10	< 10	< 10	<20000	4.1
o-Cresol	ug/l	< 526	< 100	< 10	-	< 10	< 10	< 575	35
o-Nitroaniline	ug/l	< 500	< 100	< 10	-	< 10	< 10	< 600	< 200
o-Toluidine	ug/l	< 500	< 100	< 10	-	< 10	< 10	< 600	< 200
p-Chloroaniline	ug/l	< 500	< 100	< 12.8	-	< 10	< 10	< 575	< 217
p-Dimethylaminoazobenzene	ug/l	< 500	< 100	< 10	-	< 10	< 10	< 600	< 200
p-Nitroaniline	ug/l	< 500	< 100	< 10	-	< 10	< 10	< 600	< 200
p-phenylenediamine	ug/l	IND	IND	IND	-	IND	IND	IND	IND
sym-Trinitrobenzene	ug/l	IND	IND	IND	-	IND	IND	IND	IND

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	X 02FB 891128 HA1839	X 02TB 891128 HA1840	W G303 891204 HA1836	W GT2TS 891205 HA1808	W G302 891205 HA1815	W G302DUP 891205 HA1832	W G3T7 891205 HA1833	W G305 891204 HA1834
Sample Points, Sampling Dates, and ETC Sample No.'s									
Priority Poll. Volatiles GC/MS									
Acrolein	ug/l	< 20	< 20	< 20	< 20.0	< 20	< 20	< 20	< 20
Acrylonitrile	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Benzene	ug/l	< 4	< 4	.93	245	80.4	171	31.2	< 4
Bromoform	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 20	< 5
Carbon tetrachloride	ug/l	< 3	< 3	< 3	< 3	< 3	< 3	< 10	< 3
Chlorobenzene	ug/l	< 6	< 6	< 6	57.5	26.1	27.0	< 30	< 6
Chlorodibromomethane	ug/l	< 3	< 3	< 3	< 3	< 3	< 3	< 20	< 3
Chloroethane	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10
Chloroform	ug/l	< 2	< 2	< 2	< 2	< 2	< 2	< 8	< 2
Dichlorobromomethane	ug/l	< 2	< 2	< 2	< 2	< 2	< 2	< 10	< 2
Dichlorodifluoromethane	ug/l	< 10	< 10	526	< 10	< 10	< 10	< 50	< 10
1,1-Dichloroethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 20	< 5
1,2-Dichloroethane	ug/l	< 3	< 3	< 3	< 3	< 3	< 3	< 10	< 3
1,1-Dichloroethylene	ug/l	< 3	< 3	< 3	< 3	< 3	< 3	32.8	< 3
1,2-Dichloropropane	ug/l	< 6	< 6	< 6	< 6	< 6	< 6	< 30	< 6
cis-1,3-Dichloropropylene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 30	< 5
Ethylbenzene	ug/l	< 7	< 7	.96	13.0	< 7	< 7	< 40	< 7
Methyl bromide	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10
Methyl chloride	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10
Methylene chloride	ug/l	5.54	6.82	8.35	12.2	9.71	7.28	97.2	6.57
1,1,2,2-Tetrachloroethane	ug/l	< 7	< 6.90	< 7	< 7	< 7	< 7	< 30	< 7
Tetrachloroethylene	ug/l	< 4	< 4	< 4	< 4	< 4	< 4	< 20	< 4
Toluene	ug/l	.98	< 6	< 6	6.83	39.0	47.3	20	< 6
1,2-Trans-dichloroethylene	ug/l	< 2	< 2	< 2	< 2	< 2	< 2	< 8	< 2
1,1,1-Trichloroethane	ug/l	< 4	< 4	< 4	< 4	< 4	< 4	< 20	< 4
1,1,2-Trichloroethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 30	< 5
Trichloroethylene	ug/l	< 2	< 2	< 2	< 2	< 2	< 2	< 10	< 2
Trichlorofluoromethane	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10
Vinyl chloride	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10
trans-1,3-Dichloropropylene	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below — *ETC Sample No.* | WASTE MANAGEMENT, INC. — *Company* | 705 — *Facility* | See Below — *Sample Point* | *Date*

Parameters	Units	X UZFB 891128 HA1839	X UZIB 891128 HA1840	W G303 891204 HA1836	W G12IS 891205 HA1808	W G302 891205 HA1815	W G302DUP 891205 HA1832	W G317 891205 HA1833	W G305 891204 HA1834
Priority Poll. Acids GC/MS									
2-Chlorophenol	ug/l	< 4	-	< 4	< 4.93	5.08	5.02	< 4	< 5.24
2,4-Dichlorophenol	ug/l	< 3	-	< 3	< 4.03	21.5	21.3	313	< 4
2,4-Dimethylphenol	ug/l	< 3	-	< 3.18	31.0	< 3.00	< 3.29	< 3.65	< 4
4,6-Dinitro-o-cresol	ug/l	< 30	-	< 30	< 40	< 30	< 30	< 30	< 40
2,4-Dinitrophenol	ug/l	< 50	-	< 50	< 62.7	< 46.7	< 51.2	< 56.8	< 70
2-Nitrophenol	ug/l	< 5	-	< 4	< 5	< 4	< 4	< 4.86	< 6
4-Nitrophenol	ug/l	< 3	-	< 2.82	< 3.58	< 2.67	< 2.93	< 3.24	< 4
p-Chloro-m-cresol	ug/l	< 4	-	< 4	< 4.48	< 3	< 4	< 4	< 5
Pentachlorophenol	ug/l	< 5	-	< 4	< 5	< 4	< 4	< 5	< 6
Phenol	ug/l	< 2	-	7.04	< 2	24.5	16.4	378	< 2
2,4,6-Trichlorophenol	ug/l	< 3	-	< 3	< 4	< 3.00	< 3.29	< 3.65	< 4
Priority Poll. B/Ns GC/MS									
Acenaphthene	ug/l	< 2	-	3.14	< 2.84	< 2	< 2	< 2.57	< 3
Acenaphthylene	ug/l	< 4	-	< 4	< 5.22	< 4	< 4	< 5	< 6
Anthracene	ug/l	< 2	-	< 2.24	< 2.84	< 2.11	< 2.32	< 3	< 3
Benzo(a)anthracene	ug/l	< 10	-	< 9	< 11.6	< 9	< 10	< 10.5	< 12.4
Benzo(a)pyrene	ug/l	< 3	-	< 3	< 4	< 3	< 3	< 3.38	< 4
Benzo(b)fluoranthene	ug/l	< 6	-	< 6	< 7	< 5	< 6	< 6.49	< 8
Benzo(ghi)perylene	ug/l	< 5	-	< 5	< 6	< 5	< 5	< 6	< 7
Benzo(k)fluoranthene	ug/l	< 3	-	< 3	< 4	< 3	< 3	< 3.38	< 4
bis(2-Chloroethoxy)methane	ug/l	< 7	-	< 6	< 8	< 6	< 6	< 7	< 8
bis(2-Chloroethyl) ether	ug/l	< 7	-	< 7	< 9	< 6	< 6.95	< 8	< 9
bis(2-Chloroisopropyl)ether	ug/l	< 7	-	< 7	< 8.51	< 6	< 7	< 7.70	< 9
bis(2-Ethylhexyl)phthalate	ug/l	< 10	-	11	< 14.9	< 11.1	< 10	< 13.5	< 15.9
4-Bromophenyl phenyl ether	ug/l	< 2	-	< 2	< 3	< 2	< 2	< 3	< 3
Butyl benzyl phthalate	ug/l	< 10	-	< 10	< 10	< 10	< 10	< 10	< 20
2-Chloronaphthalene	ug/l	< 2	-	< 2	< 3	< 2	< 2	< 3	< 3
4-Chlorophenyl phenyl ether	ug/l	< 5	-	< 5	< 6	< 5	< 5.12	< 6	< 7
Chrysene	ug/l	< 3	-	< 3	< 3.73	< 3	< 3	< 3.38	< 3.97
Dibenzo(a,h)anthracene	ug/l	< 10	-	< 10	< 10	< 10	< 10	< 10	< 20
1,2-Dichlorobenzene	ug/l	< 2	-	< 2	7.31	< 2	< 2	< 2.57	< 3
1,3-Dichlorobenzene	ug/l	< 2	-	< 2	< 2.84	< 2	< 2	< 2.57	< 3

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	Units	Sample Points, Sampling Dates, and ETC Sample No's							
		X 02FB 891128 HA1839	X 02IB 891128 HA1840	W G303 891204 HA1836	W G12IS 891205 HA1808	W G302 891205 HA1815	W G302DUP 891205 HA1832	W G317 891205 HA1833	W G305 891204 HA1834
1,4-Dichlorobenzene	ug/l	< 6	-	< 5	< 6.57	< 5	< 5	< 5.95	< 7
3,3'-Dichlorobenzidine	ug/l	< 20	-	< 20	< 20	< 20	< 20	< 20	< 30
Diethyl phthalate	ug/l	< 10	-	< 10	< 14.9	< 10	< 10	< 10	< 20
Dimethyl phthalate	ug/l	< 10	-	< 11.8	< 14.9	< 10	< 10	< 13.5	< 20
Di-n-butyl phthalate	ug/l	< 12.7	-	.78	< 14.9	< 11.1	< 12.2	< 13.5	< 15.9
2,4-Dinitrotoluene	ug/l	< 7	-	< 7	< 9	< 6	< 7	< 8	< 9
2,6-Dinitrotoluene	ug/l	< 2	-	< 2	< 3	< 2	< 2	< 3	< 3
Di-n-octyl phthalate	ug/l	< 10	-	< 10	< 14.9	< 11.1	< 12.2	< 13.5	< 15.9
Fluoranthene	ug/l	< 3	-	1.2	< 3.28	< 2.44	< 2.68	< 3	< 3
Fluorene	ug/l	< 2.41	-	1.4	< 2.84	< 2.11	< 2.32	3.72	< 3.02
Hexachlorobenzene	ug/l	< 2	-	< 2	< 3	< 2	< 2	< 3	< 3
Hexachlorobutadiene	ug/l	< 1	-	< 1	< 1	< 1	< 1	< 1	< 1
Hexachlorocyclopentadiene	ug/l	< 10	-	< 10	< 10	< 10	< 10	< 10	< 20
Hexachloroethane	ug/l	< 2	-	< 2	< 2	< 2	< 2	< 2	< 3
Indeno(1,2,3-c,d)pyrene	ug/l	< 6	-	< 6	< 7	< 5	< 6	< 6	< 7
Isophorone	ug/l	< 3	-	< 2.59	< 3.28	< 2.44	< 2.68	< 2.97	< 3.49
Naphthalene	ug/l	< 2	-	2.78	6.96	2.36	2.44	24.0	< 3
Nitrobenzene	ug/l	< 2	-	< 2	< 2.84	< 2.11	< 2	< 2.57	< 3.02
N-Nitrosodimethylamine	ug/l	< 10	-	< 10	< 10	< 11.1	< 12.2	< 13.5	< 20
N-Nitrosodi-n-propylamine	ug/l	< 12.7	-	< 11.8	< 14.9	< 11.1	< 12.2	< 13.5	< 15.9
N-Nitrosodiphenylamine	ug/l	< 2	-	< 2	< 3	< 2	< 2	< 2.57	< 3
Phenanthrene	ug/l	< 7	-	2.1	< 8.06	< 6.00	< 6.59	9.12	< 9
Pyrene	ug/l	< 2	-	1.0	< 2.84	< 2.11	< 2.32	2.64	< 3
1,2,4-Trichlorobenzene	ug/l	< 2	-	< 2	< 3	< 2	< 2	< 3	< 3
Priority Poll. Pest/PCBs GC/MS									
Aldrin	ug/l	< .05	-	< .06	< .08	< .06	< .06	< .06	< .08
Alpha-BHC	ug/l	< .05	-	< .06	< .08	< .06	< .06	< .06	< .08
Beta-BHC	ug/l	< .05	-	< .06	< .08	< .06	< .06	< .06	< .08
Gamma-BHC	ug/l	< .05	-	< .06	< .08	< .06	< .06	< .06	< .08
Delta-BHC	ug/l	< .05	-	< .06	< .08	< .06	< .06	< .06	< .08
Chlordane	ug/l	< 1	-	< 1	< 2	< 1	< 1	< 1	< 2
4,4'-DDT	ug/l	< .1	-	< .1	< .2	< .1	< .1	< .1	< .2
4,4'-DDE	ug/l	< .1	-	< .1	< .2	< .1	< .1	< .1	< .2
4,4'-DDD	ug/l	< .1	-	< .1	< .2	< .1	< .1	< .1	< .2
Dieldrin	ug/l	< .1	-	< .1	< .2	< .1	< .1	< .1	< .2

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below — *ETC Sample No.* | WASTE MANAGEMENT, INC. — *Company* | 705 — *Facility* | See Below — *Sample Point* | *Date*

Parameters	Units	X 02FB 891128 HA1839	X 02IB 891128 HA1840	W G303 891204 HA1836	W G12IS 891205 HA1808	W G302 891205 HA1815	W G302DUP 891205 HA1832	W G317 891205 HA1833	W G305 891204 HA1834
		Sample Points, Sampling Dates, and ETC Sample No.'s							
Endosulfan I	ug/l	< .05	-	< .06	< .08	< .06	< .06	< .06	< .08
Endosulfan II	ug/l	< .1	-	< .1	< .2	< .1	< .1	< .1	< .2
Endosulfan sulfate	ug/l	< .1	-	< .1	< .2	< .1	< .1	< .1	< .2
Endrin	ug/l	< .1	-	< .1	< .2	< .1	< .1	< .1	< .2
Endrin aldehyde	ug/l	< .1	-	< .1	< .2	< .1	< .1	< .1	< .2
Heptachlor	ug/l	< .05	-	< .06	< .08	< .06	< .06	< .06	< .08
Heptachlor epoxide	ug/l	< .05	-	< .06	< .08	< .06	< .06	< .06	< .08
Toxaphene	ug/l	< 2	-	< 2	< 3	< 2	< 3	< 2	< 3
Groundwater Conventionals									
Chloride	mg/l	< 1.0	-	492	9030	531	537	219	-
Sulfate as S04	mg/l	< 5.0	-	54.0	470	194	207	25.8	-
Cyanide, Total	mg/l	< .0100	-	< .0100	< .0100	< .0100	< .0100	< .0100	< .0100
Metals Analysis Data									
Antimony	ug/l	< 60	-	< 60	< 60	99	83	24	< 60
Arsenic	ug/l	< 10	-	15	19	150	96	17	16
Barium	ug/l	< 20	-	570	140	1200	1100	2010	130
Beryllium	ug/l	< 1.0	-	< 1.0	< 1.0	15	13	1.1	.38
Cadmium	ug/l	< 2.0	-	< 2.0	2.5	60	54	4.6	.91
Calcium	ug/l	250	-	89100	338000	3990000	3650000	1150000	384000
Chromium	ug/l	4.1	-	31	100	370	320	170	30
Cobalt	ug/l	< 20	-	22	< 20	90	75	14	24
Copper	ug/l	< 10	-	50	8.2	510	430	200	46
Iron	ug/l	39	-	210	-	-	-	-	-
Lead	ug/l	< 5.0	-	210	9.3	2400	2000	830	57
Magnesium	ug/l	29	-	153000	163000	1560000	1390000	46600	129000
Mercury	ug/l	< .20	-	.39	< .20	.33	.27	1.0	.19
Nickel	ug/l	< 20	-	26	30	270	230	110	31
Potassium	ug/l	< 500	-	71000	-	104000	107000	125000	22000
Selenium	ug/l	< 5.0	-	< 5.0	< 5.0	9.3	6.9	< 25	< 5.0
Silver	ug/l	< 10	-	< 10	< 10	46	44	7.7	< 10
Sodium	ug/l	< 500	-	231000	5010000	208000	228000	122000	93900
Thallium	ug/l	< 10	-	< 10	< 10	< 50	2.7	< 10	< 10
Tin	ug/l	< 50	-	< 50	< 50	< 50	< 50	27	< 50

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		X 02FB 891128 HA1839	X 02IB 891128 HA1840	W G303 891204 HA1836	W G12IS 891205 HA1808	W G302 891205 HA1815	W G302DUP 891205 HA1832	W G317 891205 HA1833	W G305 891204 HA1834
Vanadium	ug/l	< 20	-	33	21	340	290	170	39
Zinc	ug/l	5.2	-	410	23	2000	1600	1000	120
Field Parameters									
pH (Field)	std	7.68	-	8.02	8.15	12.26	12.26	13.01	7.22
Specific Conductance (Field)	um/cm	2.01	-	2620	20000	2940	2940	9110	2420
Groundwater Elevation	Feet	-	-	582.16	584.13	578.83	578.83	589.24	581.04
Temperature	Deg. C	11.3	-	13.7	14.3	12.9	12.9	13.6	10.9
Depth to Water	Feet	-	-	10.54	10.53	14.71	14.71	8.40	10.32
Well Depth	Feet	-	-	15.61	21.00	17.93	17.93	18.79	16.25
Stick-Up	Feet	-	-	2.21	1.91	2.42	2.42	2.58	2.34
Groundwater Pesticides									
Methoxychlor	ug/l	< .5	-	< .6	< .8	< .6	< .6	< .6	< .8
Groundwater Herbicides									
2,4-D	ug/l	< 5	-	< 5	< 5	< 5	< 5	< 6	< 7
2,4,5-TP (Silvex)	ug/l	< 1	-	< 1	< 1	< 1	< 1	< 1	< 1
Aroclors by GC									
Aroclor 1242	ug/l	< .5	-	< .6	< .8	< .6	< .6	< .6	< .8
Aroclor 1254	ug/l	< 1	-	< 1	< 2	< 1	< 1	< 1	< 2
Aroclor 1260	ug/l	< 1	-	< 1	< 2	< 1	< 1	< 1	< 2
Aroclor 1248	ug/l	< .5	-	< .6	< .8	< .6	< .6	< .6	< .8
Aroclor 1232	ug/l	< .5	-	< .6	< .8	< .6	< .6	< .6	< .8
Aroclor 1221	ug/l	< .5	-	< .6	< .8	< .6	< .6	< .6	< .8
Aroclor 1016	ug/l	< .5	-	< .6	< .8	< .6	< .6	< .6	< .8
Miscellaneous Parameters									
1,1,1,2-Tetrachloroethane	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10
1,2,3-Trichloropropane	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10
1,2,4,5-Tetrachlorobenzene	ug/l	< 10	-	< 10	< 10	< 10	< 10	< 10	< 20

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	X U2FB 891128 HA1839	X U2TB 891128 HA1840	W G303 891204 HA1836	W G12TS 891205 HA1808	W G302 891205 HA1815	W G302DUP 891205 HA1832	W G317 891205 HA1833	W G305 891204 HA1834
1,2-Dibromo-3-chloropropane	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10
1,2-Dibromoethane	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10
1,4-Dichloro-2-butene	ug/l	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 50.0	< 10.0
1,4-Dioxane	ug/l	< 300	< 300	< 300	< 300	< 300	< 300	< 300	< 300
1,4-Naphthoquinone	ug/l	< 10	-	< 10	< 10	< 10	< 10	< 10	< 20
1-Naphthylamine	ug/l	< 10	-	< 10	< 14.9	< 11.1	< 12.2	< 10	< 20
2,3,4,6-Tetrachlorophenol	ug/l	< 10	-	< 10	< 10	< 10	< 10	< 10	< 20
2,3,7,8-TCDD	ppt	< 1	-	< 2	< .9	< .6	< .6	< .8	< .9
2,3,7,8-TCDF	ppt	< .2	-	< .8	< .4	< .1	< .3	< .2	< .3
2,4,5-T	ug/l	< 1	-	< 1	< 1	< 1	< 1	< 1	< 1
2,4,5-Trichlorophenol	ug/l	< 10	-	< 10	< 10	< 11.1	< 12.2	< 13.5	< 20
2,6-Dichlorophenol	ug/l	< 10	-	< 10	< 14.9	< 11.1	< 12.2	53.1	< 20
2-Acetylaminofluorene	ug/l	< 10	-	< 10	< 10	< 10	< 10	< 10	< 20
2-Chloro-1,3-butadiene	ug/l	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	ug/l	< 10	< 10	< 10	< 10	< 10.0	< 10	< 50.0	< 10
2-Methylnaphthalene	ug/l	< 10	-	< 10	< 14.9	< 11.1	< 12.2	< 13.5	< 20
2-Naphthylamine	ug/l	< 10	-	< 10	< 14.9	< 10	< 12.2	< 10	< 20
2-Picoline	ug/l	< 10	-	< 10	< 10	< 10	< 10	< 10	< 20
2-sec-Butyl-4,6-dinitrophenol	ug/l	< 10	-	< 10	< 10	< 10	< 10	< 10	< 20
3,3'-Dimethylbenzidine	ug/l	< 10	-	< 10	< 10	< 10	< 10	< 10	< 20
3-Methylcholanthrene	ug/l	< 10	-	< 10	< 10	< 10	< 10	< 10	< 20
4-Aminobiphenyl	ug/l	< 10	-	< 10	< 10	< 10	< 10	< 10	< 20
4-Nitroquinoline-N-oxide	ug/l	IND	-	IND	IND	IND	IND	IND	IND
5-Nitro-o-toluidine	ug/l	< 10	-	< 10	< 14.9	< 11.1	< 12.2	< 10	< 20
7,12-Dimethylbenzo(a)anthracen	ug/l	< 10	-	< 10	< 10	< 10	< 10	< 10	< 20
Acetone	ug/l	7.1	< 10	14.3	< 10	47.1	10.5	675	13.3
Acetonitrile	ug/l	< 20	< 20	391	< 15.0	< 20	25.2	110	275
Acetophenone	ug/l	< 10	-	< 10	< 14.9	< 11.1	< 12.2	< 13.5	< 15.9
Aniline	ug/l	< 10	-	< 10	< 14.9	< 10	< 10	< 10	< 20
Aramite	ug/l	< 10	-	< 10	< 10	< 10	< 10	< 10	< 20
Benzyl alcohol	ug/l	< 10	-	< 10	< 14.9	< 10	< 12.2	< 10	< 15.9
Carbon disulfide	ug/l	< 10	< 10	< 10	< 10.0	< 10	< 10	< 50	< 10
Chlorobenzilate	ug/l	< 3	-	< 3	< 4	< 3	< 3	< 3	< 4
Diallate	ug/l	< 10	-	< 10	< 10	< 10	< 12.2	< 13.5	< 20
Dibenzofuran	ug/l	< 10	-	1.2	< 10	< 10	< 10	< 13.5	< 20
Dibromomethane	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10
Dimethoate	ug/l	< 3	-	< 3	< 4	< 3	< 3	< 3	< 4

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below — *ETC Sample No.* | WASTE MANAGEMENT, INC. — *Company* | 705 — *Facility* | See Below — *Sample Point* | See Below — *Date*

Parameters	Units	X 02FB 891128 HA1839	X 02TB 891128 HA1840	W G303 891204 HA1836	W G12TS 891205 HA1808	W G30Z 891205 HA1815	W G30ZDUP 891205 HA1832	W G317 891205 HA1833	W G305 891204 HA1834
Diphenylamine	ug/l	< 10	-	< 10	< 10	< 10	< 10	< 13.5	< 20
Disulfoton	ug/l	< .5	-	< .6	< .8	< .6	< .6	< .6	< .8
Ethyl cyanide	ug/l	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40
Ethyl methacrylate	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10
Ethyl methanesulfonate	ug/l	< 10	-	< 10	< 10	< 10	< 10	< 10	< 20
Famphur	ug/l	< 10	-	< 10	< 20	< 10	< 10	< 10	< 20
Hexachlorophene	ug/l	< 10	-	< 10	< 10	< 10	< 10	< 10	< 20
Hexachloropropene	ug/l	< 10	-	< 10	< 10	< 10	< 10	< 10	< 20
HxCDD	ppt	< .3	-	< .4	< .4	< .3	< .4	< .5	< .5
HxCDF	ppt	< 1	-	< 2	< .9	< .5	< .9	< .8	< 1
Iodomethane	ug/l	IND	IND	IND	IND	IND	IND	IND	IND
Isobutyl alcohol	ug/l	< 200	< 200	< 200	< 230	< 200	< 200	< 230	< 230
Isodrin	ug/l	< 7	-	< 7	< 9	< 7	< 7	< 7.97	< 9
Isosafrole	ug/l	< 10	-	< 10	< 10	< 10	< 10	< 10	< 20
Kepone	ug/l	< .5	-	< .6	< .8	< .6	< .6	< .6	< .8
Methacrylonitrile	ug/l	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
Methapyrilene	ug/l	IND	-	IND	IND	IND	IND	IND	IND
Methyl ethyl ketone	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10
Methyl methacrylate	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10
Methyl methanesulfonate	ug/l	< 10	-	< 10	< 10	< 10	< 10	< 10	< 20
Methyl parathion	ug/l	< 1	-	< 1	< 2	< 1	< 1	< 1	< 2
Methyl-iso-butyl ketone	ug/l	< 10	< 10	< 10.0	6.0	< 10	< 10	< 50.0	< 10
N-Nitrosodi-n-butylamine	ug/l	< 10	-	< 10	< 14.9	< 10	< 10	< 13.5	< 20
N-Nitrosodiethylamine	ug/l	< 10	-	< 10	< 10	< 10	< 12.2	< 10	< 20
N-Nitrosomethylethylamine	ug/l	< 10	-	< 10	< 10	< 10	< 10	< 10	< 20
N-Nitrosomorpholine	ug/l	< 12.7	-	< 10	< 10	< 10	< 10	< 13.5	< 20
N-Nitrosopiperidine	ug/l	< 10	-	< 10	< 10	< 10	< 10	< 10	< 20
N-Nitrosopyrrolidine	ug/l	IND	-	IND	IND	IND	IND	IND	IND
O,O,O-Triethyl phosphorothioat	ug/l	IND	-	IND	IND	IND	IND	IND	IND
PCDD	ppt	< 6	-	< 3	< 3	< 1	< 2	< 1	< 1
PCDF	ppt	< .7	-	< 1	< 1	< .4	< .6	< .7	< .5
Parathion	ug/l	< 1	-	< 1	< 2	< 1	< 1	< 1	< 2
Pentachlorobenzene	ug/l	< 10	-	< 10	< 10	< 10	< 10	< 10	< 20
Pentachloroethane	ug/l	IND	IND	IND	IND	IND	IND	IND	IND
Pentachloronitrobenzene	ug/l	< 10	-	< 10	< 10	< 10	< 10	< 10	< 20
Phenacetin	ug/l	< 10	-	< 10	< 10	< 10	< 10	< 10	< 20
Phorate	ug/l	< 3	-	< 3	< 4	< 3	< 3	< 3	< 4

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		X UZFB 891128 HA1839	X UZTB 891128 HA1840	W G303 891204 HA1836	W G12TS 891205 HA1808	W G302 891205 HA1815	W G302DUP 891205 HA1832	W G317 891205 HA1833	W G305 891204 HA1834
Pronamide	ug/l	< 10	-	< 10	< 10	< 10	< 10	< 10	< 20
Pyridine	ug/l	< 100	-	< 90	< 100	< 90	< 100	< 108	< 100
Safrole	ug/l	< 10	-	< 10	< 10	< 10	< 10	< 10	< 20
Styrene	ug/l	< 10	< 10.0	< 10	< 10	< 10	< 10	< 50	< 10
Sulfide as S	mg/l	< .25	-	1.3	.48	< .25	< .25	2.7	-
TCDD	ppt	< 1	-	< 3	< 1	< 1	< 2	< 1	< 1
TCDF	ppt	< .5	-	< .9	< .4	< .2	< .4	< .4	< .4
Tetraethyldithiopyrophosphate	ug/l	IND	-	IND	IND	IND	IND	IND	IND
Thionazin	ug/l	< 1	-	< 1	< 2	< 1	< 1	< 1	< 2
Vinyl acetate	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10
a-a-Dimethylphenethylamine	ug/l	IND	-	IND	IND	IND	IND	IND	IND
m+p-Cresols	ug/l	< 10	-	< 11.8	< 20	< 11.1	< 12.2	68.8	< 20
m-Dinitrobenzene	ug/l	< 10	-	< 10	< 10	< 10	< 10	< 10	< 20
m-Nitroaniline	ug/l	< 10	-	< 10	< 10	< 10	< 10	< 10	< 20
m-Xylene	ug/l	< 10	< 10.0	2.4	< 10.0	< 10	< 10.0	< 50	< 10
o+p-Xylenes	ug/l	< 10	< 10.0	.94	12.1	< 10	< 10.0	< 50	< 10
o-Cresol	ug/l	< 10	-	< 11.8	< 14.9	< 11.1	< 12.2	5.7	< 20
o-Nitroaniline	ug/l	< 10	-	< 10	< 10	< 10	< 10	< 10	< 20
o-Toluidine	ug/l	< 10	-	< 10	< 14.9	< 10	< 10	< 10	< 20
p-Chloroaniline	ug/l	< 10	-	< 10	110	< 11.1	< 12.2	< 13.5	< 20
p-Dimethylaminoazobenzene	ug/l	< 10	-	< 10	< 10	< 10	< 10	< 10	< 20
p-Nitroaniline	ug/l	< 10	-	< 10	< 10	< 10	< 10	< 10	< 20
p-phenylenediamine	ug/l	IND	-	IND	IND	IND	IND	IND	IND
sym-Trinitrobenzene	ug/l	IND	-	IND	IND	IND	IND	IND	IND

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	Company	Facility	Sample Point	Date

Parameters	Units	Sample Points, Sampling Dates, and ETC Sample No.'s							
		W G318 891204 HA1835	W G337 891204 HA1837						
Priority Poll. Volatiles GC/MS									
Acrolein	ug/l	< 20	< 20						
Acrylonitrile	ug/l	< 10	< 10						
Benzene	ug/l	.31	.78						
Bromoform	ug/l	< 5	< 5						
Carbon tetrachloride	ug/l	< 3	< 3						
Chlorobenzene	ug/l	< 6	< 6						
Chlorodibromomethane	ug/l	< 3	< 3						
Chloroethane	ug/l	< 10	< 10						
Chloroform	ug/l	< 2	< 2						
Dichlorobromomethane	ug/l	< 2	< 2						
Dichlorodifluoromethane	ug/l	< 10	< 10						
1,1-Dichloroethane	ug/l	< 5	< 5						
1,2-Dichloroethane	ug/l	< 3	< 3						
1,1-Dichloroethylene	ug/l	< 3	< 3						
1,2-Dichloropropane	ug/l	< 6	< 6						
cis-1,3-Dichloropropylene	ug/l	< 5	< 5						
Ethylbenzene	ug/l	< 7	< 7						
Methyl bromide	ug/l	< 10	< 10						
Methyl chloride	ug/l	< 10	< 10						
Methylene chloride	ug/l	8.32	9.37						
1,1,2,2-Tetrachloroethane	ug/l	< 7	< 7						
Tetrachloroethylene	ug/l	< 4	< 4						
Toluene	ug/l	< 6	< 6						
1,2-Trans-dichloroethylene	ug/l	< 2	< 2						
1,1,1-Trichloroethane	ug/l	< 4	< 4						
1,1,2-Trichloroethane	ug/l	< 5	< 5						
Trichloroethylene	ug/l	< 2	< 2						
Trichlorofluoromethane	ug/l	< 10	< 10						
Vinyl chloride	ug/l	< 10	< 10						
trans-1,3-Dichloropropylene	ug/l	< 10	< 10						

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below ETC Sample No.	Company	Facility	See Below Sample Point	Date
	WASTE MANAGEMENT, INC.	705		

Parameters	Units	Sample Points, Sampling Dates, and ETC Sample No.'s						
		W G31B 891204 HA1835	W G337 891204 HA1837					
Priority Poll. Acids GC/MS								
2-Chlorophenol	ug/l	< 4.29	< 5.32					
2,4-Dichlorophenol	ug/l	< 4	< 4					
2,4-Dimethylphenol	ug/l	< 4	< 4					
4,6-Dinitro-o-cresol	ug/l	< 30	< 40					
2,4-Dinitrophenol	ug/l	< 50	< 70					
2-Nitrophenol	ug/l	< 4.68	< 6					
4-Nitrophenol	ug/l	< 3	< 4					
p-Chloro-m-cresol	ug/l	< 4	< 5					
Pentachlorophenol	ug/l	< 5	< 6					
Phenol	ug/l	< 2	< 2					
2,4,6-Trichlorophenol	ug/l	< 4	< 4					
Priority Poll. B/Ns GC/MS								
Acenaphthene	ug/l	< 2	< 3.06					
Acenaphthylene	ug/l	< 5	< 6					
Anthracene	ug/l	< 2.47	< 3.06					
Benzo(a)anthracene	ug/l	< 10.1	< 10					
Benzo(a)pyrene	ug/l	< 3	< 4					
Benzo(b)fluoranthene	ug/l	< 6	< 8					
Benzo(ghi)perylene	ug/l	< 5	< 7					
Benzo(k)fluoranthene	ug/l	< 3	< 4					
bis(2-Chloroethoxy)methane	ug/l	< 7	< 9					
bis(2-Chloroethyl) ether	ug/l	< 7	< 9					
bis(2-Chloroisopropyl)ether	ug/l	< 7	< 9					
bis(2-Ethylhexyl)phthalate	ug/l	3.3	4.1					
4-Bromophenyl phenyl ether	ug/l	< 2	< 3					
Butyl benzyl phthalate	ug/l	< 10	< 16.1					
2-Chloronaphthalene	ug/l	< 2	< 3					
4-Chlorophenyl phenyl ether	ug/l	< 5	< 7					
Chrysene	ug/l	< 3.25	< 4					
Dibenzo(a,h)anthracene	ug/l	< 10	< 20					
1,2-Dichlorobenzene	ug/l	< 2	< 3					
1,3-Dichlorobenzene	ug/l	< 2	< 3					

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*						
		W G318 891204 HA1835	W G337 891204 HA1837					
1,4-Dichlorobenzene	ug/l	< 6	< 7					
3,3'-Dichlorobenzidine	ug/l	< 20	< 30					
Diethyl phthalate	ug/l	< 10	< 20					
Dimethyl phthalate	ug/l	< 10	< 20					
Di-n-butyl phthalate	ug/l	< 13.0	< 16.1					
2,4-Dinitrotoluene	ug/l	< 7	< 9					
2,6-Dinitrotoluene	ug/l	< 2	< 3					
Di-n-octyl phthalate	ug/l	< 13.0	< 16.1					
Fluoranthene	ug/l	< 3	< 3.55					
Fluorene	ug/l	< 2.47	< 3.06					
Hexachlorobenzene	ug/l	< 2	< 3					
Hexachlorobutadiene	ug/l	< 1	< 1					
Hexachlorocyclopentadiene	ug/l	< 10	< 20					
Hexachloroethane	ug/l	< 2	< 3					
Indeno(1,2,3-c,d)pyrene	ug/l	< 6	< 8					
Isophorone	ug/l	< 2.86	< 4					
Naphthalene	ug/l	< 2.08	< 2.58					
Nitrobenzene	ug/l	< 2	< 3					
N-Nitrosodimethylamine	ug/l	< 10	< 20					
N-Nitrosodi-n-propylamine	ug/l	< 13.0	< 16.1					
N-Nitrosodiphenylamine	ug/l	< 2	< 3					
Phenanthrene	ug/l	< 7.01	< 8.71					
Pyrene	ug/l	< 2.47	< 3.06					
1,2,4-Trichlorobenzene	ug/l	< 2	< 3					
Priority Poll. Pest/PCBs GC/MS								
Aldrin	ug/l	< .08	< .08					
Alpha-BHC	ug/l	< .08	< .08					
Beta-BHC	ug/l	< .08	< .08					
Gamma-BHC	ug/l	< .08	< .08					
Delta-BHC	ug/l	< .08	< .08					
Chlordane	ug/l	< 2	< 2					
4,4'-DDT	ug/l	< .2	< .2					
4,4'-DDE	ug/l	< .2	< .2					
4,4'-DDD	ug/l	< .2	< .2					
Dieldrin	ug/l	< .2	< .2					

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*						
		W G318 891204 HA1835	W G337 891204 HA1837					
Endosulfan I	ug/l	< .08	< .08					
Endosulfan II	ug/l	< .2	< .2					
Endosulfan sulfate	ug/l	< .2	< .2					
Endrin	ug/l	< .2	< .2					
Endrin aldehyde	ug/l	< .2	< .2					
Heptachlor	ug/l	< .08	< .08					
Heptachlor epoxide	ug/l	< .08	< .08					
Toxaphene	ug/l	< 3	< 3					
Groundwater Conventionals								
Chloride	mg/l	294	476					
Sulfate as SO4	mg/l	195	552					
Cyanide, Total	mg/l	< .0100	< .0100					
Metals Analysis Data								
Antimony	ug/l	50	58					
Arsenic	ug/l	78	56					
Barium	ug/l	510	570					
Beryllium	ug/l	3.7	4.1					
Cadmium	ug/l	10	11					
Calcium	ug/l	404000	434000					
Chromium	ug/l	140	150					
Cobalt	ug/l	91	96					
Copper	ug/l	160	240					
Iron	ug/l	-	-					
Lead	ug/l	350	490					
Magnesium	ug/l	180000	155000					
Mercury	ug/l	.39	.85					
Nickel	ug/l	160	180					
Potassium	ug/l	36000	50100					
Selenium	ug/l	< 5.0	< 5.0					
Silver	ug/l	5.8	7.5					
Sodium	ug/l	82400	139000					
Thallium	ug/l	< 10	< 10					
Tin	ug/l	< 50	< 50					

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		W G318 891204 HA1835	W G337 891204 HA1837						
Vanadium	ug/l	160	180						
Zinc	ug/l	390	600						
Field Parameters									
pH (Field)	std	7.46	7.17						
Specific Conductance (Field)	um/cm	1760	2790						
Groundwater Elevation	Feet	582.15	580.28						
Temperature	Deg. C	11.7	13.6						
Depth to Water	Feet	12.91	11.61						
Well Depth	Feet	18.99	15.05						
Stick-Up	Feet	2.31	1.92						
Groundwater Pesticides									
Methoxychlor	ug/l	< .8	< .8						
Groundwater Herbicides									
2,4-D	ug/l	< 6	< 6						
2,4,5-TP (Silvex)	ug/l	< 1	< 1						
Aroclors by GC									
Aroclor 1242	ug/l	< .8	< .8						
Aroclor 1254	ug/l	< 2	< 2						
Aroclor 1260	ug/l	< 2	< 2						
Aroclor 1248	ug/l	< .8	< .8						
Aroclor 1232	ug/l	< .8	< .8						
Aroclor 1221	ug/l	< .8	< .8						
Aroclor 1016	ug/l	< .8	< .8						
Miscellaneous Parameters									
1,1,1,2-Tetrachloroethane	ug/l	< 10	< 10						
1,2,3-Trichloropropane	ug/l	< 10	< 10						
1,2,4,5-Tetrachlorobenzene	ug/l	< 10	< 20						

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below				See Below	
ETC Sample No.	WASTE MANAGEMENT, INC.	*Company*	705 *Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*						
		W G318 891204 HA1835	W G337 891204 HA1837					
1,2-Dibromo-3-chloropropane	ug/l	< 10	< 10					
1,2-Dibromoethane	ug/l	< 10	< 10					
1,4-Dichloro-2-butene	ug/l	< 10.0	< 10.0					
1,4-Dioxane	ug/l	< 300	< 300					
1,4-Naphthoquinone	ug/l	< 10	< 20					
1-Naphthylamine	ug/l	< 13.0	< 20					
2,3,4,6-Tetrachlorophenol	ug/l	< 10	< 20					
2,3,7,8-TCDD	ppt	< 4	< 1					
2,3,7,8-TCDF	ppt	< 1	< .2					
2,4,5-T	ug/l	< 1	< 1					
2,4,5-Trichlorophenol	ug/l	< 10	< 20					
2,6-Dichlorophenol	ug/l	< 10	< 20					
2-Acetylaminofluorene	ug/l	< 10	< 20					
2-Chloro-1,3-butadiene	ug/l	ND	ND					
2-Hexanone	ug/l	< 10	< 10					
2-Methylnaphthalene	ug/l	< 10	< 16.1					
2-Naphthylamine	ug/l	< 13.0	< 20					
2-Picoline	ug/l	< 10	< 20					
2-sec-Butyl-4,6-dinitrophenol	ug/l	< 10	< 20					
3,3'-Dimethylbenzidine	ug/l	< 10	< 20					
3-Methylcholanthrene	ug/l	< 10	< 20					
4-Aminobiphenyl	ug/l	< 10	< 20					
4-Nitroquinoline-N-oxide	ug/l	IND	IND					
5-Nitro-o-toluidine	ug/l	< 10	< 20					
7,12-Dimethylbenzo(a)anthracen	ug/l	< 10	< 20					
Acetone	ug/l	10.2	53.6					
Acetonitrile	ug/l	< 20	< 20					
Acetophenone	ug/l	< 13.0	< 16.1					
Aniline	ug/l	< 10	< 20					
Aramite	ug/l	< 10	< 20					
Benzyl alcohol	ug/l	< 13.0	< 16.1					
Carbon disulfide	ug/l	< 10	< 10					
Chlorobenzilate	ug/l	< 4	< 4					
Diallate	ug/l	< 10	< 20					
Dibenzofuran	ug/l	< 10	< 16.1					
Dibromomethane	ug/l	< 10	< 10					
Dimethoate	ug/l	< 4	< 4					

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*						
		W G318 891204 HA1835	W G337 891204 HA1837					
Diphenylamine	ug/l	< 10	< 20					
Disulfoton	ug/l	< .8	< .8					
Ethyl cyanide	ug/l	< 40	< 40					
Ethyl methacrylate	ug/l	< 10	< 10					
Ethyl methanesulfonate	ug/l	< 10	< 20					
Famphur	ug/l	< 20	< 20					
Hexachlorophene	ug/l	< 10	< 20					
Hexachloropropene	ug/l	< 10	< 20					
HxCDD	ppt	< 2	< .3					
HxCDF	ppt	< 3	< .7					
Iodomethane	ug/l	IND	IND					
Isobutyl alcohol	ug/l	< 200	< 200					
Isodrin	ug/l	< 8	< 10					
Isosafrole	ug/l	< 10	< 20					
Kepone	ug/l	< .8	< .8					
Methacrylonitrile	ug/l	< 100	< 100					
Methapyrilene	ug/l	IND	IND					
Methyl ethyl ketone	ug/l	< 10	< 10					
Methyl methacrylate	ug/l	< 10	< 10					
Methyl methanesulfonate	ug/l	< 10	< 20					
Methyl parathion	ug/l	< 2	< 2					
Methyl-iso-butyl ketone	ug/l	< 10	< 10					
N-Nitrosodi-n-butylamine	ug/l	< 10	< 16.1					
N-Nitrosodiethylamine	ug/l	< 10	< 20					
N-Nitrosomethylethylamine	ug/l	< 10	< 20					
N-Nitrosomorpholine	ug/l	< 10	< 20					
N-Nitrosopiperidine	ug/l	< 10	< 20					
N-Nitrosopyrrolidine	ug/l	IND	IND					
O,O,O-Triethyl phosphorothioat	ug/l	IND	IND					
PCDD	ppt	< 5	< 5					
PCDF	ppt	< 3	< .5					
Parathion	ug/l	< 2	< 2					
Pentachlorobenzene	ug/l	< 10	< 20					
Pentachloroethane	ug/l	IND	IND					
Pentachloronitrobenzene	ug/l	< 10	< 20					
Phenacetin	ug/l	< 10	< 20					
Phorate	ug/l	< 4	< 4					

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below ETC Sample No.	Company	Facility	See Below Sample Point	Date
	WASTE MANAGEMENT, INC.	705		

Parameters	Units	Sample Points, Sampling Dates, and ETC Sample No.'s						
		W G318 891204 HA1835	W G337 891204 HA1837					
Pronamide	ug/l	< 13.0	< 16.1					
Pyridine	ug/l	< 100	< 100					
Safrole	ug/l	< 10	< 20					
Styrene	ug/l	< 10	< 10					
Sulfide as S	mg/l	.62	1.0					
TCDD	ppt	< 4	< 2					
TCDF	ppt	< 2	< .3					
Tetraethyldithiopyrophosphate	ug/l	IND	IND					
Thionazin	ug/l	< 2	< 2					
Vinyl acetate	ug/l	< 10	< 10					
a-a-Dimethylphenethylamine	ug/l	IND	IND					
m+p-Cresols	ug/l	< 10	< 20					
m-Dinitrobenzene	ug/l	< 10	< 20					
m-Nitroaniline	ug/l	< 10	< 20					
m-Xylene	ug/l	< 10	< 10					
o+p-Xylenes	ug/l	< 10	< 10					
o-Cresol	ug/l	< 10	< 20					
o-Nitroaniline	ug/l	< 10	< 20					
o-Toluidine	ug/l	< 10	< 20					
p-Chloroaniline	ug/l	< 10	< 20					
p-Dimethylaminoazobenzene	ug/l	< 10	< 20					
p-Nitroaniline	ug/l	< 10	< 20					
p-phenylenediamine	ug/l	IND	IND					
sym-Trinitrobenzene	ug/l	IND	IND					

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

PHASE I
LEACHATE SAMPLE RESULTS

- APPENDIX K -

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

DATE: 10/14/93
PAGE: 1

Chain of Custody Data Required for ETC Data Management Summary Report

See Below			See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*
	WASTE MANAGEMENT, INC.	705		

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		C VAULT 891006 HA1526	X 01TB 891006 HA1529						
Priority Poll. Volatiles GC/MS									
Acrolein	ug/l	< 20.0	< 20.0						
Acrylonitrile	ug/l	< 10.0	< 10.0						
Benzene	ug/l	1750	< 4						
Bromoform	ug/l	< 500	< 5						
Carbon tetrachloride	ug/l	< 300	< 3						
Chlorobenzene	ug/l	1050	< 6						
Chlorodibromomethane	ug/l	< 300	< 3						
Chloroethane	ug/l	< 1000	< 10						
Chloroform	ug/l	< 200	< 2						
Dichlorobromomethane	ug/l	< 200	< 2						
Dichlorodifluoromethane	ug/l	< 1000	< 10						
1,1-Dichloroethane	ug/l	190	< 5						
1,2-Dichloroethane	ug/l	743	< 3						
1,1-Dichloroethylene	ug/l	5790	< 3						
1,2-Dichloropropane	ug/l	< 600	< 6						
cis-1,3-Dichloropropylene	ug/l	< 500	< 5						
Ethylbenzene	ug/l	630	< 7						
Methyl bromide	ug/l	< 1000	< 10						
Methyl chloride	ug/l	< 1000	< 10						
Methylene chloride	ug/l	4390	6.06						
1,1,2,2-Tetrachloroethane	ug/l	< 700	< 7						
Tetrachloroethylene	ug/l	< 400	< 4						
Toluene	ug/l	6210	< 6						
1,2-Trans-dichloroethylene	ug/l	< 200	< 2						
1,1,1-Trichloroethane	ug/l	< 400	< 4						
1,1,2-Trichloroethane	ug/l	2980	< 5						
Trichloroethylene	ug/l	< 200	< 2						
Trichlorofluoromethane	ug/l	< 1000	< 10						
Vinyl chloride	ug/l	3640	< 10						
trans-1,3-Dichloropropylene	ug/l	< 1000	< 10						

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below			See Below	
ETC Sample No.	WASTE MANAGEMENT, INC. *Company*	705 *Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		C VAULT 891006 HA1526	X UTB 891006 HA1529						
Field Parameters									
pH (Field)	std	9.45	-						
Specific Conductance (Field)	um/cm	7330	-						
Temperature	Deg. C	22.3	-						
Miscellaneous Parameters									
1,1,1,2-Tetrachloroethane	ug/l	< 1000	< 10						
1,2,3-Trichloropropane	ug/l	< 1000	< 10						
1,2-Dibromo-3-chloropropane	ug/l	< 1000	< 10						
1,2-Dibromoethane	ug/l	< 1000	< 10						
1,4-Dichloro-2-butene	ug/l	< 1000	< 10						
1,4-Dioxane	ug/l	< 300	< 300						
2-Chloro-1,3-butadiene	ug/l	ND	ND						
2-Hexanone	ug/l	< 1000	< 10						
3-chloropropene	ug/l	< 1000	< 10						
Acetone	ug/l	8480	25.5						
Acetonitrile	ug/l	< 15.0	< 15.0						
Carbon disulfide	ug/l	< 1000	< 10						
Dibromomethane	ug/l	< 1000	< 10						
Ethyl cyanide	ug/l	< 40.0	< 40.0						
Ethyl methacrylate	ug/l	< 1000	< 10						
Iodomethane	ug/l	< 1000	< 10						
Isobutyl alcohol	ug/l	26.8	< 230						
Methacrylonitrile	ug/l	< 110	< 110						
Methyl ethyl ketone	ug/l	< 1000	< 10						
Methyl methacrylate	ug/l	< 1000	< 10						
Methyl-iso-butyl ketone	ug/l	2760	< 10						
Pentachloroethane	ug/l	ND	ND						
Styrene	ug/l	< 1000	< 10						
Vinyl acetate	ug/l	< 1000	< 10						
m-Xylene	ug/l	990	< 10						
o+p-Xylenes	ug/l	800	< 10						

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

PHASE II

LEACHATE SAMPLE RESULTS

- APPENDIX K -

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		X L-3 911230 HA7223	X L-1 911230 HA7224	X L-1 911231 HA7269	X L-3 911230 HA7270	X L-4 920107 HA7044	X 92010918 920107 HA7049	X L-3 920113 HA7226	X L-4 920120 HA7263
Priority Poll. Volatiles GC/MS									
Acrolein	ug/l	-	-	-	-	<20000	< 20	-	-
Acrylonitrile	ug/l	-	-	-	-	<10000	< 10	-	-
Benzene	ug/l	-	-	-	-	2990	< 4	-	-
Bromoform	ug/l	-	-	-	-	< 1000	< 5	-	-
Carbon tetrachloride	ug/l	-	-	-	-	< 700	< 3	-	-
Chlorobenzene	ug/l	-	-	-	-	1510	< 6	-	-
Chlorodibromomethane	ug/l	-	-	-	-	< 800	< 3	-	-
Chloroethane	ug/l	-	-	-	-	< 3000	< 10	-	-
Chloroform	ug/l	-	-	-	-	< 400	< 2	-	-
Dichlorobromomethane	ug/l	-	-	-	-	< 600	< 2	-	-
Dichlorodifluoromethane	ug/l	-	-	-	-	< 3000	< 10	-	-
1,1-Dichloroethane	ug/l	-	-	-	-	< 1000	< 5	-	-
1,2-Dichloroethane	ug/l	-	-	-	-	< 700	< 3	-	-
1,1-Dichloroethylene	ug/l	-	-	-	-	10900	< 3	-	-
1,2-Dichloropropane	ug/l	-	-	-	-	< 2000	< 6	-	-
cis-1,3-Dichloropropylene	ug/l	-	-	-	-	< 1000	< 5	-	-
Ethylbenzene	ug/l	-	-	-	-	< 2000	< 7	-	-
Methyl bromide	ug/l	-	-	-	-	< 3000	< 10	-	-
Methyl chloride	ug/l	-	-	-	-	< 3000	< 10	-	-
Methylene chloride	ug/l	-	-	-	-	22300	< 3	-	-
1,1,2,2-Tetrachloroethane	ug/l	-	-	-	-	< 2000	< 7	-	-
Tetrachloroethylene	ug/l	-	-	-	-	< 1000	< 4	-	-
Toluene	ug/l	-	-	-	-	17500	< 6	-	-
1,2-Trans-dichloroethylene	ug/l	-	-	-	-	< 400	< 2	-	-
1,1,1-Trichloroethane	ug/l	-	-	-	-	< 1000	< 4	-	-
1,1,2-Trichloroethane	ug/l	-	-	-	-	36700	< 5	-	-
Trichloroethylene	ug/l	-	-	-	-	310	< 2	-	-
Trichlorofluoromethane	ug/l	-	-	-	-	< 3000	10	-	-
Vinyl chloride	ug/l	-	-	-	-	8130	< 10	-	-
trans-1,3-Dichloropropylene	ug/l	-	-	-	-	< 3000	< 10	-	-

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below ETC Sample No.	Company	Facility	See Below Sample Point	Date
	WASTE MANAGEMENT, INC.	705		

Parameters	Units	Sample Points, Sampling Dates, and ETC Sample No.'s							
		X L-3 911230 HA7223	X L-1 911230 HA7224	X L-1 911231 HA7269	X L-3 911230 HA7270	X L-4 920107 HA7044	X 9201091B 920107 HA7049	X L-3 920113 HA7226	X L-4 920120 HA7263
Priority Poll. Acids GC/MS									
2-Chlorophenol	ug/l	-	-	-	-	-	-	-	9260
2,4-Dichlorophenol	ug/l	-	-	-	-	-	-	-	41200
2,4-Dimethylphenol	ug/l	-	-	-	-	-	-	-	< 50
4,6-Dinitro-o-cresol	ug/l	-	-	-	-	-	-	-	< 400
2,4-Dinitrophenol	ug/l	-	-	-	-	-	-	-	< 700
2-Nitrophenol	ug/l	-	-	-	-	-	-	-	< 60
4-Nitrophenol	ug/l	-	-	-	-	-	-	-	< 40
p-Chloro-m-cresol	ug/l	-	-	-	-	-	-	-	< 50
Pentachlorophenol	ug/l	-	-	-	-	-	-	-	< 60
Phenol	ug/l	-	-	-	-	-	-	-	131000
2,4,6-Trichlorophenol	ug/l	-	-	-	-	-	-	-	695
Priority Poll. B/Ns GC/MS									
Acenaphthene	ug/l	-	-	-	-	-	-	-	< 30
Acenaphthylene	ug/l	-	-	-	-	-	-	-	28
Anthracene	ug/l	-	-	-	-	-	-	-	< 30
Benzo(a)anthracene	ug/l	-	-	-	-	-	-	-	< 100
Benzo(a)pyrene	ug/l	-	-	-	-	-	-	-	< 40
Benzo(b)fluoranthene	ug/l	-	-	-	-	-	-	-	< 80
Benzo(ghi)perylene	ug/l	-	-	-	-	-	-	-	< 70
Benzo(k)fluoranthene	ug/l	-	-	-	-	-	-	-	< 40
bis(2-Chloroethoxy)methane	ug/l	-	-	-	-	-	-	-	< 90
bis(2-Chloroethyl) ether	ug/l	-	-	-	-	-	-	-	< 100
bis(2-Chloroisopropyl)ether	ug/l	-	-	-	-	-	-	-	< 100
bis(2-Ethylhexyl)phthalate	ug/l	-	-	-	-	-	-	-	< 200
4-Bromophenyl phenyl ether	ug/l	-	-	-	-	-	-	-	< 30
Butyl benzyl phthalate	ug/l	-	-	-	-	-	-	-	< 200
2-Chloronaphthalene	ug/l	-	-	-	-	-	-	-	< 30
4-Chlorophenyl phenyl ether	ug/l	-	-	-	-	-	-	-	< 70
Chrysene	ug/l	-	-	-	-	-	-	-	< 40
Dibenzo(a,h)anthracene	ug/l	-	-	-	-	-	-	-	< 40
1,2-Dichlorobenzene	ug/l	-	-	-	-	-	-	-	< 30
1,3-Dichlorobenzene	ug/l	-	-	-	-	-	-	-	< 30

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below (*ETC Sample No.*) | WASTE MANAGEMENT, INC. (*Company*) | 705 (*Facility*) | See Below (*Sample Point*) | See Below (*Date*)

Parameters	Units	Sample Points, Sampling Dates, and ETC Sample No.'s							
		X L-3 911230 HA7223	X L-1 911230 HA7224	X L-1 911231 HA7269	X L-3 911230 HA7270	X L-4 920107 HA7044	X 920109TB 920107 HA7049	X L-3 920113 HA7226	X L-4 920120 HA7263
1,4-Dichlorobenzene	ug/l	-	-	-	-	-	-	-	< 70
3,3'-Dichlorobenzidine	ug/l	-	-	-	-	-	-	-	< 300
Diethyl phthalate	ug/l	-	-	-	-	-	-	-	< 200
Dimethyl phthalate	ug/l	-	-	-	-	-	-	-	< 200
Di-n-butyl phthalate	ug/l	-	-	-	-	-	-	-	< 200
2,4-Dinitrotoluene	ug/l	-	-	-	-	-	-	-	< 100
2,6-Dinitrotoluene	ug/l	-	-	-	-	-	-	-	< 30
Di-n-octyl phthalate	ug/l	-	-	-	-	-	-	-	< 200
Fluoranthene	ug/l	-	-	-	-	-	-	-	< 40
Fluorene	ug/l	-	-	-	-	-	-	-	< 30
Hexachlorobenzene	ug/l	-	-	-	-	-	-	-	< 30
Hexachlorobutadiene	ug/l	-	-	-	-	-	-	-	< 20
Hexachlorocyclopentadiene	ug/l	-	-	-	-	-	-	-	< 200
Hexachloroethane	ug/l	-	-	-	-	-	-	-	< 30
Indeno(1,2,3-c,d)pyrene	ug/l	-	-	-	-	-	-	-	< 60
Isophorone	ug/l	-	-	-	-	-	-	-	< 40
Naphthalene	ug/l	-	-	-	-	-	-	-	688
Nitrobenzene	ug/l	-	-	-	-	-	-	-	< 30
N-Nitrosodimethylamine	ug/l	-	-	-	-	-	-	-	< 200
N-Nitrosodi-n-propylamine	ug/l	-	-	-	-	-	-	-	< 200
N-Nitrosodiphenylamine	ug/l	-	-	-	-	-	-	-	< 30
Phenanthrene	ug/l	-	-	-	-	-	-	-	22
Pyrene	ug/l	-	-	-	-	-	-	-	< 30
1,2,4-Trichlorobenzene	ug/l	-	-	-	-	-	-	-	< 30
Priority Poll. Pest/PCBs GC/MS									
Aldrin	ug/l	-	< .0521	-	-	-	-	-	-
Alpha-BHC	ug/l	-	< .0521	-	-	-	-	-	-
Beta-BHC	ug/l	-	< .0521	-	-	-	-	-	-
Gamma-BHC	ug/l	-	7.17	-	-	-	-	-	-
Delta-BHC	ug/l	-	1.38	-	-	-	-	-	-
Chlordane	ug/l	-	< 1.04	-	-	-	-	-	-
4,4'-DDT	ug/l	-	.539	-	-	-	-	-	-
4,4'-DDE	ug/l	-	< .104	-	-	-	-	-	-
4,4'-DDD	ug/l	-	< .104	-	-	-	-	-	-
Dieldrin	ug/l	-	< .104	-	-	-	-	-	-

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	Units	Sample Points, Sampling Dates, and ETC Sample No.'s							
		X L-3 911230 HA7223	X L-1 911230 HA7224	X L-1 911231 HA7269	X L-3 911230 HA7270	X L-4 920107 HA7044	X 92010918 920107 HA7049	X L-3 920113 HA7226	X L-4 920120 HA7263
Endosulfan I	ug/l	-	< .0521	-	-	-	-	-	-
Endosulfan II	ug/l	-	< .104	-	-	-	-	-	-
Endosulfan sulfate	ug/l	-	< .104	-	-	-	-	-	-
Endrin	ug/l	-	< .104	-	-	-	-	-	-
Endrin aldehyde	ug/l	-	.365	-	-	-	-	-	-
Heptachlor	ug/l	-	< .0521	-	-	-	-	-	-
Heptachlor epoxide	ug/l	-	< .0521	-	-	-	-	-	-
Toxaphene	ug/l	-	< 2.08	-	-	-	-	-	-
Groundwater Conventionals									
Cyanide, Total	mg/l	-	-	.0644	-	-	-	.127	-
Metals Analysis Data									
Antimony	ug/l	< 60	-	-	-	-	-	-	-
Arsenic	ug/l	220	-	-	-	-	-	-	-
Barium	ug/l	520	-	-	-	-	-	-	-
Beryllium	ug/l	2.5	-	-	-	-	-	-	-
Cadmium	ug/l	4.8	-	-	-	-	-	-	-
Chromium	ug/l	200	-	-	-	-	-	-	-
Cobalt	ug/l	89	-	-	-	-	-	-	-
Copper	ug/l	310	-	-	-	-	-	-	-
Lead	ug/l	260	-	-	-	-	-	-	-
Mercury	ug/l	.40	-	-	-	-	-	-	-
Nickel	ug/l	2160	-	-	-	-	-	-	-
Selenium	ug/l	300	-	-	-	-	-	-	-
Silver	ug/l	< 10	-	-	-	-	-	-	-
Thallium	ug/l	< 50	-	-	-	-	-	-	-
Tin	ug/l	< 50	-	-	-	-	-	-	-
Vanadium	ug/l	370	-	-	-	-	-	-	-
Zinc	ug/l	2800	-	-	-	-	-	-	-
Field Parameters									
pH (Field)	std	-	10.16	-	-	-	-	-	-
pH (Field)	std	-	10.16	-	-	-	-	-	-

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below — *ETC Sample No.* | WASTE MANAGEMENT, INC. — *Company* | 705 — *Facility* | See Below — *Sample Point* | *Date*

Parameters	Units	Sample Points, Sampling Dates, and ETC Sample No.'s							
		X L-3 911230 HA7223	X L-1 911230 HA7224	X L-1 911231 HA7269	X L-3 911230 HA7270	X L-4 920107 HA7044	X 920109TB 920107 HA7049	X L-3 920113 HA7226	X L-4 920120 HA7263
pH (Field)	std	-	10.13	-	-	-	-	-	-
pH (Field)	std	-	10.15	-	-	-	-	-	-
Specific Conductance (Field)	um/cm	-	20000	-	-	-	-	-	-
Specific Conductance (Field)	um/cm	-	20000	-	-	-	-	-	-
Specific Conductance (Field)	um/cm	-	20000	-	-	-	-	-	-
Specific Conductance (Field)	um/cm	-	20000	-	-	-	-	-	-
Temperature	Deg. C	-	10.9	-	-	-	-	-	-
Sample Depth	Feet	-	7	-	-	-	-	-	-
Groundwater Pesticides									
Methoxychlor	ug/l	-	< .521	-	-	-	-	-	-
Groundwater Herbicides									
2,4-D	ug/l	-	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	ug/l	-	-	-	-	-	-	-	-
Aroclors by GC									
Aroclor 1242	ug/l	-	< .521	-	-	-	-	-	-
Aroclor 1254	ug/l	-	< 1.04	-	-	-	-	-	-
Aroclor 1260	ug/l	-	< 1.04	-	-	-	-	-	-
Aroclor 1248	ug/l	-	< .521	-	-	-	-	-	-
Aroclor 1232	ug/l	-	< .521	-	-	-	-	-	-
Aroclor 1221	ug/l	-	< .521	-	-	-	-	-	-
Aroclor 1016	ug/l	-	< .521	-	-	-	-	-	-
Miscellaneous Parameters									
1,1,1,2-Tetrachloroethane	ug/l	-	-	-	-	< 3000	< 10	-	-
1,2,3-Trichloropropane	ug/l	-	-	-	-	< 3000	< 10	-	-
1,2,4,5-Tetrachlorobenzene	ug/l	-	-	-	-	-	-	-	< 200
1,2-Dibromo-3-chloropropane	ug/l	-	-	-	-	< 3000	< 10	-	-
1,2-Dibromoethane	ug/l	-	-	-	-	< 3000	< 10	-	-
1,4-Dichloro-2-butene	ug/l	-	-	-	-	< 3000	< 10	-	-
1,4-Dioxane	ug/l	-	-	-	-	< 300000	< 300	-	-

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below — *ETC Sample No.* | WASTE MANAGEMENT, INC. — *Company* | 705 — *Facility* | See Below — *Sample Point* | *Date*

Parameters	Units	X L-3 911230 HA7223	X L-1 911230 HA7224	X L-1 911231 HA7269	X L-3 911230 HA7270	X L-4 920107 HA7044	X 920109TB 920107 HA7049	X L-3 920113 HA7226	X L-4 920120 HA7263
1,4-Naphthoquinone	ug/l	-	-	-	-	-	-	-	< 200
1-Naphthylamine	ug/l	-	-	-	-	-	-	-	< 200
2,3,4,6-Tetrachlorophenol	ug/l	-	-	-	-	-	-	-	< 200
2,3,7,8-TCDD	ppt	-	-	13.6	< .8	-	-	-	-
2,3,7,8-TCDF	ppt	-	-	2.6	.33	-	-	-	-
2,4,5-T	ug/l	-	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	ug/l	-	-	-	-	-	-	-	< 200
2,6-Dichlorophenol	ug/l	-	-	-	-	-	-	-	5760
2-Acetylaminofluorene	ug/l	-	-	-	-	-	-	-	< 200
2-Chloro-1,3-butadiene	ug/l	-	-	-	-	ND	ND	-	-
2-Hexanone	ug/l	-	-	-	-	< 3000	< 10	-	-
2-Methylnaphthalene	ug/l	-	-	-	-	-	-	-	160
2-Naphthylamine	ug/l	-	-	-	-	-	-	-	< 200
2-Picoline	ug/l	-	-	-	-	-	-	-	< 200
2-sec-Butyl-4,6-dinitrophenol	ug/l	-	-	-	-	-	-	-	< 200
3,3'-Dimethylbenzidine	ug/l	-	-	-	-	-	-	-	< 200
3-Methylcholanthrene	ug/l	-	-	-	-	-	-	-	< 90
3-chloropropene	ug/l	-	-	-	-	< 3000	< 10	-	-
4-Aminobiphenyl	ug/l	-	-	-	-	-	-	-	< 200
4-Nitroquinoline-N-oxide	ug/l	-	-	-	-	-	-	-	IND
5-Nitro-o-toluidine	ug/l	-	-	-	-	-	-	-	< 200
7,12-Dimethylbenzo(a)anthracen	ug/l	-	-	-	-	-	-	-	< 200
Acetone	ug/l	-	-	-	-	< 3000	< 10	-	-
Acetonitrile	ug/l	-	-	-	-	<20000	< 20	-	-
Acetophenone	ug/l	-	-	-	-	-	-	-	< 200
Aniline	ug/l	-	-	-	-	-	-	-	2000
Aramite	ug/l	-	-	-	-	-	-	-	< 200
Benzyl alcohol	ug/l	-	-	-	-	-	-	-	< 200
Carbon disulfide	ug/l	-	-	-	-	< 3000	< 10	-	-
Chlorobenzilate	ug/l	-	< 2.60	-	-	-	-	-	-
Diallate	ug/l	-	-	-	-	-	-	-	< 200
Dibenzofuran	ug/l	-	-	-	-	-	-	-	< 200
Dibromomethane	ug/l	-	-	-	-	< 3000	< 10	-	-
Dimethoate	ug/l	-	< 2.60	-	-	-	-	-	-
Diphenylamine	ug/l	-	-	-	-	-	-	-	< 200
Disulfoton	ug/l	-	< .521	-	-	-	-	-	-
Ending Sample Depth	Feet	-	9.5	-	-	-	-	-	-

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	Units	Sample Points, Sampling Dates, and ETC Sample No.'s							
		X L-3 911230 HA7223	X L-1 911230 HA7224	X L-1 911231 HA7269	X L-3 911230 HA7270	X L-4 920107 HA7044	X 92010918 920107 HA7049	X L-3 920113 HA7226	X L-4 920120 HA7263
Ethyl cyanide	ug/l	-	-	-	-	<40000	< 40	-	-
Ethyl methacrylate	ug/l	-	-	-	-	< 3000	< 10	-	-
Ethyl methanesulfonate	ug/l	-	-	-	-	-	-	-	< 200
Famphur	ug/l	-	< 10.4	-	-	-	-	-	-
Hexachlorophene	ug/l	-	-	-	-	-	-	-	< 200
Hexachloropropene	ug/l	-	-	-	-	-	-	-	< 200
HxCDD	ppt	-	-	4.9	.51	-	-	-	-
HxCDF	ppt	-	-	< 1	< .3	-	-	-	-
Iodomethane	ug/l	-	-	-	-	< 3000	< 10	-	-
Isobutyl alcohol	ug/l	-	-	-	-	120000	< 200	-	-
Isodrin	ug/l	-	-	-	-	-	-	-	< 100
Isosafrole	ug/l	-	-	-	-	-	-	-	< 200
Kepone	ug/l	-	< .521	-	-	-	-	-	-
Methacrylonitrile	ug/l	-	-	-	-	< 100000	< 100	-	-
Methapyrilene	ug/l	-	-	-	-	-	-	-	IND
Methyl ethyl ketone	ug/l	-	-	-	-	< 3000	< 10	-	-
Methyl methacrylate	ug/l	-	-	-	-	< 3000	< 10	-	-
Methyl methanesulfonate	ug/l	-	-	-	-	-	-	-	< 200
Methyl parathion	ug/l	-	< 1.04	-	-	-	-	-	-
Methyl-iso-butyl ketone	ug/l	-	-	-	-	< 3000	< 10	-	-
N-Nitrosodi-n-butylamine	ug/l	-	-	-	-	-	-	-	< 200
N-Nitrosodiethylamine	ug/l	-	-	-	-	-	-	-	< 200
N-Nitrosomethylethylamine	ug/l	-	-	-	-	-	-	-	< 200
N-Nitrosomorpholine	ug/l	-	-	-	-	-	-	-	< 200
N-Nitrosopiperidine	ug/l	-	-	-	-	-	-	-	< 200
N-Nitrosopyrrolidine	ug/l	-	-	-	-	-	-	-	< 200
PCDD	ppt	-	-	.77	.75	-	-	-	-
PCDF	ppt	-	-	5.3	.43	-	-	-	-
Parathion	ug/l	-	< 1.04	-	-	-	-	-	-
Pentachlorobenzene	ug/l	-	-	-	-	-	-	-	< 200
Pentachloroethane	ug/l	-	-	-	-	ND	ND	-	-
Pentachloronitrobenzene	ug/l	-	-	-	-	-	-	-	< 200
Phenacetin	ug/l	-	-	-	-	-	-	-	< 200
Phorate	ug/l	-	< 2.60	-	-	-	-	-	-
Pronamide	ug/l	-	-	-	-	-	-	-	< 200
Pyridine	ug/l	-	-	-	-	-	-	-	2610
Safrole	ug/l	-	-	-	-	-	-	-	< 200

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		X L-3 911230 HA7223	X L-1 911230 HA7224	X L-1 911231 HA7269	X L-3 911230 HA7270	X L-4 920107 HA7044	X 9201091B 920107 HA7049	X L-3 920113 HA7226	X L-4 920120 HA7263
Styrene	ug/l	-	-	-	-	< 3000	< 10	-	-
TCDD	ppt	-	-	95.3	1.7	-	-	-	-
TCDF	ppt	-	-	28.0	1.8	-	-	-	-
Tetraethyldithiopyrophosphate	ug/l	-	-	-	-	-	-	-	ND
Thionazin	ug/l	-	< 1.04	-	-	-	-	-	-
Vinyl acetate	ug/l	-	-	-	-	< 3000	< 10	-	-
m+p-Cresols	ug/l	-	-	-	-	-	-	-	24600
m-Dinitrobenzene	ug/l	-	-	-	-	-	-	-	< 200
m-Nitroaniline	ug/l	-	-	-	-	-	-	-	< 200
m-Xylene	ug/l	-	-	-	-	< 3000	< 10	-	-
m-phenylenediamine	ug/l	-	-	-	-	-	-	-	< 200
o+p-Xylenes	ug/l	-	-	-	-	< 3000	< 10	-	-
o-Cresol	ug/l	-	-	-	-	-	-	-	< 200
o-Nitroaniline	ug/l	-	-	-	-	-	-	-	< 200
o-Toluidine	ug/l	-	-	-	-	-	-	-	< 200
o-phenylenediamine	ug/l	-	-	-	-	-	-	-	< 200
p-Chloroaniline	ug/l	-	-	-	-	-	-	-	8500
p-Dimethylaminoazobenzene	ug/l	-	-	-	-	-	-	-	< 200
p-Nitroaniline	ug/l	-	-	-	-	-	-	-	< 200
p-phenylenediamine	ug/l	-	-	-	-	-	-	-	< 200
sym-Trinitrobenzene	ug/l	-	-	-	-	-	-	-	IND

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		X L-4 920127 HA7264	X L-4 920204 HA7265	X L-4 920310 HA7266	X L-4 920312 HA7267				
Priority Poll. Volatiles GC/MS									
Acrolein	ug/l	-	-	-	-				
Acrylonitrile	ug/l	-	-	-	-				
Benzene	ug/l	-	-	-	-				
Bromoform	ug/l	-	-	-	-				
Carbon tetrachloride	ug/l	-	-	-	-				
Chlorobenzene	ug/l	-	-	-	-				
Chlorodibromomethane	ug/l	-	-	-	-				
Chloroethane	ug/l	-	-	-	-				
Chloroform	ug/l	-	-	-	-				
Dichlorobromomethane	ug/l	-	-	-	-				
Dichlorodifluoromethane	ug/l	-	-	-	-				
1,1-Dichloroethane	ug/l	-	-	-	-				
1,2-Dichloroethane	ug/l	-	-	-	-				
1,1-Dichloroethylene	ug/l	-	-	-	-				
1,2-Dichloropropane	ug/l	-	-	-	-				
cis-1,3-Dichloropropylene	ug/l	-	-	-	-				
Ethylbenzene	ug/l	-	-	-	-				
Methyl bromide	ug/l	-	-	-	-				
Methyl chloride	ug/l	-	-	-	-				
Methylene chloride	ug/l	-	-	-	-				
1,1,2,2-Tetrachloroethane	ug/l	-	-	-	-				
Tetrachloroethylene	ug/l	-	-	-	-				
Toluene	ug/l	-	-	-	-				
1,2-Trans-dichloroethylene	ug/l	-	-	-	-				
1,1,1-Trichloroethane	ug/l	-	-	-	-				
1,1,2-Trichloroethane	ug/l	-	-	-	-				
Trichloroethylene	ug/l	-	-	-	-				
Trichlorofluoromethane	ug/l	-	-	-	-				
Vinyl chloride	ug/l	-	-	-	-				
trans-1,3-Dichloropropylene	ug/l	-	-	-	-				

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below				See Below	
ETC Sample No.	WASTE MANAGEMENT, INC. *Company*	705 *Facility*		*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		X L-4 920127 HA7264	X L-4 920204 HA7265	X L-4 920310 HA7266	X L-4 920312 HA7267				
Priority Poll. Acids GC/MS									
2-Chlorophenol	ug/l	-	-	-	-				
2,4-Dichlorophenol	ug/l	-	-	-	-				
2,4-Dimethylphenol	ug/l	-	-	-	-				
4,6-Dinitro-o-cresol	ug/l	-	-	-	-				
2,4-Dinitrophenol	ug/l	-	-	-	-				
2-Nitrophenol	ug/l	-	-	-	-				
4-Nitrophenol	ug/l	-	-	-	-				
p-Chloro-m-cresol	ug/l	-	-	-	-				
Pentachlorophenol	ug/l	-	-	-	-				
Phenol	ug/l	-	-	-	-				
2,4,6-Trichlorophenol	ug/l	-	-	-	-				
Priority Poll. B/Ns GC/MS									
Acenaphthene	ug/l	-	-	-	-				
Acenaphthylene	ug/l	-	-	-	-				
Anthracene	ug/l	-	-	-	-				
Benzo(a)anthracene	ug/l	-	-	-	-				
Benzo(a)pyrene	ug/l	-	-	-	-				
Benzo(b)fluoranthene	ug/l	-	-	-	-				
Benzo(ghi)perylene	ug/l	-	-	-	-				
Benzo(k)fluoranthene	ug/l	-	-	-	-				
bis(2-Chloroethoxy)methane	ug/l	-	-	-	-				
bis(2-Chloroethyl) ether	ug/l	-	-	-	-				
bis(2-Chloroisopropyl)ether	ug/l	-	-	-	-				
bis(2-Ethylhexyl)phthalate	ug/l	-	-	-	-				
4-Bromophenyl phenyl ether	ug/l	-	-	-	-				
Butyl benzyl phthalate	ug/l	-	-	-	-				
2-Chloronaphthalene	ug/l	-	-	-	-				
4-Chlorophenyl phenyl ether	ug/l	-	-	-	-				
Chrysene	ug/l	-	-	-	-				
Dibenzo(a,h)anthracene	ug/l	-	-	-	-				
1,2-Dichlorobenzene	ug/l	-	-	-	-				
1,3-Dichlorobenzene	ug/l	-	-	-	-				

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

DATE: 10/14/93
PAGE: 11

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		X L-4 920127 HA7264	X L-4 920204 HA7265	X L-4 920310 HA7266	X L-4 920312 HA7267				
1,4-Dichlorobenzene	ug/l	-	-	-	-				
3,3'-Dichlorobenzidine	ug/l	-	-	-	-				
Diethyl phthalate	ug/l	-	-	-	-				
Dimethyl phthalate	ug/l	-	-	-	-				
Di-n-butyl phthalate	ug/l	-	-	-	-				
2,4-Dinitrotoluene	ug/l	-	-	-	-				
2,6-Dinitrotoluene	ug/l	-	-	-	-				
Di-n-octyl phthalate	ug/l	-	-	-	-				
Fluoranthene	ug/l	-	-	-	-				
Fluorene	ug/l	-	-	-	-				
Hexachlorobenzene	ug/l	-	-	-	-				
Hexachlorobutadiene	ug/l	-	-	-	-				
Hexachlorocyclopentadiene	ug/l	-	-	-	-				
Hexachloroethane	ug/l	-	-	-	-				
Indeno(1,2,3-c,d)pyrene	ug/l	-	-	-	-				
Isophorone	ug/l	-	-	-	-				
Naphthalene	ug/l	-	-	-	-				
Nitrobenzene	ug/l	-	-	-	-				
N-Nitrosodimethylamine	ug/l	-	-	-	-				
N-Nitrosodi-n-propylamine	ug/l	-	-	-	-				
N-Nitrosodiphenylamine	ug/l	-	-	-	-				
Phenanthrene	ug/l	-	-	-	-				
Pyrene	ug/l	-	-	-	-				
1,2,4-Trichlorobenzene	ug/l	-	-	-	-				
Priority Poll. Pest/PCBs GC/MS									
Aldrin	ug/l	< .0568	-	-	-				
Alpha-BHC	ug/l	< .0568	-	-	-				
Beta-BHC	ug/l	< .0568	-	-	-				
Gamma-BHC	ug/l	.439	-	-	-				
Delta-BHC	ug/l	< .0568	-	-	-				
Chlordane	ug/l	< 1.14	-	-	-				
4,4'-DDT	ug/l	.201	-	-	-				
4,4'-DDE	ug/l	< .114	-	-	-				
4,4'-DDD	ug/l	< .114	-	-	-				
Dieldrin	ug/l	< .114	-	-	-				

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below				See Below	
ETC Sample No.	WASTE MANAGEMENT, INC.	*Company*	705 *Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		X L-4 920127 HA7264	X L-4 920204 HA7265	X L-4 920310 HA7266	X L-4 920312 HA7267				
Endosulfan I	ug/l	< .0568	-	-	-				
Endosulfan II	ug/l	< .114	-	-	-				
Endosulfan sulfate	ug/l	< .114	-	-	-				
Endrin	ug/l	< .114	-	-	-				
Endrin aldehyde	ug/l	< .114	-	-	-				
Heptachlor	ug/l	< .0568	-	-	-				
Heptachlor epoxide	ug/l	< .0568	-	-	-				
Toxaphene	ug/l	< 2.27	-	-	-				
Groundwater Conventionals									
Cyanide, Total	mg/l	-	-	-	33.6				
Metals Analysis Data									
Antimony	ug/l	-	-	< 60	-				
Arsenic	ug/l	-	-	180	-				
Barium	ug/l	-	-	1100	-				
Beryllium	ug/l	-	-	15	-				
Cadmium	ug/l	-	-	42	-				
Chromium	ug/l	-	-	2900	-				
Cobalt	ug/l	-	-	130	-				
Copper	ug/l	-	-	1280	-				
Lead	ug/l	-	-	2200	-				
Mercury	ug/l	-	-	1.20	-				
Nickel	ug/l	-	-	1200	-				
Selenium	ug/l	-	-	140	-				
Silver	ug/l	-	-	4.6	-				
Thallium	ug/l	-	-	6.4	-				
Tin	ug/l	-	-	1300	-				
Vanadium	ug/l	-	-	260	-				
Zinc	ug/l	-	-	10700	-				
Field Parameters									
pH (Field)	std	-	-	9.79	9.79				
pH (Field)	std	-	-	-	-				

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected "-"=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		X L-4 920127 HA7264	X L-4 920204 HA7265	X L-4 920310 HA7266	X L-4 920312 HA7267				
pH (Field)	std	-	-	-	-				
pH (Field)	std	-	-	-	-				
Specific Conductance (Field)	um/cm	-	-	16400	16400				
Specific Conductance (Field)	um/cm	-	-	-	-				
Specific Conductance (Field)	um/cm	-	-	-	-				
Specific Conductance (Field)	um/cm	-	-	-	-				
Temperature	Deg. C	-	-	8.9	8.9				
Sample Depth	Feet	-	-	-	-				
Groundwater Pesticides									
Methoxychlor	ug/l	< .568	-	-	-				
Groundwater Herbicides									
2,4-D	ug/l	-	< 38.0	-	-				
2,4,5-TP (Silvex)	ug/l	-	< 7.61	-	-				
Aroclors by GC									
Aroclor 1242	ug/l	< .568	-	-	-				
Aroclor 1254	ug/l	< 1.14	-	-	-				
Aroclor 1260	ug/l	< 1.14	-	-	-				
Aroclor 1248	ug/l	< .568	-	-	-				
Aroclor 1232	ug/l	< .568	-	-	-				
Aroclor 1221	ug/l	< .568	-	-	-				
Aroclor 1016	ug/l	< .568	-	-	-				
Miscellaneous Parameters									
1,1,1,2-Tetrachloroethane	ug/l	-	-	-	-				
1,2,3-Trichloropropane	ug/l	-	-	-	-				
1,2,4,5-Tetrachlorobenzene	ug/l	-	-	-	-				
1,2-Dibromo-3-chloropropane	ug/l	-	-	-	-				
1,2-Dibromoethane	ug/l	-	-	-	-				
1,4-Dichloro-2-butene	ug/l	-	-	-	-				
1,4-Dioxane	ug/l	-	-	-	-				

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		X L-4 920127 HA7264	X L-4 920204 HA7265	X L-4 920310 HA7266	X L-4 920312 HA7267				
1,4-Naphthoquinone	ug/l	-	-	-	-				
1-Naphthylamine	ug/l	-	-	-	-				
2,3,4,6-Tetrachlorophenol	ug/l	-	-	-	-				
2,3,7,8-TCDD	ppt	-	< 2	-	-				
2,3,7,8-TCDF	ppt	-	< .7	-	-				
2,4,5-T	ug/l	-	< 7.61	-	-				
2,4,5-Trichlorophenol	ug/l	-	-	-	-				
2,6-Dichlorophenol	ug/l	-	-	-	-				
2-Acetylaminofluorene	ug/l	-	-	-	-				
2-Chloro-1,3-butadiene	ug/l	-	-	-	-				
2-Hexanone	ug/l	-	-	-	-				
2-Methylnaphthalene	ug/l	-	-	-	-				
2-Naphthylamine	ug/l	-	-	-	-				
2-Picoline	ug/l	-	-	-	-				
2-sec-Butyl-4,6-dinitrophenol	ug/l	-	-	-	-				
3,3'-Dimethylbenzidine	ug/l	-	-	-	-				
3-Methylcholanthrene	ug/l	-	-	-	-				
3-chloropropene	ug/l	-	-	-	-				
4-Aminobiphenyl	ug/l	-	-	-	-				
4-Nitroquinoline-N-oxide	ug/l	-	-	-	-				
5-Nitro-o-toluidine	ug/l	-	-	-	-				
7,12-Dimethylbenzo(a)anthracen	ug/l	-	-	-	-				
Acetone	ug/l	-	-	-	-				
Acetonitrile	ug/l	-	-	-	-				
Acetophenone	ug/l	-	-	-	-				
Aniline	ug/l	-	-	-	-				
Aramite	ug/l	-	-	-	-				
Benzyl alcohol	ug/l	-	-	-	-				
Carbon disulfide	ug/l	-	-	-	-				
Chlorobenzilate	ug/l	< 2.84	-	-	-				
Diallate	ug/l	-	-	-	-				
Dibenzofuran	ug/l	-	-	-	-				
Dibromomethane	ug/l	-	-	-	-				
Dimethoate	ug/l	< 2.75	-	-	-				
Diphenylamine	ug/l	-	-	-	-				
Disulfoton	ug/l	2.89	-	-	-				
Ending Sample Depth	Feet	-	-	-	-				

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below				See Below	
ETC Sample No.	WASTE MANAGEMENT, INC. *Company*	705 *Facility*		*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		X L-4 920127 HA7264	X L-4 920204 HA7265	X L-4 920310 HA7266	X L-4 920312 HA7267				
Ethyl cyanide	ug/l	-	-	-	-				
Ethyl methacrylate	ug/l	-	-	-	-				
Ethyl methanesulfonate	ug/l	-	-	-	-				
Famphur	ug/l	< 11.0	-	-	-				
Hexachlorophene	ug/l	-	-	-	-				
Hexachloropropene	ug/l	-	-	-	-				
HxCDD	ppt	-	< 1	-	-				
HxCDF	ppt	-	< .4	-	-				
Iodomethane	ug/l	-	-	-	-				
Isobutyl alcohol	ug/l	-	-	-	-				
Isodrin	ug/l	-	-	-	-				
Isosafrole	ug/l	-	-	-	-				
Kepone	ug/l	< .568	-	-	-				
Methacrylonitrile	ug/l	-	-	-	-				
Methapyrilene	ug/l	-	-	-	-				
Methyl ethyl ketone	ug/l	-	-	-	-				
Methyl methacrylate	ug/l	-	-	-	-				
Methyl methanesulfonate	ug/l	-	-	-	-				
Methyl parathion	ug/l	< 1.10	-	-	-				
Methyl-iso-butyl ketone	ug/l	-	-	-	-				
N-Nitrosodi-n-butylamine	ug/l	-	-	-	-				
N-Nitrosodiethylamine	ug/l	-	-	-	-				
N-Nitrosomethylethylamine	ug/l	-	-	-	-				
N-Nitrosomorpholine	ug/l	-	-	-	-				
N-Nitrosopiperidine	ug/l	-	-	-	-				
N-Nitrosopyrrolidine	ug/l	-	-	-	-				
PCDD	ppt	-	< 2	-	-				
PCDF	ppt	-	< 6	-	-				
Parathion	ug/l	< 1.10	-	-	-				
Pentachlorobenzene	ug/l	-	-	-	-				
Pentachloroethane	ug/l	-	-	-	-				
Pentachloronitrobenzene	ug/l	-	-	-	-				
Phenacetin	ug/l	-	-	-	-				
Phorate	ug/l	204	-	-	-				
Pronamide	ug/l	-	-	-	-				
Pyridine	ug/l	-	-	-	-				
Safrole	ug/l	-	-	-	-				

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below				See Below
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*
	WASTE MANAGEMENT, INC.	705		

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		X L-4 920127 HA7264	X L-4 920204 HA7265	X L-4 920310 HA7266	X L-4 920312 HA7267				
Styrene	ug/l	-	-	-	-				
TCDD	ppt	-	< 2	-	-				
TCDF	ppt	-	< .7	-	-				
Tetraethyldithiopyrophosphate	ug/l	-	-	-	-				
Thionazin	ug/l	< 1.10	-	-	-				
Vinyl acetate	ug/l	-	-	-	-				
m+p-Cresols	ug/l	-	-	-	-				
m-Dinitrobenzene	ug/l	-	-	-	-				
m-Nitroaniline	ug/l	-	-	-	-				
m-Xylene	ug/l	-	-	-	-				
m-phenylenediamine	ug/l	-	-	-	-				
o+p-Xylenes	ug/l	-	-	-	-				
o-Cresol	ug/l	-	-	-	-				
o-Nitroaniline	ug/l	-	-	-	-				
o-Toluidine	ug/l	-	-	-	-				
o-phenylenediamine	ug/l	-	-	-	-				
p-Chloroaniline	ug/l	-	-	-	-				
p-Dimethylaminoazobenzene	ug/l	-	-	-	-				
p-Nitroaniline	ug/l	-	-	-	-				
p-phenylenediamine	ug/l	-	-	-	-				
sym-Trinitrobenzene	ug/l	-	-	-	-				

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

PHASE I

FILL SAMPLE RESULTS

- APPENDIX K -

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

DATE: 10/14/93
PAGE: 1

Chain of Custody Data Required for ETC Data Management Summary Report

See Below				See Below	
ETC Sample No.	*Company*	*Facility*		*Sample Point*	*Date*
	WASTE MANAGEMENT, INC.	705			

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		S B315F2 890919 HA1172	S B315F1 890919 HA1173	S G307F1 890920 HA1144	S B306F2 890920 HA1158	S B306F1 890920 HA1159	S G307F2 890920 HA1164	S G307F2DUP 890920 HA1178	S P323F1 890920 HA1179
Priority Poll. Volatiles GC/MS									
Acrolein	ug/kg	-	-	-	-	-	-	-	-
Acrylonitrile	ug/kg	-	-	-	-	-	-	-	-
Benzene	ug/kg	< 10.0	< 5	1.9	120	320	< 4.40	< 4.40	4.3
bis(Chloromethyl)ether	ug/kg	-	-	-	-	-	-	-	-
Bromoform	ug/kg	< 10	< 5	< 5	< 200	< 500	< 4.70	< 5	< 5
Carbon tetrachloride	ug/kg	< 10	< 5	< 3	< 100	< 300	< 2.80	< 3	< 3
Chlorobenzene	ug/kg	< 10	< 5	< 6	< 300	< 600	< 6.00	< 6	< 6
Chlorodibromomethane	ug/kg	< 10	< 5	< 3	< 200	< 300	< 3.10	< 3	< 3
Chloroethane	ug/kg	< 20	< 10	< 10	< 500	< 1000	< 10.0	< 10	< 10
2-Chloroethylvinyl ether	ug/kg	-	-	-	-	-	-	-	-
Chloroform	ug/kg	< 10	< 5	1.5	47	140	< 1.60	< 2	1.1
Dichlorobromomethane	ug/kg	< 10	< 5	< 2	< 100	< 200	< 2.20	< 2	< 2
Dichlorodifluoromethane	ug/kg	< 20	< 10	< 10	< 500	< 1000	< 10.0	< 10	< 10
1,1-Dichloroethane	ug/kg	< 10	< 5	< 4.70	< 200	< 500	< 4.70	< 5	< 5
1,2-Dichloroethane	ug/kg	< 10	< 5	< 3	< 100	< 300	< 2.80	< 3	< 3
1,1-Dichloroethylene	ug/kg	8.8	7.25	5.49	7820	22500	< 2.80	< 3	9.64
1,2-Dichloropropane	ug/kg	< 10	< 5	< 6	< 300	< 600	< 6.00	< 6	< 6
cis-1,3-Dichloropropylene	ug/kg	< 10	< 5	< 5	< 300	< 500	< 5.00	< 5	< 5
Ethylbenzene	ug/kg	< 10	< 5	< 7	< 400	< 700	< 7.20	< 7	< 7
Methyl bromide	ug/kg	< 20	< 10	< 10	< 500	< 1000	< 10.0	< 10	< 10
Methyl chloride	ug/kg	< 20	< 10	< 10	< 500	< 1000	< 10.0	< 10	< 10
Methylene chloride	ug/kg	205	98.1	167	2850	44500	126	97.5	240
1,1,2,2-Tetrachloroethane	ug/kg	< 10	< 5	< 6.90	< 300	< 700	< 6.90	< 7	< 7
Tetrachloroethylene	ug/kg	< 10	< 5	< 4	< 205	< 400	< 4.10	< 4	< 4
Toluene	ug/kg	< 10	< 5	5.3	140	250	.92	1.8	6.90
1,2-Trans-dichloroethylene	ug/kg	< 10	< 5	< 2	54	238	< 1.60	< 2	< 2
1,1,1-Trichloroethane	ug/kg	< 10	< 5	< 4	49	< 400	< 3.80	< 4	< 4
1,1,2-Trichloroethane	ug/kg	< 10.0	< 5	17.2	110	180	6.68	10.3	9.44
Trichloroethylene	ug/kg	< 10	< 5	< 2	90	305	< 1.90	< 2	< 2
Trichlorofluoromethane	ug/kg	< 20	< 10	< 10.0	< 500	< 1000	1.3	1.5	2.5
Vinyl chloride	ug/kg	< 20	< 10	< 10	< 500	< 1000	< 10.0	< 10	15.2
trans-1,3-Dichloropropylene	ug/kg	< 10	< 5	< 10	< 500	< 1000	< 10.0	< 10	< 10

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below ETC Sample No.	Company	Facility	See Below Sample Point	Date
	WASTE MANAGEMENT, INC.	705		

Parameters	Units	Sample Points, Sampling Dates, and ETC Sample No.'s							
		S B315F2 890919 HA1172	S B315F1 890919 HA1173	S G307F1 890920 HA1144	S B306F2 890920 HA1158	S B306F1 890920 HA1159	S G307F2 890920 HA1164	S G307F2DUP 890920 HA1178	S P323F1 890920 HA1179
Priority Poll. Acids GC/MS									
2-Chlorophenol	ug/kg	< 800	< 1000	< 800	< 1000	< 821	< 700	< 800	< 800
2,4-Dichlorophenol	ug/kg	< 600	380	< 600	910	9790	< 600	< 600	< 600
2,4-Dimethylphenol	ug/kg	< 600	< 800	< 600	< 1000	< 700	< 600	< 600	< 600
4,6-Dinitro-o-cresol	ug/kg	< 6000	< 7000	< 6000	< 9000	< 6000	< 5000	< 5000	< 6000
2,4-Dinitrophenol	ug/kg	<10000	<10000	<10000	<20000	<10000	< 9000	<10000	<10000
2-Nitrophenol	ug/kg	< 800	< 1000	< 900	< 1000	< 900	< 700	< 800	< 900
4-Nitrophenol	ug/kg	< 600	< 700	< 600	< 900	< 597	< 500	< 500	< 569
p-Chloro-m-cresol	ug/kg	< 700	< 900	< 700	< 1000	< 700	< 600	< 700	< 700
Pentachlorophenol	ug/kg	< 800	< 1000	< 900	< 1000	< 900	< 700	< 800	< 900
Phenol	ug/kg	< 300	< 400	< 400	< 600	6050	< 300	< 300	< 400
2,4,6-Trichlorophenol	ug/kg	< 600	< 800	< 600	< 1000	< 700	< 600	< 600	< 600
Priority Poll. B/Ns GC/MS									
Acenaphthene	ug/kg	< 400	< 600	< 500	< 700	< 473	< 400	< 433	4330
Acenaphthylene	ug/kg	< 800	< 1000	< 800	< 1000	< 900	< 700	< 800	< 829
Anthracene	ug/kg	< 439	< 551	< 456	< 700	< 500	< 389	< 433	11100
Benzo(a)anthracene	ug/kg	< 2000	< 2000	< 1870	< 3000	< 2000	< 2000	< 1780	20000
Benzo(a)pyrene	ug/kg	< 600	< 700	< 600	< 900	< 600	< 500	< 569	17100
Benzo(b)fluoranthene	ug/kg	< 1000	< 1000	590	< 2000	< 1000	< 1000	560	29100
Benzo(ghi)perylene	ug/kg	< 900	< 1000	< 1000	< 2000	< 1000	< 800	< 900	< 972
Benzo(k)fluoranthene	ug/kg	< 600	< 700	330	< 900	< 600	< 500	< 569	3150
bis(2-Chloroethoxy)methane	ug/kg	< 1000	< 2000	< 1000	< 2000	< 1000	< 1000	< 1000	< 1000
bis(2-Chloroethyl) ether	ug/kg	< 1000	< 2000	< 1000	< 2000	< 1000	< 1000	< 1000	< 1000
bis(2-Chloroisopropyl)ether	ug/kg	< 1000	< 2000	< 1000	< 2000	< 1000	< 1000	< 1000	< 1000
bis(2-Ethylhexyl)phthalate	ug/kg	700	350	3600	670	460	380	590	6690
4-Bromophenyl phenyl ether	ug/kg	< 400	< 600	< 500	< 700	< 500	< 400	< 400	< 500
Butyl benzyl phthalate	ug/kg	< 2000	< 3000	< 2000	< 4000	< 2000	< 2000	< 2000	< 2000
2-Chloronaphthalene	ug/kg	< 400	< 600	< 500	< 700	< 500	< 400	< 400	< 500
4-Chlorophenyl phenyl ether	ug/kg	< 1000	< 1000	< 1000	< 2000	< 1000	< 900	< 1000	< 1000
Chrysene	ug/kg	< 600	< 700	410	< 900	< 600	< 500	< 569	19200
Dibenzo(a,h)anthracene	ug/kg	< 2000	< 3000	< 2000	< 4000	< 2000	< 2000	< 2000	< 2370
1,2-Dichlorobenzene	ug/kg	< 400	< 600	< 500	< 700	< 500	< 400	< 400	< 500
1,3-Dichlorobenzene	ug/kg	< 400	< 600	< 500	< 700	< 500	< 400	< 400	< 500

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below				See Below	
ETC Sample No.	*Company*		*Facility*	*Sample Point*	*Date*
	WASTE MANAGEMENT, INC.		705		

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		S B315F2 890919 HA1172	S B315F1 890919 HA1173	S G307F1 890920 HA1144	S B306F2 890920 HA1158	S B306F1 890920 HA1159	S G307F2 890920 HA1164	S G307F2DUP 890920 HA1178	S P323F1 890920 HA1179
1,4-Dichlorobenzene	ug/kg	< 1000	< 1000	< 1000	< 2000	< 1000	< 900	< 1000	< 1000
3,3'-Dichlorobenzidine	ug/kg	< 4000	< 5000	< 4000	< 6000	< 4000	< 3000	< 4000	< 4000
Diethyl phthalate	ug/kg	< 2310	< 2900	< 2400	< 4000	< 2490	< 2050	< 2280	< 2370
Dimethyl phthalate	ug/kg	< 2000	< 3000	< 2000	< 4000	< 2000	< 2000	< 2000	< 2000
Di-n-butyl phthalate	ug/kg	1300	1400	3510	4640	4680	4830	3900	4530
2,4-Dinitrotoluene	ug/kg	< 1000	< 2000	< 1000	< 2000	< 1000	< 1000	< 1000	< 1000
2,6-Dinitrotoluene	ug/kg	< 400	< 600	< 500	< 700	< 500	< 400	< 400	< 500
Di-n-octyl phthalate	ug/kg	4290	< 3000	510	940	< 2000	< 2000	1100	310
Fluoranthene	ug/kg	< 500	< 600	830	< 800	< 500	< 451	888	42300
Fluorene	ug/kg	< 439	< 551	< 456	< 712	< 473	< 389	< 433	5880
Hexachlorobenzene	ug/kg	< 400	< 600	< 500	< 700	< 500	< 400	< 400	< 500
Hexachlorobutadiene	ug/kg	< 200	< 300	< 200	< 300	< 200	< 200	< 200	< 200
Hexachlorocyclopentadiene	ug/kg	< 2000	< 3000	< 2000	< 4000	< 2000	< 2000	< 2000	< 2000
Hexachloroethane	ug/kg	< 400	< 500	< 400	< 600	< 400	< 300	< 400	< 400
Indeno(1,2,3-c,d)pyrene	ug/kg	< 1000	< 1000	< 1000	< 2000	< 1000	< 1000	< 1000	< 1110
Isophorone	ug/kg	< 500	< 600	< 500	< 800	< 500	< 500	< 500	< 500
Naphthalene	ug/kg	< 370	< 464	< 400	< 600	160	< 300	< 364	3500
Nitrobenzene	ug/kg	< 400	< 600	< 500	< 700	< 500	< 400	< 400	< 500
N-Nitrosodimethylamine	ug/kg	< 2310	< 2900	< 2400	< 3750	< 2490	< 2050	< 2280	< 2370
N-Nitrosodi-n-propylamine	ug/kg	< 2310	< 2900	< 2400	< 3750	< 2490	< 2050	< 2280	< 2370
N-Nitrosodiphenylamine	ug/kg	< 400	< 600	< 500	< 700	< 500	< 400	< 400	< 500
Phenanthrene	ug/kg	< 1250	< 1570	< 1290	< 2000	< 1000	< 1110	680	38500
Pyrene	ug/kg	< 400	< 600	837	< 700	< 500	< 389	856	31400
1,2,4-Trichlorobenzene	ug/kg	< 400	< 600	< 500	< 700	< 500	< 400	< 400	< 500
Priority Poll. Pest/PCBs GC/MS									
Aldrin	ug/kg	< 5	< 7000	< 10	< 200	< 5	< 100	< 100	< 100
Alpha-BHC	ug/kg	< 5	< 7000	< 10	< 200	< 5	< 100	< 100	< 100
Beta-BHC	ug/kg	< 5	< 7000	< 10	< 200	< 5	< 100	< 100	< 100
Gamma-BHC	ug/kg	< 5	< 7000	< 10	< 200	< 5	< 100	< 100	< 100
Delta-BHC	ug/kg	< 5	< 7000	< 10	< 200	< 5	< 100	< 100	< 100
Chlordane	ug/kg	< 100	< 100000	< 200	< 4000	< 100	< 2000	< 2000	< 2000
4,4'-DDT	ug/kg	< 10	<10000	< 20	< 400	< 10	< 200	< 200	< 200
4,4'-DDE	ug/kg	< 10	<10000	< 20	< 400	< 10	< 200	< 200	< 200
4,4'-DDD	ug/kg	< 10	<10000	< 20	< 400	< 10	< 200	< 200	< 200
Dieldrin	ug/kg	< 10	<10000	< 20	< 400	< 10	< 200	< 200	< 200

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected "-"=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below — *ETC Sample No.* | WASTE MANAGEMENT, INC. — *Company* | 705 — *Facility* | See Below — *Sample Point* | *Date*

Parameters	Units	S B315F2 890919 HA1172	S B315F1 890919 HA1173	S G307F1 890920 HA1144	S B306F2 890920 HA1158	S B306F1 890920 HA1159	S G307F2 890920 HA1164	S G307F2DUP 890920 HA1178	S P323F1 890920 HA1179
Endosulfan I	ug/kg	< 5	< 7000	< 10	< 200	< 5	< 100	< 100	< 100
Endosulfan II	ug/kg	< 10	<10000	< 20	< 400	< 10	< 200	< 200	< 200
Endosulfan sulfate	ug/kg	< 10	<10000	< 20	< 400	< 10	< 200	< 200	< 200
Endrin	ug/kg	< 10	<10000	< 20	< 400	< 10	< 200	< 200	< 200
Endrin aldehyde	ug/kg	< 10	<10000	< 20	< 400	< 10	< 200	< 200	< 200
Heptachlor	ug/kg	< 5	< 7000	< 10	< 200	< 5	< 100	< 100	< 100
Heptachlor epoxide	ug/kg	< 5	< 7000	< 10	< 200	< 5	< 100	< 100	< 100
Toxaphene	ug/kg	< 200	< 300000	< 500	< 7000	< 200	< 4000	< 5000	< 5000
Groundwater Conventionals									
Phenolics, Total	mg/kg	< 3.8	< 3.9	< 3.4	< 3.6	6.3	< 3.4	< 3.4	< 4.0
Cyanide, Total	mg/kg	< .62	< .67	< .60	< .63	< .69	< .61	< .62	1.62
Metals Analysis Data									
Antimony	ug/kg	5900	8500	9300	13000	4200	6500	7400	< 8400
Arsenic	ug/kg	18000	67000	5900	7900	68000	6500	6200	22000
Beryllium	ug/kg	1000	1800	160	440	2100	180	110	2300
Cadmium	ug/kg	890	2100	330	< 250	1300	< 260	< 270	4300
Chromium	ug/kg	25000	43000	9500	16000	41000	8300	4800	46000
Copper	ug/kg	16000	28000	9800	16000	22000	11000	9000	21000
Lead	ug/kg	30000	33000	29000	8000	22000	11000	10000	46000
Mercury	ug/kg	< 110	< 110	78	41	54	52	42	130
Nickel	ug/kg	16000	20000	6700	24000	19000	12000	8800	17000
Selenium	ug/kg	1100	4200	340	200	4400	< 650	< 660	6900
Silver	ug/kg	270	350	< 1200	390	< 1400	< 1300	< 1300	320
Thallium	ug/kg	1100	3800	< 1200	690	3500	< 1300	< 1300	2600
Zinc	ug/kg	130000	210000	52000	49000	150000	39000	32000	260000
Field Parameters									
Sample Depth	Feet	12	8	8	12	8	12	12	6
Dry Well	CODE	-	-	-	-	-	-	-	-

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		S B315F2 890919 HA1172	S B315F1 890919 HA1173	S G307F1 890920 HA1144	S B306F2 890920 HA1158	S B306F1 890920 HA1159	S G307F2 890920 HA1164	S G307F2DUP 890920 HA1178	S P323F1 890920 HA1179
Aroclors by GC									
Aroclor 1242	ug/kg	< 50	<70000	< 100	< 2000	< 50	< 1000	< 1000	< 1000
Aroclor 1254	ug/kg	< 100	< 100000	< 200	< 4000	< 100	< 2000	< 2000	< 2000
Aroclor 1260	ug/kg	< 100	< 100000	< 200	< 4000	< 100	< 2000	< 2000	< 2000
Aroclor 1248	ug/kg	< 50	<70000	< 100	< 2000	< 50	< 1000	< 1000	< 1000
Aroclor 1232	ug/kg	< 50	<70000	< 100	< 2000	< 50	< 1000	< 1000	< 1000
Aroclor 1221	ug/kg	< 50	<70000	< 100	< 2000	< 50	< 1000	< 1000	< 1000
Aroclor 1016	ug/kg	< 50	<70000	< 100	< 2000	< 50	< 1000	< 1000	< 1000
Miscellaneous Parameters									
1,1,1,2-Tetrachloroethane	ug/l	-	-	-	-	-	-	-	-
1,2,3-Trichloropropane	ug/l	-	-	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane	ug/l	-	-	-	-	-	-	-	-
1,2-Dibromoethane	ug/l	-	-	-	-	-	-	-	-
1,4-Dichloro-2-butene	ug/l	-	-	-	-	-	-	-	-
1,4-Dioxane	ug/l	-	-	-	-	-	-	-	-
2-Chloro-1,3-butadiene	ug/l	-	-	-	-	-	-	-	-
2-Hexanone	ug/l	-	-	-	-	-	-	-	-
Acetone	ug/l	-	-	-	-	-	-	-	-
Acetonitrile	ug/l	-	-	-	-	-	-	-	-
Carbon disulfide	ug/l	-	-	-	-	-	-	-	-
Dibromomethane	ug/l	-	-	-	-	-	-	-	-
Ending Sample Depth	Feet	14	10	10	14	10	14	14	8
Ethyl cyanide	ug/l	-	-	-	-	-	-	-	-
Ethyl methacrylate	ug/l	-	-	-	-	-	-	-	-
Iodomethane	ug/l	-	-	-	-	-	-	-	-
Isobutyl alcohol	ug/l	-	-	-	-	-	-	-	-
Methacrylonitrile	ug/l	-	-	-	-	-	-	-	-
Methyl ethyl ketone	ug/l	-	-	-	-	-	-	-	-
Methyl methacrylate	ug/l	-	-	-	-	-	-	-	-
Methyl-iso-butyl ketone	ug/l	-	-	-	-	-	-	-	-
Pentachloroethane	ug/l	-	-	-	-	-	-	-	-
Styrene	ug/l	-	-	-	-	-	-	-	-
Vinyl acetate	ug/l	-	-	-	-	-	-	-	-

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected "-"=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below				See Below	
ETC Sample No.	WASTE MANAGEMENT, INC. *Company*	705 *Facility*		*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		S B315F2 890919 HA1172	S B315F1 890919 HA1173	S G307F1 890920 HA1144	S B306F2 890920 HA1158	S B306F1 890920 HA1159	S G307F2 890920 HA1164	S G307F2DUP 890920 HA1178	S P323F1 890920 HA1179
m-Xylene	ug/l	-	-	-	-	-	-	-	-
o+p-Xylenes	ug/l	-	-	-	-	-	-	-	-

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected "-"=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

DATE: 10/14/93
PAGE: 7

Chain of Custody Data Required for ETC Data Management Summary Report

See Below			See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*
	WASTE MANAGEMENT, INC.	705		

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		S B313F1 890921 HA1150	S B313F2 890921 HA1151	S G314F1 890921 HA1152	S G314F2 890921 HA1153	S P323F2DUP 890921 HA1154	S P323F2 890920 HA1155	S G305F1 890922 HA1156	S G305F2 890922 HA1157
Priority Poll. Volatiles GC/MS									
Acrolein	ug/kg	-	-	-	-	-	-	-	-
Acrylonitrile	ug/kg	-	-	-	-	-	-	-	-
Benzene	ug/kg	16.0	6.00	16.0	81.5	2.7	2.2	46	< 22.0
bis(Chloromethyl)ether	ug/kg	-	-	-	-	-	-	-	-
Bromoform	ug/kg	< 5	< 5	< 5	< 50	< 9	< 9	< 200	< 20
Carbon tetrachloride	ug/kg	< 3	< 3	< 3	< 30	< 6	< 6	< 100	< 10
Chlorobenzene	ug/kg	79.5	< 6.00	< 6	< 60.0	< 10	< 10	< 300	< 30
Chlorodibromomethane	ug/kg	< 3	< 3	< 3	< 30	< 6	< 6	< 200	< 20
Chloroethane	ug/kg	< 10	< 10	< 10.0	< 100	< 20	< 20	< 500	< 50
2-Chloroethylvinyl ether	ug/kg	-	-	-	-	-	-	-	-
Chloroform	ug/kg	1.3	< 2	.74	< 20	< 3.20	2.0	< 80	< 8
Dichlorobromomethane	ug/kg	< 2	< 2	< 2	< 20	< 4	< 4	< 100	< 10
Dichlorodifluoromethane	ug/kg	< 10	< 10	< 10	< 100	< 20	< 20	< 500	< 50
1,1-Dichloroethane	ug/kg	1.0	2.9	< 4.70	< 50	< 9	< 9	< 200	< 20
1,2-Dichloroethane	ug/kg	< 3	< 3	5.76	< 30	< 6	< 6	< 100	< 10
1,1-Dichloroethylene	ug/kg	25.1	144	4.10	280	< 5.60	7.62	< 100	15.3
1,2-Dichloropropane	ug/kg	< 6	< 6	< 6	< 60	< 10	< 10	< 300	< 30
cis-1,3-Dichloropropylene	ug/kg	< 5	< 5	< 5	< 50	< 10	< 10	< 300	< 30
Ethylbenzene	ug/kg	15.8	< 7	3.0	< 70	< 10	< 10	70	< 40
Methyl bromide	ug/kg	< 10	< 10	< 10	< 100	< 20	< 20	< 500	< 50
Methyl chloride	ug/kg	< 10	< 10	< 10.0	< 100	< 20	< 20	< 500	< 50
Methylene chloride	ug/kg	68.8	174	30.8	414	126	215	478	328
1,1,2,2-Tetrachloroethane	ug/kg	< 7	< 6.90	< 6.90	< 70	< 10	< 10	< 300	< 34.5
Tetrachloroethylene	ug/kg	13.5	< 4	< 4	< 40	< 8	< 8	< 205	< 20
Toluene	ug/kg	49.0	3.8	7.40	25	3.3	12.4	399	< 30
1,2-Trans-dichloroethylene	ug/kg	1.4	1.4	1.0	< 20	< 3	< 3	171	< 8
1,1,1-Trichloroethane	ug/kg	< 3.80	< 4	< 3.80	< 40	< 8	< 7.60	< 200	< 19.0
1,1,2-Trichloroethane	ug/kg	23.6	< 5.00	21.4	384	117	16.3	< 250	21
Trichloroethylene	ug/kg	6.34	< 1.90	< 2	< 20	< 4	< 4	< 100	< 10
Trichlorofluoromethane	ug/kg	< 10.0	< 10.0	< 10	< 100	< 20	< 20	< 500	8.8
Vinyl chloride	ug/kg	< 10	66.8	16.2	76	< 20	< 20	< 500	< 50
trans-1,3-Dichloropropylene	ug/kg	< 10	< 10	< 10	< 100	< 20	< 20	< 500	< 50

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		S B313F1 890921 HA1150	S B313F2 890921 HA1151	S G314F1 890921 HA1152	S G314F2 890921 HA1153	S P323F2DUP 890921 HA1154	S P323F2 890920 HA1155	S G305F1 890922 HA1156	S G305F2 890922 HA1157
Priority Poll. Acids GC/MS									
2-Chlorophenol	ug/kg	< 900	< 700	< 497	< 708	< 900	< 800	< 1000	< 800
2,4-Dichlorophenol	ug/kg	1120	490	837	1610	< 800	< 600	< 800	< 700
2,4-Dimethylphenol	ug/kg	< 736	< 600	< 400	< 600	< 800	< 600	< 800	< 700
4,6-Dinitro-o-cresol	ug/kg	< 7000	< 5000	< 4000	< 5000	< 7000	< 6000	< 7000	< 6000
2,4-Dinitrophenol	ug/kg	<10000	< 9000	< 6000	< 9000	<10000	<10000	<10000	<10000
2-Nitrophenol	ug/kg	< 1000	< 700	< 500	< 800	< 1000	< 800	< 1000	< 900
4-Nitrophenol	ug/kg	< 654	< 490	< 361	< 515	< 700	< 600	< 725	< 600
p-Chloro-m-cresol	ug/kg	< 800	< 600	< 452	< 600	< 800	< 700	< 900	< 700
Pentachlorophenol	ug/kg	< 1000	< 700	< 500	< 800	< 1000	< 800	< 1000	< 900
Phenol	ug/kg	< 409	< 300	< 226	< 322	< 400	< 400	< 500	< 400
2,4,6-Trichlorophenol	ug/kg	< 700	< 600	< 400	< 600	< 800	< 600	< 800	< 700
Priority Poll. B/Ns GC/MS									
Acenaphthene	ug/kg	591	< 388	396	400	< 500	< 400	< 574	< 500
Acenaphthylene	ug/kg	< 954	< 700	< 527	< 751	< 1000	< 800	< 1000	< 900
Anthracene	ug/kg	5610	250	755	504	< 500	< 445	310	< 500
Benzo(a)anthracene	ug/kg	2140	500	1790	880	< 2000	< 2000	720	< 2000
Benzo(a)pyrene	ug/kg	2240	390	1650	745	< 700	< 600	670	< 600
Benzo(b)fluoranthene	ug/kg	3720	470	2710	1190	< 1000	< 1000	1100	< 1000
Benzo(ghi)perylene	ug/kg	< 1120	< 800	< 617	< 880	< 1000	< 1000	< 1000	< 1000
Benzo(k)fluoranthene	ug/kg	420	290	310	480	< 700	< 600	< 755	< 600
bis(2-Chloroethoxy)methane	ug/kg	< 1000	< 1000	< 800	< 1000	< 1000	< 1000	< 2000	< 1000
bis(2-Chloroethyl) ether	ug/kg	< 2000	< 1000	< 900	< 1000	< 2000	< 1000	< 2000	< 1000
bis(2-Chloroisopropyl)ether	ug/kg	< 2000	< 1000	< 900	< 1000	< 2000	< 1000	< 2000	< 1000
bis(2-Ethylhexyl)phthalate	ug/kg	26100	1700	2250	380	6220	650	900	1400
4-Bromophenyl phenyl ether	ug/kg	< 500	< 400	< 300	< 400	< 500	< 400	< 600	< 500
Butyl benzyl phthalate	ug/kg	< 3000	< 2000	< 2000	< 2000	< 3000	< 2000	< 3000	< 2000
2-Chloronaphthalene	ug/kg	< 500	< 400	< 300	< 400	< 500	< 400	< 600	< 500
4-Chlorophenyl phenyl ether	ug/kg	< 1000	< 900	< 600	< 900	< 1000	< 1000	< 1000	< 1000
Chrysene	ug/kg	2140	< 510	< 377	< 536	< 700	< 600	770	< 600
Dibenzo(a,h)anthracene	ug/kg	< 2720	< 2000	< 1510	< 2000	< 3000	< 2000	< 3000	< 2000
1,2-Dichlorobenzene	ug/kg	490	< 400	< 300	< 400	< 500	< 400	< 600	< 500
1,3-Dichlorobenzene	ug/kg	< 518	< 400	< 300	< 400	< 500	< 400	< 600	< 500

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		S B313F1 890921 HA1150	S B313F2 890921 HA1151	S G314F1 890921 HA1152	S G314F2 890921 HA1153	S P323F2DUP 890921 HA1154	S P323F2 890920 HA1155	S G305F1 890922 HA1156	S G305F2 890922 HA1157
1,4-Dichlorobenzene	ug/kg	< 1200	< 900	< 700	< 900	< 1000	< 1000	< 1000	< 1000
3,3'-Dichlorobenzidine	ug/kg	< 4000	< 3000	< 2000	< 4000	< 5000	< 4000	< 5000	< 4000
Diethyl phthalate	ug/kg	< 2720	< 2040	< 1510	< 2000	< 2820	< 2340	< 3020	< 2490
Dimethyl phthalate	ug/kg	< 2720	< 2000	< 2000	< 2000	< 3000	< 2000	< 3000	< 2000
Di-n-butyl phthalate	ug/kg	1200	590	880	720	2300	8870	< 3020	3150
2,4-Dinitrotoluene	ug/kg	< 1550	< 1160	< 900	< 1000	< 2000	< 1000	< 2000	< 1000
2,6-Dinitrotoluene	ug/kg	< 500	< 400	< 300	< 400	< 500	< 400	< 600	< 500
Di-n-octyl phthalate	ug/kg	< 3000	840	3110	620	780	< 2340	< 3000	< 2000
Fluoranthene	ug/kg	4240	937	3610	1800	< 600	< 515	1530	< 500
Fluorene	ug/kg	907	250	428	438	< 537	< 445	< 574	< 474
Hexachlorobenzene	ug/kg	< 500	< 400	< 300	< 400	< 500	< 400	< 600	< 500
Hexachlorobutadiene	ug/kg	< 200	< 200	< 100	< 200	< 300	< 200	< 300	< 200
Hexachlorocyclopentadiene	ug/kg	< 3000	< 2000	< 2000	< 2000	< 3000	< 2000	< 3000	< 2000
Hexachloroethane	ug/kg	< 400	< 300	< 200	< 300	< 500	< 400	< 500	< 400
Indeno(1,2,3-c,d)pyrene	ug/kg	< 1280	< 1000	< 708	< 1010	< 1000	< 1000	< 1000	< 1000
Isophorone	ug/kg	< 600	< 400	< 331	< 500	< 600	< 500	< 700	< 500
Naphthalene	ug/kg	1830	< 327	503	< 343	< 500	< 400	< 483	< 400
Nitrobenzene	ug/kg	< 500	< 400	< 286	< 400	< 500	< 400	< 600	< 500
N-Nitrosodimethylamine	ug/kg	< 2720	< 2040	< 1510	< 2150	< 2820	< 2340	< 3020	< 2490
N-Nitrosodi-n-propylamine	ug/kg	< 2720	< 2040	< 1510	< 2150	< 2820	< 2340	< 3020	< 2490
N-Nitrosodiphenylamine	ug/kg	< 500	< 400	< 286	< 400	< 500	< 400	< 600	< 500
Phenanthrene	ug/kg	5210	1190	3070	2170	< 2000	< 1260	1600	< 1000
Pyrene	ug/kg	3710	886	3020	1610	< 500	< 445	1210	< 500
1,2,4-Trichlorobenzene	ug/kg	< 500	< 400	< 300	< 400	< 500	< 400	< 600	< 500
Priority Poll. Pest/PCBs GC/MS									
Aldrin	ug/kg	< 100	< 5	< 400	< 100	< 100	< 6000	< 60	< 6
Alpha-BHC	ug/kg	< 100	< 5	< 400	< 100	< 100	< 6000	< 60	< 6
Beta-BHC	ug/kg	< 100	< 5	< 400	< 100	< 100	< 6000	< 60	< 6
Gamma-BHC	ug/kg	< 100	< 5	< 400	< 100	< 100	< 6000	< 60	< 6
Delta-BHC	ug/kg	< 100	< 5	< 400	< 100	< 100	< 6000	< 60	< 6
Chlordane	ug/kg	< 3000	< 100	< 8000	< 2000	< 3000	< 100000	< 1000	< 100
4,4'-DDT	ug/kg	< 300	< 10	< 800	< 200	< 300	<10000	< 100	< 10
4,4'-DDE	ug/kg	< 300	< 10	< 800	< 200	< 300	<10000	< 100	< 10
4,4'-DDD	ug/kg	< 300	< 10	< 800	< 200	< 300	<10000	< 100	< 10
Dieldrin	ug/kg	< 300	< 10	< 800	< 200	< 300	<10000	< 100	< 10

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below			See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*
	WASTE MANAGEMENT, INC.	705		

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		S B313F1 890921 HA1150	S B313F2 890921 HA1151	S G314F1 890921 HA1152	S G314F2 890921 HA1153	S P323F2DUP 890921 HA1154	S P323F2 890920 HA1155	S G305F1 890922 HA1156	S G305F2 890922 HA1157
Endosulfan I	ug/kg	< 100	748	< 400	< 100	< 100	< 6000	< 60	< 6
Endosulfan II	ug/kg	< 300	< 10	< 800	< 200	< 300	<10000	< 100	< 10
Endosulfan sulfate	ug/kg	< 300	46.1	< 800	< 200	< 300	<10000	< 100	< 10
Endrin	ug/kg	< 300	< 10	< 800	< 200	< 300	<10000	< 100	< 10
Endrin aldehyde	ug/kg	< 300	< 10	< 800	< 200	< 300	<10000	< 100	< 10
Heptachlor	ug/kg	< 100	13.8	< 400	< 100	< 100	< 6000	< 60	< 6
Heptachlor epoxide	ug/kg	< 100	< 5	< 400	< 100	< 100	< 6000	< 60	< 6
Toxaphene	ug/kg	< 5000	< 200	<20000	< 4000	< 6000	< 200000	< 2000	< 300
Groundwater Conventionals									
Phenolics, Total	mg/kg	< 3.4	< 3.9	4.6	< 3.2	7.6	< 4.0	< 3.7	< 3.9
Cyanide, Total	mg/kg	10.3	1.25	< .63	< .69	< .68	< .69	< .61	< .62
Metals Analysis Data									
Antimony	ug/kg	9300	8200	17000	8000	6200	9300	< 7400	< 7600
Arsenic	ug/kg	6300	9200	8600	17000	6900	6500	7800	3500
Beryllium	ug/kg	770	630	580	170	80	160	300	450
Cadmium	ug/kg	< 230	< 250	< 250	170	< 270	< 270	< 250	< 250
Chromium	ug/kg	13000	19000	79000	11000	4200	5500	9400	16000
Copper	ug/kg	32000	20000	44000	14000	6100	8400	26000	17000
Lead	ug/kg	95000	25000	73000	36000	4200	6000	31000	12000
Mercury	ug/kg	160	51	40	93	43	< 110	84	< 80
Nickel	ug/kg	20000	25000	37000	17000	7700	9600	18000	26000
Selenium	ug/kg	1100	< 640	300	280	170	210	340	< 630
Silver	ug/kg	< 1200	260	280	< 1300	410	< 1400	< 1200	< 1300
Thallium	ug/kg	330	< 1300	990	980	490	< 1400	520	< 1300
Zinc	ug/kg	140000	58000	190000	130000	32000	40000	59000	48000
Field Parameters									
Sample Depth	Feet	10	14	8	12	12	12	8	14
Dry Well	CODE	-	-	-	-	-	-	-	-

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		S B313F1 890921 HA1150	S B313F2 890921 HA1151	S G314F1 890921 HA1152	S G314F2 890921 HA1153	S P323F2DUP 890921 HA1154	S P323F2 890920 HA1155	S G305F1 890922 HA1156	S G305F2 890922 HA1157
Aroclors by GC									
Aroclor 1242	ug/kg	< 1000	< 50	< 4000	< 1000	< 1000	<60000	< 600	< 60
Aroclor 1254	ug/kg	< 3000	< 100	< 8000	< 2000	< 3000	< 100000	< 1000	< 100
Aroclor 1260	ug/kg	< 3000	< 100	< 8000	< 2000	< 3000	< 100000	< 1000	< 100
Aroclor 1248	ug/kg	< 1000	< 50	< 4000	< 1000	< 1000	<60000	< 600	< 60
Aroclor 1232	ug/kg	< 1000	< 50	< 4000	< 1000	< 1000	<60000	< 600	< 60
Aroclor 1221	ug/kg	< 1000	< 50	< 4000	< 1000	< 1000	<60000	< 600	< 60
Aroclor 1016	ug/kg	< 1000	< 50	< 4000	< 1000	< 1000	<60000	< 600	< 60
Miscellaneous Parameters									
1,1,1,2-Tetrachloroethane	ug/l	-	-	-	-	-	-	-	-
1,2,3-Trichloropropane	ug/l	-	-	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane	ug/l	-	-	-	-	-	-	-	-
1,2-Dibromoethane	ug/l	-	-	-	-	-	-	-	-
1,4-Dichloro-2-butene	ug/l	-	-	-	-	-	-	-	-
1,4-Dioxane	ug/l	-	-	-	-	-	-	-	-
2-Chloro-1,3-butadiene	ug/l	-	-	-	-	-	-	-	-
2-Hexanone	ug/l	-	-	-	-	-	-	-	-
Acetone	ug/l	-	-	-	-	-	-	-	-
Acetonitrile	ug/l	-	-	-	-	-	-	-	-
Carbon disulfide	ug/l	-	-	-	-	-	-	-	-
Dibromomethane	ug/l	-	-	-	-	-	-	-	-
Ending Sample Depth	Feet	12	16	10	14	14	14	10	16
Ethyl cyanide	ug/l	-	-	-	-	-	-	-	-
Ethyl methacrylate	ug/l	-	-	-	-	-	-	-	-
Iodomethane	ug/l	-	-	-	-	-	-	-	-
Isobutyl alcohol	ug/l	-	-	-	-	-	-	-	-
Methacrylonitrile	ug/l	-	-	-	-	-	-	-	-
Methyl ethyl ketone	ug/l	-	-	-	-	-	-	-	-
Methyl methacrylate	ug/l	-	-	-	-	-	-	-	-
Methyl-iso-butyl ketone	ug/l	-	-	-	-	-	-	-	-
Pentachloroethane	ug/l	-	-	-	-	-	-	-	-
Styrene	ug/l	-	-	-	-	-	-	-	-
Vinyl acetate	ug/l	-	-	-	-	-	-	-	-

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		S B313F1 890921 HA1150	S B313F2 890921 HA1151	S G314F1 890921 HA1152	S G314F2 890921 HA1153	S P323F2DUP 890921 HA1154	S P323F2 890920 HA1155	S G305F1 890922 HA1156	S G305F2 890922 HA1157
m-Xylene	ug/l	-	-	-	-	-	-	-	-
o+p-Xylenes	ug/l	-	-	-	-	-	-	-	-

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		S G332F1 890921 HA1160	S G332F2 890922 HA1161	S B331F1 890922 HA1168	S B331F2 890922 HA1169	S P322F1 890922 HA1170	S P322F2 890922 HA1171	S P329F1 890925 HA1145	S B312F2 890925 HA1148
Priority Poll. Volatiles GC/MS									
Acrolein	ug/kg	-	-	-	-	-	-	-	-
Acrylonitrile	ug/kg	-	-	-	-	-	-	-	-
Benzene	ug/kg	3.7	746	< 2200	3800	8330	8750	7.9	1.9
bis(Chloromethyl)ether	ug/kg	-	-	-	-	-	-	-	-
Bromoform	ug/kg	< 5	< 200	< 2000	< 5000	< 500	< 2000	< 20	< 5
Carbon tetrachloride	ug/kg	< 3	< 100	< 1000	< 3000	< 300	< 1000	< 10	< 3
Chlorobenzene	ug/kg	< 6	336	< 3000	< 6000	380	< 3000	< 30	< 6
Chlorodibromomethane	ug/kg	< 3	< 200	< 2000	< 3000	< 300	< 2000	< 20	< 3
Chloroethane	ug/kg	< 10	< 500	< 5000	<10000	< 1000	< 5000	< 50.0	< 10
2-Chloroethylvinyl ether	ug/kg	-	-	-	-	-	-	-	-
Chloroform	ug/kg	1.1	< 80	< 800	< 2000	1490	< 800	4.5	< 2
Dichlorobromomethane	ug/kg	< 2	< 100	< 1000	< 2000	< 200	< 1000	< 10	< 2
Dichlorodifluoromethane	ug/kg	< 10	< 500	< 5000	<10000	< 1000	< 5000	< 50	< 10
1,1-Dichloroethane	ug/kg	< 5	< 200	< 2000	< 5000	< 500	< 2000	< 23.5	< 5
1,2-Dichloroethane	ug/kg	< 3	< 100	< 1000	< 3000	< 300	< 1000	< 10	< 3
1,1-Dichloroethylene	ug/kg	7.83	1060	6650	28700	3310	7750	12	5.11
1,2-Dichloropropane	ug/kg	< 6	< 300	< 3000	< 6000	< 600	< 3000	< 30	< 6
cis-1,3-Dichloropropylene	ug/kg	< 5	< 300	< 3000	< 5000	< 500	< 3000	< 30	< 5
Ethylbenzene	ug/kg	< 7	130	< 4000	< 7000	670	< 4000	< 40	< 7
Methyl bromide	ug/kg	< 10	< 500	< 5000	<10000	< 1000	< 5000	< 50	< 10
Methyl chloride	ug/kg	< 10	< 500	< 5000	<10000	< 1000	< 5000	< 50.0	< 10
Methylene chloride	ug/kg	297	1920	22300	21000	146000	450000	290	220
1,1,2,2-Tetrachloroethane	ug/kg	< 7	< 300	< 3000	< 7000	< 690	< 3000	< 34.5	< 6.90
Tetrachloroethylene	ug/kg	< 4	< 200	< 2000	< 4000	390	< 2000	< 20	< 4
Toluene	ug/kg	2.5	1590	1000	2300	3730	1300	4.3	< 6.00
1,2-Trans-dichloroethylene	ug/kg	< 2	< 80	< 800	< 2000	276	< 800	< 8	< 2
1,1,1-Trichloroethane	ug/kg	< 3.80	< 200	< 2000	< 4000	< 400	< 2000	< 19.0	2.1
1,1,2-Trichloroethane	ug/kg	38.6	< 250	22300	12000	592000	927000	207	10.2
Trichloroethylene	ug/kg	< 2	< 95.0	< 1000	< 2000	293	< 1000	< 10	< 1.90
Trichlorofluoromethane	ug/kg	5.7	< 500	< 5000	<10000	< 1000	< 5000	< 50	5.4
Vinyl chloride	ug/kg	8.0	< 500	< 5000	15000	< 1000	3300	< 50	12.5
trans-1,3-Dichloropropylene	ug/kg	< 10	< 500	< 5000	<10000	< 1000	< 5000	< 50	< 10

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

DATE: 10/14/93
PAGE: 14

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		S G332F1 890921 HA1160	S G332F2 890922 HA1161	S B331F1 890922 HA1168	S B331F2 890922 HA1169	S P322F1 890922 HA1170	S P322F2 890922 HA1171	S P329F1 890925 HA1145	S B312F2 890925 HA1148
Priority Poll. Acids GC/MS									
2-Chlorophenol	ug/kg	< 801	< 800	< 8000	<10000	< 900	< 1000	< 900	< 1000
2,4-Dichlorophenol	ug/kg	2690	370	< 7000	< 9000	5640	1040	< 800	< 800
2,4-Dimethylphenol	ug/kg	< 655	< 635	< 7000	< 9000	< 700	< 800	< 800	< 800
4,6-Dinitro-o-cresol	ug/kg	< 6000	< 6000	<60000	<80000	< 6000	< 7000	< 7000	< 7000
2,4-Dinitrophenol	ug/kg	<10000	<10000	< 100000	< 100000	<10900	<12600	<10000	<10000
2-Nitrophenol	ug/kg	< 900	< 800	< 9000	<10000	< 900	< 1000	< 1000	< 1000
4-Nitrophenol	ug/kg	< 583	< 565	< 6150	< 8390	< 625	< 719	< 688	< 704
p-Chloro-m-cresol	ug/kg	< 700	< 700	< 8000	<10000	< 800	< 900	< 900	< 900
Pentachlorophenol	ug/kg	< 900	< 800	< 9000	<10000	< 900	< 1000	< 1000	< 1000
Phenol	ug/kg	26700	< 353	56500	18600	28800	16800	< 400	< 400
2,4,6-Trichlorophenol	ug/kg	< 700	< 600	< 7000	< 9000	< 703	< 800	< 800	< 800
Priority Poll. B/Ns GC/MS									
Acenaphthene	ug/kg	1160	< 447	< 4870	19900	2160	1240	1120	< 557
Acenaphthylene	ug/kg	600	< 824	< 9000	<10000	5390	< 1000	< 1000	< 1000
Anthracene	ug/kg	2220	664	7900	55700	4180	2650	1970	< 557
Benzo(a)anthracene	ug/kg	3160	1100	15000	101000	2000	3800	4140	500
Benzo(a)pyrene	ug/kg	2830	1070	12800	83000	1070	2690	1280	450
Benzo(b)fluoranthene	ug/kg	2840	1670	22100	80400	950	3220	6650	800
Benzo(ghi)perylene	ug/kg	1660	630	8700	51100	< 1000	1900	610	< 1000
Benzo(k)fluoranthene	ug/kg	530	< 588	< 6410	14800	< 651	490	3600	< 733
bis(2-Chloroethoxy)methane	ug/kg	< 1000	< 1000	<10000	<20000	< 1000	< 2000	< 2000	< 2000
bis(2-Chloroethyl) ether	ug/kg	< 1000	< 1000	<10000	<20000	< 1000	< 2000	< 2000	< 2000
bis(2-Chloroisopropyl)ether	ug/kg	< 1000	< 1000	<10000	<20000	< 1480	< 2000	< 2000	< 2000
bis(2-Ethylhexyl)phthalate	ug/kg	1700	720	<30000	<30000	770	1200	910	370
4-Bromophenyl phenyl ether	ug/kg	< 500	< 400	< 5000	< 7000	< 500	< 600	< 500	< 600
Butyl benzyl phthalate	ug/kg	< 2000	< 2000	<30000	<30000	< 3000	< 3000	< 3000	< 3000
2-Chloronaphthalene	ug/kg	< 461	< 400	< 5000	< 7000	< 495	< 600	< 500	< 600
4-Chlorophenyl phenyl ether	ug/kg	< 1000	< 1000	<10000	<10000	< 1000	< 1000	< 1000	< 1000
Chrysene	ug/kg	3000	1120	14400	93800	1910	3420	4130	480
Dibenzo(a,h)anthracene	ug/kg	< 2430	< 2000	<30000	9500	< 3000	< 2990	770	< 3000
1,2-Dichlorobenzene	ug/kg	< 500	< 400	< 5000	< 7000	< 500	< 600	< 500	< 600
1,3-Dichlorobenzene	ug/kg	< 500	< 400	< 5000	< 7000	< 500	< 600	< 500	< 600

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below				See Below	
ETC Sample No.	WASTE MANAGEMENT, INC.	*Company*	705 *Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		S G332F1 890921 HA1160	S G332F2 890922 HA1161	S B331F1 890922 HA1168	S B331F2 890922 HA1169	S P322F1 890922 HA1170	S P322F2 890922 HA1171	S P329F1 890925 HA1145	S B312F2 890925 HA1148
1,4-Dichlorobenzene	ug/kg	< 1000	< 1000	<10000	<20000	< 1000	< 1000	< 1000	< 1000
3,3'-Dichlorobenzidine	ug/kg	< 4000	< 4000	<40000	<60000	< 4000	< 5000	< 5000	< 5000
Diethyl phthalate	ug/kg	< 2430	< 2350	<30000	<30000	3220	630	< 2870	< 2930
Dimethyl phthalate	ug/kg	< 2430	< 2000	<30000	<30000	< 3000	< 3000	< 3000	< 3000
Di-n-butyl phthalate	ug/kg	1000	800	<25600	3800	1900	2300	2200	< 2930
2,4-Dinitrotoluene	ug/kg	< 1000	< 1000	<10000	<20000	< 1480	< 2000	< 2000	< 2000
2,6-Dinitrotoluene	ug/kg	< 500	< 400	< 5000	< 7000	< 500	< 600	< 500	< 600
Di-n-octyl phthalate	ug/kg	< 2000	< 2000	<30000	<30000	< 3000	1000	770	< 3000
Fluoranthene	ug/kg	6830	2700	30600	248000	3780	8190	9300	1210
Fluorene	ug/kg	2250	635	5100	27900	5460	2570	1440	< 557
Hexachlorobenzene	ug/kg	< 500	< 400	< 5000	< 7000	930	< 600	< 500	< 600
Hexachlorobutadiene	ug/kg	< 200	< 200	< 2000	< 3000	< 200	< 300	< 300	< 300
Hexachlorocyclopentadiene	ug/kg	< 2000	< 2000	<30000	<30000	< 3000	< 3000	< 3000	< 3000
Hexachloroethane	ug/kg	< 400	< 400	< 4000	< 6000	< 400	< 500	< 500	< 500
Indeno(1,2,3-c,d)pyrene	ug/kg	710	250	3500	21500	< 1000	770	1300	< 1000
Isophorone	ug/kg	< 500	< 500	< 6000	< 8000	664	< 659	< 630	< 600
Naphthalene	ug/kg	6220	< 376	< 4100	< 5590	25900	7640	3740	< 469
Nitrobenzene	ug/kg	< 461	< 400	< 5000	< 7000	< 495	< 569	< 500	< 600
N-Nitrosodimethylamine	ug/kg	< 2430	< 2350	<25600	<35000	< 2600	< 2990	< 2870	< 2930
N-Nitrosodi-n-propylamine	ug/kg	< 2430	< 2350	<30000	<30000	< 2600	< 2990	< 2870	< 2930
N-Nitrosodiphenylamine	ug/kg	< 500	< 400	< 5000	< 7000	< 500	< 569	< 500	< 600
Phenanthrene	ug/kg	9540	3550	33800	226000	15600	13300	9110	1300
Pyrene	ug/kg	6470	2210	22900	218000	4920	6910	7440	968
1,2,4-Trichlorobenzene	ug/kg	< 461	< 400	< 5000	< 7000	< 500	< 600	< 500	< 600
Priority Poll. Pest/PCBs GC/MS									
Aldrin	ug/kg	< 300	< 60	< 300	< 300	< 300	< 300	< 5	< 6
Alpha-BHC	ug/kg	< 300	< 60	< 300	< 300	< 300	< 300	< 5	< 6
Beta-BHC	ug/kg	< 300	< 60	< 300	< 300	< 300	< 300	< 5	< 6
Gamma-BHC	ug/kg	< 300	< 60	< 300	< 300	< 300	< 300	< 5	< 6
Delta-BHC	ug/kg	< 300	< 60	< 300	< 300	< 300	< 300	< 5	< 6
Chlordane	ug/kg	< 6000	< 1000	< 6000	< 7000	< 6000	< 6000	< 100	< 100
4,4'-DDT	ug/kg	< 600	< 100	< 600	< 700	< 600	< 600	< 10	< 10
4,4'-DDE	ug/kg	< 600	< 100	< 600	< 700	< 600	< 600	< 10	< 10
4,4'-DDD	ug/kg	< 600	< 100	< 600	< 700	< 600	< 600	20.0	< 10
Dieldrin	ug/kg	< 600	< 100	< 600	< 700	< 600	< 600	< 10	< 10

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below — *ETC Sample No.* | WASTE MANAGEMENT, INC. — *Company* | 705 — *Facility* | See Below — *Sample Point* | *Date*

Parameters	Units	Sample Points, Sampling Dates, and ETC Sample No.'s							
		S G332F1 890921 HA1160	S G332F2 890922 HA1161	S B331F1 890922 HA1168	S B331F2 890922 HA1169	S P322F1 890922 HA1170	S P322F2 890922 HA1171	S P329F1 890925 HA1145	S B312F2 890925 HA1148
Endosulfan I	ug/kg	< 300	< 60	< 300	< 300	< 300	< 300	< 5	< 6
Endosulfan II	ug/kg	< 600	< 100	< 600	< 700	< 600	< 600	< 10	< 10
Endosulfan sulfate	ug/kg	< 600	< 100	< 600	< 700	< 600	< 600	< 10	< 10
Endrin	ug/kg	< 600	< 100	< 600	< 700	< 600	< 600	< 10	< 10
Endrin aldehyde	ug/kg	< 600	< 100	< 600	< 700	< 600	< 600	< 10	< 10
Heptachlor	ug/kg	< 300	< 60	< 300	< 300	< 300	< 300	< 5	< 6
Heptachlor epoxide	ug/kg	< 300	< 60	< 300	< 300	< 300	< 300	< 5	< 6
Toxaphene	ug/kg	<10000	< 3000	<10000	<10000	<10000	<10000	< 200	< 200
Groundwater Conventionals									
Phenolics, Total	mg/kg	5.2	< 4.0	11.4	< 3.7	29.0	23.3	< 3.5	< 3.3
Cyanide, Total	mg/kg	< .62	< .71	.652	1.09	1.31	< .66	< .61	< .63
Metals Analysis Data									
Antimony	ug/kg	< 7400	< 8800	< 7300	< 7500	< 7400	< 8100	< 7300	< 7500
Arsenic	ug/kg	5700	4400	6400	530	560000	24000	11000	8000
Beryllium	ug/kg	830	730	410	410	1100	240	340	460
Cadmium	ug/kg	< 250	< 290	4000	170	< 250	< 270	< 240	< 250
Chromium	ug/kg	54000	25000	14000	12000	23000	10000	11000	15000
Copper	ug/kg	56000	22000	33000	46000	48000	13000	42000	26000
Lead	ug/kg	92000	53000	330000	360000	85000	16000	130000	17000
Mercury	ug/kg	< 80	< 80	390	530	6500	110	83	< 100
Nickel	ug/kg	30000	21000	13000	16000	29000	14000	25000	28000
Selenium	ug/kg	580	640	240	350	2800	< 680	270	< 620
Silver	ug/kg	< 1200	340	350	540	250	390	< 1200	290
Thallium	ug/kg	960	680	400	< 1300	1600	500	560	640
Zinc	ug/kg	160000	270000	170000	311000	110000	35000	120000	54000
Field Parameters									
Sample Depth	Feet	8	12	8	12	10	16	8	12
Dry Well	CODE	-	-	-	-	-	-	-	-

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		S G332F1 890921 HA1160	S G332F2 890922 HA1161	S B331F1 890922 HA1168	S B331F2 890922 HA1169	S P322F1 890922 HA1170	S P322F2 890922 HA1171	S P329F1 890925 HA1145	S B312F2 890925 HA1148
Aroclors by GC									
Aroclor 1242	ug/kg	< 3000	< 600	< 3000	< 3000	< 3000	< 3000	< 50	< 60
Aroclor 1254	ug/kg	< 6000	< 1000	< 6000	< 7000	< 6000	< 6000	< 100	< 100
Aroclor 1260	ug/kg	< 6000	< 1000	< 6000	< 7000	< 6000	< 6000	< 100	< 100
Aroclor 1248	ug/kg	< 3000	< 600	< 3000	< 3000	< 3000	< 3000	< 50	< 60
Aroclor 1232	ug/kg	< 3000	< 600	< 3000	< 3000	< 3000	< 3000	< 50	< 60
Aroclor 1221	ug/kg	< 3000	< 600	< 3000	< 3000	< 3000	< 3000	< 50	< 60
Aroclor 1016	ug/kg	< 3000	< 600	< 3000	< 3000	< 3000	< 3000	< 50	< 60
Miscellaneous Parameters									
1,1,1,2-Tetrachloroethane	ug/l	-	-	-	-	-	-	-	-
1,2,3-Trichloropropane	ug/l	-	-	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane	ug/l	-	-	-	-	-	-	-	-
1,2-Dibromoethane	ug/l	-	-	-	-	-	-	-	-
1,4-Dichloro-2-butene	ug/l	-	-	-	-	-	-	-	-
1,4-Dioxane	ug/l	-	-	-	-	-	-	-	-
2-Chloro-1,3-butadiene	ug/l	-	-	-	-	-	-	-	-
2-Hexanone	ug/l	-	-	-	-	-	-	-	-
Acetone	ug/l	-	-	-	-	-	-	-	-
Acetonitrile	ug/l	-	-	-	-	-	-	-	-
Carbon disulfide	ug/l	-	-	-	-	-	-	-	-
Dibromomethane	ug/l	-	-	-	-	-	-	-	-
Ending Sample Depth	Feet	10	14	10	14	12	18	10	14
Ethyl cyanide	ug/l	-	-	-	-	-	-	-	-
Ethyl methacrylate	ug/l	-	-	-	-	-	-	-	-
Iodomethane	ug/l	-	-	-	-	-	-	-	-
Isobutyl alcohol	ug/l	-	-	-	-	-	-	-	-
Methacrylonitrile	ug/l	-	-	-	-	-	-	-	-
Methyl ethyl ketone	ug/l	-	-	-	-	-	-	-	-
Methyl methacrylate	ug/l	-	-	-	-	-	-	-	-
Methyl-iso-butyl ketone	ug/l	-	-	-	-	-	-	-	-
Pentachloroethane	ug/l	-	-	-	-	-	-	-	-
Styrene	ug/l	-	-	-	-	-	-	-	-
Vinyl acetate	ug/l	-	-	-	-	-	-	-	-

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below — *ETC Sample No.* | WASTE MANAGEMENT, INC. — *Company* | 705 — *Facility* | See Below — *Sample Point* | *Date*

Parameters	*Units*	S G332F1 890921 HA1160	S G332F2 890922 HA1161	S B331F1 890922 HA1168	S B331F2 890922 HA1169	S P322F1 890922 HA1170	S P322F2 890922 HA1171	S P329F1 890925 HA1145	S B312F2 890925 HA1148
		Sample Points, Sampling Dates, and ETC Sample No.'s							
m-Xylene	ug/l	-	-	-	-	-	-	-	-
o+p-Xylenes	ug/l	-	-	-	-	-	-	-	-

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Sample Points, Sampling Dates, and ETC Sample No.'s

Parameters	*Units*	S B312F1 890925 HA1149	S B328F2 890925 HA1174	S B328F1 890925 HA1175	S P329F2 890925 HA1180	S P329F2DUP 890925 HA1181	S B320F1 890926 HA1143	S B327F2 890926 HA1146	S B327F1 890926 HA1147
Priority Poll. Volatiles GC/MS									
Acrolein	ug/kg	-	-	-	-	-	-	-	-
Acrylonitrile	ug/kg	-	-	-	-	-	-	-	-
Benzene	ug/kg	2.3	5.04	2.6	2.7	2.2	1.7	< 4	6.37
bis(Chloromethyl)ether	ug/kg	-	-	-	-	-	-	-	-
Bromoform	ug/kg	< 5	< 5	< 5	< 9	< 5	< 5	< 5	< 5
Carbon tetrachloride	ug/kg	< 3	< 3	< 3	< 6	< 3	< 3	< 3	< 3
Chlorobenzene	ug/kg	< 6	< 6	< 6	< 10	< 6	< 6	< 6	< 6
Chlorodibromomethane	ug/kg	< 3	< 3	< 3	< 6	< 3	< 3	< 3	< 3
Chloroethane	ug/kg	< 10	< 10.0	< 10.0	< 20	< 10	< 10	< 10	< 10
2-Chloroethylvinyl ether	ug/kg	-	-	-	-	-	-	-	-
Chloroform	ug/kg	< 2	.93	< 1.60	< 3	< 2	< 1.60	< 2	< 2
Dichlorobromomethane	ug/kg	< 2	< 2	< 2	< 4	< 2	< 2	< 2	< 2
Dichlorodifluoromethane	ug/kg	< 10	< 10	< 10	< 20	< 10	< 10	< 10	< 10
1,1-Dichloroethane	ug/kg	< 5	< 5	< 5	< 9	< 5	< 5	< 5	< 5
1,2-Dichloroethane	ug/kg	< 3	< 3	< 3	< 6	< 3	< 3	< 3	< 3
1,1-Dichloroethylene	ug/kg	3.31	9.12	1.4	5.1	4.43	< 2.80	< 3	< 3
1,2-Dichloropropane	ug/kg	< 6.00	< 6	< 6	< 10	< 6	< 6	< 6	< 6
cis-1,3-Dichloropropylene	ug/kg	< 5	< 5	< 5	< 10	< 5	< 5	< 5	< 5
Ethylbenzene	ug/kg	< 7	2.1	1.4	< 10	< 7	< 7	< 7	< 7
Methyl bromide	ug/kg	< 10	< 10	< 10	< 20	< 10	< 10	< 10	< 10
Methyl chloride	ug/kg	< 10.0	< 10	< 10	< 20	< 10	< 10	< 10	< 10
Methylene chloride	ug/kg	140	275	49.3	149	262	30.5	32.8	62.8
1,1,2,2-Tetrachloroethane	ug/kg	< 7	< 6.90	< 7	< 10	< 7	< 7	< 7	< 7
Tetrachloroethylene	ug/kg	< 4	< 4	< 4	< 8	< 4	< 4	< 4	< 4
Toluene	ug/kg	< 6	4.1	3.0	< 12.0	< 6	< 6.00	3.4	< 6.00
1,2-Trans-dichloroethylene	ug/kg	2.44	3.02	< 2	< 3	< 2	< 2	< 2	< 2
1,1,1-Trichloroethane	ug/kg	3.7	< 3.80	1.2	< 8	< 4	< 4	< 4	< 4
1,1,2-Trichloroethane	ug/kg	14.1	41.9	4.7	35.4	18.7	< 5.00	2.6	10.4
Trichloroethylene	ug/kg	< 2	3.97	3.59	< 4	< 2	< 1.90	< 2	< 2
Trichlorofluoromethane	ug/kg	7.3	2.2	< 10	< 20.0	10.2	< 10.0	2.2	< 10.0
Vinyl chloride	ug/kg	16.2	13.9	< 10.0	< 20	10.0	< 10	< 10	< 10
trans-1,3-Dichloropropylene	ug/kg	< 10	< 10	< 10	< 20	< 10	< 10	< 10	< 10

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below — *ETC Sample No.* | WASTE MANAGEMENT, INC. — *Company* | 705 — *Facility* | See Below — *Sample Point* *Date*

Parameters	Units	Sample Points, Sampling Dates, and ETC Sample No.'s							
		S B312F1 890925 HA1149	S B328F2 890925 HA1174	S B328F1 890925 HA1175	S P329F2 890925 HA1180	S P329F2DUP 890925 HA1181	S B320F1 890926 HA1143	S B327F2 890926 HA1146	S B327F1 890926 HA1147
Priority Poll. Acids GC/MS									
2-Chlorophenol	ug/kg	< 1000	< 700	< 700	< 800	< 1000	< 400	< 400	< 400
2,4-Dichlorophenol	ug/kg	< 800	< 600	< 600	< 700	< 800	< 400	< 300	< 300
2,4-Dimethylphenol	ug/kg	< 808	< 600	< 600	< 700	< 800	< 400	< 300	< 300
4,6-Dinitro-o-cresol	ug/kg	< 7000	< 5000	< 5000	< 6000	< 8000	< 3000	< 3000	< 3000
2,4-Dinitrophenol	ug/kg	<10000	< 9000	< 9000	<10000	<10000	< 6000	< 5000	< 5000
2-Nitrophenol	ug/kg	< 1000	< 800	< 800	< 900	< 1000	< 500	< 400	< 400
4-Nitrophenol	ug/kg	1370	< 512	< 529	< 594	< 750	< 323	< 300	< 283
p-Chloro-m-cresol	ug/kg	< 900	< 600	< 700	< 700	< 900	< 403	< 364	< 354
Pentachlorophenol	ug/kg	< 1000	< 800	< 800	< 900	< 1000	< 500	< 400	< 400
Phenol	ug/kg	< 400	< 300	< 300	< 400	< 500	727	503	767
2,4,6-Trichlorophenol	ug/kg	< 800	< 600	< 600	< 700	< 800	< 400	< 300	< 300
Priority Poll. B/Ns GC/MS									
Acenaphthene	ug/kg	390	260	500	520	570	522	261	670
Acenaphthylene	ug/kg	< 1000	< 700	< 800	< 900	< 1000	< 500	< 400	< 400
Anthracene	ug/kg	605	320	722	854	809	1090	543	636
Benzo(a)anthracene	ug/kg	1200	830	1200	1300	1300	2030	870	1170
Benzo(a)pyrene	ug/kg	1380	925	1030	1140	1010	2270	733	< 300
Benzo(b)fluoranthene	ug/kg	2350	650	1630	2000	1690	1770	928	< 600
Benzo(ghi)perylene	ug/kg	990	< 874	590	< 1010	< 1280	< 600	< 500	< 500
Benzo(k)fluoranthene	ug/kg	< 749	< 533	220	< 619	< 781	1930	507	< 300
bis(2-Chloroethoxy)methane	ug/kg	< 2000	< 1000	< 1000	< 1000	< 2000	< 700	< 600	< 600
bis(2-Chloroethyl) ether	ug/kg	< 2000	< 1000	< 1000	< 1000	< 2000	< 800	< 700	< 700
bis(2-Chloroisopropyl)ether	ug/kg	< 2000	< 1000	< 1000	< 1000	< 2000	< 800	< 700	< 700
bis(2-Ethylhexyl)phthalate	ug/kg	990	870	380	460	820	< 1000	< 1000	< 1000
4-Bromophenyl phenyl ether	ug/kg	< 600	< 400	< 400	< 500	< 600	< 300	< 200	< 200
Butyl benzyl phthalate	ug/kg	< 3000	< 2000	< 2000	< 2000	< 3000	< 1000	< 1000	< 1000
2-Chloronaphthalene	ug/kg	< 600	< 405	< 419	< 500	< 600	< 300	< 200	< 200
4-Chlorophenyl phenyl ether	ug/kg	< 1000	< 900	< 900	< 1000	< 1000	< 600	< 500	< 500
Chrysene	ug/kg	1370	806	1100	1390	1220	2180	846	1310
Dibenzo(a,h)anthracene	ug/kg	< 3000	< 2000	< 2000	< 2000	< 3000	< 1000	< 1000	< 1000
1,2-Dichlorobenzene	ug/kg	< 600	< 400	< 400	< 500	< 594	< 300	< 200	< 200
1,3-Dichlorobenzene	ug/kg	< 600	< 400	< 400	< 500	< 594	< 300	< 200	< 200

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below ETC Sample No.	WASTE MANAGEMENT, INC. Company	705 Facility	See Below Sample Point	Date

Sample Points, Sampling Dates, and ETC Sample No.'s

Parameters	Units	S B312F1 890925 HA1149	S B328F2 890925 HA1174	S B328F1 890925 HA1175	S P329F2 890925 HA1180	S P329F2DUP 890925 HA1181	S B320F1 890926 HA1143	S B327F2 890926 HA1146	S B327F1 890926 HA1147
1,4-Dichlorobenzene	ug/kg	< 1000	< 900	< 1000	< 1000	< 1380	< 600	< 500	< 500
3,3'-Dichlorobenzidine	ug/kg	< 5000	< 4000	< 4000	< 4000	< 5000	< 2000	< 2000	< 2000
Diethyl phthalate	ug/kg	< 3000	< 2130	< 2200	< 2480	< 3130	< 1000	< 1000	< 1000
Dimethyl phthalate	ug/kg	< 3000	< 2000	< 2000	< 2000	< 3000	< 1000	< 1000	< 1000
Di-n-butyl phthalate	ug/kg	1100	1400	580	760	2000	< 1000	< 1210	< 1180
2,4-Dinitrotoluene	ug/kg	< 2000	< 1000	< 1260	< 1000	< 2000	< 800	< 700	< 700
2,6-Dinitrotoluene	ug/kg	< 600	< 400	< 400	< 500	< 600	< 300	< 200	< 200
Di-n-octyl phthalate	ug/kg	< 2990	< 2000	< 2000	< 2000	< 3000	< 1000	< 1000	< 1000
Fluoranthene	ug/kg	2650	1430	2960	3000	2930	4130	1620	1110
Fluorene	ug/kg	430	230	791	755	753	651	322	961
Hexachlorobenzene	ug/kg	< 600	< 400	< 400	< 500	< 600	< 300	< 200	< 200
Hexachlorobutadiene	ug/kg	< 300	< 200	< 200	< 200	< 300	< 100	< 100	< 100
Hexachlorocyclopentadiene	ug/kg	< 3000	< 2000	< 2000	< 2000	< 3000	< 1000	< 1000	< 1000
Hexachloroethane	ug/kg	< 500	< 300	< 400	< 400	< 500	< 200	< 200	< 200
Indeno(1,2,3-c,d)pyrene	ug/kg	360	230	240	280	< 1470	< 600	< 600	< 600
Isophorone	ug/kg	< 700	< 469	< 485	< 500	< 688	< 300	< 300	< 300
Naphthalene	ug/kg	< 479	< 341	1040	< 396	1270	864	469	1670
Nitrobenzene	ug/kg	< 569	< 400	< 419	< 500	< 600	< 300	< 200	< 200
N-Nitrosodimethylamine	ug/kg	< 2990	< 2130	< 2200	< 2480	< 3130	< 1000	< 1000	< 1000
N-Nitrosodi-n-propylamine	ug/kg	< 2990	< 2130	< 2200	< 2480	< 3130	< 1340	< 1210	< 1180
N-Nitrosodiphenylamine	ug/kg	< 569	< 400	< 400	< 500	< 594	< 300	< 200	< 224
Phenanthrene	ug/kg	2880	1510	4020	4000	3930	4670	2270	3770
Pyrene	ug/kg	2160	1460	2640	2310	2340	2810	1130	752
1,2,4-Trichlorobenzene	ug/kg	< 600	< 400	< 400	< 500	< 600	< 300	< 200	< 200
Priority Poll. Pest/PCBs GC/MS									
Aldrin	ug/kg	< 6	< 60	< 6	< 300	< 60	< 3410	< 303	< 601
Alpha-BHC	ug/kg	< 6	205	< 6	< 300	< 60	< 3410	< 303	< 601
Beta-BHC	ug/kg	< 6	< 60	< 6	< 300	< 60	< 3410	< 303	< 601
Gamma-BHC	ug/kg	< 6	< 60	< 6	< 300	< 60	< 3410	< 303	< 601
Delta-BHC	ug/kg	< 6	< 60	< 6	< 300	< 60	< 3410	< 303	< 601
Chlordane	ug/kg	< 100	< 99.6	< 100	< 122	< 123	<68100	< 6060	<12000
4,4'-DDT	ug/kg	< 10	< 100	< 10	< 600	< 100	< 6810	< 606	< 1200
4,4'-DDE	ug/kg	< 10	< 100	< 10	< 600	< 100	< 6810	< 606	< 1200
4,4'-DDD	ug/kg	< 10	< 100	< 10	< 600	< 100	< 6810	< 606	< 1200
Dieldrin	ug/kg	< 10	< 100	< 10	< 600	< 100	< 6810	< 606	< 1200

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below				See Below	
ETC Sample No.	WASTE MANAGEMENT, INC. *Company*	705 *Facility*		*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		S B312F1 890925 HA1149	S B328F2 890925 HA1174	S B328F1 890925 HA1175	S P329F2 890925 HA1180	S P329F2DUP 890925 HA1181	S B320F1 890926 HA1143	S B327F2 890926 HA1146	S B327F1 890926 HA1147
Endosulfan I	ug/kg	< 6	< 60	< 6	< 300	< 60	< 3410	< 303	< 601
Endosulfan II	ug/kg	< 10	< 100	< 10	< 600	< 100	< 6810	< 606	< 1200
Endosulfan sulfate	ug/kg	< 10	< 100	< 10	< 600	< 100	< 6810	< 606	< 1200
Endrin	ug/kg	< 10	< 100	< 10	< 600	< 100	< 6810	< 606	< 1200
Endrin aldehyde	ug/kg	< 10	< 100	< 10	< 600	< 100	< 6810	< 606	< 1200
Heptachlor	ug/kg	< 6	< 60	< 6	< 300	< 60	< 3410	< 303	< 601
Heptachlor epoxide	ug/kg	< 6	< 60	< 6	< 300	< 60	< 3410	< 303	< 601
Toxaphene	ug/kg	< 200	< 199	< 200	< 243	< 246	< 136000	<12100	<24000
Groundwater Conventionals									
Phenolics, Total	mg/kg	< 3.5	< 2.7	< 3.6	< 3.6	< 3.5	< 3.4	< 3.1	< 3.4
Cyanide, Total	mg/kg	< .61	< .61	< .61	< .61	< .63	< .61	< .62	< .61
Metals Analysis Data									
Antimony	ug/kg	< 7200	< 7300	< 6900	< 7300	< 7400	5600	9900	13000
Arsenic	ug/kg	16000	5900	3700	9200	6500	12000	6500	5700
Beryllium	ug/kg	680	350	330	490	410	570	450	430
Cadmium	ug/kg	< 240	< 240	< 230	< 240	< 250	2100	< 240	< 250
Chromium	ug/kg	19000	13000	14000	14000	12000	18000	16000	16000
Copper	ug/kg	44000	30000	31000	56000	22000	34000	34000	30000
Lead	ug/kg	79000	32000	32000	220000	59000	33000	100000	33000
Mercury	ug/kg	180	73	78	98	170	400	160	120
Nickel	ug/kg	32000	31000	34000	28000	20000	30000	24000	30000
Selenium	ug/kg	< 600	< 610	< 570	200	250	< 1200	270	140
Silver	ug/kg	340	280	460	350	350	2700	< 1200	< 1200
Thallium	ug/kg	610	460	320	620	570	450	510	< 1200
Zinc	ug/kg	110000	48000	71000	230000	84000	100000	98000	60000
Field Parameters									
Sample Depth	Feet	8	14	10	14	14	10	14	10
Dry Well	CODE	-	-	-	-	-	-	-	-

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below — *ETC Sample No.* | WASTE MANAGEMENT, INC. — *Company* | 705 — *Facility* | See Below — *Sample Point* | See Below — *Date*

Parameters	Units	Sample Points, Sampling Dates, and ETC Sample No.'s							
		S B312F1 890925 HA1149	S B328F2 890925 HA1174	S B328F1 890925 HA1175	S P329F2 890925 HA1180	S P329F2DUP 890925 HA1181	S B320F1 890926 HA1143	S B327F2 890926 HA1146	S B327F1 890926 HA1147
Aroclors by GC									
Aroclor 1242	ug/kg	< 60	< 49.8	< 60	< 60.8	< 60	<34100	< 3030	< 6010
Aroclor 1254	ug/kg	< 100	< 1000	< 100	< 6000	< 1000	<68100	< 6060	<12000
Aroclor 1260	ug/kg	< 100	< 99.6	< 100	< 122	< 123	<68100	< 6060	<12000
Aroclor 1248	ug/kg	< 60	< 600	< 60	< 3000	< 600	<34100	< 3030	< 6010
Aroclor 1232	ug/kg	< 60	< 49.8	< 60	< 60.8	< 60	<34100	< 3030	< 6010
Aroclor 1221	ug/kg	< 60	< 50	< 60	< 60.8	< 60	<34100	< 3030	< 6010
Aroclor 1016	ug/kg	< 60	< 49.8	< 60	< 60.8	< 60	<34100	< 3030	< 6010
Miscellaneous Parameters									
1,1,1,2-Tetrachloroethane	ug/l	-	-	-	-	-	-	-	-
1,2,3-Trichloropropane	ug/l	-	-	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane	ug/l	-	-	-	-	-	-	-	-
1,2-Dibromoethane	ug/l	-	-	-	-	-	-	-	-
1,4-Dichloro-2-butene	ug/l	-	-	-	-	-	-	-	-
1,4-Dioxane	ug/l	-	-	-	-	-	-	-	-
2-Chloro-1,3-butadiene	ug/l	-	-	-	-	-	-	-	-
2-Hexanone	ug/l	-	-	-	-	-	-	-	-
Acetone	ug/l	-	-	-	-	-	-	-	-
Acetonitrile	ug/l	-	-	-	-	-	-	-	-
Carbon disulfide	ug/l	-	-	-	-	-	-	-	-
Dibromomethane	ug/l	-	-	-	-	-	-	-	-
Ending Sample Depth	Feet	10	16	12	16	16	12	16	12
Ethyl cyanide	ug/l	-	-	-	-	-	-	-	-
Ethyl methacrylate	ug/l	-	-	-	-	-	-	-	-
Iodomethane	ug/l	-	-	-	-	-	-	-	-
Isobutyl alcohol	ug/l	-	-	-	-	-	-	-	-
Methacrylonitrile	ug/l	-	-	-	-	-	-	-	-
Methyl ethyl ketone	ug/l	-	-	-	-	-	-	-	-
Methyl methacrylate	ug/l	-	-	-	-	-	-	-	-
Methyl-iso-butyl ketone	ug/l	-	-	-	-	-	-	-	-
Pentachloroethane	ug/l	-	-	-	-	-	-	-	-
Styrene	ug/l	-	-	-	-	-	-	-	-
Vinyl acetate	ug/l	-	-	-	-	-	-	-	-

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below — *ETC Sample No.* | WASTE MANAGEMENT, INC. — *Company* | 705 — *Facility* | See Below — *Sample Point* | *Date*

Parameters	Units	S B312F1 890925 HA1149	S B328F2 890925 HA1174	S B328F1 890925 HA1175	S P329F2 890925 HA1180	S P329F2DUP 890925 HA1181	S B320F1 890926 HA1143	S B327F2 890926 HA1146	S B327F1 890926 HA1147
		Sample Points, Sampling Dates, and ETC Sample No.'s							
m-Xylene	ug/l	-	-	-	-	-	-	-	-
o+p-Xylenes	ug/l	-	-	-	-	-	-	-	-

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		S B338F1 890926 HA1162	S B338F2 890926 HA1163	S B311F1 890926 HA1166	S B311F2 890926 HA1167	S B321F1 890926 HA1176	S B321F2 890926 HA1177	S B320F2 890927 HA1412	S B310F1DUP 890927 HA1413
Priority Poll. Volatiles GC/MS									
Acrolein	ug/kg	-	-	-	-	-	-	-	-
Acrylonitrile	ug/kg	-	-	-	-	-	-	-	-
Benzene	ug/kg	5.49	< 4	13100	6.28	10	< 4	< 4	2.8
bis(Chloromethyl)ether	ug/kg	-	-	-	-	-	-	-	-
Bromoform	ug/kg	< 5	< 5	< 5000	< 5	< 10	< 5	< 5	< 5
Carbon tetrachloride	ug/kg	< 3	< 3	< 3000	< 3	< 7	< 3	< 3	< 3
Chlorobenzene	ug/kg	< 6	< 6	76700	8.98	9.6	< 6	< 6	< 6
Chlorodibromomethane	ug/kg	< 3	< 3	< 3000	< 3	< 8	< 3	< 3	< 3
Chloroethane	ug/kg	< 10	< 10	<10000	< 10	< 30	< 10	< 10	< 10
2-Chloroethylvinyl ether	ug/kg	-	-	-	-	-	-	-	-
Chloroform	ug/kg	< 2	< 2	< 2000	< 2	< 4	< 2	< 2	< 2
Dichlorobromomethane	ug/kg	< 2	< 2	< 2000	< 2	< 6	< 2	< 2	< 2
Dichlorodifluoromethane	ug/kg	< 10	< 10	<10000	< 10	< 30	< 10	< 10	< 10
1,1-Dichloroethane	ug/kg	< 5	< 5	< 5000	< 5	< 10	< 5	< 5	< 5
1,2-Dichloroethane	ug/kg	< 3	< 3	< 3000	< 3	< 7	< 3	< 3	< 3
1,1-Dichloroethylene	ug/kg	15.5	< 2.80	< 3000	< 2.80	< 7	< 3	< 2.80	2.7
1,2-Dichloropropane	ug/kg	< 6	< 6	< 6000	< 6	< 20	< 6	< 6	< 6
cis-1,3-Dichloropropylene	ug/kg	< 5	< 5	< 5000	< 5	< 10	< 5	< 5	< 5
Ethylbenzene	ug/kg	< 7	< 7	9490	1.2	< 20	< 7	< 7	< 7
Methyl bromide	ug/kg	< 10	< 10	<10000	< 10	< 30	< 10	< 10	< 10
Methyl chloride	ug/kg	< 10	< 10	<10000	< 10	< 30	< 10	< 10	< 10
Methylene chloride	ug/kg	330	19.6	5090	23.4	42.5	30.9	17.6	160
1,1,2,2-Tetrachloroethane	ug/kg	< 7	< 7	< 7000	< 7	< 20	< 7	< 7	< 7
Tetrachloroethylene	ug/kg	< 4	< 4	< 4000	< 4	< 10	< 4	< 4	< 4
Toluene	ug/kg	4.0	< 6	12600	4.6	8.6	3.4	< 6	2.3
1,2-Trans-dichloroethylene	ug/kg	< 2	< 2	< 2000	< 2	< 4	< 2	< 2	13.3
1,1,1-Trichloroethane	ug/kg	< 4	< 4	< 4000	< 4	< 10	< 4	< 4	< 4
1,1,2-Trichloroethane	ug/kg	51.5	5.90	< 5000	6.92	34.1	< 5.00	< 5	13.3
Trichloroethylene	ug/kg	< 2	< 2	< 2000	< 2	< 5	< 2	< 2	20.8
Trichlorofluoromethane	ug/kg	28.5	< 10	<10000	< 10.0	< 25.0	< 10.0	< 10.0	8.1
Vinyl chloride	ug/kg	< 10	< 10.0	<10000	< 10	< 30	< 10	< 10	< 10
trans-1,3-Dichloropropylene	ug/kg	< 10	< 10	<10000	< 10	< 30	< 10	< 10	< 10

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

DATE: 10/14/93
PAGE: 26

Chain of Custody Data Required for ETC Data Management Summary Report

See Below — *ETC Sample No.* | WASTE MANAGEMENT, INC. — *Company* | 705 — *Facility* | See Below — *Sample Point* | *Date*

Parameters	Units	Sample Points, Sampling Dates, and ETC Sample No.'s							
		S B338F1 890926 HA1162	S B338F2 890926 HA1163	S B311F1 890926 HA1166	S B311F2 890926 HA1167	S B321F1 890926 HA1176	S B321F2 890926 HA1177	S B320F2 890927 HA1412	S B310F1DUP 890927 HA1413
Priority Poll. Acids GC/MS									
2-Chlorophenol	ug/kg	< 400	< 400	< 400	< 400	< 400	< 400	< 400	< 400
2,4-Dichlorophenol	ug/kg	< 300	< 300	< 327	< 300	816	< 400	< 300	< 300
2,4-Dimethylphenol	ug/kg	< 300	< 300	< 327	< 300	< 300	< 400	< 300	< 300
4,6-Dinitro-o-cresol	ug/kg	< 3000	< 3000	< 3000	< 3000	< 3000	< 3000	< 3000	< 3000
2,4-Dinitrophenol	ug/kg	< 5000	< 5000	< 5090	< 5000	< 5000	< 5000	< 5000	< 5000
2-Nitrophenol	ug/kg	< 400	< 400	< 400	< 400	< 400	< 500	< 400	< 400
4-Nitrophenol	ug/kg	< 300	< 298	< 291	< 300	< 286	< 300	< 285	< 284
p-Chloro-m-cresol	ug/kg	< 342	< 372	< 364	< 364	< 358	< 392	< 400	< 355
Pentachlorophenol	ug/kg	< 400	< 400	< 400	< 400	< 400	< 500	< 400	< 400
Phenol	ug/kg	< 200	< 200	< 200	< 200	3830	< 200	561	< 200
2,4,6-Trichlorophenol	ug/kg	< 300	< 300	< 300	< 300	< 300	< 400	< 300	< 300
Priority Poll. B/Ns GC/MS									
Acenaphthene	ug/kg	< 200	1050	804	< 200	1150	150	810	1200
Acenaphthylene	ug/kg	< 400	< 400	< 424	< 400	< 400	< 500	< 400	< 400
Anthracene	ug/kg	< 217	1830	1720	170	3310	308	1870	2680
Benzo(a)anthracene	ug/kg	< 900	2270	3600	< 900	5020	< 1000	4100	6630
Benzo(a)pyrene	ug/kg	< 300	2110	2830	< 300	3890	< 300	4040	4090
Benzo(b)fluoranthene	ug/kg	< 500	1600	2920	< 600	3270	< 600	4280	5800
Benzo(ghi)perylene	ug/kg	< 500	1030	1870	< 500	2200	< 500	2340	4120
Benzo(k)fluoranthene	ug/kg	< 300	1300	1520	< 300	2830	< 300	2260	3700
bis(2-Chloroethoxy)methane	ug/kg	< 600	< 700	< 600	< 600	< 600	< 700	< 600	< 600
bis(2-Chloroethyl) ether	ug/kg	< 700	< 700	< 700	< 700	< 700	< 700	< 700	< 700
bis(2-Chloroisopropyl)ether	ug/kg	< 700	< 700	< 700	< 700	< 700	< 700	< 700	< 700
bis(2-Ethylhexyl)phthalate	ug/kg	< 1000	< 1000	1920	< 1000	3340	< 1000	< 1000	< 1180
4-Bromophenyl phenyl ether	ug/kg	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200
Butyl benzyl phthalate	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
2-Chloronaphthalene	ug/kg	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200
4-Chlorophenyl phenyl ether	ug/kg	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500
Chrysene	ug/kg	< 300	2260	3780	< 300	4440	< 300	4050	6140
Dibenzo(a,h)anthracene	ug/kg	< 1000	< 1000	690	< 1000	640	< 1000	< 1000	1100
1,2-Dichlorobenzene	ug/kg	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200
1,3-Dichlorobenzene	ug/kg	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below			See Below	
ETC Sample No.	WASTE MANAGEMENT, INC. *Company*	705 *Facility*	*Sample Point*	*Date*

Parameters	Units	Sample Points, Sampling Dates, and ETC Sample No.'s							
		S B338F1 890926 HA1162	S B338F2 890926 HA1163	S B311F1 890926 HA1166	S B311F2 890926 HA1167	S B321F1 890926 HA1176	S B321F2 890926 HA1177	S B320F2 890927 HA1412	S B310FTDUP 890927 HA1413
1,4-Dichlorobenzene	ug/kg	< 500	< 500	< 500	< 500	< 500	< 600	< 500	< 500
3,3'-Dichlorobenzidine	ug/kg	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000
Diethyl phthalate	ug/kg	< 1140	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
Dimethyl phthalate	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
Di-n-butyl phthalate	ug/kg	320	< 1000	< 1210	< 1000	< 1190	< 1000	< 1000	< 1180
2,4-Dinitrotoluene	ug/kg	< 700	< 700	< 691	< 700	< 700	< 700	< 700	< 700
2,6-Dinitrotoluene	ug/kg	< 200	< 200	< 230	< 200	< 200	< 200	< 200	< 200
Di-n-octyl phthalate	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
Fluoranthene	ug/kg	250	3420	4930	478	9940	1450	7280	15000
Fluorene	ug/kg	< 217	1400	1190	< 231	1860	180	968	1470
Hexachlorobenzene	ug/kg	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200
Hexachlorobutadiene	ug/kg	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
Hexachlorocyclopentadiene	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
Hexachloroethane	ug/kg	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200
Indeno(1,2,3-c,d)pyrene	ug/kg	< 500	430	800	< 600	983	< 600	962	1700
Isophorone	ug/kg	< 300	< 300	< 300	< 300	< 300	< 300	< 300	< 300
Naphthalene	ug/kg	< 183	2950	1600	160	889	180	625	1550
Nitrobenzene	ug/kg	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200
N-Nitrosodimethylamine	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
N-Nitrosodi-n-propylamine	ug/kg	< 1140	< 1240	< 1210	< 1210	< 1190	< 1310	< 1190	< 1180
N-Nitrosodiphenylamine	ug/kg	< 200	< 200	< 200	< 200	< 226	< 200	< 200	< 200
Phenanthrene	ug/kg	410	8350	8350	761	10200	1280	7980	11700
Pyrene	ug/kg	160	2750	4080	363	7630	1060	5060	12600
1,2,4-Trichlorobenzene	ug/kg	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200
Priority Poll. Pest/PCBs GC/MS									
Aldrin	ug/kg	< 285	< 310	< 606	< 303	< 298	< 330	< 300	< 604
Alpha-BHC	ug/kg	< 285	< 310	< 606	< 303	< 298	< 330	< 300	< 604
Beta-BHC	ug/kg	< 285	< 310	< 606	< 303	< 298	< 330	< 300	< 604
Gamma-BHC	ug/kg	< 285	< 310	< 606	< 303	< 298	< 330	< 300	< 604
Delta-BHC	ug/kg	< 285	< 310	< 606	< 303	< 298	< 330	< 300	< 604
Chlordane	ug/kg	< 5710	< 6200	<12100	< 6070	< 5960	< 6600	< 6000	<12100
4,4'-DDT	ug/kg	< 571	< 620	< 1210	< 607	< 596	< 660	1530	< 1210
4,4'-DDE	ug/kg	< 571	< 620	< 1210	< 607	< 596	< 660	< 600	< 1210
4,4'-DDD	ug/kg	< 571	< 620	< 1210	< 607	< 596	< 660	< 600	< 1210
Dieldrin	ug/kg	< 571	< 620	< 1210	< 607	< 596	< 660	< 600	< 1210

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		S B338F1 890926 HA1162	S B338F2 890926 HA1163	S B311F1 890926 HA1166	S B311F2 890926 HA1167	S B321F1 890926 HA1176	S B321F2 890926 HA1177	S B320F2 890927 HA1412	S B310F1DUP 890927 HA1413
Endosulfan I	ug/kg	< 285	< 310	< 606	< 303	< 298	< 330	< 300	< 604
Endosulfan II	ug/kg	< 571	< 620	< 1210	< 607	< 596	< 660	< 600	< 1210
Endosulfan sulfate	ug/kg	< 571	< 620	< 1210	< 607	< 596	< 660	< 600	< 1210
Endrin	ug/kg	< 571	< 620	< 1210	< 607	< 596	< 660	< 600	< 1210
Endrin aldehyde	ug/kg	< 571	< 620	< 1210	< 607	< 596	< 660	< 600	< 1210
Heptachlor	ug/kg	< 285	< 310	< 606	< 303	< 298	< 330	< 300	< 604
Heptachlor epoxide	ug/kg	< 285	< 310	< 606	< 303	< 298	< 330	< 300	< 604
Toxaphene	ug/kg	<11400	<12400	<24200	<12100	<11900	<13200	<12000	<24200
Groundwater Conventionals									
Phenolics, Total	mg/kg	< 3.1	< 3.5	< 3.3	< 3.1	< 3.1	< 3.7	< 3.1	< 3.3
Cyanide, Total	mg/kg	< .60	< .63	.75	< .59	< .59	< .66	< .61	< .61
Metals Analysis Data									
Antimony	ug/kg	9300	12000	9600	10000	9300	9300	12000	5000
Arsenic	ug/kg	8000	6600	37000	27000	18000	9000	10000	7500
Beryllium	ug/kg	340	510	360	380	430	340	590	300
Cadmium	ug/kg	< 240	< 250	180	< 240	< 240	< 260	< 250	10000
Chromium	ug/kg	13000	19000	11000	12000	15000	14000	19000	12000
Copper	ug/kg	35000	32000	129000	35000	27000	21000	37000	48000
Lead	ug/kg	53000	30000	140000	75000	25000	14000	36000	220000
Mercury	ug/kg	230	92	1100	870	150	63	130	390
Nickel	ug/kg	27000	34000	17000	22000	25000	24000	36000	23000
Selenium	ug/kg	180	290	370	450	< 1200	240	320	< 590
Silver	ug/kg	< 1200	< 1300	< 1200	< 1200	< 1200	< 1300	< 1200	680
Thallium	ug/kg	700	420	< 1200	1200	500	580	680	< 2400
Zinc	ug/kg	120000	63000	110000	83000	73000	53000	120000	180000
Field Parameters									
Sample Depth	Feet	8	12	8	16	10	15	14	8
Dry Well	CODE	-	-	-	-	-	-	-	-

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected "-"=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below *ETC Sample No.* | WASTE MANAGEMENT, INC. *Company* | 705 *Facility* | See Below *Sample Point* | *Date*

Parameters	Units	Sample Points, Sampling Dates, and ETC Sample No.'s							
		S B338F1 890926 HA1162	S B338F2 890926 HA1163	S B311F1 890926 HA1166	S B311F2 890926 HA1167	S B321F1 890926 HA1176	S B321F2 890926 HA1177	S B320F2 890927 HA1412	S B310F1DUP 890927 HA1413
Aroclors by GC									
Aroclor 1242	ug/kg	< 2850	< 3100	< 6060	< 3030	< 2980	< 3300	< 3000	< 6040
Aroclor 1254	ug/kg	< 5710	< 6200	<12100	< 6070	< 5960	< 6600	< 6000	<12100
Aroclor 1260	ug/kg	< 5710	< 6200	<12100	< 6070	< 5960	< 6600	< 6000	<12100
Aroclor 1248	ug/kg	< 2850	< 3100	< 6060	< 3030	< 2980	< 3300	< 3000	< 6040
Aroclor 1232	ug/kg	< 2850	< 3100	< 6060	< 3030	< 2980	< 3300	< 3000	< 6040
Aroclor 1221	ug/kg	< 2850	< 3100	< 6060	< 3030	< 2980	< 3300	< 3000	< 6040
Aroclor 1016	ug/kg	< 2850	< 3100	< 6060	< 3030	< 2980	< 3300	< 3000	< 6040
Miscellaneous Parameters									
1,1,1,2-Tetrachloroethane	ug/l	-	-	-	-	-	-	-	-
1,2,3-Trichloropropane	ug/l	-	-	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane	ug/l	-	-	-	-	-	-	-	-
1,2-Dibromoethane	ug/l	-	-	-	-	-	-	-	-
1,4-Dichloro-2-butene	ug/l	-	-	-	-	-	-	-	-
1,4-Dioxane	ug/l	-	-	-	-	-	-	-	-
2-Chloro-1,3-butadiene	ug/l	-	-	-	-	-	-	-	-
2-Hexanone	ug/l	-	-	-	-	-	-	-	-
Acetone	ug/l	-	-	-	-	-	-	-	-
Acetonitrile	ug/l	-	-	-	-	-	-	-	-
Carbon disulfide	ug/l	-	-	-	-	-	-	-	-
Dibromomethane	ug/l	-	-	-	-	-	-	-	-
Ending Sample Depth	Feet	10	14	10	18	15	17	16	11
Ethyl cyanide	ug/l	-	-	-	-	-	-	-	-
Ethyl methacrylate	ug/l	-	-	-	-	-	-	-	-
Iodomethane	ug/l	-	-	-	-	-	-	-	-
Isobutyl alcohol	ug/l	-	-	-	-	-	-	-	-
Methacrylonitrile	ug/l	-	-	-	-	-	-	-	-
Methyl ethyl ketone	ug/l	-	-	-	-	-	-	-	-
Methyl methacrylate	ug/l	-	-	-	-	-	-	-	-
Methyl-iso-butyl ketone	ug/l	-	-	-	-	-	-	-	-
Pentachloroethane	ug/l	-	-	-	-	-	-	-	-
Styrene	ug/l	-	-	-	-	-	-	-	-
Vinyl acetate	ug/l	-	-	-	-	-	-	-	-

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below — *ETC Sample No.* | WASTE MANAGEMENT, INC. — *Company* | 705 — *Facility* | See Below — *Sample Point* | See Below — *Date*

Parameters	Units	Sample Points, Sampling Dates, and ETC Sample No.'s							
		S B338F1 890926 HA1162	S B338F2 890926 HA1163	S B311F1 890926 HA1166	S B311F2 890926 HA1167	S B321F1 890926 HA1176	S B321F2 890926 HA1177	S B320F2 890927 HA1412	S B310F1DUP 890927 HA1413
m-Xylene	ug/l	-	-	-	-	-	-	-	-
o+p-Xylenes	ug/l	-	-	-	-	-	-	-	-

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		S B326F1 890927 HA1418	S B326F1DUP 890927 HA1419	S B326F2 890927 HA1424	S B326F2DUP 890927 HA1425	S B309F1 890927 HA1426	S B309F2 890927 HA1427	S B325F1 890927 HA1430	S B325F2 890927 HA1431
Priority Poll. Volatiles GC/MS									
Acrolein	ug/kg	-	-	-	-	-	-	-	-
Acrylonitrile	ug/kg	-	-	-	-	-	-	-	-
Benzene	ug/kg	6.16	6.54	< 4	2.9	7240	14.1	5.63	5.33
bis(Chloromethyl)ether	ug/kg	-	-	-	-	-	-	-	-
Bromoform	ug/kg	< 5	< 5	< 5	< 5	< 50	< 5	< 5	< 5
Carbon tetrachloride	ug/kg	< 3	< 3	< 3	< 3	< 28.0	< 3	< 3	< 3
Chlorobenzene	ug/kg	5.1	8.62	< 6	< 6.00	543	< 6	< 6.00	< 6
Chlorodibromomethane	ug/kg	< 3	< 3	< 3	< 3	< 30	< 3	< 3	< 3
Chloroethane	ug/kg	< 10	< 10	< 10	< 10	< 100	< 10	< 10	< 10
2-Chloroethylvinyl ether	ug/kg	-	-	-	-	-	-	-	-
Chloroform	ug/kg	< 1.60	< 2	< 2	< 2	801	< 2	< 1.60	< 1.60
Dichlorobromomethane	ug/kg	< 2	< 2	< 2	< 2	< 20	< 2	< 2	< 2
Dichlorodifluoromethane	ug/kg	< 10	< 10	< 10	< 10	< 100	< 10	< 10	< 10
1,1-Dichloroethane	ug/kg	< 5	< 5	< 5	< 5	170	< 5	< 4.70	< 5
1,2-Dichloroethane	ug/kg	< 3	< 3	< 3	< 3	1140	< 2.80	4.59	< 3
1,1-Dichloroethylene	ug/kg	1.6	1.8	< 3	3.07	36900	14.1	3.27	3.60
1,2-Dichloropropane	ug/kg	< 6	< 6	< 6	< 6	< 60.0	< 6	< 6	< 6
cis-1,3-Dichloropropylene	ug/kg	< 5	< 5	< 5	< 5	< 50	< 5	< 5	< 5
Ethylbenzene	ug/kg	< 7	< 7.20	< 7	< 7	329	< 7	< 7	< 7
Methyl bromide	ug/kg	< 10	< 10	< 10	< 10	< 100	< 10	< 10	< 10
Methyl chloride	ug/kg	< 10	< 10	< 10	< 10	< 100	< 10	< 10	< 10
Methylene chloride	ug/kg	46.0	49.6	54.8	58.1	31600	154	63.9	70.8
1,1,2,2-Tetrachloroethane	ug/kg	< 7	< 7	< 7	< 6.90	< 70	< 7	< 7	< 7
Tetrachloroethylene	ug/kg	< 4	< 4	< 4	< 4	103	< 4	< 4	< 4
Toluene	ug/kg	5.0	8.81	< 6	< 6.00	77800	2.4	6.63	< 6.00
1,2-Trans-dichloroethylene	ug/kg	< 2	< 2	< 2	< 2	167	< 2	< 2	< 2
1,1,1-Trichloroethane	ug/kg	< 4	< 4	< 4	< 4	192	< 4	< 4	< 4
1,1,2-Trichloroethane	ug/kg	18.4	32.8	< 5.00	< 5.00	109000	< 5.00	44.3	15.2
Trichloroethylene	ug/kg	< 2	< 2	< 2	< 2	195	< 2	< 1.90	< 2
Trichlorofluoromethane	ug/kg	2.1	2.2	< 10	7.4	< 100	< 10.0	7.3	< 10.0
Vinyl chloride	ug/kg	< 10	< 10	< 10	< 10	939	< 10	< 10	< 10
trans-1,3-Dichloropropylene	ug/kg	< 10	< 10	< 10	< 10	< 100	< 10	< 10	< 10

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705		See Below
ETC Sample No.	Company	Facility	Sample Point	Date

Parameters	Units	Sample Points, Sampling Dates, and ETC Sample No.'s							
		S B326F1 890927 HA1418	S B326F1DUP 890927 HA1419	S B326F2 890927 HA1424	S B326F2DUP 890927 HA1425	S B309F1 890927 HA1426	S B309F2 890927 HA1427	S B325F1 890927 HA1430	S B325F2 890927 HA1431
Priority Poll. Acids GC/MS									
2-Chlorophenol	ug/kg	< 4000	< 4000	< 400	< 400	< 400	< 400	< 4000	< 400
2,4-Dichlorophenol	ug/kg	< 3000	< 3000	< 300	< 300	25000	< 300	< 3000	< 300
2,4-Dimethylphenol	ug/kg	< 3000	< 3000	< 300	< 300	< 300	< 300	< 3000	< 300
4,6-Dinitro-o-cresol	ug/kg	<30000	<30000	< 3000	< 3000	< 3000	< 3000	<30000	< 3000
2,4-Dinitrophenol	ug/kg	<50000	<50000	< 5000	< 5000	< 5120	< 5000	<50000	< 5000
2-Nitrophenol	ug/kg	< 4000	< 4000	< 400	< 400	< 400	< 400	< 4000	< 400
4-Nitrophenol	ug/kg	< 2850	< 3000	< 300	< 287	< 292	< 300	< 3000	< 281
p-Chloro-m-cresol	ug/kg	< 4000	< 3000	< 362	< 358	< 365	< 354	< 3000	< 352
Pentachlorophenol	ug/kg	< 4000	< 4000	< 400	< 400	< 400	< 400	< 4000	< 400
Phenol	ug/kg	< 2000	< 2000	1020	673	8630	< 200	< 2000	669
2,4,6-Trichlorophenol	ug/kg	< 3000	< 3000	< 300	< 300	1300	< 300	< 3000	< 300
Priority Poll. B/Ns GC/MS									
Acenaphthene	ug/kg	3270	2710	110	275	473	< 200	1400	327
Acenaphthylene	ug/kg	< 4000	< 4000	< 400	< 400	< 400	< 400	< 4000	< 400
Anthracene	ug/kg	6150	4870	246	460	678	< 224	3670	771
Benzo(a)anthracene	ug/kg	11700	< 9000	< 900	< 900	1790	< 900	< 9000	1500
Benzo(a)pyrene	ug/kg	8220	< 3000	< 300	385	1510	< 300	< 3000	1280
Benzo(b)fluoranthene	ug/kg	8590	< 5000	< 600	540	2440	< 600	< 6000	1110
Benzo(ghi)perylene	ug/kg	< 5000	< 5000	< 500	< 500	1270	< 500	< 5000	849
Benzo(k)fluoranthene	ug/kg	5140	< 3000	< 300	417	1060	< 300	< 3000	887
bis(2-Chloroethoxy)methane	ug/kg	< 6000	< 6000	< 600	< 600	< 600	< 600	< 6000	< 600
bis(2-Chloroethyl) ether	ug/kg	< 7000	< 6000	< 700	< 700	< 700	< 700	< 7000	< 700
bis(2-Chloroisopropyl)ether	ug/kg	< 7000	< 6000	< 700	< 700	< 700	< 700	< 7000	< 700
bis(2-Ethylhexyl)phthalate	ug/kg	<10000	<10000	2690	2380	< 1220	< 1000	<10000	< 1170
4-Bromophenyl phenyl ether	ug/kg	< 2000	< 2000	< 200	< 200	< 200	< 200	< 2000	< 200
Butyl benzyl phthalate	ug/kg	<10000	<10000	< 1000	< 1000	< 1000	< 1000	<10000	< 1000
2-Chloronaphthalene	ug/kg	< 2000	< 2000	< 200	< 200	< 200	< 200	< 2000	< 200
4-Chlorophenyl phenyl ether	ug/kg	< 5000	< 5000	< 500	< 500	< 500	< 500	< 5000	< 500
Chrysene	ug/kg	10800	< 3000	< 300	< 300	1990	< 300	< 3000	1440
Dibenzo(a,h)anthracene	ug/kg	<10000	<10000	< 1000	< 1000	< 1000	< 1000	<10000	< 1000
1,2-Dichlorobenzene	ug/kg	< 2000	< 2000	< 200	< 200	794	< 200	< 2000	< 200
1,3-Dichlorobenzene	ug/kg	< 2000	< 2000	< 200	< 200	< 231	< 200	< 2000	< 200

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below				See Below	
ETC Sample No.	WASTE MANAGEMENT, INC. *Company*	705 *Facility*		*Sample Point*	*Date*

Parameters	Units	S B326F1 890927 HA1418	S B326F1DUP 890927 HA1419	S B326F2 890927 HA1424	S B326F2DUP 890927 HA1425	S B309F1 890927 HA1426	S B309F2 890927 HA1427	S B325F1 890927 HA1430	S B325F2 890927 HA1431
		Sample Points, Sampling Dates, and ETC Sample No.'s							
1,4-Dichlorobenzene	ug/kg	< 5000	< 5000	< 500	< 500	150	< 500	< 5000	< 500
3,3'-Dichlorobenzidine	ug/kg	<20000	<20000	< 2000	< 2000	< 2000	< 2000	<20000	< 2000
Diethyl phthalate	ug/kg	<10000	<10000	< 1210	< 1000	< 1220	< 1000	<10000	< 1170
Dimethyl phthalate	ug/kg	<10000	<10000	< 1000	< 1000	< 1000	< 1000	<10000	< 1000
Di-n-butyl phthalate	ug/kg	<10000	<10000	< 1000	< 1000	< 1220	< 1180	<10000	< 1170
2,4-Dinitrotoluene	ug/kg	< 7000	< 6000	< 700	< 700	< 694	< 700	< 7000	< 700
2,6-Dinitrotoluene	ug/kg	< 2000	< 2000	< 200	< 200	< 200	< 200	< 2000	< 200
Di-n-octyl phthalate	ug/kg	<10000	<10000	< 1000	< 1000	< 1220	< 1000	<10000	< 1000
Fluoranthene	ug/kg	17900	15300	598	957	2160	< 300	12500	2470
Fluorene	ug/kg	4340	3280	170	384	692	< 224	1400	551
Hexachlorobenzene	ug/kg	< 2000	< 2000	< 200	< 200	11200	< 200	< 2000	< 200
Hexachlorobutadiene	ug/kg	< 1000	< 1000	< 100	< 100	< 100	< 100	< 1000	< 100
Hexachlorocyclopentadiene	ug/kg	<10000	<10000	< 1000	< 1000	< 1220	< 1000	<10000	< 1000
Hexachloroethane	ug/kg	< 2000	< 2000	< 200	< 200	< 200	< 200	< 2000	< 200
Indeno(1,2,3-c,d)pyrene	ug/kg	< 6000	< 5000	< 600	< 600	440	< 600	< 5000	340
Isophorone	ug/kg	< 3000	< 2000	< 300	< 300	130	< 300	< 3000	< 300
Naphthalene	ug/kg	5540	4320	256	526	2320	< 200	1100	535
Nitrobenzene	ug/kg	< 2000	< 2000	< 200	< 200	< 231	< 200	< 2000	< 200
N-Nitrosodimethylamine	ug/kg	<10000	<10000	< 1000	< 1000	< 1220	< 1000	<10000	< 1000
N-Nitrosodi-n-propylamine	ug/kg	<10000	<10000	< 1210	< 1190	< 1220	< 1000	<11600	< 1170
N-Nitrosodiphenylamine	ug/kg	< 2000	< 2000	< 200	< 200	< 200	< 200	< 2000	< 200
Phenanthrene	ug/kg	21100	18400	973	1950	4040	120	14500	3730
Pyrene	ug/kg	13200	10400	412	681	1990	< 200	9210	1900
1,2,4-Trichlorobenzene	ug/kg	< 2000	< 2000	< 200	< 200	< 200	< 200	< 2000	< 200
Priority Poll. Pest/PCBs GC/MS									
Aldrin	ug/kg	< 3000	< 2870	< 305	< 302	< 609	< 5950	< 585	< 296
Alpha-BHC	ug/kg	< 3000	< 2870	< 305	< 302	< 609	< 5950	< 585	< 296
Beta-BHC	ug/kg	< 3000	< 2870	< 305	< 302	< 609	< 5950	< 585	< 296
Gamma-BHC	ug/kg	< 3000	< 2870	< 305	< 300	< 609	< 5950	< 585	< 296
Delta-BHC	ug/kg	< 3000	< 2870	< 305	< 300	< 609	< 5950	< 585	< 296
Chlordane	ug/kg	<60000	<57300	< 6100	< 6000	<12200	< 119000	<11700	< 5920
4,4'-DDT	ug/kg	< 6000	< 5730	< 610	< 600	< 1220	<11900	< 1170	< 592
4,4'-DDE	ug/kg	< 6000	< 5730	< 610	< 600	< 1220	<11900	< 1170	< 592
4,4'-DDD	ug/kg	< 6000	< 5730	< 610	< 600	< 1220	<11900	< 1170	< 592
Dieldrin	ug/kg	< 6000	< 5730	< 610	< 603	< 1220	<11900	< 1170	< 592

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below ETC Sample No.	Company	Facility	See Below Sample Point	Date
	WASTE MANAGEMENT, INC.	705		

Parameters	Units	Sample Points, Sampling Dates, and ETC Sample No.'s							
		S B326F1 890927 HA1418	S B326F1DUP 890927 HA1419	S B326F2 890927 HA1424	S B326F2DUP 890927 HA1425	S B309F1 890927 HA1426	S B309F2 890927 HA1427	S B325F1 890927 HA1430	S B325F2 890927 HA1431
Endosulfan I	ug/kg	< 3000	< 2870	< 305	< 300	< 609	< 5950	< 585	< 296
Endosulfan II	ug/kg	< 6000	< 5730	< 610	< 600	< 1220	<11900	< 1170	< 592
Endosulfan sulfate	ug/kg	< 6000	< 5730	< 610	< 603	< 1220	<11900	< 1170	< 592
Endrin	ug/kg	< 6000	< 5730	< 610	< 600	< 1220	<11900	< 1170	< 592
Endrin aldehyde	ug/kg	< 6000	< 5730	< 610	< 600	< 1220	<11900	< 1170	< 592
Heptachlor	ug/kg	< 3000	< 2870	< 305	< 300	< 609	< 5950	< 585	< 296
Heptachlor epoxide	ug/kg	< 3000	< 2870	< 305	< 302	< 609	< 5950	< 585	< 296
Toxaphene	ug/kg	< 120000	< 115000	<12200	<12100	<24400	< 238000	<23400	<11800
Groundwater Conventionals									
Phenolics, Total	mg/kg	< 3.0	< 3.2	< 3.1	< 3.0	26.8	6.0	< 2.6	< 3.7
Cyanide, Total	mg/kg	< .61	< .58	< .61	< .60	.751	< .60	< .59	< .63
Metals Analysis Data									
Antimony	ug/kg	6500	17000	5700	7000	15000	13000	11000	7800
Arsenic	ug/kg	7000	4700	5400	6500	1200	7100	5500	5800
Beryllium	ug/kg	330	320	270	500	400	480	690	510
Cadmium	ug/kg	< 230	< 230	< 240	220	< 250	< 240	260	< 250
Chromium	ug/kg	49000	50000	11000	17000	180000	18000	50000	32000
Copper	ug/kg	20000	23000	21000	27000	28000	28000	42000	82000
Lead	ug/kg	90000	110000	25000	25000	86000	13000	280000	76000
Mercury	ug/kg	140	110	58	59	100	58	230	60
Nickel	ug/kg	10000	12000	20000	27000	23000	29000	21000	28000
Selenium	ug/kg	130	130	< 600	160	400	190	210	< 630
Silver	ug/kg	< 1200	< 1200	< 1200	< 1200	1100	260	< 1100	< 1300
Thallium	ug/kg	< 1200	< 1200	< 1200	310	< 1200	620	< 1100	< 1300
Zinc	ug/kg	110000	120000	40000	89000	160000	53000	268000	230000
Field Parameters									
Sample Depth	Feet	8	8	16	16	8	16	8	16
Dry Well	CODE	-	-	-	-	-	-	-	-

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		S B326F1 890927 HA1418	S B326F1DUP 890927 HA1419	S B326F2 890927 HA1424	S B326F2DUP 890927 HA1425	S B309F1 890927 HA1426	S B309F2 890927 HA1427	S B325F1 890927 HA1430	S B325F2 890927 HA1431
Aroclors by GC									
Aroclor 1242	ug/kg	<30000	<28700	< 3050	< 3020	< 6090	<59500	< 5850	< 2960
Aroclor 1254	ug/kg	<60000	<57300	< 6100	< 6030	<12200	< 119000	<11700	< 5920
Aroclor 1260	ug/kg	<60000	<57300	< 6100	< 6030	<12200	< 119000	<11700	< 5920
Aroclor 1248	ug/kg	<30000	<28700	< 3050	< 3020	< 6090	<59500	< 5850	< 2960
Aroclor 1232	ug/kg	<30000	<28700	< 3050	< 3020	< 6090	<59500	< 5850	< 2960
Aroclor 1221	ug/kg	<30000	<28700	< 3050	< 3020	< 6090	<59500	< 5850	< 2960
Aroclor 1016	ug/kg	<30000	<28700	< 3050	< 3020	< 6090	<59500	< 5850	< 2960
Miscellaneous Parameters									
1,1,1,2-Tetrachloroethane	ug/l	-	-	-	-	-	-	-	-
1,2,3-Trichloropropane	ug/l	-	-	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane	ug/l	-	-	-	-	-	-	-	-
1,2-Dibromoethane	ug/l	-	-	-	-	-	-	-	-
1,4-Dichloro-2-butene	ug/l	-	-	-	-	-	-	-	-
1,4-Dioxane	ug/l	-	-	-	-	-	-	-	-
2-Chloro-1,3-butadiene	ug/l	-	-	-	-	-	-	-	-
2-Hexanone	ug/l	-	-	-	-	-	-	-	-
Acetone	ug/l	-	-	-	-	-	-	-	-
Acetonitrile	ug/l	-	-	-	-	-	-	-	-
Carbon disulfide	ug/l	-	-	-	-	-	-	-	-
Dibromomethane	ug/l	-	-	-	-	-	-	-	-
Ending Sample Depth	Feet	10	10	19	19	10	18	10	18
Ethyl cyanide	ug/l	-	-	-	-	-	-	-	-
Ethyl methacrylate	ug/l	-	-	-	-	-	-	-	-
Iodomethane	ug/l	-	-	-	-	-	-	-	-
Isobutyl alcohol	ug/l	-	-	-	-	-	-	-	-
Methacrylonitrile	ug/l	-	-	-	-	-	-	-	-
Methyl ethyl ketone	ug/l	-	-	-	-	-	-	-	-
Methyl methacrylate	ug/l	-	-	-	-	-	-	-	-
Methyl-iso-butyl ketone	ug/l	-	-	-	-	-	-	-	-
Pentachloroethane	ug/l	-	-	-	-	-	-	-	-
Styrene	ug/l	-	-	-	-	-	-	-	-
Vinyl acetate	ug/l	-	-	-	-	-	-	-	-

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

DATE: 10/14/93
PAGE: 36

Chain of Custody Data Required for ETC Data Management Summary Report

See Below — *ETC Sample No.* | WASTE MANAGEMENT, INC. — *Company* | 705 — *Facility* | See Below — *Sample Point* | *Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		S B326F1 890927 HA1418	S B326F1DUP 890927 HA1419	S B326F2 890927 HA1424	S B326F2DUP 890927 HA1425	S B309F1 890927 HA1426	S B309F2 890927 HA1427	S B325F1 890927 HA1430	S B325F2 890927 HA1431
m-Xylene	ug/l	-	-	-	-	-	-	-	-
o+p-Xylenes	ug/l	-	-	-	-	-	-	-	-

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below			See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*
	WASTE MANAGEMENT, INC.	705		

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		S B310F1 890927 HA1432	S B310F2 890927 HA1433	S G334F1 891001 HA1401	S B339F1 890930 HA1402	S B339F2 890930 HA1403	S B346F1 890930 HA1404	S B346F2 890930 HA1405	S G334F2 891001 HA1406
Priority Poll. Volatiles GC/MS									
Acrolein	ug/kg	-	-	-	-	-	-	-	-
Acrylonitrile	ug/kg	-	-	-	-	-	-	-	-
Benzene	ug/kg	1.9	< 4	< 4	.64	1.3	< 90	< 4	< 4.40
bis(Chloromethyl)ether	ug/kg	-	-	-	-	-	-	-	-
Bromoform	ug/kg	< 5	< 5	< 5	< 5	< 5	< 90	< 5	< 5
Carbon tetrachloride	ug/kg	< 3	< 3	< 3	< 3	< 3	< 60	< 3	< 3
Chlorobenzene	ug/kg	< 6	< 6	< 6	< 6	< 6	322	< 6	< 6
Chlorodibromomethane	ug/kg	< 3	< 3	< 3	< 3	< 3	< 60	< 3	< 3
Chloroethane	ug/kg	< 10	< 10	< 10	< 10	< 10	< 200	< 10	< 10
2-Chloroethylvinyl ether	ug/kg	-	-	-	-	-	-	-	-
Chloroform	ug/kg	< 2	< 2	< 2	< 2	< 1.60	< 30	< 2	< 2
Dichlorobromomethane	ug/kg	< 2	< 2	< 2	< 2	< 2	< 40	< 2	< 2
Dichlorodifluoromethane	ug/kg	< 10	< 10	< 10	< 10	< 10	< 200	< 10	< 10
1,1-Dichloroethane	ug/kg	< 5	< 5	< 5	< 5	< 5	< 90	< 5	< 5
1,2-Dichloroethane	ug/kg	< 3	< 3	< 3	< 3	< 3	< 60	< 3	< 3
1,1-Dichloroethylene	ug/kg	< 3	< 3	< 3	< 3	2.1	< 60	< 3	< 3
1,2-Dichloropropane	ug/kg	< 6	< 6	< 6	< 6	< 6	< 100	< 6	< 6
cis-1,3-Dichloropropylene	ug/kg	< 5	< 5	< 5	< 5	< 5	< 100	< 5	< 5
Ethylbenzene	ug/kg	< 7	< 7	< 7	< 7	< 7	863	< 7	< 7
Methyl bromide	ug/kg	< 10	< 10	< 10	< 10	< 10	< 200	< 10	< 10
Methyl chloride	ug/kg	< 10.0	< 10	< 10	< 10	< 10	< 200	< 10	< 10
Methylene chloride	ug/kg	55.4	41.6	82.4	47.9	81.1	98.8	8.99	22.4
1,1,2,2-Tetrachloroethane	ug/kg	< 7	< 7	< 7	< 7	< 7	< 100	< 7	< 7
Tetrachloroethylene	ug/kg	< 4	< 4	< 4	< 4	< 4	< 82.0	< 4	< 4
Toluene	ug/kg	< 6.00	< 6	< 6	2.8	1.8	622	1.4	1.8
1,2-Trans-dichloroethylene	ug/kg	27.9	< 2	< 2	< 2	< 2	< 30	< 2	< 2
1,1,1-Trichloroethane	ug/kg	< 4	< 4	< 4	< 4	< 4	< 80	< 4	< 4
1,1,2-Trichloroethane	ug/kg	13.8	16.4	< 5	1.8	3.0	< 100	< 5	1.7
Trichloroethylene	ug/kg	28.9	< 2	< 2	< 2	3.05	< 40	< 2	< 2
Trichlorofluoromethane	ug/kg	8.7	6.2	1.8	2.6	2.3	< 200	< 10	2.4
Vinyl chloride	ug/kg	< 10	< 10	< 10	< 10	< 10	< 200	< 10	< 10
trans-1,3-Dichloropropylene	ug/kg	< 10	< 10	< 10	< 10	< 10	< 200	< 10	< 10

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		S B310F1 890927 HA1432	S B310F2 890927 HA1433	S G334F1 891001 HA1401	S B339F1 890930 HA1402	S B339F2 890930 HA1403	S B346F1 890930 HA1404	S B346F2 890930 HA1405	S G334F2 891001 HA1406
Priority Poll. Acids GC/MS									
2-Chlorophenol	ug/kg	< 4000	< 400	< 800	< 400	< 500	< 4000	< 300	< 400
2,4-Dichlorophenol	ug/kg	< 3000	< 300	< 600	< 400	< 400	6740	< 300	< 300
2,4-Dimethylphenol	ug/kg	< 3000	< 300	< 600	< 400	< 400	< 4000	< 300	< 300
4,6-Dinitro-o-cresol	ug/kg	<30000	< 3000	< 6000	< 3000	< 3000	<30000	< 2000	< 3000
2,4-Dinitrophenol	ug/kg	<50000	< 5000	<10000	< 5000	< 6000	<60000	< 4000	< 5000
2-Nitrophenol	ug/kg	< 4000	< 400	< 800	< 500	< 500	< 5000	< 400	< 500
4-Nitrophenol	ug/kg	< 2860	< 300	< 600	< 300	< 300	< 3000	< 200	< 300
p-Chloro-m-cresol	ug/kg	< 4000	< 366	< 700	< 400	< 400	< 4000	< 300	< 400
Pentachlorophenol	ug/kg	< 4000	< 400	< 800	< 500	< 500	< 5000	< 400	< 500
Phenol	ug/kg	< 2000	< 200	< 400	< 200	< 200	2050	1680	< 200
2,4,6-Trichlorophenol	ug/kg	< 3000	< 300	< 600	< 400	< 400	< 4000	< 300	< 300
Priority Poll. B/Ns GC/MS									
Acenaphthene	ug/kg	7780	140	< 400	210	< 300	< 3000	< 200	< 200
Acenaphthylene	ug/kg	< 4180	< 400	< 800	< 500	< 500	< 5000	< 400	< 500
Anthracene	ug/kg	19200	288	370	576	< 300	< 3000	< 200	< 200
Benzo(a)anthracene	ug/kg	28000	740	< 2000	3140	880	<10000	< 800	< 1000
Benzo(a)pyrene	ug/kg	25800	691	< 600	2040	493	< 3000	< 300	< 300
Benzo(b)fluoranthene	ug/kg	22400	643	< 1000	< 600	580	< 6000	< 500	< 600
Benzo(ghi)perylene	ug/kg	14700	783	< 1000	< 500	< 600	< 6000	< 400	< 500
Benzo(k)fluoranthene	ug/kg	17700	455	< 600	4670	733	< 3000	< 300	< 300
bis(2-Chloroethoxy)methane	ug/kg	< 6000	< 600	< 1000	< 700	< 800	< 7000	< 500	< 700
bis(2-Chloroethyl) ether	ug/kg	< 7000	< 700	< 1000	< 700	< 800	< 8000	< 600	< 700
bis(2-Chloroisopropyl)ether	ug/kg	< 7000	< 700	< 1000	< 700	< 800	< 8000	< 600	< 700
bis(2-Ethylhexyl)phthalate	ug/kg	<10000	< 1220	< 2000	< 1000	< 1000	<10000	< 1000	2130
4-Bromophenyl phenyl ether	ug/kg	< 2000	< 200	< 400	< 200	< 300	< 3000	< 200	< 200
Butyl benzyl phthalate	ug/kg	<10000	< 1000	< 2000	< 1000	< 1000	<10000	< 1000	< 1000
2-Chloronaphthalene	ug/kg	< 2000	< 200	< 400	< 200	< 300	< 3000	< 200	< 200
4-Chlorophenyl phenyl ether	ug/kg	< 5000	< 500	< 1000	< 500	< 600	< 6000	< 400	< 500
Chrysene	ug/kg	27700	719	< 600	1670	403	< 3000	< 300	< 300
Dibenzo(a,h)anthracene	ug/kg	<10000	< 1000	< 2000	< 1000	< 1000	<10000	< 1000	< 1000
1,2-Dichlorobenzene	ug/kg	< 2000	< 200	< 400	< 200	< 300	< 3000	< 200	< 200
1,3-Dichlorobenzene	ug/kg	< 2000	< 200	< 400	< 200	< 300	< 3000	< 200	< 200

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below				See Below	
ETC Sample No.	WASTE MANAGEMENT, INC.	*Company*	705 *Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		S B310F1 890927 HA1432	S B310F2 890927 HA1433	S G334F1 891001 HA1401	S B339F1 890930 HA1402	S B339F2 890930 HA1403	S B346F1 890930 HA1404	S B346F2 890930 HA1405	S G334F2 891001 HA1406
1,4-Dichlorobenzene	ug/kg	< 5000	< 500	< 1000	< 600	< 600	< 6000	< 400	< 600
3,3'-Dichlorobenzidine	ug/kg	<20000	< 2000	< 4000	< 2000	< 2000	<20000	< 2000	< 2000
Diethyl phthalate	ug/kg	<10000	< 1000	< 2000	< 1000	< 1000	<10000	< 1000	< 1000
Dimethyl phthalate	ug/kg	<10000	< 1000	< 2000	< 1000	< 1000	<10000	< 1000	< 1000
Di-n-butyl phthalate	ug/kg	<10000	< 1220	800	< 1000	360	<10000	310	290
2,4-Dinitrotoluene	ug/kg	< 7000	< 700	< 1000	< 700	< 800	< 8000	< 600	< 700
2,6-Dinitrotoluene	ug/kg	< 2000	< 200	< 400	< 200	< 300	< 3000	< 200	< 200
Di-n-octyl phthalate	ug/kg	<10000	< 1000	< 2000	< 1000	< 1000	<10000	< 1000	< 1000
Fluoranthene	ug/kg	42400	1250	1030	4130	857	2000	477	< 300
Fluorene	ug/kg	11200	180	< 400	< 200	< 300	1400	< 200	< 200
Hexachlorobenzene	ug/kg	< 2000	< 200	< 400	< 200	< 300	< 3000	< 200	< 200
Hexachlorobutadiene	ug/kg	< 1000	< 100	< 200	< 100	< 100	< 1000	< 90	< 100
Hexachlorocyclopentadiene	ug/kg	<10000	< 1000	< 2000	< 1000	< 1000	<10000	< 1000	< 1000
Hexachloroethane	ug/kg	< 2000	< 200	< 400	< 200	< 200	< 2000	< 200	< 200
Indeno(1,2,3-c,d)pyrene	ug/kg	5500	470	< 1000	< 600	< 700	< 6000	< 500	< 600
Isophorone	ug/kg	< 3000	< 300	< 500	< 300	< 300	< 3000	< 200	< 300
Naphthalene	ug/kg	10300	706	< 400	423	190	< 2000	< 200	< 200
Nitrobenzene	ug/kg	< 2000	< 200	< 400	< 200	< 300	< 3000	< 200	< 200
N-Nitrosodimethylamine	ug/kg	<10000	< 1000	< 2000	< 1000	< 1000	<10000	< 1000	< 1000
N-Nitrosodi-n-propylamine	ug/kg	<10000	< 1220	< 2000	< 1000	< 1000	<10000	< 1000	< 1000
N-Nitrosodiphenylamine	ug/kg	< 2000	< 200	< 400	< 200	< 300	< 3000	< 200	< 200
Phenanthrene	ug/kg	82100	1290	420	2450	680	6500	440	< 700
Pyrene	ug/kg	30700	1040	1040	3090	671	1900	410	< 200
1,2,4-Trichlorobenzene	ug/kg	< 2000	< 200	< 400	< 200	< 300	< 3000	< 200	< 200
Priority Poll. Pest/PCBs GC/MS									
Aldrin	ug/kg	< 296	< 305	< 10	< 7	< 7	< 7	< 6	< 6
Alpha-BHC	ug/kg	< 296	< 305	< 10	< 7	< 7	< 7	< 6	< 6
Beta-BHC	ug/kg	< 296	< 305	< 10	< 7	< 7	< 7	< 6	< 6
Gamma-BHC	ug/kg	< 296	< 305	< 10	< 7	< 7	< 7	< 6	< 6
Delta-BHC	ug/kg	< 296	< 305	< 10	< 7	< 7	< 7	< 6	< 6
Chlordane	ug/kg	< 5910	< 6110	< 200	< 100	< 100	< 100	< 100	< 100
4,4'-DDT	ug/kg	< 591	< 611	< 20	< 10	< 10	< 10	< 10	< 10
4,4'-DDE	ug/kg	< 591	< 611	< 20	< 10	< 10	< 10	< 10	< 10
4,4'-DDD	ug/kg	< 591	< 611	< 20	< 10	< 10	< 10	< 10	< 10
Dieldrin	ug/kg	< 591	< 611	< 20	< 10	< 10	< 10	< 10	< 10

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below — *ETC Sample No.* | WASTE MANAGEMENT, INC. — *Company* | 705 — *Facility* | See Below — *Sample Point* *Date*

Parameters	Units	Sample Points, Sampling Dates, and ETC Sample No.'s							
		S B310F1 890927 HA1432	S B310F2 890927 HA1433	S G334F1 891001 HA1401	S B339F1 890930 HA1402	S B339F2 890930 HA1403	S B346F1 890930 HA1404	S B346F2 890930 HA1405	S G334F2 891001 HA1406
Endosulfan I	ug/kg	< 296	< 305	< 10	< 7	< 7	< 7	< 6	< 6
Endosulfan II	ug/kg	< 591	< 611	< 20	< 10	< 10	< 10	< 10	< 10
Endosulfan sulfate	ug/kg	< 591	< 611	< 20	< 10	< 10	< 10	< 10	< 10
Endrin	ug/kg	< 591	< 611	< 20	< 10	< 10	128	< 10	< 10
Endrin aldehyde	ug/kg	< 591	< 611	< 20	< 10	< 10	< 10	< 10	< 10
Heptachlor	ug/kg	< 296	< 305	< 10	< 7	< 7	< 7	< 6	< 6
Heptachlor epoxide	ug/kg	< 296	< 305	< 10	< 7	< 7	< 7	< 6	< 6
Toxaphene	ug/kg	<11800	<12200	< 500	< 300	< 300	< 300	< 200	< 300
Groundwater Conventionals									
Phenolics, Total	mg/kg	< 3.4	< 2.5	< 3.5	< 3.6	< 4.6	5.0	< 3.6	< 3.3
Cyanide, Total	mg/kg	< .61	< .60	< .62	.673	< .74	< .68	< .63	< .63
Metals Analysis Data									
Antimony	ug/kg	8100	11000	5700	20000	19000	29000	20000	11000
Arsenic	ug/kg	8500	6800	2700	< 7000	13000	27000	15000	6200
Beryllium	ug/kg	390	500	70	2300	2300	2300	1600	360
Cadmium	ug/kg	660	< 240	800	1700	1000	1600	2500	< 260
Chromium	ug/kg	14000	18000	5000	41000	37000	68000	43000	14000
Copper	ug/kg	58000	30000	6900	26000	29000	33000	20000	16000
Lead	ug/kg	190000	36000	28000	55000	62000	51000	37000	11000
Mercury	ug/kg	440	58	70	140	78	120	180	73
Nickel	ug/kg	24000	31000	6100	22000	30000	38000	24000	21000
Selenium	ug/kg	160	290	< 3100	2500	1900	2700	2200	< 650
Silver	ug/kg	< 1200	< 1200	< 1200	< 1400	< 1400	< 1300	< 1200	< 1300
Thallium	ug/kg	270	350	< 2400	2100	1800	2300	1500	< 1300
Zinc	ug/kg	160000	66000	34000	230000	190000	308000	252000	47000
Field Parameters									
Sample Depth	Feet	8	14	6	6	10	2	6	12
Dry Well	CODE	-	-	-	-	-	-	-	-

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below (*ETC Sample No.*) | WASTE MANAGEMENT, INC. (*Company*) | 705 (*Facility*) | See Below (*Sample Point* / *Date*)

Parameters	Units	Sample Points, Sampling Dates, and ETC Sample No.'s							
		S B310F1 890927 HA1432	S B310F2 890927 HA1433	S G334F1 891001 HA1401	S B339F1 890930 HA1402	S B339F2 890930 HA1403	S B346F1 890930 HA1404	S B346F2 890930 HA1405	S G334F2 891001 HA1406
Aroclors by GC									
Aroclor 1242	ug/kg	< 2960	< 3050	< 100	< 70	< 70	< 70	< 60	< 60
Aroclor 1254	ug/kg	< 5910	< 6110	< 200	< 100	< 100	< 100	< 100	< 100
Aroclor 1260	ug/kg	< 5910	< 6110	< 200	< 100	< 100	< 100	< 100	< 100
Aroclor 1248	ug/kg	< 2960	< 3050	< 100	< 70	< 70	< 70	< 60	< 60
Aroclor 1232	ug/kg	< 2960	< 3050	< 100	< 70	< 70	< 70	< 60	< 60
Aroclor 1221	ug/kg	< 2960	< 3050	< 100	< 70	< 70	< 70	< 60	< 60
Aroclor 1016	ug/kg	< 2960	< 3050	< 100	< 70	< 70	< 70	< 60	< 60
Miscellaneous Parameters									
1,1,1,2-Tetrachloroethane	ug/l	-	-	-	-	-	-	-	-
1,2,3-Trichloropropane	ug/l	-	-	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane	ug/l	-	-	-	-	-	-	-	-
1,2-Dibromoethane	ug/l	-	-	-	-	-	-	-	-
1,4-Dichloro-2-butene	ug/l	-	-	-	-	-	-	-	-
1,4-Dioxane	ug/l	-	-	-	-	-	-	-	-
2-Chloro-1,3-butadiene	ug/l	-	-	-	-	-	-	-	-
2-Hexanone	ug/l	-	-	-	-	-	-	-	-
Acetone	ug/l	-	-	-	-	-	-	-	-
Acetonitrile	ug/l	-	-	-	-	-	-	-	-
Carbon disulfide	ug/l	-	-	-	-	-	-	-	-
Dibromomethane	ug/l	-	-	-	-	-	-	-	-
Ending Sample Depth	Feet	11	16	9	9	12	4	8	15
Ethyl cyanide	ug/l	-	-	-	-	-	-	-	-
Ethyl methacrylate	ug/l	-	-	-	-	-	-	-	-
Iodomethane	ug/l	-	-	-	-	-	-	-	-
Isobutyl alcohol	ug/l	-	-	-	-	-	-	-	-
Methacrylonitrile	ug/l	-	-	-	-	-	-	-	-
Methyl ethyl ketone	ug/l	-	-	-	-	-	-	-	-
Methyl methacrylate	ug/l	-	-	-	-	-	-	-	-
Methyl-iso-butyl ketone	ug/l	-	-	-	-	-	-	-	-
Pentachloroethane	ug/l	-	-	-	-	-	-	-	-
Styrene	ug/l	-	-	-	-	-	-	-	-
Vinyl acetate	ug/l	-	-	-	-	-	-	-	-

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		S B310F1 890927 HA1432	S B310F2 890927 HA1433	S G334F1 891001 HA1401	S B339F1 890930 HA1402	S B339F2 890930 HA1403	S B346F1 890930 HA1404	S B346F2 890930 HA1405	S G334F2 891001 HA1406
m-Xylene	ug/l	-	-	-	-	-	-	-	-
o+p-Xylenes	ug/l	-	-	-	-	-	-	-	-

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below — *ETC Sample No.* | WASTE MANAGEMENT, INC. — *Company* | 705 — *Facility* | See Below — *Sample Point* | *Date*

Parameters	*Units*	S G334F2DUP 891001 HA1407	S B333F1 891001 HA1408	S B333F2 891001 HA1409	S G347F1 891001 HA1410	S G347F2 891001 HA1411	S G349F1 891001 HA1414	S G349F2 891001 HA1415	S B341F1 890930 HA1416
Sample Points, Sampling Dates, and ETC Sample No.'s									
Priority Poll. Volatiles GC/MS									
Acrolein	ug/kg	-	-	-	-	-	-	-	-
Acrylonitrile	ug/kg	-	-	-	-	-	-	-	-
Benzene	ug/kg	< 4	573	25.9	< 4	< 4.40	< 40	154	12700
bis(Chloromethyl)ether	ug/kg	-	-	-	-	-	-	-	-
Bromoform	ug/kg	< 5	< 50	< 5	< 5	< 5	< 50	< 90	< 50
Carbon tetrachloride	ug/kg	< 3	< 30	< 3	< 3	< 3	< 30	< 60	< 30
Chlorobenzene	ug/kg	< 6	< 60.0	< 6	< 6	< 6	< 60	68	44
Chlorodibromomethane	ug/kg	< 3	< 30	< 3	< 3	< 3	< 30	< 60	< 30
Chloroethane	ug/kg	< 10	< 100	< 10	< 10	< 10	< 100	< 200	< 100
2-Chloroethylvinyl ether	ug/kg	-	-	-	-	-	-	-	-
Chloroform	ug/kg	< 2	< 20	< 2	< 2	< 2	< 16.0	< 30	< 20
Dichlorobromomethane	ug/kg	< 2	< 20	< 2	< 2	< 2	< 20	< 40	< 20
Dichlorodifluoromethane	ug/kg	< 10	< 100	< 10	< 10	< 10	< 100	< 200	< 100
1,1-Dichloroethane	ug/kg	< 5	< 50	< 5	< 5	< 5	< 50	< 94.0	< 50
1,2-Dichloroethane	ug/kg	< 3	< 30	< 3	< 3	< 3	< 30	< 60	< 30
1,1-Dichloroethylene	ug/kg	< 3	31.9	13.6	< 3	< 3	< 30	< 60	< 30
1,2-Dichloropropane	ug/kg	< 6	< 60	< 6	< 6	< 6	< 60	< 100	< 60
cis-1,3-Dichloropropylene	ug/kg	< 5	< 50	< 5	< 5	< 5	< 50	< 100	< 50
Ethylbenzene	ug/kg	< 7	88.8	2.4	< 7	< 7	20	1790	< 70
Methyl bromide	ug/kg	< 10	< 100	< 10	< 10	< 10	< 100	< 200	< 100
Methyl chloride	ug/kg	< 10	< 100	< 10	< 10	< 10	< 100	< 200	< 100
Methylene chloride	ug/kg	29.1	141	59.1	25.0	16.0	173	405	81.6
1,1,2,2-Tetrachloroethane	ug/kg	< 7	< 69.0	< 7	< 7	< 7	< 70	< 138	< 70
Tetrachloroethylene	ug/kg	< 4	< 41.0	2.1	< 4	< 4	976	424	< 40
Toluene	ug/kg	< 6	657	23.4	< 6	< 6.00	35	2720	7.1
1,2-Trans-dichloroethylene	ug/kg	< 2	< 20	< 2	< 2	< 2	< 20	< 32.0	< 20
1,1,1-Trichloroethane	ug/kg	< 4	< 40	< 4	< 4	< 4	< 40	< 80	< 40
1,1,2-Trichloroethane	ug/kg	< 5	< 50	< 5	< 5	< 5	< 50	< 100	< 50
Trichloroethylene	ug/kg	< 2	< 19.0	4.21	< 2	< 2	35.8	45.0	< 20
Trichlorofluoromethane	ug/kg	6.3	< 100	2.1	2.9	< 10	14	< 200	< 100
Vinyl chloride	ug/kg	< 10	< 100	< 10	< 10	< 10	< 100	< 200	< 100
trans-1,3-Dichloropropylene	ug/kg	< 10	< 100	< 10	< 10	< 10	< 100	< 200	< 100

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		S G334F2DUP 891001 HA1407	S B333F1 891001 HA1408	S B333F2 891001 HA1409	S G347F1 891001 HA1410	S G347F2 891001 HA1411	S G349F1 891001 HA1414	S G349F2 891001 HA1415	S B341F1 890930 HA1416
Priority Poll. Acids GC/MS									
2-Chlorophenol	ug/kg	< 400	< 4000	< 500	< 400	< 400	< 600	< 400	< 4000
2,4-Dichlorophenol	ug/kg	< 300	< 3000	< 400	< 300	< 300	< 500	< 300	< 3000
2,4-Dimethylphenol	ug/kg	< 300	< 3000	< 400	< 300	< 300	< 500	< 300	< 3000
4,6-Dinitro-o-cresol	ug/kg	< 3000	<30000	< 4000	< 3000	< 3000	< 4000	< 3000	<30000
2,4-Dinitrophenol	ug/kg	< 5000	<50000	< 6000	< 5000	< 5000	< 7000	< 5000	<50000
2-Nitrophenol	ug/kg	< 400	< 5000	< 500	< 500	< 400	< 600	< 500	< 5000
4-Nitrophenol	ug/kg	< 300	< 3000	< 400	< 300	< 300	< 400	< 300	< 3000
p-Chloro-m-cresol	ug/kg	< 400	< 4000	< 500	< 400	< 400	< 500	< 400	< 4000
Pentachlorophenol	ug/kg	< 400	< 5000	< 500	< 500	< 400	< 600	< 500	< 5000
Phenol	ug/kg	312	6090	2090	< 200	< 200	1450	< 200	< 2000
2,4,6-Trichlorophenol	ug/kg	< 300	< 3000	< 400	< 300	< 300	< 500	< 300	< 3000
Priority Poll. B/Ns GC/MS									
Acenaphthene	ug/kg	< 200	3970	867	< 200	< 200	< 300	< 200	3220
Acenaphthylene	ug/kg	< 400	4790	1410	< 400	< 400	< 600	< 400	< 4000
Anthracene	ug/kg	< 200	7330	2130	< 200	< 200	< 300	< 200	5810
Benzo(a)anthracene	ug/kg	< 1000	<10000	4710	< 1000	< 939	< 1000	< 1000	15000
Benzo(a)pyrene	ug/kg	< 300	< 3000	2780	< 300	< 300	< 400	< 300	13000
Benzo(b)fluoranthene	ug/kg	< 600	< 6000	3200	< 600	< 600	< 800	< 600	19200
Benzo(ghi)perylene	ug/kg	< 500	< 5000	653	< 500	< 500	< 700	< 500	< 5000
Benzo(k)fluoranthene	ug/kg	< 300	< 3000	< 400	< 300	< 300	< 400	< 300	2900
bis(2-Chloroethoxy)methane	ug/kg	< 700	< 7000	< 800	< 700	< 600	< 900	< 700	< 7000
bis(2-Chloroethyl) ether	ug/kg	< 700	< 7000	< 900	< 700	< 700	< 1000	< 700	< 7000
bis(2-Chloroisopropyl)ether	ug/kg	< 700	< 7000	< 900	< 700	< 700	< 1000	< 700	< 7000
bis(2-Ethylhexyl)phthalate	ug/kg	< 1000	<10000	460	< 1000	< 1000	< 2000	< 1000	<10000
4-Bromophenyl phenyl ether	ug/kg	< 200	< 2000	< 300	< 200	< 200	< 300	< 200	< 2000
Butyl benzyl phthalate	ug/kg	< 1000	<10000	< 2000	< 1000	< 1000	< 2000	< 1000	<10000
2-Chloronaphthalene	ug/kg	< 200	< 2000	< 300	< 200	< 200	< 300	< 200	< 2000
4-Chlorophenyl phenyl ether	ug/kg	< 500	< 5000	< 600	< 500	< 500	< 700	< 500	< 5000
Chrysene	ug/kg	< 300	< 3000	2440	< 300	379	< 400	< 300	16400
Dibenzo(a,h)anthracene	ug/kg	< 1000	<10000	430	< 1000	< 1000	< 2000	< 1000	<10000
1,2-Dichlorobenzene	ug/kg	< 200	< 2000	< 300	< 200	< 200	< 300	< 200	< 2000
1,3-Dichlorobenzene	ug/kg	< 200	< 2000	< 300	< 200	< 200	< 300	< 200	< 2000

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below — *ETC Sample No.* | WASTE MANAGEMENT, INC. — *Company* | 705 — *Facility* | See Below — *Sample Point* | *Date*

Parameters	Units	S G334F2DUP 891001 HA1407	S B333F1 891001 HA1408	S B333F2 891001 HA1409	S G347F1 891001 HA1410	S G347F2 891001 HA1411	S G349F1 891001 HA1414	S G349F2 891001 HA1415	S B341F1 890930 HA1416
		Sample Points, Sampling Dates, and ETC Sample No.'s							
1,4-Dichlorobenzene	ug/kg	< 500	< 6000	< 700	< 600	< 500	< 800	< 600	< 6000
3,3'-Dichlorobenzidine	ug/kg	< 2000	<20000	< 3000	< 2000	< 2000	< 3000	< 2000	<20000
Diethyl phthalate	ug/kg	< 1000	<10000	< 2000	< 1000	< 1000	< 2000	< 1000	<10000
Dimethyl phthalate	ug/kg	< 1000	<10000	< 2000	< 1000	< 1000	< 2000	< 1000	<10000
Di-n-butyl phthalate	ug/kg	550	<10000	< 2000	< 1000	< 1000	< 2000	< 1000	<10000
2,4-Dinitrotoluene	ug/kg	< 700	< 7000	< 900	< 700	< 700	< 1000	< 700	< 7000
2,6-Dinitrotoluene	ug/kg	< 200	< 2000	< 300	< 200	< 200	< 300	< 200	< 2000
Di-n-octyl phthalate	ug/kg	< 1000	<10000	< 2000	< 1000	< 1000	< 2000	< 1000	<10000
Fluoranthene	ug/kg	< 300	9430	3970	< 300	903	576	< 300	31200
Fluorene	ug/kg	< 200	9210	2180	< 200	< 200	< 300	< 200	3710
Hexachlorobenzene	ug/kg	< 200	< 2000	< 300	< 200	< 200	2020	< 200	< 2000
Hexachlorobutadiene	ug/kg	< 100	< 1000	< 100	< 100	< 100	< 200	< 100	< 1000
Hexachlorocyclopentadiene	ug/kg	< 1000	<10000	< 2000	< 1000	< 1000	< 2000	< 1000	<10000
Hexachloroethane	ug/kg	< 200	< 2000	< 200	< 200	< 200	< 300	< 200	< 2000
Indeno(1,2,3-c,d)pyrene	ug/kg	< 600	< 6000	460	< 600	< 600	< 800	< 600	3300
Isophorone	ug/kg	< 300	< 3000	< 300	< 300	< 300	< 400	< 300	< 3000
Naphthalene	ug/kg	< 200	20300	6740	< 200	< 200	534	3140	2820
Nitrobenzene	ug/kg	< 200	< 2000	< 300	< 200	< 200	< 300	< 200	< 2000
N-Nitrosodimethylamine	ug/kg	< 1000	<10000	< 2000	< 1000	< 1000	< 2000	< 1000	<10000
N-Nitrosodi-n-propylamine	ug/kg	< 1000	<10000	< 2000	< 1000	< 1000	< 2000	< 1000	<10000
N-Nitrosodiphenylamine	ug/kg	< 200	< 2000	< 300	< 200	< 200	< 300	< 200	< 2000
Phenanthrene	ug/kg	< 700	27100	7720	< 700	590	290	< 700	22400
Pyrene	ug/kg	< 200	12900	4650	< 200	1030	< 300	< 200	28400
1,2,4-Trichlorobenzene	ug/kg	< 200	< 2000	< 300	< 200	< 200	< 300	< 200	< 2000
Priority Poll. Pest/PCBs GC/MS									
Aldrin	ug/kg	< 6	< 6	< 7	< 6	< 6	< 9	< 6	< 6
Alpha-BHC	ug/kg	< 6	< 6	< 7	< 6	< 6	< 9	< 6	< 6
Beta-BHC	ug/kg	< 6	< 6	< 7	< 6	< 6	< 9	< 6	< 6
Gamma-BHC	ug/kg	< 6	< 6	< 7	< 6	< 6	< 9	< 6	< 6
Delta-BHC	ug/kg	< 6	< 6	< 7	< 6	< 6	< 9	< 6	< 6
Chlordane	ug/kg	< 100	< 100	< 100	< 100	< 100	< 200	< 100	< 100
4,4'-DDT	ug/kg	< 10	< 10	< 10	< 10	< 10	< 20	< 10	< 10
4,4'-DDE	ug/kg	< 10	< 10	< 10	< 10	< 10	< 20	< 10	22.3
4,4'-DDD	ug/kg	< 10	< 10	< 10	< 10	< 10	< 20	< 10	< 10
Dieldrin	ug/kg	< 10	< 10	< 10	< 10	< 10	< 20	< 10	< 10

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below — *ETC Sample No.* | WASTE MANAGEMENT, INC. — *Company* | 705 — *Facility* | See Below — *Sample Point* | *Date*

Parameters	Units	S G334F2DUP 891001 HA1407	S B333F1 891001 HA1408	S B333F2 891001 HA1409	S G347F1 891001 HA1410	S G347F2 891001 HA1411	S G349F1 891001 HA1414	S G349F2 891001 HA1415	S B341F1 890930 HA1416
Endosulfan I	ug/kg	< 6	< 6	< 7	< 6	< 6	< 9	< 6	< 6
Endosulfan II	ug/kg	< 10	< 10	< 10	< 10	< 10	< 20	< 10	< 10
Endosulfan sulfate	ug/kg	< 10	< 10	< 10	< 10	< 10	< 20	< 10	< 10
Endrin	ug/kg	< 10	< 10	< 10	< 10	< 10	< 20	< 10	< 10
Endrin aldehyde	ug/kg	< 10	< 10	< 10	< 10	< 10	< 20	< 10	< 10
Heptachlor	ug/kg	< 6	< 6	< 7	< 6	< 6	< 9	< 6	< 6
Heptachlor epoxide	ug/kg	< 6	< 6	< 7	< 6	< 6	< 9	< 6	< 6
Toxaphene	ug/kg	< 200	< 200	< 300	< 200	< 200	< 300	< 200	< 300
Groundwater Conventionals									
Phenolics, Total	mg/kg	< 3.0	4.4	< 4.9	< 3.6	< 3.2	< 5.0	< 3.9	< 3.0
Cyanide, Total	mg/kg	< .61	< .62	< .75	< .61	< .60	< .85	< .66	< .63
Metals Analysis Data									
Antimony	ug/kg	< 7300	18000	4800	9200	7100	5500	14000	21000
Arsenic	ug/kg	5200	9900	8000	7500	3700	13000	30000	27000
Beryllium	ug/kg	39	810	520	260	50	1600	2000	2000
Cadmium	ug/kg	< 240	590	190	< 250	< 240	870	2200	4200
Chromium	ug/kg	3900	61000	16000	10000	3400	60000	47000	58000
Copper	ug/kg	3700	51000	13000	25000	4800	22000	22000	133000
Lead	ug/kg	2500	130000	77000	24000	55000	75000	32000	470000
Mercury	ug/kg	< 97	280	71	70	< 96	160	72	490
Nickel	ug/kg	4900	33000	13000	23000	4000	28000	27000	25000
Selenium	ug/kg	< 610	1700	540	130	< 600	4200	2700	2100
Silver	ug/kg	< 1200	< 1200	< 1300	< 1300	< 1200	590	270	< 1300
Thallium	ug/kg	< 1200	580	340	380	< 1200	880	3100	1500
Zinc	ug/kg	24000	244000	99000	52000	38000	210000	250000	493000
Field Parameters									
Sample Depth	Feet	12	6	12	4	10	4	8	4
Dry Well	CODE	-	-	-	-	-	-	-	-

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		S G334F2DUP 891001 HA1407	S B333F1 891001 HA1408	S B333F2 891001 HA1409	S G347F1 891001 HA1410	S G347F2 891001 HA1411	S G349F1 891001 HA1414	S G349F2 891001 HA1415	S B341F1 890930 HA1416
Aroclors by GC									
Aroclor 1242	ug/kg	< 60	< 60	< 70	< 60	< 60	< 90	< 60	< 60
Aroclor 1254	ug/kg	< 100	< 100	< 100	< 100	< 100	< 200	< 100	< 100
Aroclor 1260	ug/kg	< 100	< 100	< 100	< 100	< 100	< 200	< 100	< 100
Aroclor 1248	ug/kg	< 60	< 60	< 70	< 60	< 60	< 90	< 60	< 60
Aroclor 1232	ug/kg	< 60	< 60	< 70	< 60	< 60	< 90	< 60	< 60
Aroclor 1221	ug/kg	< 60	< 60	< 70	< 60	< 60	< 90	< 60	< 60
Aroclor 1016	ug/kg	< 60	< 60	< 70	< 60	< 60	< 90	< 60	< 60
Miscellaneous Parameters									
1,1,1,2-Tetrachloroethane	ug/l	-	-	-	-	-	-	-	-
1,2,3-Trichloropropane	ug/l	-	-	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane	ug/l	-	-	-	-	-	-	-	-
1,2-Dibromoethane	ug/l	-	-	-	-	-	-	-	-
1,4-Dichloro-2-butene	ug/l	-	-	-	-	-	-	-	-
1,4-Dioxane	ug/l	-	-	-	-	-	-	-	-
2-Chloro-1,3-butadiene	ug/l	-	-	-	-	-	-	-	-
2-Hexanone	ug/l	-	-	-	-	-	-	-	-
Acetone	ug/l	-	-	-	-	-	-	-	-
Acetonitrile	ug/l	-	-	-	-	-	-	-	-
Carbon disulfide	ug/l	-	-	-	-	-	-	-	-
Dibromomethane	ug/l	-	-	-	-	-	-	-	-
Ending Sample Depth	Feet	15	8	14	6	12	6	10	6
Ethyl cyanide	ug/l	-	-	-	-	-	-	-	-
Ethyl methacrylate	ug/l	-	-	-	-	-	-	-	-
Iodomethane	ug/l	-	-	-	-	-	-	-	-
Isobutyl alcohol	ug/l	-	-	-	-	-	-	-	-
Methacrylonitrile	ug/l	-	-	-	-	-	-	-	-
Methyl ethyl ketone	ug/l	-	-	-	-	-	-	-	-
Methyl methacrylate	ug/l	-	-	-	-	-	-	-	-
Methyl-iso-butyl ketone	ug/l	-	-	-	-	-	-	-	-
Pentachloroethane	ug/l	-	-	-	-	-	-	-	-
Styrene	ug/l	-	-	-	-	-	-	-	-
Vinyl acetate	ug/l	-	-	-	-	-	-	-	-

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below — *ETC Sample No.* | WASTE MANAGEMENT, INC. — *Company* | 705 — *Facility* | See Below — *Sample Point* | *Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		S G334F2DUP 891001 HA1407	S B333F1 891001 HA1408	S B333F2 891001 HA1409	S G347F1 891001 HA1410	S G347F2 891001 HA1411	S G349F1 891001 HA1414	S G349F2 891001 HA1415	S B341F1 890930 HA1416
m-Xylene	ug/l	-	-	-	-	-	-	-	-
o+p-Xylenes	ug/l	-	-	-	-	-	-	-	-

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		S B341F2 890930 HA1417	S G348F1 890930 HA1420	S G348F2 890930 HA1421	S B340F1 890930 HA1422	S B340F2 890930 HA1423	S B345F1 890930 HA1428	S B345F2 890930 HA1429	S B304F1 891005 HA1485
Priority Poll. Volatiles GC/MS									
Acrolein	ug/kg	-	-	-	-	-	-	-	-
Acrylonitrile	ug/kg	-	-	-	-	-	-	-	-
Benzene	ug/kg	250	< 4.40	6.10	3.7	60	31.4	1.5	4.2
bis(Chloromethyl)ether	ug/kg	-	-	-	-	-	-	-	-
Bromoform	ug/kg	< 90	< 5	< 5	< 5	< 200	< 9	< 5	< 5
Carbon tetrachloride	ug/kg	< 60	< 3	< 3	< 3	< 100	< 6	< 3	< 3
Chlorobenzene	ug/kg	< 100	< 6	15.8	< 6	< 300	63.0	< 6.00	< 6
Chlorodibromomethane	ug/kg	< 60	< 3	< 3	< 3	< 200	< 6	< 3	< 3
Chloroethane	ug/kg	< 200	< 10	< 10	< 10	< 500	< 20	< 10	< 10
2-Chloroethylvinyl ether	ug/kg	-	-	-	-	-	-	-	-
Chloroform	ug/kg	< 30	1.79	< 2	< 2	< 80	< 3	< 2	< 2
Dichlorobromomethane	ug/kg	< 40	< 2	< 2	< 2	< 100	< 4	< 2	< 2
Dichlorodifluoromethane	ug/kg	< 200	< 10	< 10	< 10	< 500	< 20	< 10	< 10
1,1-Dichloroethane	ug/kg	< 90	< 5	1.8	< 5	< 200	< 9	< 5	< 5
1,2-Dichloroethane	ug/kg	< 60	5.45	2.1	< 3	< 100	12.7	< 2.80	< 3
1,1-Dichloroethylene	ug/kg	< 60	10.8	2.0	2.5	227	< 6	< 3	< 3
1,2-Dichloropropane	ug/kg	< 100	< 6	< 6	< 6	< 300	< 10	< 6	< 6
cis-1,3-Dichloropropylene	ug/kg	< 100	< 5	< 5	< 5	< 300	< 10	< 5	< 5
Ethylbenzene	ug/kg	< 100	< 7	11.9	< 7	< 400	13	1.4	< 7
Methyl bromide	ug/kg	< 200	< 10	< 10	< 10	< 500	< 20	< 10	< 10
Methyl chloride	ug/kg	< 200	< 10	< 10	< 10.0	< 500	< 20.0	< 10	< 10
Methylene chloride	ug/kg	118	15.7	11.8	30.9	472	59.7	18.6	77.8
1,1,2,2-Tetrachloroethane	ug/kg	< 100	< 7	< 7	< 7	< 300	< 10	< 7	< 7
Tetrachloroethylene	ug/kg	< 80	< 4.10	< 4.10	< 4	< 200	< 8	< 4	< 4
Toluene	ug/kg	94	1.5	256	1.8	180	191	13.2	2.8
1,2-Trans-dichloroethylene	ug/kg	< 30	< 2	< 2	< 2	< 80	< 3	< 2	< 2
1,1,1-Trichloroethane	ug/kg	< 80	5.13	< 3.80	< 4	< 200	< 8	< 4	< 4
1,1,2-Trichloroethane	ug/kg	< 100	3.6	< 5	< 5	< 300	< 10	< 5.00	< 5
Trichloroethylene	ug/kg	< 40	2.08	19.0	< 2	< 100	< 4	< 2	< 2
Trichlorofluoromethane	ug/kg	< 200	< 10.0	< 10.0	1.2	< 500	< 20	1.8	5.0
Vinyl chloride	ug/kg	< 200	< 10	< 10	< 10	< 500	< 20	< 10	< 10
trans-1,3-Dichloropropylene	ug/kg	< 200	< 10	< 10	< 10	< 500	< 20	< 10	< 10

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		S B341F2 890930 HA1417	S G348F1 890930 HA1420	S G348F2 890930 HA1421	S B340F1 890930 HA1422	S B340F2 890930 HA1423	S B345F1 890930 HA1428	S B345F2 890930 HA1429	S B304F1 891005 HA1485
Priority Poll. Acids GC/MS									
2-Chlorophenol	ug/kg	< 500	< 500	< 500	< 4000	< 4000	21500	6170	< 400
2,4-Dichlorophenol	ug/kg	210	1930	< 400	< 3000	< 3000	26600	1130	< 300
2,4-Dimethylphenol	ug/kg	< 400	< 400	< 400	< 3000	< 3000	< 400	< 400	< 300
4,6-Dinitro-o-cresol	ug/kg	< 3000	< 4000	< 3000	<30000	<30000	< 3000	< 4000	< 3000
2,4-Dinitrophenol	ug/kg	< 6000	< 6000	< 6000	<50000	<50000	< 6000	< 6000	< 5000
2-Nitrophenol	ug/kg	< 500	< 600	< 500	< 4000	< 4000	< 500	< 500	< 500
4-Nitrophenol	ug/kg	< 300	< 400	< 300	< 3000	< 3000	< 300	< 400	< 300
p-Chloro-m-cresol	ug/kg	< 400	< 500	< 400	< 4000	< 4000	< 400	< 500	< 400
Pentachlorophenol	ug/kg	< 500	< 600	< 500	< 4000	< 4000	< 500	< 500	< 500
Phenol	ug/kg	< 200	< 200	< 200	32600	7060	4390	< 200	150
2,4,6-Trichlorophenol	ug/kg	< 400	< 400	< 400	< 3000	< 3000	< 400	< 400	< 300
Priority Poll. B/Ns GC/MS									
Acenaphthene	ug/kg	437	< 300	< 300	< 2000	< 2000	< 300	< 300	160
Acenaphthylene	ug/kg	< 500	< 500	< 500	< 4000	< 4000	< 500	< 500	< 400
Anthracene	ug/kg	488	< 300	< 300	< 2000	1100	< 300	< 300	190
Benzo(a)anthracene	ug/kg	1170	< 1000	< 1000	< 9000	< 9700	< 1000	< 1000	390
Benzo(a)pyrene	ug/kg	851	< 400	< 400	< 3000	1900	< 300	< 400	< 300
Benzo(b)fluoranthene	ug/kg	1120	< 700	< 700	< 6000	2600	< 700	< 700	< 600
Benzo(ghi)perylene	ug/kg	< 600	< 600	< 600	< 5000	< 5000	< 600	< 600	< 500
Benzo(k)fluoranthene	ug/kg	< 400	< 400	< 400	< 3000	< 3000	< 300	< 400	< 300
bis(2-Chloroethoxy)methane	ug/kg	< 700	< 800	< 800	< 6000	< 7000	< 700	< 800	< 700
bis(2-Chloroethyl) ether	ug/kg	< 800	< 900	< 800	< 7000	< 7000	< 800	< 900	< 700
bis(2-Chloroisopropyl)ether	ug/kg	< 800	< 900	< 800	< 7000	< 7000	< 800	< 900	< 700
bis(2-Ethylhexyl)phthalate	ug/kg	300	990	< 1000	<10000	<10000	9370	210	1200
4-Bromophenyl phenyl ether	ug/kg	< 300	< 300	< 300	< 2000	< 2000	< 300	< 300	< 200
Butyl benzyl phthalate	ug/kg	< 1000	< 2000	< 1000	<10000	<10000	< 1000	< 2000	< 1000
2-Chloronaphthalene	ug/kg	< 300	< 300	< 300	< 2000	< 2000	< 300	< 300	< 200
4-Chlorophenyl phenyl ether	ug/kg	< 600	< 600	< 600	< 5000	< 5000	< 600	< 600	< 500
Chrysene	ug/kg	870	< 386	< 400	< 3000	< 3110	< 300	< 400	392
Dibenzo(a,h)anthracene	ug/kg	< 1000	< 2000	< 1000	<10000	<10000	< 1000	< 2000	< 1000
1,2-Dichlorobenzene	ug/kg	< 300	< 300	< 300	< 2000	< 2000	< 300	< 300	< 200
1,3-Dichlorobenzene	ug/kg	< 300	< 300	< 300	< 2000	< 2000	< 300	< 300	< 200

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below				See Below	
ETC Sample No.	WASTE MANAGEMENT, INC.	*Company*	705 *Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		S B341F2 890930 HA1417	S G348F1 890930 HA1420	S G348F2 890930 HA1421	S B340F1 890930 HA1422	S B340F2 890930 HA1423	S B345F1 890930 HA1428	S B345F2 890930 HA1429	S B304F1 891005 HA1485
1,4-Dichlorobenzene	ug/kg	< 600	< 700	< 600	< 5000	< 5000	< 600	< 700	< 600
3,3'-Dichlorobenzidine	ug/kg	< 2000	< 3000	< 2000	<20000	<20000	< 2000	< 2000	< 2000
Diethyl phthalate	ug/kg	< 1000	< 2000	< 1000	<10000	<10000	< 1000	< 2000	< 1000
Dimethyl phthalate	ug/kg	< 1000	< 2000	< 1000	<10000	<10000	< 1000	< 2000	< 1000
Di-n-butyl phthalate	ug/kg	280	950	< 1000	<10000	<10000	< 1000	< 2000	530
2,4-Dinitrotoluene	ug/kg	< 800	< 900	< 800	< 7000	< 7000	< 800	< 900	< 700
2,6-Dinitrotoluene	ug/kg	< 300	< 300	< 300	< 2000	< 2000	< 300	< 300	< 200
Di-n-octyl phthalate	ug/kg	< 1000	< 2000	< 1000	<10000	<10000	< 1000	< 2000	< 1000
Fluoranthene	ug/kg	1850	210	594	< 3000	5060	< 300	< 300	731
Fluorene	ug/kg	373	< 300	< 300	< 2000	< 2000	< 300	< 300	190
Hexachlorobenzene	ug/kg	< 300	7460	< 300	< 2000	< 2000	< 300	< 300	< 200
Hexachlorobutadiene	ug/kg	< 100	437	< 100	< 1000	< 1000	< 100	< 100	< 100
Hexachlorocyclopentadiene	ug/kg	< 1000	< 2000	< 1000	<10000	<10000	< 1000	< 2000	< 1000
Hexachloroethane	ug/kg	< 200	< 200	< 200	< 2000	< 2000	< 200	< 200	< 200
Indeno(1,2,3-c,d)pyrene	ug/kg	< 700	< 700	< 700	< 6000	< 6000	< 600	< 700	< 600
Isophorone	ug/kg	< 300	< 300	758	< 3000	< 3000	< 300	< 300	< 300
Naphthalene	ug/kg	599	< 200	649	2870	< 2000	< 200	< 200	264
Nitrobenzene	ug/kg	< 300	< 300	< 300	< 2000	< 2000	777	< 300	< 200
N-Nitrosodimethylamine	ug/kg	< 1000	< 2000	< 1000	<10000	<10000	< 1000	< 2000	< 1000
N-Nitrosodi-n-propylamine	ug/kg	< 1000	< 2000	< 1000	<10000	<10000	< 1000	< 2000	< 1270
N-Nitrosodiphenylamine	ug/kg	< 300	< 300	< 300	< 2000	< 2000	< 300	< 300	< 200
Phenanthrene	ug/kg	1920	430	490	1800	4200	< 700	< 800	806
Pyrene	ug/kg	1560	230	< 300	< 2000	5100	< 300	< 300	584
1,2,4-Trichlorobenzene	ug/kg	< 300	1270	< 300	< 2000	< 2000	< 300	< 300	< 200
Priority Poll. Pest/PCBs GC/MS									
Aldrin	ug/kg	< 7	< 800	< 700	< 6	< 6	< 7	< 8	< 6
Alpha-BHC	ug/kg	< 7	< 800	< 700	< 6	< 6	< 7	< 8	< 6
Beta-BHC	ug/kg	< 7	< 800	< 700	< 6	< 6	< 7	< 8	< 6
Gamma-BHC	ug/kg	< 7	< 800	< 700	< 6	< 6	< 7	< 8	< 6
Delta-BHC	ug/kg	< 7	< 800	< 700	< 6	< 6	< 7	< 8	< 6
Chlordane	ug/kg	< 100	<20000	<10000	< 100	< 100	< 100	< 200	< 100
4,4'-DDT	ug/kg	< 10	< 2000	< 1000	< 10	< 10	< 10	< 20	< 10
4,4'-DDE	ug/kg	< 10	< 2000	< 1000	< 10	< 10	< 10	< 20	< 10
4,4'-DDD	ug/kg	< 10	< 2000	< 1000	< 10	< 10	< 10	< 20	< 10
Dieldrin	ug/kg	< 10	< 2000	< 1000	< 10	< 10	< 10	< 20	< 10

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below — *ETC Sample No.* | WASTE MANAGEMENT, INC. — *Company* | 705 — *Facility* | See Below — *Sample Point* | *Date*

Parameters	Units	S B341F2 890930 HA1417	S G348F1 890930 HA1420	S G348F2 890930 HA1421	S B340F1 890930 HA1422	S B340F2 890930 HA1423	S B345F1 890930 HA1428	S B345F2 890930 HA1429	S B304F1 891005 HA1485
Endosulfan I	ug/kg	< 7	< 800	< 700	< 6	< 6	< 7	< 8	< 6
Endosulfan II	ug/kg	< 10	< 2000	< 1000	< 10	< 10	< 10	< 20	< 10
Endosulfan sulfate	ug/kg	< 10	< 2000	< 1000	< 10	< 10	< 10	< 20	< 10
Endrin	ug/kg	< 10	< 2000	< 1000	< 10	< 10	< 10	< 20	< 10
Endrin aldehyde	ug/kg	< 10	< 2000	< 1000	< 10	< 10	< 10	< 20	< 10
Heptachlor	ug/kg	< 7	< 800	< 700	< 6	< 6	< 7	< 8	< 6
Heptachlor epoxide	ug/kg	< 7	< 800	< 700	< 6	< 6	< 7	< 8	< 6
Toxaphene	ug/kg	< 300	<30000	<30000	< 200	< 200	< 300	< 300	< 300
Groundwater Conventionals									
Phenolics, Total	mg/kg	< 3.6	< 2.8	< 4.6	6.0	6.2	33.0	4.7	< 3.1
Cyanide, Total	mg/kg	< .66	< .59	< .72	< .60	< .64	< .72	< .68	< .64
Metals Analysis Data									
Antimony	ug/kg	22000	1800	20000	12000	5600	11000	30000	7600
Arsenic	ug/kg	26000	1900	31000	31000	25000	19000	31000	6700
Beryllium	ug/kg	2000	50	3000	2000	1400	3000	2600	610
Cadmium	ug/kg	4000	94	6300	4300	3800	6600	3600	1400
Chromium	ug/kg	52000	4200	52000	51000	45000	76000	79000	18000
Copper	ug/kg	26000	5100	21000	34000	32000	47000	31000	29000
Lead	ug/kg	360000	9500	89000	41000	49000	57000	46000	18000
Mercury	ug/kg	140	< 96	82	140	130	82	< 110	150
Nickel	ug/kg	34000	5300	22000	30000	18000	40000	44000	31000
Selenium	ug/kg	2800	< 600	3800	2600	3300	1700	4200	< 640
Silver	ug/kg	< 1400	< 1200	< 1500	1900	3100	3700	470	1400
Thallium	ug/kg	2500	< 1200	3400	2000	2200	1700	3800	390
Zinc	ug/kg	656000	29000	428000	210000	190000	425000	476000	46000
Field Parameters									
Sample Depth	Feet	10	4	10	4	8	4	10	8
Dry Well	CODE	-	-	-	-	-	-	-	-

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		S B341F2 890930 HA1417	S G348F1 890930 HA1420	S G348F2 890930 HA1421	S B340F1 890930 HA1422	S B340F2 890930 HA1423	S B345F1 890930 HA1428	S B345F2 890930 HA1429	S B304F1 891005 HA1485
Aroclors by GC									
Aroclor 1242	ug/kg	< 70	< 8000	< 7000	< 60	< 60	< 70	< 80	< 60
Aroclor 1254	ug/kg	< 100	<20000	<14100	< 100	< 100	< 100	< 200	< 100
Aroclor 1260	ug/kg	< 100	<20000	<10000	< 100	< 100	< 100	< 200	< 100
Aroclor 1248	ug/kg	< 70	< 8000	< 7040	< 60	< 60	< 70	< 80	< 60
Aroclor 1232	ug/kg	< 70	< 8000	< 7000	< 60	< 60	< 70	< 80	< 60
Aroclor 1221	ug/kg	< 70	< 8000	< 7000	< 60	< 60	< 70	< 80	< 60
Aroclor 1016	ug/kg	< 70	< 8000	< 7000	< 60	< 60	< 70	< 80	< 60
Miscellaneous Parameters									
1,1,1,2-Tetrachloroethane	ug/l	-	-	-	-	-	-	-	-
1,2,3-Trichloropropane	ug/l	-	-	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane	ug/l	-	-	-	-	-	-	-	-
1,2-Dibromoethane	ug/l	-	-	-	-	-	-	-	-
1,4-Dichloro-2-butene	ug/l	-	-	-	-	-	-	-	-
1,4-Dioxane	ug/l	-	-	-	-	-	-	-	-
2-Chloro-1,3-butadiene	ug/l	-	-	-	-	-	-	-	-
2-Hexanone	ug/l	-	-	-	-	-	-	-	-
Acetone	ug/l	-	-	-	-	-	-	-	-
Acetonitrile	ug/l	-	-	-	-	-	-	-	-
Carbon disulfide	ug/l	-	-	-	-	-	-	-	-
Dibromomethane	ug/l	-	-	-	-	-	-	-	-
Ending Sample Depth	Feet	12	6	12	6	10	6	12	11
Ethyl cyanide	ug/l	-	-	-	-	-	-	-	-
Ethyl methacrylate	ug/l	-	-	-	-	-	-	-	-
Iodomethane	ug/l	-	-	-	-	-	-	-	-
Isobutyl alcohol	ug/l	-	-	-	-	-	-	-	-
Methacrylonitrile	ug/l	-	-	-	-	-	-	-	-
Methyl ethyl ketone	ug/l	-	-	-	-	-	-	-	-
Methyl methacrylate	ug/l	-	-	-	-	-	-	-	-
Methyl-iso-butyl ketone	ug/l	-	-	-	-	-	-	-	-
Pentachloroethane	ug/l	-	-	-	-	-	-	-	-
Styrene	ug/l	-	-	-	-	-	-	-	-
Vinyl acetate	ug/l	-	-	-	-	-	-	-	-

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below ETC Sample No.	Company	Facility	See Below Sample Point	Date
	WASTE MANAGEMENT, INC.	705		

Parameters	Units	S B341F2 890930 HA1417	S G348F1 890930 HA1420	S G348F2 890930 HA1421	S B340F1 890930 HA1422	S B340F2 890930 HA1423	S B345F1 890930 HA1428	S B345F2 890930 HA1429	S B304F1 891005 HA1485
		Sample Points, Sampling Dates, and ETC Sample No.'s							
m-Xylene	ug/l	-	-	-	-	-	-	-	-
o+p-Xylenes	ug/l	-	-	-	-	-	-	-	-

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below — *ETC Sample No.* | WASTE MANAGEMENT, INC. — *Company* | 705 — *Facility* | See Below — *Sample Point* | *Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		S B304F2 891005 HA1486	S G330F1 891005 HA1487	S G330F2 891005 HA1488	S G337F1 891006 HA1465	S P319F1 891005 HA1471	S G337F2 891006 HA1475	S G337F2DUP 891006 HA1476	S P319F2 891009 HA1472
Priority Poll. Volatiles GC/MS									
Acrolein	ug/kg	-	-	-	-	-	-	-	-
Acrylonitrile	ug/kg	-	-	-	-	-	-	-	-
Benzene	ug/kg	28.7	10	115	2.6	1360	< 40	1.1	146
bis(Chloromethyl)ether	ug/kg	-	-	-	-	-	-	-	-
Bromoform	ug/kg	< 5	< 50	< 50	< 5	< 50	< 50	< 5	< 20
Carbon tetrachloride	ug/kg	< 3	< 30	< 30	< 3	< 30	< 30	< 3	< 10
Chlorobenzene	ug/kg	< 6	< 60	< 60	< 6	410	< 60	< 6	268
Chlorodibromomethane	ug/kg	< 3	< 30	< 30	< 3	< 30	< 30	< 3	< 20
Chloroethane	ug/kg	< 10	< 100	< 100	< 10	< 100	< 100	< 10	< 50
2-Chloroethylvinyl ether	ug/kg	-	-	-	-	-	-	-	-
Chloroform	ug/kg	< 2	< 20	< 20	< 2	< 20	< 20	< 2	< 8
Dichlorobromomethane	ug/kg	< 2	< 20	< 20	< 2	< 20	< 20	< 2	< 10
Dichlorodifluoromethane	ug/kg	< 10	< 100	< 100	< 10	< 100	< 100	< 10	< 50
1,1-Dichloroethane	ug/kg	< 4.70	< 47.0	< 50	< 5	< 50	< 50	< 5	< 20
1,2-Dichloroethane	ug/kg	< 3	< 30	< 30	< 3	< 30	< 30	< 3	< 10
1,1-Dichloroethylene	ug/kg	< 3	62.2	131	< 3	33.8	< 30	< 3	< 10
1,2-Dichloropropane	ug/kg	< 6	< 60	< 60	< 6	< 60	< 60	< 6	< 30
cis-1,3-Dichloropropylene	ug/kg	< 5	< 50	< 50	< 5	< 50	< 50	< 5	< 30
Ethylbenzene	ug/kg	< 7	< 70	16	< 7	25	< 70	1.2	37.5
Methyl bromide	ug/kg	< 10	< 100	< 100	< 10	< 100	< 100	< 10	< 50
Methyl chloride	ug/kg	< 10	< 100	< 100	< 10	< 100	< 100	< 10	< 50
Methylene chloride	ug/kg	27.3	144	391	29.1	1160	1060	55.3	136
1,1,2,2-Tetrachloroethane	ug/kg	< 7	< 70	< 70	< 7	< 70	< 70	< 7	< 30
Tetrachloroethylene	ug/kg	< 4	< 40	< 40	< 4	< 40	< 40	< 4	< 20
Toluene	ug/kg	1.8	< 60	59	1.4	421	< 60.0	3.1	155
1,2-Trans-dichloroethylene	ug/kg	< 2	< 20	18.6	< 2	< 20	< 20	2.23	< 8
1,1,1-Trichloroethane	ug/kg	< 4	< 40	< 40	< 4	< 40	< 40	< 4	< 20
1,1,2-Trichloroethane	ug/kg	< 5	< 50	< 50	< 5	< 50	< 50	< 5	< 30
Trichloroethylene	ug/kg	< 2	< 20	21.1	< 2	< 20	< 20	4.47	< 10
Trichlorofluoromethane	ug/kg	< 10	< 100	26	1.5	21	31	3.2	< 50
Vinyl chloride	ug/kg	< 10	430	516	< 10	218	< 100	< 10	< 50
trans-1,3-Dichloropropylene	ug/kg	< 10	< 100	< 100	< 10	< 100	< 100	< 10	< 50

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

WASTE MANAGEMENT, INC. 705

See Below *ETC Sample No.* | *Company* | *Facility* | See Below *Sample Point* | *Date*

Parameters	*Units*	S B304F2 891005 HA1486	S G330F1 891005 HA1487	S G330F2 891005 HA1488	S G337F1 891006 HA1465	S P319F1 891005 HA1471	S G337F2 891006 HA1475	S G337F2DUP 891006 HA1476	S P319F2 891009 HA1472
Sample Points, Sampling Dates, and ETC Sample No.'s									
Priority Poll. Acids GC/MS									
2-Chlorophenol	ug/kg	< 400	180	210	< 4000	< 400	< 400	< 400	< 5000
2,4-Dichlorophenol	ug/kg	< 400	< 400	358	< 3000	< 300	< 300	< 300	< 4000
2,4-Dimethylphenol	ug/kg	< 400	< 400	< 357	< 3000	< 300	< 300	< 300	< 4000
4,6-Dinitro-o-cresol	ug/kg	< 3000	< 3000	< 3000	<30000	< 3000	< 3000	< 3000	<30000
2,4-Dinitrophenol	ug/kg	< 6000	< 6000	< 6000	<50000	< 5000	< 5000	< 5000	<60000
2-Nitrophenol	ug/kg	< 500	< 500	< 500	< 4000	< 400	< 400	< 400	< 5000
4-Nitrophenol	ug/kg	< 325	< 335	< 317	< 3000	< 300	< 300	< 300	< 3000
p-Chloro-m-cresol	ug/kg	< 400	< 400	< 400	< 4000	< 360	< 351	< 339	< 4000
Pentachlorophenol	ug/kg	< 500	< 500	< 500	< 4000	< 400	< 400	< 400	< 5000
Phenol	ug/kg	< 200	< 200	160	< 2000	< 200	< 200	< 200	< 2000
2,4,6-Trichlorophenol	ug/kg	< 400	< 400	< 400	< 3000	< 300	< 300	< 300	< 4000
Priority Poll. B/Ns GC/MS									
Acenaphthene	ug/kg	369	285	452	1600	< 200	< 200	< 200	< 2750
Acenaphthylene	ug/kg	< 474	87	77	< 4000	< 400	< 400	< 400	< 5000
Anthracene	ug/kg	893	1010	1530	< 2360	< 228	< 222	< 215	2300
Benzo(a)anthracene	ug/kg	1510	3500	3580	< 9690	240	< 900	210	4800
Benzo(a)pyrene	ug/kg	1150	2780	2910	< 3000	200	< 300	210	4930
Benzo(b)fluoranthene	ug/kg	755	2050	2010	< 6000	180	< 600	190	3500
Benzo(ghi)perylene	ug/kg	< 555	2830	2700	< 5000	160	< 500	< 500	2600
Benzo(k)fluoranthene	ug/kg	965	1800	2050	< 3000	230	< 300	170	4330
bis(2-Chloroethoxy)methane	ug/kg	< 700	< 700	< 700	< 7000	< 600	< 600	< 600	< 8000
bis(2-Chloroethyl) ether	ug/kg	< 800	< 800	< 800	< 7000	< 700	< 700	< 600	< 8000
bis(2-Chloroisopropyl)ether	ug/kg	< 800	< 800	< 800	< 7000	< 700	< 700	< 600	< 8000
bis(2-Ethylhexyl)phthalate	ug/kg	1540	1750	3370	<10000	< 1200	< 1000	< 1000	<10000
4-Bromophenyl phenyl ether	ug/kg	< 300	< 300	< 300	< 2000	< 200	< 200	< 200	< 3000
Butyl benzyl phthalate	ug/kg	< 1000	< 1000	< 1000	<10000	< 1000	< 1000	< 1000	<10000
2-Chloronaphthalene	ug/kg	< 300	< 300	< 300	< 2000	< 228	< 200	< 200	< 3000
4-Chlorophenyl phenyl ether	ug/kg	< 600	< 600	< 600	< 5000	< 500	< 500	< 500	< 6000
Chrysene	ug/kg	1400	3160	3180	3280	230	< 300	200	5280
Dibenzo(a,h)anthracene	ug/kg	< 1000	< 1000	< 1000	<10000	< 1000	< 1000	< 1000	<10000
1,2-Dichlorobenzene	ug/kg	< 300	< 300	< 300	< 2000	< 200	< 200	< 200	< 3000
1,3-Dichlorobenzene	ug/kg	< 300	< 300	< 300	< 2000	< 200	< 200	< 200	< 3000

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below				See Below	
ETC Sample No.	WASTE MANAGEMENT, INC. *Company*	705 *Facility*		*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		S B304F2 891005 HA1486	S G330F1 891005 HA1487	S G330F2 891005 HA1488	S G337F1 891006 HA1465	S P319F1 891005 HA1471	S G337F2 891006 HA1475	S G337F2DUP 891006 HA1476	S P319F2 891009 HA1472
1,4-Dichlorobenzene	ug/kg	< 600	< 600	< 600	< 5000	< 500	< 500	< 500	< 6000
3,3'-Dichlorobenzidine	ug/kg	< 2000	< 2000	< 2000	<20000	< 2000	< 2000	< 2000	<20000
Diethyl phthalate	ug/kg	< 1000	< 1000	< 1000	<10000	< 1000	< 1000	< 1000	<10000
Dimethyl phthalate	ug/kg	< 1000	< 1000	< 1000	<10000	< 1000	< 1000	< 1000	<10000
Di-n-butyl phthalate	ug/kg	1910	320	550	<10000	< 1200	< 1170	< 1130	<10000
2,4-Dinitrotoluene	ug/kg	< 800	< 800	< 800	< 7000	< 700	< 700	< 600	< 8000
2,6-Dinitrotoluene	ug/kg	< 300	< 300	< 300	< 2000	< 200	< 200	< 200	< 3000
Di-n-octyl phthalate	ug/kg	3350	< 1000	< 1000	<10000	< 1000	< 1000	< 1000	<10000
Fluoranthene	ug/kg	3300	6170	6880	5120	385	< 300	301	9480
Fluorene	ug/kg	560	414	606	1200	< 228	< 222	< 215	< 2750
Hexachlorobenzene	ug/kg	< 300	< 300	< 300	< 2000	< 200	< 200	< 200	< 3000
Hexachlorobutadiene	ug/kg	< 100	< 100	< 100	< 1000	< 100	< 100	< 100	< 1000
Hexachlorocyclopentadiene	ug/kg	< 1000	< 1000	< 1000	<10000	< 1000	< 1000	< 1000	<10000
Hexachloroethane	ug/kg	< 200	< 200	< 200	< 2000	< 200	< 200	< 200	< 2000
Indeno(1,2,3-c,d)pyrene	ug/kg	< 636	969	956	< 6000	< 564	< 600	< 500	< 6800
Isophorone	ug/kg	< 300	< 300	< 300	< 3000	< 264	< 300	< 200	< 3000
Naphthalene	ug/kg	263	1030	1110	1500	140	< 187	298	1700
Nitrobenzene	ug/kg	< 300	< 300	< 300	< 2000	< 200	< 200	< 200	< 3000
N-Nitrosodimethylamine	ug/kg	< 1000	< 1000	< 1000	<10000	< 1000	< 1000	< 1000	<10000
N-Nitrosodi-n-propylamine	ug/kg	< 1350	< 1390	< 1320	<10000	< 1200	< 1170	< 1130	<10000
N-Nitrosodiphenylamine	ug/kg	< 257	< 300	< 300	< 2000	< 200	< 200	< 200	< 3000
Phenanthrene	ug/kg	3560	3660	6360	6200	460	180	260	6100
Pyrene	ug/kg	2610	5030	5260	4810	385	< 200	275	7760
1,2,4-Trichlorobenzene	ug/kg	< 300	< 300	< 300	< 2000	< 200	< 200	< 200	< 3000
Priority Poll. Pest/PCBs GC/MS									
Aldrin	ug/kg	< 7	< 7	< 7	< 6	< 6	< 6	< 6	< 7
Alpha-BHC	ug/kg	< 7	< 7	< 7	< 6	< 6	< 6	< 6	< 7
Beta-BHC	ug/kg	< 7	< 7	< 7	< 6	< 6	< 6	< 6	< 7
Gamma-BHC	ug/kg	< 7	< 7	< 7	< 6	< 6	< 6	< 6	< 7
Delta-BHC	ug/kg	< 7	< 7	< 7	< 6	< 6	< 6	< 6	< 7
Chlordane	ug/kg	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
4,4'-DDT	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4,4'-DDE	ug/kg	< 10	29.0	< 10	< 10	< 10	< 10	< 10	< 10
4,4'-DDD	ug/kg	< 10	< 10	< 10	< 10	48.5	< 10	< 10	36.8
Dieldrin	ug/kg	< 10	31.1	< 10	< 10	< 10	< 10	< 10	< 10

Footnotes: BMDL=Below Method Detection Limit ND=Paremeter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below — *ETC Sample No.* | WASTE MANAGEMENT, INC. — *Company* | 705 — *Facility* | See Below — *Sample Point* | *Date*

Parameters	Units	S B304F2 891005 HA1486	S G330F1 891005 HA1487	S G330F2 891005 HA1488	S G337F1 891006 HA1465	S P319F1 891005 HA1471	S G337F2 891006 HA1475	S G337F2DUP 891006 HA1476	S P319F2 891009 HA1472
Endosulfan I	ug/kg	< 7	< 7	< 7	< 6	< 6	< 6	< 6	< 7
Endosulfan II	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Endosulfan sulfate	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Endrin	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Endrin aldehyde	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Heptachlor	ug/kg	< 7	< 7	< 7	< 6	< 6	< 6	< 6	< 7
Heptachlor epoxide	ug/kg	< 7	< 7	< 7	< 6	< 6	< 6	< 6	< 7
Toxaphene	ug/kg	< 300	< 300	< 300	< 200	< 200	< 200	< 200	< 300
Groundwater Conventionals									
Phenolics, Total	mg/kg	< 3.1	< 3.4	< 3.7	< 2.9	< 2.7	< 3.2	< 3.2	< 3.6
Cyanide, Total	mg/kg	< .70	< .70	< .61	< .63	< .61	< .59	< .58	< .63
Metals Analysis Data									
Antimony	ug/kg	9100	6000	7300	7400	7100	8200	6200	9000
Arsenic	ug/kg	17000	12000	7800	6000	5600	7100	7400	11000
Beryllium	ug/kg	860	640	880	640	680	560	440	570
Cadmium	ug/kg	2400	1600	1800	2200	2000	1800	1800	1700
Chromium	ug/kg	29000	23000	56000	16000	20000	15000	12000	22000
Copper	ug/kg	44000	38000	38000	36000	35000	34000	25000	40000
Lead	ug/kg	120000	130000	56000	120000	20000	18000	22000	470000
Mercury	ug/kg	160	140	120	190	63	62	51	160
Nickel	ug/kg	36000	24000	20000	25000	32000	31000	22000	15000
Selenium	ug/kg	< 3500	230	240	< 1300	< 610	150	< 580	< 630
Silver	ug/kg	1800	1800	1500	2800	2300	1900	2000	1900
Thallium	ug/kg	830	670	580	450	510	770	760	< 1300
Zinc	ug/kg	240000	110000	120000	150000	65000	52000	79000	250000
Field Parameters									
Sample Depth	Feet	14	8	12	8	8	14	14	14
Dry Well	CODE	-	-	-	-	-	-	-	-

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below				See Below	
ETC Sample No.	WASTE MANAGEMENT, INC.	*Company*	705 *Facility*	*Sample Point*	*Date*

Parameters	*Units*	S B304F2 891005 HA1486	S G330F1 891005 HA1487	S G330F2 891005 HA1488	S G337F1 891006 HA1465	S P319F1 891005 HA1471	S G337F2 891006 HA1475	S G337F2DUP 891006 HA1476	S P319F2 891009 HA1472
		Sample Points, Sampling Dates, and ETC Sample No.'s							
Aroclors by GC									
Aroclor 1242	ug/kg	< 70	< 70	< 70	< 60	< 60	< 60	< 60	< 70
Aroclor 1254	ug/kg	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
Aroclor 1260	ug/kg	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
Aroclor 1248	ug/kg	< 70	< 70	< 70	< 60	< 60	< 60	< 60	< 70
Aroclor 1232	ug/kg	< 70	< 70	< 70	< 60	< 60	< 60	< 60	< 70
Aroclor 1221	ug/kg	< 70	< 70	< 70	< 60	< 60	< 60	< 60	< 70
Aroclor 1016	ug/kg	< 70	< 70	< 70	< 60	< 60	< 60	< 60	< 70
Miscellaneous Parameters									
1,1,1,2-Tetrachloroethane	ug/l	-	-	-	-	-	-	-	-
1,2,3-Trichloropropane	ug/l	-	-	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane	ug/l	-	-	-	-	-	-	-	-
1,2-Dibromoethane	ug/l	-	-	-	-	-	-	-	-
1,4-Dichloro-2-butene	ug/l	-	-	-	-	-	-	-	-
1,4-Dioxane	ug/l	-	-	-	-	-	-	-	-
2-Chloro-1,3-butadiene	ug/l	-	-	-	-	-	-	-	-
2-Hexanone	ug/l	-	-	-	-	-	-	-	-
Acetone	ug/l	-	-	-	-	-	-	-	-
Acetonitrile	ug/l	-	-	-	-	-	-	-	-
Carbon disulfide	ug/l	-	-	-	-	-	-	-	-
Dibromomethane	ug/l	-	-	-	-	-	-	-	-
Ending Sample Depth	Feet	18	10	14	12	10	16	16	16
Ethyl cyanide	ug/l	-	-	-	-	-	-	-	-
Ethyl methacrylate	ug/l	-	-	-	-	-	-	-	-
Iodomethane	ug/l	-	-	-	-	-	-	-	-
Isobutyl alcohol	ug/l	-	-	-	-	-	-	-	-
Methacrylonitrile	ug/l	-	-	-	-	-	-	-	-
Methyl ethyl ketone	ug/l	-	-	-	-	-	-	-	-
Methyl methacrylate	ug/l	-	-	-	-	-	-	-	-
Methyl-iso-butyl ketone	ug/l	-	-	-	-	-	-	-	-
Pentachloroethane	ug/l	-	-	-	-	-	-	-	-
Styrene	ug/l	-	-	-	-	-	-	-	-
Vinyl acetate	ug/l	-	-	-	-	-	-	-	-

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below — *ETC Sample No.* | WASTE MANAGEMENT, INC. — *Company* | 705 — *Facility* | See Below — *Sample Point* | *Date*

Parameters	*Units*	Sample Points, Sampling Dates, and ETC Sample No.'s							
		S B304F2 891005 HA1486	S G330F1 891005 HA1487	S G330F2 891005 HA1488	S G337F1 891006 HA1465	S P319F1 891005 HA1471	S G337F2 891006 HA1475	S G337F2DUP 891006 HA1476	S P319F2 891009 HA1472
m-Xylene	ug/l	-	-	-	-	-	-	-	-
o+p-Xylenes	ug/l	-	-	-	-	-	-	-	-

Footnotes: BMDL=Below Method Detection Limit NO=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		S G318F1 891010 HA1469	S G318F2 891010 HA1470	S G303F1 891010 HA1473	S G303F2 891011 HA1474	S B301F1 891012 HA1491	S B301F1DUP 891012 HA1492	S B301F2DUP 891012 HA1464	S B301F2 891012 HA1466
Priority Poll. Volatiles GC/MS									
Acrolein	ug/kg	-	-	-	-	-	-	-	-
Acrylonitrile	ug/kg	-	-	-	-	-	-	-	-
Benzene	ug/kg	4.54	1.3	< 4.40	2.5	27	15.2	< 4.40	7.19
bis(Chloromethyl)ether	ug/kg	-	-	-	-	-	-	-	-
Bromoform	ug/kg	< 5	< 5	< 5	< 5	< 50	< 5	< 5	< 5
Carbon tetrachloride	ug/kg	< 3	< 3	< 3	< 3	< 30	< 3	< 3	< 3
Chlorobenzene	ug/kg	1.9	< 6	< 6	< 6	61.5	22.7	< 6	< 6
Chlorodibromomethane	ug/kg	< 3	< 3	< 3	< 3	< 30	< 3	< 3	< 3
Chloroethane	ug/kg	< 10	< 10	< 10	< 10	< 100	< 10	< 10	< 10
2-Chloroethylvinyl ether	ug/kg	-	-	-	-	-	-	-	-
Chloroform	ug/kg	< 2	< 2	< 2	< 2	< 20	< 2	< 2	< 2
Dichlorobromomethane	ug/kg	< 2	< 2	< 2	< 2	< 20	< 2	< 2	< 2
Dichlorodifluoromethane	ug/kg	< 10	< 10	< 10	< 10	< 100	< 10	< 10	< 10
1,1-Dichloroethane	ug/kg	< 5	< 5	< 5	< 5	< 47.0	4.1	< 5	< 5
1,2-Dichloroethane	ug/kg	5.35	< 3	< 3	< 3	< 30	< 2.80	< 3	< 3
1,1-Dichloroethylene	ug/kg	11.4	< 3	< 3	< 3	< 30	3.34	< 3	< 3
1,2-Dichloropropane	ug/kg	< 6	< 6	< 6	< 6	< 60	< 6	< 6	< 6
cis-1,3-Dichloropropylene	ug/kg	< 5	< 5	< 5	< 5	< 50	< 5	< 5	< 5
Ethylbenzene	ug/kg	1.7	< 7	1.7	< 7	< 70	4.4	< 7	< 7
Methyl bromide	ug/kg	< 10	< 10	< 10	< 10	< 100	< 10	< 10	< 10
Methyl chloride	ug/kg	< 10	< 10	< 10	< 10	< 100	< 10	< 10	< 10
Methylene chloride	ug/kg	52.6	28.6	37.0	45.5	734	40.8	218	948
1,1,2,2-Tetrachloroethane	ug/kg	< 7	< 7	< 6.90	< 7	< 69.0	< 6.90	< 7	< 7
Tetrachloroethylene	ug/kg	< 4	< 4	< 4	< 4	< 40	< 4	< 4	< 4
Toluene	ug/kg	10.3	3.3	2.0	1.2	53	20.6	< 6.00	3.7
1,2-Trans-dichloroethylene	ug/kg	< 2	< 2	< 2	< 2	< 20	< 2	< 2	< 2
1,1,1-Trichloroethane	ug/kg	< 4	< 4	1.3	< 4	< 40	< 4	< 4	< 4
1,1,2-Trichloroethane	ug/kg	12.4	< 5	< 5.00	< 5	< 50	< 5	< 5	< 5
Trichloroethylene	ug/kg	1.9	3.84	< 2	< 2	< 20	1.1	< 2	< 2
Trichlorofluoromethane	ug/kg	5.0	< 10	1.5	< 10	< 100	1.9	< 10.0	< 10
Vinyl chloride	ug/kg	< 10	< 10	< 10	< 10	< 100	1.7	< 10	< 10
trans-1,3-Dichloropropylene	ug/kg	< 10	< 10	< 10	< 10	< 100	< 10	< 10	< 10

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below (ETC Sample No.) | WASTE MANAGEMENT, INC. (Company) | 705 (Facility) | See Below (Sample Point / Date)

Parameters	Units	S G31BF1 891010 HA1469	S G31BF2 891010 HA1470	S G303F1 891010 HA1473	S G303F2 891011 HA1474	S B301F1 891012 HA1491	S B301F1DUP 891012 HA1492	S B301F2DUP 891012 HA1464	S B301F2 891012 HA1466
Priority Poll. Acids GC/MS									
2-Chlorophenol	ug/kg	< 400	< 400	< 4000	< 400	< 4000	< 4000	< 400	< 400
2,4-Dichlorophenol	ug/kg	< 300	< 300	< 3000	< 300	< 4000	< 3000	< 300	< 300
2,4-Dimethylphenol	ug/kg	< 300	< 300	< 3000	< 300	< 4000	< 3000	< 300	< 300
4,6-Dinitro-o-cresol	ug/kg	< 3000	< 3000	<30000	< 3000	<30000	<30000	< 3000	< 3000
2,4-Dinitrophenol	ug/kg	< 5000	< 5000	<50000	< 5000	<60000	<50000	< 5210	< 5000
2-Nitrophenol	ug/kg	< 400	< 500	< 4000	< 400	< 5000	< 4000	< 400	< 500
4-Nitrophenol	ug/kg	< 300	< 303	< 2860	< 300	< 3000	< 3000	< 300	< 300
p-Chloro-m-cresol	ug/kg	< 356	< 378	< 4000	< 358	< 4000	< 3000	< 372	< 375
Pentachlorophenol	ug/kg	< 400	< 500	< 4000	< 400	< 5000	< 4000	< 400	< 500
Phenol	ug/kg	< 200	< 200	< 2000	< 200	< 2000	< 2000	< 200	< 200
2,4,6-Trichlorophenol	ug/kg	< 300	< 300	< 3000	< 300	< 4000	< 3000	< 300	< 300
Priority Poll. B/Ns GC/MS									
Acenaphthene	ug/kg	< 200	482	1800	< 200	< 2520	< 2000	< 236	< 238
Acenaphthylene	ug/kg	< 400	< 400	< 4000	< 400	< 5000	< 4000	< 400	< 400
Anthracene	ug/kg	< 200	604	7100	< 227	< 2520	< 2170	< 236	140
Benzo(a)anthracene	ug/kg	< 900	1120	18300	270	1800	< 8890	200	310
Benzo(a)pyrene	ug/kg	< 300	1200	14400	230	1800	1300	220	220
Benzo(b)fluoranthene	ug/kg	< 600	962	18600	180	2100	1700	230	220
Benzo(ghi)perylene	ug/kg	< 500	826	9640	< 500	< 5430	< 5000	< 500	< 513
Benzo(k)fluoranthene	ug/kg	< 300	904	8840	190	< 3310	< 2850	130	210
bis(2-Chloroethoxy)methane	ug/kg	< 600	< 700	< 6000	< 600	< 7000	< 6000	< 700	< 700
bis(2-Chloroethyl) ether	ug/kg	< 700	< 700	< 7000	< 700	< 8000	< 6000	< 700	< 700
bis(2-Chloroisopropyl)ether	ug/kg	< 700	< 700	< 7000	< 700	< 8000	< 6000	< 700	< 700
bis(2-Ethylhexyl)phthalate	ug/kg	2860	< 1260	<10000	< 1000	<10000	<10000	990	11100
4-Bromophenyl phenyl ether	ug/kg	< 200	< 200	< 2000	< 200	< 3000	< 2000	< 200	< 200
Butyl benzyl phthalate	ug/kg	< 1000	< 1000	<10000	< 1000	<10000	<10000	< 1000	< 1000
2-Chloronaphthalene	ug/kg	< 200	< 200	< 2000	< 200	< 3000	< 2000	< 200	< 200
4-Chlorophenyl phenyl ether	ug/kg	< 500	< 500	< 5000	< 500	< 6000	< 5000	< 500	< 500
Chrysene	ug/kg	< 300	1060	16800	240	1700	1300	220	318
Dibenzo(a,h)anthracene	ug/kg	< 1000	< 1000	2500	< 1000	<10000	<10000	< 1000	< 1250
1,2-Dichlorobenzene	ug/kg	< 200	< 200	< 2000	< 200	< 3000	< 2000	< 200	< 200
1,3-Dichlorobenzene	ug/kg	< 200	< 200	< 2000	< 200	< 3000	< 2000	< 200	< 200

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		S G318F1 891010 HA1469	S G318F2 891010 HA1470	S G303F1 891010 HA1473	S G303F2 891011 HA1474	S B301F1 891012 HA1491	S B301F1DUP 891012 HA1492	S B301F2DUP 891012 HA1464	S B301F2 891012 HA1466
1,4-Dichlorobenzene	ug/kg	< 500	< 600	< 5000	< 500	< 6000	< 5000	< 500	< 600
3,3'-Dichlorobenzidine	ug/kg	< 2000	< 2000	<20000	< 2000	<20000	<20000	< 2000	< 2000
Diethyl phthalate	ug/kg	< 1000	< 1000	<10000	< 1000	<10000	<10000	< 1000	< 1000
Dimethyl phthalate	ug/kg	< 1000	< 1000	<10000	< 1000	<10000	<10000	< 1000	< 1000
Di-n-butyl phthalate	ug/kg	< 1190	< 1000	<10000	< 1000	<10000	<10000	< 1240	980
2,4-Dinitrotoluene	ug/kg	< 700	< 700	< 7000	< 700	< 8000	< 6000	< 700	< 700
2,6-Dinitrotoluene	ug/kg	< 200	< 200	< 2000	< 200	< 3000	< 2000	< 200	< 200
Di-n-octyl phthalate	ug/kg	< 1000	< 1000	<10000	< 1000	<10000	<10000	< 1000	< 1000
Fluoranthene	ug/kg	< 300	2020	32900	442	4150	2630	402	577
Fluorene	ug/kg	< 226	686	< 2260	< 227	< 2520	< 2000	< 236	130
Hexachlorobenzene	ug/kg	< 200	< 200	< 2000	< 200	< 3000	< 2000	< 200	< 200
Hexachlorobutadiene	ug/kg	< 100	< 100	< 1000	< 100	< 1000	< 1000	< 100	< 100
Hexachlorocyclopentadiene	ug/kg	< 1000	< 1000	<10000	< 1000	<10000	<10000	< 1000	< 1000
Hexachloroethane	ug/kg	< 200	< 200	< 2000	< 200	< 2000	< 2000	< 200	< 200
Indeno(1,2,3-c,d)pyrene	ug/kg	< 600	330	4000	< 600	< 6230	< 5000	< 600	< 588
Isophorone	ug/kg	< 300	< 277	< 3000	< 263	< 3000	< 3000	< 300	< 275
Naphthalene	ug/kg	< 200	1190	< 1910	< 191	< 2120	< 1820	160	160
Nitrobenzene	ug/kg	< 200	< 200	< 2000	< 200	< 3000	< 2000	< 200	< 200
N-Nitrosodimethylamine	ug/kg	< 1000	< 1000	<10000	< 1000	<10000	<10000	< 1000	< 1000
N-Nitrosodi-n-propylamine	ug/kg	< 1190	< 1260	<11900	< 1190	<10000	<11400	< 1240	< 1250
N-Nitrosodiphenylamine	ug/kg	< 200	< 200	< 2000	< 200	< 3000	< 2000	< 200	< 200
Phenanthrene	ug/kg	< 600	2930	21600	430	4100	2900	440	610
Pyrene	ug/kg	< 200	1560	24500	362	3280	2000	301	416
1,2,4-Trichlorobenzene	ug/kg	< 200	< 200	< 2000	< 200	< 3000	< 2000	< 200	< 200
Priority Poll. Pest/PCBs GC/MS									
Aldrin	ug/kg	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Alpha-BHC	ug/kg	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Beta-BHC	ug/kg	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Gamma-BHC	ug/kg	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Delta-BHC	ug/kg	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Chlordane	ug/kg	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
4,4'-DDT	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4,4'-DDE	ug/kg	< 10	< 10	62.5	< 10	60.9	42.6	< 10	< 10
4,4'-DDD	ug/kg	< 10	< 10	98.0	12.5	55.9	34.4	< 10	< 10
Dieldrin	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below *ETC Sample No.* | WASTE MANAGEMENT, INC. *Company* | 705 *Facility* | See Below *Sample Point* | *Date*

Parameters	Units	Sample Points, Sampling Dates, and ETC Sample No.'s							
		S G318F1 891010 HA1469	S G318F2 891010 HA1470	S G303F1 891010 HA1473	S G303F2 891011 HA1474	S B301F1 891012 HA1491	S B301F1DUP 891012 HA1492	S B301F2DUP 891012 HA1464	S B301F2 891012 HA1466
Endosulfan I	ug/kg	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Endosulfan II	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Endosulfan sulfate	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Endrin	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Endrin aldehyde	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Heptachlor	ug/kg	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Heptachlor epoxide	ug/kg	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Toxaphene	ug/kg	< 200	< 300	< 200	< 200	< 200	< 200	< 200	< 200
Groundwater Conventionals									
Phenolics, Total	mg/kg	< 3.2	< 3.2	< 3.4	< 3.3	< 3.4	< 3.9	< 3.7	< 3.4
Cyanide, Total	mg/kg	< .57	< .62	< .60	< .64	< .62	.943	< .62	< .62
Metals Analysis Data									
Antimony	ug/kg	7300	7300	3200	6000	4400	4900	< 7400	17000
Arsenic	ug/kg	5200	11000	4200	9600	3600	4400	8700	10000
Beryllium	ug/kg	510	640	450	500	700	510	860	590
Cadmium	ug/kg	1500	2000	1300	1600	2900	2300	4500	< 250
Chromium	ug/kg	41000	23000	8100	17000	14000	11000	20000	17000
Copper	ug/kg	21000	29000	18000	32000	24000	21000	32000	32000
Lead	ug/kg	11000	95000	95000	30000	220000	130000	28000	48000
Mercury	ug/kg	51	140	120	55	120	110	55	110
Nickel	ug/kg	23000	27000	6800	27000	12000	13000	32000	25000
Selenium	ug/kg	< 570	< 1200	< 1200	< 620	< 600	< 600	650	< 1200
Silver	ug/kg	2000	2700	1700	1700	3500	3200	1900	280
Thallium	ug/kg	< 1100	450	< 1200	740	< 1200	< 1200	630	< 1200
Zinc	ug/kg	50000	74000	69000	89000	352000	170000	79000	85000
Field Parameters									
Sample Depth	Feet	8	14	8	16	8	8	14	14
Dry Well	CODE	-	-	-	-	-	-	-	-

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below *ETC Sample No.* | WASTE MANAGEMENT, INC. *Company* | 705 *Facility* | See Below *Sample Point* | *Date*

Parameters	Units	S G318F1 891010 HA1469	S G318F2 891010 HA1470	S G303F1 891010 HA1473	S G303F2 891011 HA1474	S B301F1 891012 HA1491	S B301F1DUP 891012 HA1492	S B301F2DUP 891012 HA1464	S B301F2 891012 HA1466
Sample Points, Sampling Dates, and ETC Sample No.'s									
Aroclors by GC									
Aroclor 1242	ug/kg	< 60	< 60	< 60	< 60	< 60	< 60	< 60	< 60
Aroclor 1254	ug/kg	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
Aroclor 1260	ug/kg	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
Aroclor 1248	ug/kg	< 60	< 60	< 60	< 60	< 60	< 60	< 60	< 60
Aroclor 1232	ug/kg	< 60	< 60	< 60	< 60	< 60	< 60	< 60	< 60
Aroclor 1221	ug/kg	< 60	< 60	< 60	< 60	< 60	< 60	< 60	< 60
Aroclor 1016	ug/kg	< 60	< 60	< 60	< 60	< 60	< 60	< 60	< 60
Miscellaneous Parameters									
1,1,1,2-Tetrachloroethane	ug/l	-	-	-	-	-	-	-	-
1,2,3-Trichloropropane	ug/l	-	-	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane	ug/l	-	-	-	-	-	-	-	-
1,2-Dibromoethane	ug/l	-	-	-	-	-	-	-	-
1,4-Dichloro-2-butene	ug/l	-	-	-	-	-	-	-	-
1,4-Dioxane	ug/l	-	-	-	-	-	-	-	-
2-Chloro-1,3-butadiene	ug/l	-	-	-	-	-	-	-	-
2-Hexanone	ug/l	-	-	-	-	-	-	-	-
Acetone	ug/l	-	-	-	-	-	-	-	-
Acetonitrile	ug/l	-	-	-	-	-	-	-	-
Carbon disulfide	ug/l	-	-	-	-	-	-	-	-
Dibromomethane	ug/l	-	-	-	-	-	-	-	-
Ending Sample Depth	Feet	11	16	10	18	11	11	17	17
Ethyl cyanide	ug/l	-	-	-	-	-	-	-	-
Ethyl methacrylate	ug/l	-	-	-	-	-	-	-	-
Iodomethane	ug/l	-	-	-	-	-	-	-	-
Isobutyl alcohol	ug/l	-	-	-	-	-	-	-	-
Methacrylonitrile	ug/l	-	-	-	-	-	-	-	-
Methyl ethyl ketone	ug/l	-	-	-	-	-	-	-	-
Methyl methacrylate	ug/l	-	-	-	-	-	-	-	-
Methyl-iso-butyl ketone	ug/l	-	-	-	-	-	-	-	-
Pentachloroethane	ug/l	-	-	-	-	-	-	-	-
Styrene	ug/l	-	-	-	-	-	-	-	-
Vinyl acetate	ug/l	-	-	-	-	-	-	-	-

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		S G31BF1 891010 HA1469	S G31BF2 891010 HA1470	S G303F1 891010 HA1473	S G303F2 891011 HA1474	S B301F1 891012 HA1491	S B301F1DUP 891012 HA1492	S B301F2DUP 891012 HA1464	S B301F2 891012 HA1466
m-Xylene	ug/l	-	-	-	-	-	-	-	-
o+p-Xylenes	ug/l	-	-	-	-	-	-	-	-

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below			See Below	
ETC Sample No.	WASTE MANAGEMENT, INC. *Company*	705 *Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		S G302F1 891012 HA1499	S G302F2 891012 HA1500	S G342F2 891013 HA1497	S G342F1 891013 HA1498	S G344F1 891016 HA1467	S G344F2 891016 HA1468	S G308F1 891016 HA1483	S G308F2 891016 HA1484
Priority Poll. Volatiles GC/MS									
Acrolein	ug/kg	-	-	-	-	-	-	-	-
Acrylonitrile	ug/kg	-	-	-	-	-	-	-	-
Benzene	ug/kg	-	< 22.0	10.0	< 20	3.0	51.4	1.5	2.2
bis(Chloromethyl)ether	ug/kg	-	-	-	-	-	-	-	-
Bromoform	ug/kg	-	< 20	< 5	< 20	< 5	< 9	< 5	< 5
Carbon tetrachloride	ug/kg	-	< 10	< 3	< 10	< 3	< 6	< 3	< 3
Chlorobenzene	ug/kg	-	< 30	< 6	< 30	1.9	13.4	< 6	< 6
Chlorodibromomethane	ug/kg	-	< 20	< 3	< 20	< 3	< 6	< 3	< 3
Chloroethane	ug/kg	-	< 50	< 10	< 50	< 10	< 20	< 10	< 10
2-Chloroethylvinyl ether	ug/kg	-	-	-	-	-	-	-	-
Chloroform	ug/kg	-	< 8	< 2	< 8	< 2	< 3	< 2	< 2
Dichlorobromomethane	ug/kg	-	< 10	< 2	< 10	< 2	< 4	< 2	< 2
Dichlorodifluoromethane	ug/kg	-	< 50	< 10	< 50	< 10	< 20	< 10	< 10
1,1-Dichloroethane	ug/kg	-	< 20	< 5	< 20	< 5	< 9.40	< 5	< 5
1,2-Dichloroethane	ug/kg	-	< 10	< 3	< 10	1.7	12.2	< 3	< 3
1,1-Dichloroethylene	ug/kg	-	< 10	13.6	< 10	< 3	< 6	< 3	< 3
1,2-Dichloropropane	ug/kg	-	< 30	< 6	< 30	< 6	< 10	< 6	< 6
cis-1,3-Dichloropropylene	ug/kg	-	< 30	< 5	< 30	< 5	< 10	< 5	< 5
Ethylbenzene	ug/kg	-	< 40	3.2	< 40	6.2	88.5	< 7	< 7.20
Methyl bromide	ug/kg	-	< 50	< 10	< 50	< 10	< 20	< 10	< 10
Methyl chloride	ug/kg	-	< 50	< 10	< 50	< 10	< 20	< 10	< 10
Methylene chloride	ug/kg	-	2470	53.6	922	21.9	42.2	19.4	21.7
1,1,2,2-Tetrachloroethane	ug/kg	-	< 34.5	< 7	< 30	< 7	< 10	< 7	< 6.90
Tetrachloroethylene	ug/kg	-	< 20	< 4	< 20	< 4.10	< 8.20	< 4	< 4
Toluene	ug/kg	-	< 30.0	3.2	< 30.0	< 6.00	217	< 6.00	< 6.00
1,2-Trans-dichloroethylene	ug/kg	-	< 8	< 2	< 8	1.3	< 3	< 2	< 2
1,1,1-Trichloroethane	ug/kg	-	< 20	< 4	< 20	< 3.80	< 8	< 4	< 4
1,1,2-Trichloroethane	ug/kg	-	< 30	< 5	< 30	< 5.00	< 10	< 5	< 5.00
Trichloroethylene	ug/kg	-	< 10	< 2	< 10	2.65	3.4	< 2	< 2
Trichlorofluoromethane	ug/kg	-	< 50	< 10	21	2.1	< 20	< 10	< 10
Vinyl chloride	ug/kg	-	< 50	15.3	< 50	< 10	< 20	< 10	< 10
trans-1,3-Dichloropropylene	ug/kg	-	< 50	< 10	< 50	< 10	< 20	< 10	< 10

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below — WASTE MANAGEMENT, INC. — 705 — See Below

ETC Sample No. — *Company* — *Facility* — *Sample Point* — *Date*

Parameters	Units	Sample Points, Sampling Dates, and ETC Sample No.'s							
		S G302F1 891012 HA1499	S G302F2 891012 HA1500	S G342F2 891013 HA1497	S G342F1 891013 HA1498	S G344F1 891016 HA1467	S G344F2 891016 HA1468	S G308F1 891016 HA1483	S G308F2 891016 HA1484
Priority Poll. Acids GC/MS									
2-Chlorophenol	ug/kg	-	< 400	1130	< 400	< 4000	< 4000	< 4000	< 5000
2,4-Dichlorophenol	ug/kg	-	< 300	903	< 300	< 3000	< 3000	< 4000	< 4000
2,4-Dimethylphenol	ug/kg	-	< 300	< 300	< 300	< 3000	< 3000	< 4000	< 4000
4,6-Dinitro-o-cresol	ug/kg	-	< 3000	< 3000	< 3000	<30000	<30000	<30000	<40000
2,4-Dinitrophenol	ug/kg	-	< 5000	< 5000	< 5000	<50000	<50000	<50000	<60000
2-Nitrophenol	ug/kg	-	< 400	< 500	< 400	< 4000	< 4000	< 5000	< 5000
4-Nitrophenol	ug/kg	-	< 300	< 300	< 300	< 3000	< 3000	< 3000	< 4000
p-Chloro-m-cresol	ug/kg	-	< 300	< 400	< 300	< 4000	< 4000	< 4000	< 4000
Pentachlorophenol	ug/kg	-	< 400	< 500	< 400	< 4000	< 4000	< 5000	< 5000
Phenol	ug/kg	-	825	56200	120	< 2000	3620	< 2000	< 2000
2,4,6-Trichlorophenol	ug/kg	-	< 300	< 300	< 300	< 3000	< 3000	< 4000	< 4000
Priority Poll. B/Ns GC/MS									
Acenaphthene	ug/kg	-	< 200	345	< 200	< 2000	< 2000	4820	3030
Acenaphthylene	ug/kg	-	< 400	< 400	< 400	< 4000	< 4000	< 5000	< 5000
Anthracene	ug/kg	-	< 200	938	< 200	< 2370	< 2000	10200	5880
Benzo(a)anthracene	ug/kg	-	< 800	1090	370	< 9740	<10000	27600	7000
Benzo(a)pyrene	ug/kg	-	< 300	909	593	< 3120	< 3000	22700	5200
Benzo(b)fluoranthene	ug/kg	-	< 500	600	480	< 5990	< 6000	< 6000	4300
Benzo(ghi)perylene	ug/kg	-	< 400	819	873	< 5000	< 5000	14100	3500
Benzo(k)fluoranthene	ug/kg	-	< 300	529	396	< 3120	< 3000	42900	< 3690
bis(2-Chloroethoxy)methane	ug/kg	-	< 600	< 700	< 600	< 7000	< 6000	< 7000	< 8000
bis(2-Chloroethyl) ether	ug/kg	-	< 600	< 700	< 700	< 7000	< 7000	< 7000	< 8000
bis(2-Chloroisopropyl)ether	ug/kg	-	< 600	< 700	< 700	< 7000	< 7000	< 7000	< 8000
bis(2-Ethylhexyl)phthalate	ug/kg	-	440	< 1000	490	<10000	1400	<10000	<10000
4-Bromophenyl phenyl ether	ug/kg	-	< 200	< 200	< 200	< 2370	< 2000	< 2000	< 3000
Butyl benzyl phthalate	ug/kg	-	< 1000	< 1000	< 1000	<10000	<10000	<10000	<10000
2-Chloronaphthalene	ug/kg	-	< 200	< 200	< 200	< 2000	< 2000	< 2000	< 3000
4-Chlorophenyl phenyl ether	ug/kg	-	< 500	< 500	< 500	< 5000	< 5000	< 5000	< 6000
Chrysene	ug/kg	-	< 300	972	553	< 3120	< 3000	28700	7470
Dibenzo(a,h)anthracene	ug/kg	-	< 1000	< 1000	< 1000	<10000	<10000	<10000	<10000
1,2-Dichlorobenzene	ug/kg	-	< 200	< 200	< 200	< 2000	< 2000	< 2000	< 3000
1,3-Dichlorobenzene	ug/kg	-	< 200	< 200	< 200	< 2000	< 2000	< 2000	< 3000

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

WASTE MANAGEMENT, INC. — 705 — See Below

ETC Sample No. — *Company* — *Facility* — *Sample Point* — *Date*

Parameters	Units	S G302F1 891012 HA1499	S G302F2 891012 HA1500	S G342F2 891013 HA1497	S G342F1 891013 HA1498	S G344F1 891016 HA1467	S G344F2 891016 HA1468	S G308F1 891016 HA1483	S G308F2 891016 HA1484
1,4-Dichlorobenzene	ug/kg	-	< 500	< 600	< 500	< 5000	< 5000	< 6000	< 6000
3,3'-Dichlorobenzidine	ug/kg	-	< 2000	< 2000	< 2000	<20000	<20000	<20000	<20000
Diethyl phthalate	ug/kg	-	< 1000	< 1000	< 1000	<10000	<10000	<10000	<10000
Dimethyl phthalate	ug/kg	-	< 1000	< 1000	< 1000	<10000	<10000	<10000	<10000
Di-n-butyl phthalate	ug/kg	-	< 1000	< 1000	< 1000	<10000	<10000	<10000	<10000
2,4-Dinitrotoluene	ug/kg	-	< 600	< 700	< 700	< 7000	< 7000	< 7000	< 8000
2,6-Dinitrotoluene	ug/kg	-	< 200	< 200	< 200	< 2000	< 2000	< 2000	< 3000
Di-n-octyl phthalate	ug/kg	-	< 1000	< 1000	< 1000	<10000	<10000	<10000	<10000
Fluoranthene	ug/kg	-	97	2680	646	2200	< 3000	72100	30200
Fluorene	ug/kg	-	< 200	822	< 200	< 2000	< 2000	5230	3620
Hexachlorobenzene	ug/kg	-	< 200	< 200	1080	< 2000	< 2000	< 2000	< 3000
Hexachlorobutadiene	ug/kg	-	< 100	< 100	< 100	< 1000	< 1000	< 1000	< 1000
Hexachlorocyclopentadiene	ug/kg	-	< 1000	< 1000	< 1000	<10000	<10000	<10000	<10000
Hexachloroethane	ug/kg	-	< 200	< 200	< 200	< 2000	< 2000	< 2000	< 2000
Indeno(1,2,3-c,d)pyrene	ug/kg	-	< 500	310	290	< 6000	< 6000	5100	< 6940
Isophorone	ug/kg	-	< 200	< 300	< 300	< 3000	< 3000	< 3000	< 3000
Naphthalene	ug/kg	-	< 200	1400	< 200	< 2000	4840	2650	4420
Nitrobenzene	ug/kg	-	< 200	< 200	< 200	< 2000	< 2000	< 2000	< 3000
N-Nitrosodimethylamine	ug/kg	-	< 1000	< 1000	< 1000	<10000	<10000	<10000	<10000
N-Nitrosodi-n-propylamine	ug/kg	-	< 1000	< 1000	< 1000	<10000	<10000	<10000	<10000
N-Nitrosodiphenylamine	ug/kg	-	< 200	< 200	< 200	< 2000	< 2000	< 2000	< 3000
Phenanthrene	ug/kg	-	190	4310	400	< 6740	< 7000	51200	26700
Pyrene	ug/kg	-	< 200	1950	632	1900	< 2000	54700	23600
1,2,4-Trichlorobenzene	ug/kg	-	< 200	< 200	< 200	< 2000	< 2000	< 2000	< 3000
Priority Poll. Pest/PCBs GC/MS									
Aldrin	ug/kg	-	< 6	< 6	< 6	< 60	< 60	< 60	< 70
Alpha-BHC	ug/kg	-	< 6	< 6	< 6	624	< 60	< 60	< 70
Beta-BHC	ug/kg	-	< 6	< 6	< 6	< 60	< 60	< 60	< 70
Gamma-BHC	ug/kg	-	< 6	< 6	< 6	< 60	< 60	< 60	< 70
Delta-BHC	ug/kg	-	< 6	< 6	< 6	< 60	< 60	< 60	< 70
Chlordane	ug/kg	-	< 100	< 100	< 100	< 1000	< 1000	< 1000	< 1000
4,4'-DDT	ug/kg	-	< 10	< 10	< 10	241	< 100	< 100	< 100
4,4'-DDE	ug/kg	-	< 10	< 10	< 10	< 100	< 100	< 100	< 100
4,4'-DDD	ug/kg	-	< 10	< 10	< 10	< 100	< 100	< 100	< 100
Dieldrin	ug/kg	-	< 10	< 10	50.1	304	< 100	< 100	< 100

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	Units	S G302F1 891012 HA1499	S G302F2 891012 HA1500	S G342F2 891013 HA1497	S G342F1 891013 HA1498	S G344F1 891016 HA1467	S G344F2 891016 HA1468	S G308F1 891016 HA1483	S G308F2 891016 HA1484
		Sample Points, Sampling Dates, and ETC Sample No.'s							
Endosulfan I	ug/kg	-	< 6	< 6	< 6	< 60	< 60	< 60	< 70
Endosulfan II	ug/kg	-	< 10	< 10	< 10	< 100	< 100	< 100	< 100
Endosulfan sulfate	ug/kg	-	< 10	< 10	< 10	4040	< 100	< 100	< 100
Endrin	ug/kg	-	< 10	< 10	203	1160	< 100	< 100	< 100
Endrin aldehyde	ug/kg	-	< 10	< 10	70.2	< 100	< 100	< 100	< 100
Heptachlor	ug/kg	-	< 6	< 6	15.1	< 60	< 60	< 60	< 70
Heptachlor epoxide	ug/kg	-	< 6	< 6	< 6	< 60	< 60	< 60	< 70
Toxaphene	ug/kg	-	< 200	< 300	< 300	< 2000	< 2000	< 3000	< 3000
Groundwater Conventionals									
Phenolics, Total	mg/kg	-	< 3.2	72.8	< 3.2	< 3.8	5.8	< 3.8	< 1.6
Cyanide, Total	mg/kg	-	< .59	< .66	< .59	< .57	< .65	< .66	< .79
Metals Analysis Data									
Antimony	ug/kg	-	12000	33000	11000	< 6900	< 7800	< 7900	< 9400
Arsenic	ug/kg	-	9700	30000	6300	15000	21000	9100	9700
Beryllium	ug/kg	-	430	2200	490	2200	2200	650	850
Cadmium	ug/kg	-	< 240	1300	< 230	6100	5800	3000	4600
Chromium	ug/kg	-	14000	55000	23000	38000	39000	14000	20000
Copper	ug/kg	-	35000	46000	44000	50000	31000	63000	49000
Lead	ug/kg	-	23000	52000	58000	130000	68000	130000	100000
Mercury	ug/kg	-	< 94	120	110	160	73	250	140
Nickel	ug/kg	-	28000	28000	24000	19000	20000	34000	29000
Selenium	ug/kg	-	1200	4800	220	2500	3300	< 660	390
Silver	ug/kg	-	< 1200	< 1300	< 1200	2700	1600	2000	1700
Thallium	ug/kg	-	490	2300	< 1200	1700	1800	< 1300	590
Zinc	ug/kg	-	51000	329000	130000	239000	190000	130000	110000
Field Parameters									
Sample Depth	Feet	-	15.5	10	4	4	10	8	12
Dry Well	CODE	1	-	-	-	-	-	-	-

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		S G302F1 891012 HA1499	S G302F2 891012 HA1500	S G342F2 891013 HA1497	S G342F1 891013 HA1498	S G344F1 891016 HA1467	S G344F2 891016 HA1468	S G308F1 891016 HA1483	S G308F2 891016 HA1484
Aroclors by GC									
Aroclor 1242	ug/kg	-	< 60	< 60	< 60	< 600	< 600	< 600	< 700
Aroclor 1254	ug/kg	-	< 100	< 100	< 100	< 1000	< 1000	< 1000	< 1000
Aroclor 1260	ug/kg	-	< 100	< 100	< 100	< 1000	< 1000	< 1000	< 1000
Aroclor 1248	ug/kg	-	< 60	< 60	< 60	< 600	< 600	< 600	< 700
Aroclor 1232	ug/kg	-	< 60	< 60	< 60	< 600	< 600	< 600	< 700
Aroclor 1221	ug/kg	-	< 60	< 60	< 60	< 600	< 600	< 600	< 700
Aroclor 1016	ug/kg	-	< 60	< 60	< 60	< 600	< 600	< 600	< 700
Miscellaneous Parameters									
1,1,1,2-Tetrachloroethane	ug/l	-	-	-	-	-	-	-	-
1,2,3-Trichloropropane	ug/l	-	-	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane	ug/l	-	-	-	-	-	-	-	-
1,2-Dibromoethane	ug/l	-	-	-	-	-	-	-	-
1,4-Dichloro-2-butene	ug/l	-	-	-	-	-	-	-	-
1,4-Dioxane	ug/l	-	-	-	-	-	-	-	-
2-Chloro-1,3-butadiene	ug/l	-	-	-	-	-	-	-	-
2-Hexanone	ug/l	-	-	-	-	-	-	-	-
Acetone	ug/l	-	-	-	-	-	-	-	-
Acetonitrile	ug/l	-	-	-	-	-	-	-	-
Carbon disulfide	ug/l	-	-	-	-	-	-	-	-
Dibromomethane	ug/l	-	-	-	-	-	-	-	-
Ending Sample Depth	Feet	-	17.5	12	6	6	12	10	14
Ethyl cyanide	ug/l	-	-	-	-	-	-	-	-
Ethyl methacrylate	ug/l	-	-	-	-	-	-	-	-
Iodomethane	ug/l	-	-	-	-	-	-	-	-
Isobutyl alcohol	ug/l	-	-	-	-	-	-	-	-
Methacrylonitrile	ug/l	-	-	-	-	-	-	-	-
Methyl ethyl ketone	ug/l	-	-	-	-	-	-	-	-
Methyl methacrylate	ug/l	-	-	-	-	-	-	-	-
Methyl-iso-butyl ketone	ug/l	-	-	-	-	-	-	-	-
Pentachloroethane	ug/l	-	-	-	-	-	-	-	-
Styrene	ug/l	-	-	-	-	-	-	-	-
Vinyl acetate	ug/l	-	-	-	-	-	-	-	-

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below			See Below	
ETC Sample No.	WASTE MANAGEMENT, INC. *Company*	705 *Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		S G302F1 891012 HA1499	S G302F2 891012 HA1500	S G342F2 891013 HA1497	S G342F1 891013 HA1498	S G344F1 891016 HA1467	S G344F2 891016 HA1468	S G308F1 891016 HA1483	S G308F2 891016 HA1484
m-Xylene	ug/l	-	-	-	-	-	-	-	-
o+p-Xylenes	ug/l	-	-	-	-	-	-	-	-

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

PHASE II

FILL SAMPLE RESULTS

- APPENDIX K -

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

DATE: 10/14/9.
PAGE: 1

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		S FG-4S 911022 HA6455	S FG-10D 911022 HA6457	S FG-4D 911022 HA6461	S FILLDUP01 911023 HA6463	S FG-3S 911023 HA6464	S FG-3D 911023 HA6465	S FG-2S 911023 HA6466	S FG-2D 911023 HA6470
Priority Poll. Volatiles GC/MS									
Benzene	ug/kg	6.48	3.6	< 6	6940	< 5	< 6	< 6	65.9
Bromoform	ug/kg	< 6	< 7	< 6	< 600	< 5	< 6	< 6	< 10
Carbon tetrachloride	ug/kg	< 6	< 7	< 6	< 300	< 3	< 6	< 6	< 9
Chlorobenzene	ug/kg	< 7	2.4	< 8	< 700	< 7	< 8	< 7	23.9
Chlorodibromomethane	ug/kg	< 6	< 7	< 6	< 400	< 4	< 6	< 6	< 10
Chloroethane	ug/kg	< 10	< 10	< 10	< 1000	< 10	< 10	< 10	< 30
2-Chloroethylvinyl ether	ug/kg	-	-	-	< 1000	< 10	-	-	< 30
Chloroform	ug/kg	< 6	< 7	< 6	< 200	< 2	< 6	< 6	< 5
Dichlorobromomethane	ug/kg	< 6	< 7	< 6	< 300	< 3	< 6	< 6	< 7
Dichlorodifluoromethane	ug/kg	< 200	< 300	< 300	< 1000	< 10	< 300	< 200	< 30
1,1-Dichloroethane	ug/kg	< 6	< 7	< 6	< 600	12.4	< 6	< 6	< 10
1,2-Dichloroethane	ug/kg	< 6	< 7	< 6	< 300	< 3	< 6	< 6	< 9
1,1-Dichloroethylene	ug/kg	53.6	4.2	9.18	5240	< 3	< 6	3.8	352
1,2-Dichloropropane	ug/kg	< 7	< 9	< 8	< 700	< 7	< 8	< 7	< 20
cis-1,3-Dichloropropylene	ug/kg	< 6	< 7	< 6	< 600	< 6	< 6	< 6	< 20
Ethylbenzene	ug/kg	< 9	< 10	< 9	5190	< 8	< 9	< 8	< 20
Methyl bromide	ug/kg	< 10	< 10	< 10	< 1000	< 10	< 10	< 10	< 30
Methyl chloride	ug/kg	< 10	< 10	< 10	< 1000	< 10	< 10	< 10	< 30
Methylene chloride	ug/kg	< 6	< 7	< 6	1610	< 3	< 6	13.5	1040
1,1,2,2-Tetrachloroethane	ug/kg	< 8	< 10	< 9	< 800	< 8	< 9	< 8	< 20
Tetrachloroethylene	ug/kg	< 6	< 7	< 6	320	< 5	2.0	< 6	< 10
Toluene	ug/kg	< 7	6.5	3.6	14900	< 7	< 8	< 7	34.9
1,2-Trans-dichloroethylene	ug/kg	< 5.95	< 7.35	< 6.33	< 195	< 2	< 6	< 5.88	< 5.00
1,1,1-Trichloroethane	ug/kg	< 6	< 7	< 6	< 500	< 4	< 6	< 6	< 10
1,1,2-Trichloroethane	ug/kg	< 6	< 7	< 6	6840	< 6	< 6	< 6	32.5
Trichloroethylene	ug/kg	3.2	< 10	< 10	190	< 2	< 10	< 10	< 6
Trichlorofluoromethane	ug/kg	< 10	< 10	< 10	< 1000	< 10	< 10	< 10	< 30
Vinyl chloride	ug/kg	138	< 10	19.3	< 1220	< 10	< 10	62.9	693
trans-1,3-Dichloropropylene	ug/kg	< 10	< 10	< 10	< 1000	< 10	< 10	< 10	< 30
Priority Poll. Acids GC/MS									
2-Chlorophenol	ug/kg	< 400	< 500	< 400	< 400	< 400	< 400	< 400	< 400
2,4-Dichlorophenol	ug/kg	< 300	< 400	< 300	210	< 314	< 300	< 300	< 300

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

DATE: 10/14/93

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	Units	Sample Points, Sampling Dates, and ETC Sample No.'s							
		S FG-4S 911022 HA6455	S FG-10D 911022 HA6457	S FG-4D 911022 HA6461	S FILLDUPUT 911023 HA6463	S FG-3S 911023 HA6464	S FG-3D 911023 HA6465	S FG-2S 911023 HA6466	S FG-2D 911023 HA6470
2,4-Dimethylphenol	ug/kg	< 300	< 400	< 300	< 329	< 300	< 338	300	< 338
4,6-Dinitro-o-cresol	ug/kg	< 3000	< 4000	< 3000	< 3000	< 3000	< 3000	< 3000	< 3000
2,4-Dinitrophenol	ug/kg	< 5000	< 6000	< 5000	< 5000	< 5000	< 5000	< 5000	< 5000
2-Nitrophenol	ug/kg	< 400	< 500	< 500	< 400	< 400	< 500	< 400	< 500
4-Nitrophenol	ug/kg	< 286	< 353	< 300	< 293	< 279	< 300	< 282	< 300
p-Chloro-m-cresol	ug/kg	< 400	< 400	< 400	< 400	< 300	< 400	< 353	< 375
Pentachlorophenol	ug/kg	< 400	< 500	< 500	< 400	< 400	< 500	< 400	< 500
Phenol	ug/kg	< 200	< 200	< 190	2390	< 200	< 200	< 176	469
2,4,6-Trichlorophenol	ug/kg	< 300	< 400	< 300	< 300	< 300	< 300	< 300	< 300
Priority Poll. B/Ns GC/MS									
Acenaphthene	ug/kg	843	754	< 241	435	672	1130	809	706
Acenaphthylene	ug/kg	< 400	< 500	< 400	618	< 400	< 400	< 400	< 400
Anthracene	ug/kg	2550	1200	< 241	662	909	1930	1170	1080
Benzo(a)anthracene	ug/kg	3660	1820	< 987	460	1910	3330	1270	1680
Benzo(a)pyrene	ug/kg	3120	1560	< 300	428	1680	2740	1010	1460
Benzo(b)fluoranthene	ug/kg	2800	1550	150	651	1860	3210	1200	1490
Benzo(ghi)perylene	ug/kg	2070	990	< 500	< 500	1440	2150	821	1050
Benzo(k)fluoranthene	ug/kg	< 298	< 368	< 316	< 305	< 291	< 313	< 294	< 313
bis(2-Chloroethoxy)methane	ug/kg	< 600	< 800	< 700	< 600	< 600	< 700	< 600	< 700
bis(2-Chloroethyl) ether	ug/kg	< 700	< 800	< 700	< 700	< 700	< 700	< 700	< 700
bis(2-Chloroisopropyl)ether	ug/kg	< 700	< 800	< 700	< 700	< 700	< 700	< 671	< 700
bis(2-Ethylhexyl)phthalate	ug/kg	430	400	490	890	810	690	380	510
4-Bromophenyl phenyl ether	ug/kg	< 200	< 300	< 200	< 200	< 200	< 200	< 200	< 200
Butyl benzyl phthalate	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
2-Chloronaphthalene	ug/kg	< 200	< 300	< 200	< 200	< 200	< 200	< 224	< 238
4-Chlorophenyl phenyl ether	ug/kg	< 500	< 600	< 500	< 500	< 500	< 500	< 500	< 500
Chrysene	ug/kg	3980	1940	< 316	584	2120	3820	1640	1850
Dibenzo(a,h)anthracene	ug/kg	< 298	< 400	< 300	< 300	< 291	< 313	< 300	< 300
1,2-Dichlorobenzene	ug/kg	< 200	< 300	< 200	430	< 200	< 200	< 200	< 200
1,3-Dichlorobenzene	ug/kg	< 200	< 300	< 200	< 232	< 200	< 200	< 200	< 200
1,4-Dichlorobenzene	ug/kg	< 500	< 600	< 600	< 537	< 500	< 600	< 500	< 600
3,3'-Dichlorobenzidine	ug/kg	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000
Diethyl phthalate	ug/kg	< 1190	< 1000	< 1270	< 1000	< 1160	< 1250	< 1000	< 1000
Dimethyl phthalate	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1250	< 1000	< 1000
Di-n-butyl phthalate	ug/kg	2480	16100	10200	2400	9620	3540	30100	3180

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below — *ETC Sample No.* | WASTE MANAGEMENT, INC. — *Company* | 705 — *Facility* | See Below — *Sample Point* | *Date*

Parameters	Units	Sample Points, Sampling Dates, and ETC Sample No.'s							
		S FG-4S 911022 HA6455	S FG-10D 911022 HA6457	S FG-4D 911022 HA6461	S FIELDUP01 911023 HA6463	S FG-3S 911023 HA6464	S FG-3D 911023 HA6465	S FG-2S 911023 HA6466	S FG-2D 911023 HA6470
2,4-Dinitrotoluene	ug/kg	< 700	< 800	< 700	< 700	< 700	< 700	< 700	< 700
2,6-Dinitrotoluene	ug/kg	< 200	< 300	< 200	< 200	< 200	< 200	< 200	< 200
Di-n-octyl phthalate	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
Fluoranthene	ug/kg	8750	4680	310	1100	4430	8760	3620	3950
Fluorene	ug/kg	1270	1200	< 241	1180	653	1760	960	905
Hexachlorobenzene	ug/kg	< 200	< 300	< 200	< 200	< 200	< 200	< 200	< 200
Hexachlorobutadiene	ug/kg	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
Hexachlorocyclopentadiene	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
Hexachloroethane	ug/kg	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200
Indeno(1,2,3-c,d)pyrene	ug/kg	2100	1060	< 500	< 451	1460	2250	766	1060
Isophorone	ug/kg	< 300	< 300	< 278	< 300	< 300	< 275	< 259	< 300
Naphthalene	ug/kg	836	1980	170	4490	338	3590	1400	1160
Nitrobenzene	ug/kg	< 200	< 300	< 241	< 200	< 200	< 238	< 224	< 200
N-Nitrosodimethylamine	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
N-Nitrosodi-n-propylamine	ug/kg	< 1190	< 1470	< 1270	< 1220	< 1160	< 1250	< 1180	< 1250
N-Nitrosodiphenylamine	ug/kg	< 200	< 300	< 200	< 200	< 200	< 200	< 200	284
Phenanthrene	ug/kg	7550	5650	500	3120	4270	9770	6100	4600
Pyrene	ug/kg	7280	4190	292	1330	4020	6820	4070	3710
1,2,4-Trichlorobenzene	ug/kg	< 200	< 300	< 200	< 200	< 200	< 200	< 200	< 200
Metals Analysis Data									
Antimony	ug/kg	< 7100	< 8800	< 7600	< 7400	7600	< 7500	< 7100	9400
Arsenic	ug/kg	9600	11000	5600	380000	48000	24000	76000	46000
Beryllium	ug/kg	760	680	870	810	640	1000	760	690
Cadmium	ug/kg	2500	1800	2300	2900	3100	3100	2800	2800
Chromium	ug/kg	20000	15000	21000	23000	14000	27000	35000	16000
Copper	ug/kg	40000	34000	26000	52000	55000	41000	38000	44000
Lead	ug/kg	76000	310000	19000	150000	150000	100000	75000	180000
Mercury	ug/kg	110	350	71	240	3800	560	3100	1100
Nickel	ug/kg	28000	14000	30000	33000	23000	27000	32000	18000
Selenium	ug/kg	380	290	300	590	320	300	520	300
Silver	ug/kg	500	490	280	550	480	450	380	690
Thallium	ug/kg	490	< 1500	400	850	740	440	940	560
Zinc	ug/kg	120000	160000	65000	150000	98000	130000	120000	190000

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		S FG-4S 911022 HA6455	S FG-10D 911022 HA6457	S FG-4D 911022 HA6461	S FILLDUP01 911023 HA6463	S FG-3S 911023 HA6464	S FG-3D 911023 HA6465	S FG-2S 911023 HA6466	S FG-2D 911023 HA6470
Field Parameters									
Sample Depth	Feet	6	12	15	-	6	14	6	12
Miscellaneous Parameters									
Ending Sample Depth	Feet	8	14	17	-	8	16	8	14

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected "-"=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		S FG-1S 911023 HA6476	S FG-1D 911023 HA6477	S FG-7S 911023 HA6478	S FG-7D 911023 HA6479	S FG-8S 911023 HA6481	S FG-8D 911023 HA6482	S FG-9S 911024 HA6485	S FG-9D 911024 HA6486
Priority Poll. Volatiles GC/MS									
Benzene	ug/kg	< 50	< 6	670	48.8	1980	116	9570	2920
Bromoform	ug/kg	< 60	< 6	< 60	< 30	< 300	< 6	< 3000	< 600
Carbon tetrachloride	ug/kg	< 40	< 4	< 60	< 30	< 200	< 6	< 2000	< 300
Chlorobenzene	ug/kg	< 80	< 8	< 70	< 40	< 361	14.4	1600	670
Chlorodibromomethane	ug/kg	< 40	< 4	< 60	< 30	< 200	< 6	< 2000	< 400
Chloroethane	ug/kg	< 100	< 10	< 100	< 60	< 600	< 10	< 6000	< 1000
2-Chloroethylvinyl ether	ug/kg	< 100	< 10	-	-	< 600	-	< 6000	< 1000
Chloroform	ug/kg	< 20	< 2	< 60	< 30	< 100	< 6	< 1000	< 200
Dichlorobromomethane	ug/kg	< 30	< 3	< 60	< 30	< 100	< 6	< 1000	< 300
Dichlorodifluoromethane	ug/kg	< 100	< 10	< 2000	< 1000	< 600	< 300	< 6000	< 1000
1,1-Dichloroethane	ug/kg	88.1	< 6	< 60	< 30	180	< 6	< 3000	< 600
1,2-Dichloroethane	ug/kg	< 40	< 4	< 60	< 30	< 200	< 6	< 2000	< 300
1,1-Dichloroethylene	ug/kg	832	34.7	580	153	400	68.2	200000	44400
1,2-Dichloropropane	ug/kg	< 80	< 8	< 70	< 40	< 400	< 8	< 4000	< 700
cis-1,3-Dichloropropylene	ug/kg	< 60	< 6	< 60	< 30	< 300	< 6	< 3000	< 600
Ethylbenzene	ug/kg	< 90	< 9	64	< 50	< 434	< 9	4100	2070
Methyl bromide	ug/kg	< 100	< 10	< 100	< 60	< 600	< 10	< 6000	< 1000
Methyl chloride	ug/kg	< 100	< 10	< 100	< 60	< 600	< 10	< 6000	< 1000
Methylene chloride	ug/kg	246	12.7	134	1010	1360	8.23	69300	39900
1,1,2,2-Tetrachloroethane	ug/kg	< 90	< 9	< 90	< 40	< 400	< 9	< 4000	< 800
Tetrachloroethylene	ug/kg	< 50	< 5	< 60	< 30	86	59.5	6390	2120
Toluene	ug/kg	< 80	< 8	544	39.2	1220	73.0	11900	4620
1,2-Trans-dichloroethylene	ug/kg	< 20.0	< 2.08	< 61.7	< 31.6	< 96.4	< 6.33	< 1030	< 188
1,1,1-Trichloroethane	ug/kg	< 50	< 5	< 60	< 30	< 200	< 6	< 2000	220
1,1,2-Trichloroethane	ug/kg	< 60	< 6	344	< 30	< 300	< 6	225000	47600
Trichloroethylene	ug/kg	< 20	< 2	< 100	< 60	266	16.8	10300	3340
Trichlorofluoromethane	ug/kg	< 100	< 10	< 100	< 60	< 600	< 10	< 6000	< 1000
Vinyl chloride	ug/kg	1400	26.9	2670	1240	< 600	55.6	< 6000	< 1000
trans-1,3-Dichloropropylene	ug/kg	< 100	< 10	< 100	< 60	< 600	< 10	< 6000	< 1000
Priority Poll. Acids GC/MS									
2-Chlorophenol	ug/kg	< 2000	< 400	< 400	< 400	< 400	< 400	< 400	< 2000
2,4-Dichlorophenol	ug/kg	< 2000	< 351	524	< 300	449	< 300	62700	< 1590

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		S FG-1S 911023 HA6476	S FG-1D 911023 HA6477	S FG-7S 911023 HA6478	S FG-7D 911023 HA6479	S FG-8S 911023 HA6481	S FG-8D 911023 HA6482	S FG-9S 911024 HA6485	S FG-9D 911024 HA6486
2,4-Dimethylphenol	ug/kg	< 2000	< 351	< 321	< 300	270	< 300	< 346	< 2000
4,6-Dinitro-o-cresol	ug/kg	<20000	< 3000	< 3000	< 3000	< 3000	< 3000	< 3000	<10000
2,4-Dinitrophenol	ug/kg	<30000	< 5000	< 5000	< 5000	< 5000	< 5000	< 5000	<20000
2-Nitrophenol	ug/kg	< 2000	< 500	< 400	< 500	< 400	< 500	< 500	< 2000
4-Nitrophenol	ug/kg	< 1500	< 312	< 286	< 304	< 289	< 304	< 308	< 1410
p-Chloro-m-cresol	ug/kg	< 2000	< 390	< 400	< 400	< 361	< 400	< 385	< 2000
Pentachlorophenol	ug/kg	< 2000	< 500	< 400	< 500	887	< 500	774	< 2000
Phenol	ug/kg	< 900	217	11000	1750	343	< 200	7290	< 900
2,4,6-Trichlorophenol	ug/kg	< 2000	< 400	< 300	< 300	< 300	< 300	668	< 2000
Priority Poll. B/Ns GC/MS									
Acenaphthene	ug/kg	1100	1020	2850	510	1180	< 241	299	980
Acenaphthylene	ug/kg	< 2000	< 455	3680	< 443	< 422	< 400	< 449	< 2000
Anthracene	ug/kg	2590	1780	4000	1130	3360	318	1520	1150
Benzo(a)anthracene	ug/kg	4200	2690	1710	1780	1540	380	2770	1900
Benzo(a)pyrene	ug/kg	3690	2370	1350	1730	977	290	2670	1610
Benzo(b)fluoranthene	ug/kg	3010	2150	1070	1630	1250	260	2290	1500
Benzo(ghi)perylene	ug/kg	< 3000	1450	1080	1110	683	< 500	1900	< 2000
Benzo(k)fluoranthene	ug/kg	< 1560	< 325	< 298	< 316	< 301	< 316	< 321	< 1470
bis(2-Chloroethoxy)methane	ug/kg	< 3000	< 700	< 600	< 700	< 600	< 700	< 700	< 3000
bis(2-Chloroethyl) ether	ug/kg	< 4000	< 700	< 700	< 700	< 700	< 700	< 700	< 3000
bis(2-Chloroisopropyl)ether	ug/kg	< 4000	< 700	< 700	< 700	< 700	< 700	< 700	< 3000
bis(2-Ethylhexyl)phthalate	ug/kg	< 6000	610	2560	440	< 1000	340	690	< 6000
4-Bromophenyl phenyl ether	ug/kg	< 1000	< 200	< 200	< 200	< 200	< 200	< 200	< 1000
Butyl benzyl phthalate	ug/kg	< 6000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 6000
2-Chloronaphthalene	ug/kg	< 1000	< 247	< 200	< 200	< 229	< 200	< 200	< 1000
4-Chlorophenyl phenyl ether	ug/kg	< 3000	< 500	< 500	< 500	< 500	< 500	< 500	< 2000
Chrysene	ug/kg	4510	2970	2010	2050	2700	473	2940	1950
Dibenzo(a,h)anthracene	ug/kg	< 2000	< 300	< 300	< 300	< 300	< 300	< 300	< 1000
1,2-Dichlorobenzene	ug/kg	< 1000	< 200	160	< 200	< 200	< 200	349	< 1000
1,3-Dichlorobenzene	ug/kg	< 1000	< 200	< 226	< 200	< 200	< 200	< 244	< 1000
1,4-Dichlorobenzene	ug/kg	< 3000	< 600	< 524	< 600	< 500	< 600	< 564	< 3000
3,3'-Dichlorobenzidine	ug/kg	<10000	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	<10000
Diethyl phthalate	ug/kg	< 6000	< 1000	< 1000	< 1000	< 1000	< 1270	< 1280	< 6000
Dimethyl phthalate	ug/kg	< 6000	< 1000	< 1190	< 1000	< 1000	< 1000	< 1000	< 6000
Di-n-butyl phthalate	ug/kg	2200	2960	1430	1830	3210	2280	9900	1800

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		S FG-1S 911023 HA6476	S FG-1D 911023 HA6477	S FG-7S 911023 HA6478	S FG-7D 911023 HA6479	S FG-8S 911023 HA6481	S FG-8D 911023 HA6482	S FG-9S 911024 HA6485	S FG-9D 911024 HA6486
2,4-Dinitrotoluene	ug/kg	< 4000	< 700	< 679	< 700	< 700	< 700	< 700	< 3000
2,6-Dinitrotoluene	ug/kg	< 1000	< 200	< 226	< 200	< 200	< 200	< 200	< 1000
Di-n-octyl phthalate	ug/kg	< 6000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 6000
Fluoranthene	ug/kg	9550	6060	4720	3890	4550	954	5590	4500
Fluorene	ug/kg	2230	1680	6800	813	1290	210	394	1390
Hexachlorobenzene	ug/kg	< 1000	< 200	< 200	< 200	< 200	< 200	< 200	< 1000
Hexachlorobutadiene	ug/kg	< 600	< 100	< 100	< 100	< 100	< 100	< 100	< 500
Hexachlorocyclopentadiene	ug/kg	< 6000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 6000
Hexachloroethane	ug/kg	< 1000	< 200	< 200	< 200	< 200	< 200	< 200	< 900
Indeno(1,2,3-c,d)pyrene	ug/kg	< 2000	1530	1080	1060	651	< 500	1760	< 2000
Isophorone	ug/kg	< 1000	< 300	< 262	< 300	< 265	< 300	< 300	< 1000
Naphthalene	ug/kg	5150	3990	12600	2090	2360	214	3610	2320
Nitrobenzene	ug/kg	< 1000	< 247	< 226	< 241	< 229	< 200	865	< 1000
N-Nitrosodimethylamine	ug/kg	< 6000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1280	< 6000
N-Nitrosodi-n-propylamine	ug/kg	< 6000	< 1300	< 1190	< 1270	< 1200	< 1270	< 1280	< 6000
N-Nitrosodiphenylamine	ug/kg	< 1000	< 200	< 200	< 200	< 200	< 200	< 200	< 1000
Phenanthrene	ug/kg	13000	8570	14900	4300	8600	1100	7280	6160
Pyrene	ug/kg	7790	5270	6230	3180	6670	932	5350	3860
1,2,4-Trichlorobenzene	ug/kg	< 1000	< 200	< 200	< 200	< 200	< 200	< 200	< 1000
Metals Analysis Data									
Antimony	ug/kg	< 7500	< 7800	< 7400	< 7600	< 7200	< 7600	< 7700	< 7000
Arsenic	ug/kg	7600	7900	29000	16000	193000	33000	4800	6500
Beryllium	ug/kg	700	1100	2500	620	990	560	2000	630
Cadmium	ug/kg	1800	2900	5000	2400	2600	2000	2400	1600
Chromium	ug/kg	18000	19000	453000	13000	45000	14000	41000	14000
Copper	ug/kg	27000	29000	110000	71000	90000	43000	53000	20000
Lead	ug/kg	69000	90000	390000	110000	110000	190000	48000	91000
Mercury	ug/kg	110	190	590	190	190	240	220	220
Nickel	ug/kg	18000	17000	47000	20000	34000	15000	32000	11000
Selenium	ug/kg	400	310	8200	830	1200	480	1300	280
Silver	ug/kg	420	480	1300	600	470	< 1300	460	460
Thallium	ug/kg	510	410	< 1200	510	3200	< 1300	330	480
Zinc	ug/kg	98000	266000	1410000	160000	160000	210000	74000	87000

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

DATE: 10/14/93
PAGE: 8

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		S FG-1S 911023 HA6476	S FG-1D 911023 HA6477	S FG-7S 911023 HA6478	S FG-7D 911023 HA6479	S FG-8S 911023 HA6481	S FG-8D 911023 HA6482	S FG-9S 911024 HA6485	S FG-9D 911024 HA6486
Field Parameters									
Sample Depth	Feet	6	12	6	12	6	12	6	10
Miscellaneous Parameters									
Ending Sample Depth	Feet	8	14	8	14	8	16	8	14

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		S FG-17S 911024 HA6487	S FG-17D 911024 HA6488	S FG-10S 911028 HA6489	S FG-15D 911029 HA6490	S FG-11S 911029 HA6491	S FG-11D 911029 HA6492	S FG-5S 911029 HA6493	S FG-5D 911029 HA6494
Priority Poll. Volatiles GC/MS									
Benzene	ug/kg	877	58.2	< 5	2500	< 5	2280	847	589
Bromoform	ug/kg	< 300	< 10	< 6	< 3000	< 6	< 70	< 300	< 300
Carbon tetrachloride	ug/kg	< 200	< 9	< 3	< 2000	< 3	< 40	< 200	< 200
Chlorobenzene	ug/kg	140	12	< 7	7440	< 7	< 90	462	280
Chlorodibromomethane	ug/kg	< 200	< 10	< 4	< 2000	< 4	< 50	< 200	< 200
Chloroethane	ug/kg	< 600	< 30	< 10	< 6000	< 10	< 100	< 700	< 600
2-Chloroethylvinyl ether	ug/kg	< 600	< 30	< 10	< 6000	< 10	< 100	< 700	< 600
Chloroform	ug/kg	< 100	< 5	< 2	< 1000	< 2	< 20	< 100	< 100
Dichlorobromomethane	ug/kg	< 100	< 7	< 3	< 1000	< 3	< 30	< 200	< 100
Dichlorodifluoromethane	ug/kg	< 600	< 30	< 10	< 6000	< 10	< 100	< 700	< 600
1,1-Dichloroethane	ug/kg	< 300	< 10	< 6	< 3000	< 6	< 70	< 300	< 300
1,2-Dichloroethane	ug/kg	< 200	< 9	< 3	42000	< 3	235	< 200	< 200
1,1-Dichloroethylene	ug/kg	4860	450	4.16	< 2000	< 3	< 40	3370	1560
1,2-Dichloropropane	ug/kg	< 400	< 20	< 7	< 4000	< 7	< 90	< 400	< 400
cis-1,3-Dichloropropylene	ug/kg	< 300	< 20	< 6	< 3000	< 6	< 70	< 300	< 300
Ethylbenzene	ug/kg	< 400	< 20	< 9	< 4000	< 9	< 100	< 500	< 400
Methyl bromide	ug/kg	< 600	< 30	< 10	< 6000	< 10	< 100	< 700	< 600
Methyl chloride	ug/kg	< 600	< 30	< 10	< 6000	< 10	< 100	< 700	< 600
Methylene chloride	ug/kg	369	298	< 3	< 2000	< 3	< 40	1480	< 200
1,1,2,2-Tetrachloroethane	ug/kg	< 400	< 20	< 8	< 4000	< 8	< 100	< 500	< 400
Tetrachloroethylene	ug/kg	< 300	< 10	< 5	< 3000	< 5	< 60	< 300	< 300
Toluene	ug/kg	2360	79.1	< 7	6250	< 7	< 90	1440	1330
1,2-Trans-dichloroethylene	ug/kg	< 97.6	< 5.00	< 2	< 1000	< 2	< 20	< 111	< 98.8
1,1,1-Trichloroethane	ug/kg	< 200	< 10	< 5	< 2000	< 5	< 60	< 300	< 200
1,1,2-Trichloroethane	ug/kg	< 300	< 20	< 6	< 3000	< 6	< 70	< 300	< 309
Trichloroethylene	ug/kg	< 100	< 6	< 2	< 1000	< 2	< 30	< 100	< 100
Trichlorofluoromethane	ug/kg	< 600	< 30	< 10	< 6000	22.4	< 100	< 700	< 600
Vinyl chloride	ug/kg	< 600	1440	< 10	< 6000	< 10	< 100	< 700	< 600
trans-1,3-Dichloropropylene	ug/kg	< 600	< 30	< 10	< 6000	< 10	< 100	< 700	< 600
Priority Poll. Acids GC/MS									
2-Chlorophenol	ug/kg	< 400	< 400	< 400	< 4000	< 4000	1060	< 4000	< 4000
2,4-Dichlorophenol	ug/kg	3560	< 300	< 300	2500	< 3000	1930	1900	2500

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

DATE: 10/14/93
PAGE: 10

Chain of Custody Data Required for ETC Data Management Summary Report

See Below				See Below	
ETC Sample No.	WASTE MANAGEMENT, INC. *Company*	705 *Facility*		*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		S FG-17S 911024 HA6487	S FG-17D 911024 HA6488	S FG-10S 911028 HA6489	S FG-15D 911029 HA6490	S FG-11S 911029 HA6491	S FG-11D 911029 HA6492	S FG-5S 911029 HA6493	S FG-5D 911029 HA6494
2,4-Dimethylphenol	ug/kg	290	< 300	< 300	< 3000	< 3000	< 403	< 3000	< 3000
4,6-Dinitro-o-cresol	ug/kg	< 3000	< 3000	< 3000	<30000	<30000	< 4000	<30000	<30000
2,4-Dinitrophenol	ug/kg	< 5000	< 5000	< 5000	<50000	<50000	< 6000	<50000	<50000
2-Nitrophenol	ug/kg	< 400	< 500	< 400	< 4000	< 4000	< 500	< 5000	< 4000
4-Nitrophenol	ug/kg	< 276	< 300	< 300	< 3000	< 3000	< 400	< 3000	< 3000
p-Chloro-m-cresol	ug/kg	< 300	< 400	< 400	< 4000	< 4000	< 400	< 4000	< 4000
Pentachlorophenol	ug/kg	< 400	< 500	< 400	< 4000	< 4000	< 500	< 5000	< 4000
Phenol	ug/kg	9110	< 200	< 200	2890	< 2000	963	9680	12200
2,4,6-Trichlorophenol	ug/kg	< 300	< 300	< 300	< 3000	< 3000	190	< 3000	< 3000
Priority Poll. B/Ns GC/MS									
Acenaphthene	ug/kg	1570	331	< 226	340	< 2000	< 284	500	800
Acenaphthylene	ug/kg	< 402	< 400	< 400	< 4000	< 4000	< 500	< 4000	< 4000
Anthracene	ug/kg	3210	525	< 226	550	< 2000	< 284	590	1900
Benzo(a)anthracene	ug/kg	6720	890	< 900	1200	<10000	< 1000	1500	8200
Benzo(a)pyrene	ug/kg	5600	745	< 300	1100	< 3000	< 400	1400	6800
Benzo(b)fluoranthene	ug/kg	5590	878	< 600	1100	< 6000	< 700	< 6150	6940
Benzo(ghi)perylene	ug/kg	4660	563	< 500	< 5000	< 5000	< 600	980	4000
Benzo(k)fluoranthene	ug/kg	< 287	< 313	< 300	< 3090	< 3000	< 400	< 3210	< 3090
bis(2-Chloroethoxy)methane	ug/kg	< 600	< 700	< 600	< 7000	< 6000	< 800	< 7000	< 7000
bis(2-Chloroethyl) ether	ug/kg	< 700	< 700	< 700	< 7000	< 7000	< 900	< 7000	< 7000
bis(2-Chloroisopropyl)ether	ug/kg	< 700	< 700	< 700	< 7000	< 7000	< 900	< 7000	< 7000
bis(2-Ethylhexyl)phthalate	ug/kg	380	240	280	<10000	<10000	1100	<10000	<10000
4-Bromophenyl phenyl ether	ug/kg	< 200	< 200	< 200	< 2000	< 2000	< 300	< 2000	< 2000
Butyl benzyl phthalate	ug/kg	< 1000	< 1000	< 1000	<10000	<10000	< 1000	<10000	<10000
2-Chloronaphthalene	ug/kg	< 200	< 200	< 200	< 2000	< 2000	< 300	< 2000	< 2000
4-Chlorophenyl phenyl ether	ug/kg	< 500	< 500	< 500	< 5000	< 5000	< 600	< 5000	< 5000
Chrysene	ug/kg	7570	981	< 300	1400	< 3000	< 400	1800	9460
Dibenzo(a,h)anthracene	ug/kg	< 287	< 300	< 300	< 3000	< 3000	< 400	< 3000	1100
1,2-Dichlorobenzene	ug/kg	< 200	< 200	< 200	< 2000	< 2000	< 300	< 2000	< 2000
1,3-Dichlorobenzene	ug/kg	< 200	< 200	< 200	< 2000	< 2000	< 300	< 2000	< 2000
1,4-Dichlorobenzene	ug/kg	< 500	< 600	< 500	< 5000	< 5000	< 700	< 6000	< 5000
3,3'-Dichlorobenzidine	ug/kg	< 2000	< 2000	< 2000	<20000	<20000	< 2000	<20000	<20000
Diethyl phthalate	ug/kg	< 1000	< 1000	< 1190	<10000	<10000	< 1490	<10000	<10000
Dimethyl phthalate	ug/kg	< 1000	< 1000	< 1000	<10000	<10000	< 1000	<10000	<10000
Di-n-butyl phthalate	ug/kg	3690	8700	1200	1400	1600	2510	1300	1500

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Sample Points, Sampling Dates, and ETC Sample No.'s

Parameters	Units	S FG-17S 911024 HA6487	S FG-17D 911024 HA6488	S FG-10S 911028 HA6489	S FG-15D 911029 HA6490	S FG-11S 911029 HA6491	S FG-11D 911029 HA6492	S FG-5S 911029 HA6493	S FG-5D 911029 HA6494
2,4-Dinitrotoluene	ug/kg	< 700	< 713	< 700	< 7000	< 7000	< 900	< 7000	< 7000
2,6-Dinitrotoluene	ug/kg	< 200	< 200	< 200	< 2000	< 2000	< 300	< 2000	< 2000
Di-n-octyl phthalate	ug/kg	< 1000	< 1000	< 1000	<10000	<10000	280	<10000	<10000
Fluoranthene	ug/kg	14200	2370	< 262	2700	< 3000	180	3450	14200
Fluorene	ug/kg	2450	463	30	490	< 2000	35	700	1000
Hexachlorobenzene	ug/kg	< 200	< 200	< 200	2300	< 2000	< 300	< 2000	< 2000
Hexachlorobutadiene	ug/kg	< 100	< 100	< 100	< 1000	< 1000	< 100	< 1000	< 1000
Hexachlorocyclopentadiene	ug/kg	< 1000	< 1000	< 1000	<10000	<10000	< 1000	<10000	<10000
Hexachloroethane	ug/kg	< 200	< 200	< 200	< 2000	< 2000	< 200	< 2000	< 2000
Indeno(1,2,3-c,d)pyrene	ug/kg	4810	548	< 400	< 5000	< 5000	< 600	930	1900
Isophorone	ug/kg	< 300	< 275	< 262	< 3000	< 3000	< 300	< 3000	< 3000
Naphthalene	ug/kg	2300	496	100	2510	< 2000	55	700	770
Nitrobenzene	ug/kg	< 218	< 238	< 200	< 2000	< 2000	< 300	< 2000	< 2000
N-Nitrosodimethylamine	ug/kg	< 1150	< 1000	< 1000	<10000	<10000	< 1000	<10000	<10000
N-Nitrosodi-n-propylamine	ug/kg	< 1150	< 1250	< 1190	<10000	<12200	< 1490	<10000	<10000
N-Nitrosodiphenylamine	ug/kg	< 200	< 200	< 226	< 2000	< 2000	< 300	< 2000	< 2000
Phenanthrene	ug/kg	12300	2640	260	2800	< 7000	150	3200	7800
Pyrene	ug/kg	12600	2100	100	2300	< 2000	442	3030	12000
1,2,4-Trichlorobenzene	ug/kg	< 200	< 200	< 200	< 2000	< 2000	< 300	< 2000	< 2000
Metals Analysis Data									
Antimony	ug/kg	< 7300	< 7500	< 7200	2900	< 7300	< 9000	< 8300	< 7500
Arsenic	ug/kg	4800	8500	3200	3400	6300	26000	30000	23000
Beryllium	ug/kg	620	700	1000	660	790	2300	3100	2000
Cadmium	ug/kg	1900	1800	2500	3200	2800	9100	7700	5700
Chromium	ug/kg	18000	18000	31000	141000	18000	62000	55000	45000
Copper	ug/kg	136000	31000	32000	26000	46000	35000	29000	51000
Lead	ug/kg	530000	39000	38000	30000	74000	62000	120000	120000
Mercury	ug/kg	48	70	48	64	100	66	94	140
Nickel	ug/kg	15000	31000	31000	16000	17000	36000	25000	21000
Selenium	ug/kg	200	280	< 3000	320	< 610	2600	2900	3100
Silver	ug/kg	500	610	540	630	470	400	420	400
Thallium	ug/kg	450	400	750	< 1200	260	3000	3700	2500
Zinc	ug/kg	277000	59000	79000	64000	140000	341000	308000	262000

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected "-"=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

DATE: 10/14/93
PAGE: 12

Chain of Custody Data Required for ETC Data Management Summary Report

See Below				See Below	
ETC Sample No.	WASTE MANAGEMENT, INC. *Company*	705 *Facility*		*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		S FG-17S 911024 HA6487	S FG-17D 911024 HA6488	S FG-10S 911028 HA6489	S FG-15D 911029 HA6490	S FG-11S 911029 HA6491	S FG-11D 911029 HA6492	S FG-5S 911029 HA6493	S FG-5D 911029 HA6494
Field Parameters									
Sample Depth	Feet	6	15	6	18	2	14	6	12
Miscellaneous Parameters									
Ending Sample Depth	Feet	8	17	8	20	6	16	8	14

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

DATE: 10/14/93
PAGE: 13

Chain of Custody Data Required for ETC Data Management Summary Report

See Below				See Below	
ETC Sample No.	WASTE MANAGEMENT, INC.	*Company*	705 *Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		S FG-6S 911029 HA6642	S FG-6D 911029 HA6643	S FG-15S 911029 HA6644	S FILLDUP02 911029 HA6645	S FG-16S 911029 HA6646	S FG-16D 911029 HA6647	S FG-14D 911105 HA6495	S FG-13S 911105 HA6651
Priority Poll. Volatiles GC/MS									
Benzene	ug/kg	10.6	8.36	88.5	7.95	14.6	1390	828	180
Bromoform	ug/kg	< 7	< 7	< 30	< 5	< 6	< 60	< 300	< 500
Carbon tetrachloride	ug/kg	< 4	< 4	< 20	< 3	< 3	< 40	< 200	< 300
Chlorobenzene	ug/kg	< 8	< 9	25	5.4	< 7	495	71	580
Chlorodibromomethane	ug/kg	< 4	< 4	< 20	< 4	< 4	< 40	< 200	< 300
Chloroethane	ug/kg	< 10	< 10	< 60	< 10	< 10	< 100	< 600	< 1000
2-Chloroethylvinyl ether	ug/kg	< 10	< 10	< 60	< 10	< 10	< 100	< 600	< 1000
Chloroform	ug/kg	< 2	< 2	< 9	< 2	< 2	< 20	< 100	< 200
Dichlorobromomethane	ug/kg	< 3	< 3	< 10	< 3	< 3	< 30	< 100	< 200
Dichlorodifluoromethane	ug/kg	< 10	< 10	< 60	< 10	< 10	< 100	< 600	< 1000
1,1-Dichloroethane	ug/kg	< 7	< 7	< 30	< 5	< 6	< 60	< 300	< 500
1,2-Dichloroethane	ug/kg	< 4	< 4	< 20	< 3	< 3	< 40	< 200	< 300
1,1-Dichloroethylene	ug/kg	< 4	< 4	431	32.3	< 3	< 40	< 200	< 300
1,2-Dichloropropane	ug/kg	< 8	< 9	< 30	< 7	< 7	< 80	< 400	< 700
cis-1,3-Dichloropropylene	ug/kg	< 7	< 7	< 30	< 6	< 6	< 60	< 300	< 600
Ethylbenzene	ug/kg	< 10	< 10	< 40	< 8	< 9	< 90	623	4070
Methyl bromide	ug/kg	< 10	< 10	< 60	< 10	< 10	< 100	< 600	< 1000
Methyl chloride	ug/kg	< 10	< 10	< 60	< 10	< 10	< 100	< 600	< 1000
Methylene chloride	ug/kg	14.9	13.7	355	51.9	< 3	< 40	476	< 300
1,1,2,2-Tetrachloroethane	ug/kg	< 10	< 10	< 40	< 8	< 8	< 90	< 400	< 800
Tetrachloroethylene	ug/kg	< 6	< 6	45.6	3.5	< 5	< 50	< 300	410
Toluene	ug/kg	< 8	< 9	286	41.1	< 7	225	4200	7110
1,2-Trans-dichloroethylene	ug/kg	< 2	< 2	< 9.09	< 1.84	< 2	< 20	< 100	< 200
1,1,1-Trichloroethane	ug/kg	< 5	< 6	< 20	< 4	< 5	< 50	< 200	< 400
1,1,2-Trichloroethane	ug/kg	< 7	< 7	< 30	< 6	< 6	< 60	< 300	< 600
Trichloroethylene	ug/kg	< 3	< 3	< 10	< 2	< 2	< 20	< 100	190
Trichlorofluoromethane	ug/kg	< 10	< 10	< 60	< 10	6.2	< 100	< 600	< 1000
Vinyl chloride	ug/kg	< 10	< 10	< 60	< 10	< 10	< 100	< 600	< 1000
trans-1,3-Dichloropropylene	ug/kg	< 10	< 10	< 60	< 10	< 10	< 100	< 600	< 1000
Priority Poll. Acids GC/MS									
2-Chlorophenol	ug/kg	< 500	< 500	< 400	< 400	< 4000	< 4000	< 4290	4610
2,4-Dichlorophenol	ug/kg	71	68	120	74	400	< 3000	2100	65000

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		S FG-6S 911029 HA6642	S FG-6D 911029 HA6643	S FG-15S 911029 HA6644	S FILLDUP02 911029 HA6645	S FG-16S 911029 HA6646	S FG-16D 911029 HA6647	S FG-14D 911105 HA6495	S FG-13S 911105 HA6651
2,4-Dimethylphenol	ug/kg	< 400	< 400	< 300	< 300	< 3000	< 3000	< 3510	< 3000
4,6-Dinitro-o-cresol	ug/kg	< 3000	< 3000	< 3000	< 3000	<30000	<30000	<30000	<30000
2,4-Dinitrophenol	ug/kg	< 6000	< 6000	< 5000	< 5000	<50000	<50000	<50000	<50000
2-Nitrophenol	ug/kg	< 500	< 500	< 400	< 400	< 4000	< 5000	< 5000	< 4000
4-Nitrophenol	ug/kg	< 300	< 300	< 300	< 300	< 3000	< 3000	< 3000	< 3000
p-Chloro-m-cresol	ug/kg	< 400	< 400	< 300	< 300	< 4000	< 4000	< 4000	< 3370
Pentachlorophenol	ug/kg	< 500	< 500	< 400	< 400	< 4000	3400	< 5000	< 4000
Phenol	ug/kg	900	504	< 200	< 200	< 2000	< 2000	< 2000	1690
2,4,6-Trichlorophenol	ug/kg	< 400	< 400	< 300	< 300	< 3000	< 3460	< 4000	4650
Priority Poll. B/Ns GC/MS									
Acenaphthene	ug/kg	100	283	< 200	29	210	740	< 2470	< 2000
Acenaphthylene	ug/kg	< 500	< 500	14	20	< 4000	< 4000	< 5000	< 4000
Anthracene	ug/kg	250	899	63	91	450	1300	1500	< 2130
Benzo(a)anthracene	ug/kg	570	1610	190	270	1400	2200	3800	< 9000
Benzo(a)pyrene	ug/kg	485	1340	200	287	1100	1900	3300	< 3000
Benzo(b)fluoranthene	ug/kg	852	1270	240	230	1100	1700	2700	< 5000
Benzo(ghi)perylene	ug/kg	320	943	< 500	230	< 5000	1300	< 5000	< 5000
Benzo(k)fluoranthene	ug/kg	< 352	959	< 284	< 287	790	< 3210	< 3250	< 3000
bis(2-Chloroethoxy)methane	ug/kg	< 700	< 800	< 600	< 600	< 6000	< 7000	< 7000	< 6000
bis(2-Chloroethyl) ether	ug/kg	< 800	< 800	< 600	< 700	< 7000	< 7000	< 7000	< 6000
bis(2-Chloroisopropyl)ether	ug/kg	< 800	< 800	< 600	< 700	< 7000	< 7000	< 7000	< 6000
bis(2-Ethylhexyl)phthalate	ug/kg	280	220	230	190	980	<10000	<10000	<11200
4-Bromophenyl phenyl ether	ug/kg	< 300	< 300	< 200	< 200	< 2000	< 2000	< 2000	< 2000
Butyl benzyl phthalate	ug/kg	< 1000	< 1000	< 1000	< 1000	<10000	<10000	<10000	<10000
2-Chloronaphthalene	ug/kg	< 300	< 300	< 200	< 200	< 2000	< 2000	< 2000	< 2000
4-Chlorophenyl phenyl ether	ug/kg	< 600	< 600	< 500	< 500	< 5000	< 5000	< 5000	< 5000
Chrysene	ug/kg	708	1740	240	329	1400	2500	4480	< 3000
Dibenzo(a,h)anthracene	ug/kg	< 400	< 362	< 300	< 300	< 3000	< 3000	< 3000	< 3000
1,2-Dichlorobenzene	ug/kg	< 300	< 300	< 200	< 200	< 2000	< 2000	< 2000	< 2000
1,3-Dichlorobenzene	ug/kg	< 300	< 300	< 200	< 200	< 2000	< 2000	< 2000	< 2000
1,4-Dichlorobenzene	ug/kg	< 600	< 600	< 500	< 500	< 5000	< 6000	< 6000	< 5000
3,3'-Dichlorobenzidine	ug/kg	< 2000	< 2000	< 2000	< 2000	<20000	<20000	<20000	<20000
Diethyl phthalate	ug/kg	< 1000	< 1450	< 1140	25	<10000	<10000	<10000	<10000
Dimethyl phthalate	ug/kg	< 1000	< 1000	< 1000	< 1000	<10000	<10000	<10000	<10000
Di-n-butyl phthalate	ug/kg	2740	3650	1800	2280	1900	1000	<13000	<11200

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	Units	S FG-6S 911029 HA6642	S FG-6D 911029 HA6643	S FG-15S 911029 HA6644	S FILLDUP02 911029 HA6645	S FG-16S 911029 HA6646	S FG-16D 911029 HA6647	S FG-14D 911105 HA6495	S FG-13S 911105 HA6651
2,4-Dinitrotoluene	ug/kg	< 800	< 800	< 600	< 700	< 7000	< 7000	< 7000	< 6000
2,6-Dinitrotoluene	ug/kg	< 300	< 300	< 200	< 200	< 2000	< 2000	< 2000	< 2000
Di-n-octyl phthalate	ug/kg	< 1000	< 1000	< 1000	< 1000	<10000	<10000	<10000	<10000
Fluoranthene	ug/kg	1300	8310	309	530	2600	5090	7120	< 2000
Fluorene	ug/kg	130	445	38	52	250	830	< 2000	< 2000
Hexachlorobenzene	ug/kg	< 300	< 300	< 200	< 200	< 2000	< 2000	< 2000	8930
Hexachlorobutadiene	ug/kg	< 100	< 100	< 100	< 100	< 1000	< 1000	< 1000	< 1000
Hexachlorocyclopentadiene	ug/kg	< 1000	< 1000	< 1000	< 1000	<10000	<10000	<10000	<10000
Hexachloroethane	ug/kg	< 200	< 200	< 200	< 200	< 2000	< 2000	< 2000	< 2000
Indeno(1,2,3-c,d)pyrene	ug/kg	< 500	903	< 400	190	< 4000	1000	< 5000	< 4000
Isophorone	ug/kg	< 300	< 300	< 300	< 300	< 3000	< 3000	< 3000	< 2000
Naphthalene	ug/kg	130	352	232	210	420	1000	2910	1400
Nitrobenzene	ug/kg	< 300	< 300	< 200	< 200	< 2000	< 2000	< 2000	2480
N-Nitrosodimethylamine	ug/kg	< 1000	< 1000	< 1000	< 1000	<10000	<10000	<10000	<10000
N-Nitrosodi-n-propylamine	ug/kg	< 1410	< 1450	< 1140	< 1150	<10000	<10000	<13000	<10000
N-Nitrosodiphenylamine	ug/kg	< 300	< 300	< 200	< 200	< 2000	< 2000	< 2000	< 2000
Phenanthrene	ug/kg	1210	3650	310	450	2200	5100	7550	< 6070
Pyrene	ug/kg	1040	3140	355	571	3020	4580	6710	< 2000
1,2,4-Trichlorobenzene	ug/kg	< 300	< 300	< 200	< 200	< 2000	< 2000	< 2000	< 2130
Metals Analysis Data									
Antimony	ug/kg	3000	< 8600	< 6900	< 6900	< 7200	< 7700	< 7800	< 6700
Arsenic	ug/kg	13000	17000	1700	5000	10000	6700	18000	2400
Beryllium	ug/kg	3000	2600	2100	1800	870	700	1100	480
Cadmium	ug/kg	4900	7100	21000	28600	2400	3700	4200	800
Chromium	ug/kg	29000	43000	798000	596000	15000	32000	25000	11000
Copper	ug/kg	23000	34000	48000	44000	35000	40000	33000	8000
Lead	ug/kg	41000	88000	43000	87000	130000	130000	100000	29000
Mercury	ug/kg	84	180	45	< 92	100	110	160	< 92
Nickel	ug/kg	20000	23000	13000	9000	14000	29000	34000	7100
Selenium	ug/kg	2400	2200	120	< 570	290	350	1700	150
Silver	ug/kg	460	680	3000	2700	420	410	470	240
Thallium	ug/kg	500	2400	< 1100	< 1100	290	310	1800	< 1100
Zinc	ug/kg	190000	240000	54000	100000	120000	120000	130000	42000

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		S FG-6S 911029 HA6642	S FG-6D 911029 HA6643	S FG-15S 911029 HA6644	S FILLDUP02 911029 HA6645	S FG-16S 911029 HA6646	S FG-16D 911029 HA6647	S FG-14D 911105 HA6495	S FG-13S 911105 HA6651
Field Parameters									
Sample Depth	Feet	6	13	6	-	6	18	14	2
Miscellaneous Parameters									
Ending Sample Depth	Feet	8	15	8	-	8	20	16	4

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below — *ETC Sample No.* | WASTE MANAGEMENT, INC. — *Company* | 705 — *Facility* | See Below — *Sample Point* | *Date*

Parameters	*Units*	S FG-13D 911105 HA6652	S FG-14S 911105 HA6653	S FG-12S 911106 HA6648	S FG-12D 911105 HA6649	X FIELDDUP03 911106 HA6650			
Priority Poll. Volatiles GC/MS									
Benzene	ug/kg	160	< 60	< 5	67.1	< 5			
Bromoform	ug/kg	< 300	< 60	< 6	< 30	< 6			
Carbon tetrachloride	ug/kg	< 200	< 40	< 3	< 20	< 3			
Chlorobenzene	ug/kg	180	< 80	< 7	< 40	2.1			
Chlorodibromomethane	ug/kg	< 200	< 40	< 4	< 20	< 4			
Chloroethane	ug/kg	< 700	< 100	< 10	< 60	< 10			
2-Chloroethylvinyl ether	ug/kg	< 700	< 100	< 10	< 60	< 10			
Chloroform	ug/kg	< 100	< 20	< 2	< 10	< 2			
Dichlorobromomethane	ug/kg	< 100	< 30	< 3	< 10	< 3			
Dichlorodifluoromethane	ug/kg	< 700	< 100	< 10	< 60	< 10			
1,1-Dichloroethane	ug/kg	< 300	< 60	< 6	< 30	< 6			
1,2-Dichloroethane	ug/kg	< 200	< 40	< 3	< 20	< 3			
1,1-Dichloroethylene	ug/kg	460	< 40	< 3	< 20	< 3			
1,2-Dichloropropane	ug/kg	< 400	< 80	< 7	< 40	< 7			
cis-1,3-Dichloropropylene	ug/kg	< 300	< 70	< 6	< 30	< 6			
Ethylbenzene	ug/kg	946	42	< 9	216	< 8			
Methyl bromide	ug/kg	< 700	< 100	< 10	< 60	< 10			
Methyl chloride	ug/kg	< 700	< 100	< 10	< 60	< 10			
Methylene chloride	ug/kg	542	< 40	< 3	45.0	< 3			
1,1,2,2-Tetrachloroethane	ug/kg	< 500	< 90	< 8	< 40	< 8			
Tetrachloroethylene	ug/kg	140	< 50	< 5	< 30	< 5			
Toluene	ug/kg	4830	272	< 7	349	5.1			
1,2-Trans-dichloroethylene	ug/kg	< 100	< 20	< 2	< 10	< 2			
1,1,1-Trichloroethane	ug/kg	< 257	< 50	< 5	< 20	< 4			
1,1,2-Trichloroethane	ug/kg	< 300	< 70	< 6	< 30	< 6			
Trichloroethylene	ug/kg	< 100	< 30	< 2	< 10	< 2			
Trichlorofluoromethane	ug/kg	< 700	< 100	< 10	< 60	< 10			
Vinyl chloride	ug/kg	< 700	< 100	< 10	< 60	< 10			
trans-1,3-Dichloropropylene	ug/kg	< 700	< 100	< 10	< 60	< 10			
Priority Poll. Acids GC/MS									
2-Chlorophenol	ug/kg	3700	< 4400	< 402	< 4000	< 407			
2,4-Dichlorophenol	ug/kg	44400	3000	< 329	< 3510	< 300			

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below — *ETC Sample No.* | WASTE MANAGEMENT, INC. — *Company* | 705 — *Facility* | See Below — *Sample Point* | *Date*

Parameters	Units	S FG-13D 911105 HA6652	S FG-14S 911105 HA6653	S FG-12S 911106 HA6648	S FG-12D 911105 HA6649	X FILLDUP03 911106 HA6650
2,4-Dimethylphenol	ug/kg	< 4000	< 4000	< 300	< 4000	< 300
4,6-Dinitro-o-cresol	ug/kg	<30000	<30000	< 3000	<30000	< 3000
2,4-Dinitrophenol	ug/kg	<60000	<60000	< 5000	<50000	< 5000
2-Nitrophenol	ug/kg	< 5000	< 5000	< 400	< 5000	< 400
4-Nitrophenol	ug/kg	< 3000	< 3000	< 300	< 3000	< 300
p-Chloro-m-cresol	ug/kg	< 4050	< 4000	< 400	< 4000	< 400
Pentachlorophenol	ug/kg	< 5000	< 5000	< 400	< 5000	< 400
Phenol	ug/kg	< 2000	< 2000	435	3180	396
2,4,6-Trichlorophenol	ug/kg	2400	< 4000	< 300	< 4000	< 300
Priority Poll. B/Ns GC/MS						
Acenaphthene	ug/kg	< 3000	< 3000	< 200	1400	< 200
Acenaphthylene	ug/kg	< 5000	< 5000	< 400	< 5000	< 400
Anthracene	ug/kg	< 3000	< 3000	< 232	4320	< 235
Benzo(a)anthracene	ug/kg	<10000	<10000	< 1000	5800	< 1000
Benzo(a)pyrene	ug/kg	< 3000	< 3000	< 300	4680	< 300
Benzo(b)fluoranthene	ug/kg	< 6000	< 6000	< 600	4000	< 600
Benzo(ghi)perylene	ug/kg	< 6000	< 5000	< 500	< 5000	< 500
Benzo(k)fluoranthene	ug/kg	< 3000	< 3000	< 300	< 3250	< 300
bis(2-Chloroethoxy)methane	ug/kg	< 7000	< 7000	< 600	< 7000	< 700
bis(2-Chloroethyl) ether	ug/kg	< 8000	< 8000	< 700	< 7000	< 700
bis(2-Chloroisopropyl)ether	ug/kg	< 8000	< 8000	< 700	< 7000	< 700
bis(2-Ethylhexyl)phthalate	ug/kg	<13500	<10000	< 1220	<13000	770
4-Bromophenyl phenyl ether	ug/kg	< 3000	< 3000	< 200	< 2000	< 200
Butyl benzyl phthalate	ug/kg	<10000	<10000	< 1000	<10000	< 1000
2-Chloronaphthalene	ug/kg	< 3000	< 3000	< 200	< 2000	< 200
4-Chlorophenyl phenyl ether	ug/kg	< 6000	< 6000	< 500	< 5000	< 500
Chrysene	ug/kg	< 3000	< 3000	< 300	6400	< 300
Dibenzo(a,h)anthracene	ug/kg	< 3000	< 3000	< 300	< 3000	< 300
1,2-Dichlorobenzene	ug/kg	< 3000	< 3000	< 200	< 2000	< 200
1,3-Dichlorobenzene	ug/kg	< 3000	< 3000	< 200	< 2000	< 200
1,4-Dichlorobenzene	ug/kg	< 6000	< 6000	< 500	< 6000	< 500
3,3'-Dichlorobenzidine	ug/kg	<20000	<20000	< 2000	<20000	< 2000
Diethyl phthalate	ug/kg	<10000	<10000	< 1000	<10000	< 1230
Dimethyl phthalate	ug/kg	<10000	<10000	< 1000	<10000	< 1000
Di-n-butyl phthalate	ug/kg	<13500	<13300	8640	<13000	28300

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		S FG-13D 911105 HA6652	S FG-14S 911105 HA6653	S FG-12S 911106 HA6648	S FG-12D 911105 HA6649	K FILLDUP03 911106 HA6650			
2,4-Dinitrotoluene	ug/kg	< 8000	< 8000	< 700	< 7000	< 700			
2,6-Dinitrotoluene	ug/kg	< 3000	< 3000	< 200	< 2000	< 200			
Di-n-octyl phthalate	ug/kg	<10000	<10000	< 1000	<10000	< 1000			
Fluoranthene	ug/kg	< 3000	< 3000	150	13700	< 272			
Fluorene	ug/kg	< 3000	< 3000	< 200	3000	< 200			
Hexachlorobenzene	ug/kg	3740	< 3000	< 200	< 2000	< 200			
Hexachlorobutadiene	ug/kg	< 1000	< 1000	< 100	< 1000	< 100			
Hexachlorocyclopentadiene	ug/kg	<10000	<10000	< 1000	<10000	< 1000			
Hexachloroethane	ug/kg	< 2000	< 2000	< 200	< 2000	< 200			
Indeno(1,2,3-c,d)pyrene	ug/kg	< 5000	< 5000	< 500	< 5000	< 500			
Isophorone	ug/kg	< 3000	< 3000	< 300	< 2860	< 300			
Naphthalene	ug/kg	< 2160	3830	< 195	2740	< 200			
Nitrobenzene	ug/kg	< 2570	< 3000	< 200	< 2000	< 200			
N-Nitrosodimethylamine	ug/kg	<10000	<10000	< 1000	<10000	< 1000			
N-Nitrosodi-n-propylamine	ug/kg	<10000	<10000	< 1220	<10000	< 1230			
N-Nitrosodiphenylamine	ug/kg	< 3000	< 3000	< 232	< 2000	< 235			
Phenanthrene	ug/kg	< 7000	< 7000	< 659	18800	< 667			
Pyrene	ug/kg	< 3000	< 3000	110	11200	< 235			
1,2,4-Trichlorobenzene	ug/kg	< 3000	< 3000	< 200	< 2000	< 200			
Metals Analysis Data									
Antimony	ug/kg	< 8100	< 8100	< 7300	< 7800	< 7400			
Arsenic	ug/kg	5600	25000	2100	4100	1900			
Beryllium	ug/kg	1200	2900	660	1200	690			
Cadmium	ug/kg	2500	9200	870	3300	1100			
Chromium	ug/kg	27000	66000	7400	36000	9000			
Copper	ug/kg	18000	30000	7300	17000	9400			
Lead	ug/kg	55000	39000	22000	24000	6900			
Mercury	ug/kg	70	< 110	< 98	67	49			
Nickel	ug/kg	21000	33000	4100	15000	5300			
Selenium	ug/kg	820	4500	200	390	200			
Silver	ug/kg	< 1400	470	320	350	< 1200			
Thallium	ug/kg	330	2500	< 1200	< 1300	< 1200			
Zinc	ug/kg	100000	369000	21000	77000	23000			

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		S FG-13D 911105 HA6652	S FG-14S 911105 HA6653	S FG-12S 911106 HA6648	S FG-12D 911105 HA6649	X FIELDDUP03 911106 HA6650			
Field Parameters									
Sample Depth	Feet	13	2	2	12	-			
Miscellaneous Parameters									
Ending Sample Depth	Feet	15	4	4	14	-			

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

PHASE I
CLAY SAMPLE RESULTS

- APPENDIX K -

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

DATE: 10/19/93
PAGE: 1

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		S P323C2 890921 HA1190	S P323C1 890921 HA1196	S P322C1 890922 HA1193	S P322C2 890922 HA1194	S B328C1 890925 HA1191	S B328C2 890925 HA1192	S B346C1 890930 HA1438	S B346C2 890930 HA1439
Priority Poll. Volatiles GC/MS									
Acrolein	ug/kg	< 20.0	< 20.0	< 20.0	<10000	< 20.0	< 20.0	< 20.0	< 20.0
Acrylonitrile	ug/kg	< 10.0	< 10.0	< 10.0	< 5000	< 10.0	< 10.0	< 10.0	< 10.0
Benzene	ug/kg	< 4.40	< 4	3700	4020	< 4	< 4	20.8	< 4
Bromoform	ug/kg	< 5	< 5	< 5000	< 2000	< 5	< 5	< 5	< 5
Carbon tetrachloride	ug/kg	< 3	< 3	< 3000	< 1000	< 3	< 3	< 3	< 3
Chlorobenzene	ug/kg	< 6	< 6	< 6000	< 3000	< 6	< 6	< 6	< 6
Chlorodibromomethane	ug/kg	< 3	< 3	< 3000	< 2000	< 3	< 3	< 3	< 3
Chloroethane	ug/kg	< 10	< 10	<10000	< 5000	< 10	< 10	< 10	< 10
Chloroform	ug/kg	< 2	< 2	< 2000	< 800	< 2	< 2	< 2	< 2
Dichlorobromomethane	ug/kg	< 2	< 2	< 2000	< 1000	< 2	< 2	< 2	< 2
Dichlorodifluoromethane	ug/kg	< 10	< 10	<10000	< 5000	< 10	< 10	< 10	< 10
1,1-Dichloroethane	ug/kg	< 5	< 5	< 5000	< 2000	< 5	< 5	5.75	< 5
1,2-Dichloroethane	ug/kg	< 3	< 3	< 3000	< 1000	< 3	< 3	< 3	< 3
1,1-Dichloroethylene	ug/kg	< 3	< 3	5930	10800	< 3	< 3	< 3	< 3
1,2-Dichloropropane	ug/kg	< 6	< 6	< 6000	< 3000	< 6	< 6	< 6	< 6
cis-1,3-Dichloropropylene	ug/kg	< 5	< 5	< 5000	< 3000	< 5	< 5	< 5	< 5
Ethylbenzene	ug/kg	< 7	< 7	< 7000	< 4000	< 7	< 7	< 7	< 7
Methyl bromide	ug/kg	< 10	< 10	<10000	< 5000	< 10	< 10	< 10	< 10
Methyl chloride	ug/kg	< 10	< 10	<10000	< 5000	< 10	< 10	< 10	< 10
Methylene chloride	ug/kg	9.85	25.0	114000	113000	19.9	26.1	111	152
1,1,2,2-Tetrachloroethane	ug/kg	< 7	< 7	< 7000	< 3000	< 7	< 7	< 7	< 7
Tetrachloroethylene	ug/kg	< 4	< 4	< 4000	< 2000	< 4	< 4	< 4	< 4
Toluene	ug/kg	< 6	< 6	< 6000	< 3000	< 6	< 6	54.0	< 6
1,2-Trans-dichloroethylene	ug/kg	< 2	< 2	< 2000	< 800	< 2	< 2	< 2	< 2
1,1,1-Trichloroethane	ug/kg	< 4	< 4	< 4000	< 2000	< 4	< 4	< 4	< 4
1,1,2-Trichloroethane	ug/kg	< 5	< 5	128000	178000	< 5	< 5	< 5	< 5
Trichloroethylene	ug/kg	< 2	< 2	< 2000	< 1000	< 2	< 2	25.3	< 2
Trichlorofluoromethane	ug/kg	< 10	< 10	<10000	< 5000	< 10	< 10	< 10	< 10
Vinyl chloride	ug/kg	< 10	< 10	<10000	< 5000	< 10	< 10	< 10	< 10
trans-1,3-Dichloropropylene	ug/kg	< 10	< 10	<10000	< 5000	< 10	< 10	< 10	< 10

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below				See Below	
ETC Sample No.	WASTE MANAGEMENT, INC. *Company*	705 *Facility*		*Sample Point*	*Date*

Parameters	Units	S P323C2 890921 HA1190	S P323C1 890921 HA1196	S P322C1 890922 HA1193	S P322C2 890922 HA1194	S B328C1 890925 HA1191	S B328C2 890925 HA1192	S B346C1 890930 HA1438	S B346C2 890930 HA1439
Sample Points, Sampling Dates, and ETC Sample No.'s									
Priority Poll. Acids GC/MS									
2-Chlorophenol	ug/kg	< 500	< 500	< 500	< 500	< 400	< 400	< 500	< 400
2,4-Dichlorophenol	ug/kg	< 400	< 400	130	250	< 300	< 300	410	< 300
2,4-Dimethylphenol	ug/kg	< 400	< 400	< 400	< 400	< 300	< 300	< 400	< 300
4,6-Dinitro-o-cresol	ug/kg	< 4000	< 3000	< 3000	< 4000	< 3000	< 3000	< 4000	< 3000
2,4-Dinitrophenol	ug/kg	< 7000	< 6000	< 6000	< 7000	< 5000	< 5000	< 7000	< 5000
2-Nitrophenol	ug/kg	< 600	< 500	< 500	< 600	< 400	< 400	< 600	< 400
4-Nitrophenol	ug/kg	< 400	< 300	< 329	< 399	< 300	< 300	< 400	< 300
p-Chloro-m-cresol	ug/kg	< 500	< 400	< 400	< 500	< 400	< 300	< 500	< 400
Pentachlorophenol	ug/kg	< 600	< 500	< 500	< 600	< 400	< 400	< 600	< 400
Phenol	ug/kg	< 200	< 200	7530	3170	< 200	< 200	3110	< 200
2,4,6-Trichlorophenol	ug/kg	< 400	< 400	< 400	< 400	< 300	< 300	< 400	< 300
Priority Poll. B/Ns GC/MS									
Acenaphthene	ug/kg	< 300	< 300	60	160	< 227	< 200	< 300	< 230
Acenaphthylene	ug/kg	< 600	< 500	58	170	< 400	< 400	< 600	< 400
Anthracene	ug/kg	< 313	< 300	94	240	< 227	< 215	< 307	< 230
Benzo(a)anthracene	ug/kg	< 1000	< 1000	< 1070	< 1300	< 900	< 881	< 1000	< 944
Benzo(a)pyrene	ug/kg	< 400	< 400	< 342	190	< 300	< 300	< 400	< 300
Benzo(b)fluoranthene	ug/kg	< 800	< 700	170	360	< 600	< 500	< 800	< 600
Benzo(ghi)perylene	ug/kg	< 700	< 600	< 600	< 700	< 500	< 500	< 700	< 500
Benzo(k)fluoranthene	ug/kg	< 400	< 400	< 342	< 415	< 300	< 300	< 400	< 300
bis(2-Chloroethoxy)methane	ug/kg	< 900	< 800	< 700	< 900	< 600	< 600	< 900	< 600
bis(2-Chloroethyl) ether	ug/kg	< 900	< 800	< 800	< 900	< 700	< 600	< 900	< 700
bis(2-Chloroisopropyl)ether	ug/kg	< 900	< 800	< 800	< 900	< 700	< 600	< 900	< 700
bis(2-Ethylhexyl)phthalate	ug/kg	1750	120	10800	160	2090	580	550	500
4-Bromophenyl phenyl ether	ug/kg	< 300	< 300	< 300	< 300	< 200	< 200	< 300	< 200
Butyl benzyl phthalate	ug/kg	330	< 1000	< 1000	< 2000	< 1000	< 1000	< 2000	< 1000
2-Chloronaphthalene	ug/kg	< 300	< 300	< 300	< 300	< 227	< 200	< 300	< 200
4-Chlorophenyl phenyl ether	ug/kg	< 700	< 600	< 600	< 700	< 500	< 500	< 700	< 500
Chrysene	ug/kg	< 400	< 400	150	310	< 300	< 282	< 400	< 303
Dibenzo(a,h)anthracene	ug/kg	< 2000	< 1000	< 1000	< 2000	< 1000	< 1000	< 2000	< 1000
1,2-Dichlorobenzene	ug/kg	< 300	< 300	< 300	< 300	< 200	< 200	< 300	< 200
1,3-Dichlorobenzene	ug/kg	< 300	< 300	< 300	< 300	< 200	< 200	< 300	< 200

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below — *ETC Sample No.* | WASTE MANAGEMENT, INC. — *Company* | 705 — *Facility* | See Below — *Sample Point* | *Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		S P323C2 890921 HA1190	S P323C1 890921 HA1196	S P322C1 890922 HA1193	S P322C2 890922 HA1194	S B328C1 890925 HA1191	S B328C2 890925 HA1192	S B346C1 890930 HA1438	S B346C2 890930 HA1439
1,4-Dichlorobenzene	ug/kg	< 700	< 600	< 600	< 700	< 500	< 500	< 700	< 500
3,3'-Dichlorobenzidine	ug/kg	< 3000	< 2000	< 2000	< 3000	< 2000	< 2000	< 3000	< 2000
Diethyl phthalate	ug/kg	< 1640	120	52	200	< 1000	< 1000	< 2000	< 1000
Dimethyl phthalate	ug/kg	< 2000	< 1000	< 1000	< 2000	< 1000	< 1000	< 2000	< 1000
Di-n-butyl phthalate	ug/kg	560	460	110	870	180	85	220	110
2,4-Dinitrotoluene	ug/kg	< 900	< 800	< 800	< 900	< 700	< 600	< 900	< 700
2,6-Dinitrotoluene	ug/kg	< 300	< 300	< 300	< 300	< 200	< 200	< 300	< 200
Di-n-octyl phthalate	ug/kg	5230	110	920	170	< 1000	< 1000	< 2000	38
Fluoranthene	ug/kg	< 400	< 300	370	812	< 300	< 200	< 400	< 266
Fluorene	ug/kg	< 313	< 269	130	402	< 227	< 215	< 307	< 230
Hexachlorobenzene	ug/kg	< 300	< 300	< 300	< 300	< 200	< 200	< 300	< 200
Hexachlorobutadiene	ug/kg	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
Hexachlorocyclopentadiene	ug/kg	< 2000	< 1000	< 1000	< 2000	< 1000	< 1000	< 2000	< 1000
Hexachloroethane	ug/kg	< 300	< 200	< 200	< 300	< 200	< 200	< 300	< 200
Indeno(1,2,3-c,d)pyrene	ug/kg	< 800	< 700	< 600	< 800	< 600	< 500	< 800	< 600
Isophorone	ug/kg	< 400	< 300	< 300	< 400	< 263	< 200	< 400	< 266
Naphthalene	ug/kg	< 300	< 200	792	1760	< 200	< 200	< 300	68
Nitrobenzene	ug/kg	< 300	< 300	< 300	< 300	< 200	< 200	< 300	< 200
N-Nitrosodimethylamine	ug/kg	< 2000	< 1000	< 1000	< 2000	< 1000	< 1000	< 2000	< 1000
N-Nitrosodi-n-propylamine	ug/kg	< 1640	< 1420	< 1370	< 1660	< 1200	< 1130	< 1620	< 1210
N-Nitrosodiphenylamine	ug/kg	< 300	< 300	< 300	< 300	< 227	< 215	< 300	< 230
Phenanthrene	ug/kg	< 888	< 800	520	1470	240	110	73	140
Pyrene	ug/kg	< 300	< 300	333	744	< 200	< 200	< 300	< 230
1,2,4-Trichlorobenzene	ug/kg	< 300	< 300	< 300	< 300	< 200	< 200	< 300	< 200
Priority Poll. Pest/PCBs GC/MS									
Aldrin	ug/kg	< 8	< 7	< 7	< 9	< 6	< 6	< 8	< 6
Alpha-BHC	ug/kg	< 8	< 7	< 7	< 9	< 6	< 6	< 8	< 6
Beta-BHC	ug/kg	< 8	< 7	< 7	< 9	< 6	< 6	< 8	< 6
Gamma-BHC	ug/kg	< 8	< 7	< 7	< 9	< 6	< 6	< 8	< 6
Delta-BHC	ug/kg	< 8	< 7	< 7	< 9	< 6	< 6	< 8	< 6
Chlordane	ug/kg	< 200	< 100	< 100	< 200	< 100	< 100	< 200	< 100
4,4'-DDT	ug/kg	< 20	< 10	< 10	< 20	< 10	< 10	< 20	< 10
4,4'-DDE	ug/kg	< 20	< 10	< 10	< 20	< 10	< 10	< 20	< 10
4,4'-DDD	ug/kg	< 20	< 10	< 10	< 20	< 10	< 10	< 20	< 10
Dieldrin	ug/kg	< 20	< 10	< 10	< 20	< 10	< 10	< 20	< 10

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		S P323C2 890921 HA1190	S P323C1 890921 HA1196	S P322C1 890922 HA1193	S P322C2 890922 HA1194	S B328C1 890925 HA1191	S B328C2 890925 HA1192	S B346C1 890930 HA1438	S B346C2 890930 HA1439
Endosulfan I	ug/kg	< 8	< 7	< 7	< 9	< 6	< 6	< 8	< 6
Endosulfan II	ug/kg	< 20	< 10	< 10	< 20	< 10	< 10	< 20	< 10
Endosulfan sulfate	ug/kg	< 20	< 10	< 10	< 20	< 10	< 10	< 20	< 10
Endrin	ug/kg	< 20	< 10	< 10	< 20	< 10	< 10	< 20	< 10
Endrin aldehyde	ug/kg	< 20	< 10	< 10	< 20	< 10	< 10	< 20	< 10
Heptachlor	ug/kg	< 8	< 7	< 7	< 9	< 6	< 6	< 8	< 6
Heptachlor epoxide	ug/kg	< 8	< 7	< 7	< 9	< 6	< 6	< 8	< 6
Toxaphene	ug/kg	< 300	< 300	< 300	< 400	< 200	< 200	< 300	< 200
Groundwater Conventionals									
Cyanide, Total	mg/kg	< .63	< .63	< .63	< .78	< .63	< .56	< .63	< .60
Metals Analysis Data									
Antimony	ug/kg	17000	18000	12000	21000	16000	14000	15000	11000
Arsenic	ug/kg	14000	5400	6000	3600	13000	16000	18000	7900
Barium	ug/kg	24000	50000	64000	74000	35000	18000	38000	40000
Beryllium	ug/kg	450	650	670	880	570	400	1000	520
Cadmium	ug/kg	< 220	< 270	< 270	< 300	< 250	< 220	340	< 240
Chromium	ug/kg	13000	21000	21000	27000	18000	12000	26000	18000
Cobalt	ug/kg	15000	11000	11000	13000	12000	12000	13000	11000
Copper	ug/kg	46000	19000	22000	23000	28000	45000	36000	24000
Lead	ug/kg	18000	12000	12000	13000	16000	21000	28000	14000
Mercury	ug/kg	67	< 110	59	< 120	55	58	80	38
Nickel	ug/kg	38000	29000	29000	35000	33000	30000	36000	29000
Selenium	ug/kg	< 5600	< 670	< 670	< 500	160	270	1700	< 3000
Silver	ug/kg	440	560	600	410	590	370	< 1300	< 1200
Thallium	ug/kg	860	< 1300	< 1300	< 1500	260	1200	1800	560
Tin	ug/kg	5800	5300	5000	6500	9700	6200	14000	7400
Vanadium	ug/kg	17000	25000	25000	30000	21000	16000	46000	21000
Zinc	ug/kg	60000	50000	51000	59000	57000	71000	150000	50000
Field Parameters									
Sample Depth	Feet	22	14	18	28	16	26	14	24

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		S P323C2 890921 HA1190	S P323C1 890921 HA1196	S P322C1 890922 HA1193	S P322C2 890922 HA1194	S B328C1 890925 HA1191	S B328C2 890925 HA1192	S B346C1 890930 HA1438	S B346C2 890930 HA1439
Groundwater Pesticides									
Methoxychlor	ug/kg	< 80	< 70	< 70	< 90	< 60	< 60	< 80	< 60
Groundwater Herbicides									
2,4-D	ug/kg	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200
2,4,5-TP (Silvex)	ug/kg	< 40	< 30	< 30	< 40	< 30	< 30	< 40	< 30
Aroclors by GC									
Aroclor 1242	ug/kg	< 80	< 70	< 70	< 90	< 60	< 60	< 80	< 60
Aroclor 1254	ug/kg	< 200	< 100	< 100	< 200	< 100	< 100	< 200	< 100
Aroclor 1260	ug/kg	< 200	< 100	< 100	< 200	< 100	< 100	< 200	< 100
Aroclor 1248	ug/kg	< 80	< 70	< 70	< 90	< 60	< 60	< 80	< 60
Aroclor 1232	ug/kg	< 80	< 70	< 70	< 90	< 60	< 60	< 80	< 60
Aroclor 1221	ug/kg	< 80	< 70	< 70	< 90	< 60	< 60	< 80	< 60
Aroclor 1016	ug/kg	< 80	< 70	< 70	< 90	< 60	< 60	< 80	< 60
Miscellaneous Parameters									
1,1,1,2-Tetrachloroethane	ug/kg	< 10	< 10	<10000	< 5000	< 10	< 10	< 10	< 10
1,2,3-Trichloropropane	ug/kg	< 10	< 10	<10000	< 5000	< 10	< 10	< 10	< 10
1,2,4,5-Tetrachlorobenzene	ug/kg	< 2000	< 1000	< 1000	< 2000	< 1000	< 1000	< 2000	< 1000
1,2-Dibromo-3-chloropropane	ug/kg	< 10	< 10	<10000	< 5000	< 10	< 10	< 10	< 10
1,2-Dibromoethane	ug/kg	< 10	< 10	<10000	< 5000	< 10	< 10	< 10	< 10
1,4-Dichloro-2-butene	ug/kg	< 10	< 10	<10000	< 5000	< 10	< 10	< 10	< 10
1,4-Dioxane	ug/kg	25.4	14.0	< 300	< 200000	< 300	183	< 300	< 300
1,4-Naphthoquinone	ug/kg	< 2000	< 1000	< 1000	< 2000	< 1000	< 1000	< 2000	< 1000
1-Naphthylamine	ug/kg	< 2000	< 1000	< 1000	< 2000	< 1000	< 1000	< 2000	< 1210
2,3,4,6-Tetrachlorophenol	ug/kg	< 2000	< 1000	< 1000	< 2000	< 1000	< 1000	< 2000	< 1000
2,3,7,8-TCDD	ppb	< .07	< .09	< .1	< .1	< .09	< .1	< .08	< .1
2,3,7,8-TCDF	ppb	< .08	< .06	< .07	< .06	< .09	< .09	< .09	< .05
2,4,5-T	ug/kg	< 40	< 30	< 30	< 40	< 30	< 30	< 40	< 30
2,4,5-Trichlorophenol	ug/kg	< 2000	< 1000	< 1000	< 2000	< 1000	< 1000	< 2000	< 1000
2,6-Dichlorophenol	ug/kg	< 2000	< 1000	< 1370	< 1660	< 1000	< 1000	< 1620	< 1000

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	Units	Sample Points, Sampling Dates, and ETC Sample No.'s							
		S P323C2 890921 HA1190	S P323C1 890921 HA1196	S P322C1 890922 HA1193	S P322C2 890922 HA1194	S B328C1 890925 HA1191	S B328C2 890925 HA1192	S B346C1 890930 HA1438	S B346C2 890930 HA1439
2-Acetylaminofluorene	ug/kg	< 2000	< 1000	< 1000	< 2000	< 1000	< 1000	< 2000	< 1000
2-Chloro-1,3-butadiene	ug/kg	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	ug/kg	65.7	< 10	<10000	< 5000	< 10	< 10	77.2	< 10.0
2-Methylnaphthalene	ug/kg	< 2000	< 1000	210	580	< 1000	75	< 2000	270
2-Naphthylamine	ug/kg	< 2000	< 1000	< 1000	< 2000	< 1000	< 1000	< 2000	< 1210
2-Picoline	ug/kg	< 2000	< 1000	< 1000	< 2000	< 1000	< 1000	< 2000	< 1000
2-sec-Butyl-4,6-dinitrophenol	ug/kg	< 2000	< 1000	< 1000	< 2000	< 1000	< 1000	< 2000	< 1000
3,3'-Dimethylbenzidine	ug/kg	< 2000	< 1000	< 1000	< 2000	< 1000	< 1000	< 2000	< 1000
3-Methylcholanthrene	ug/kg	< 2000	< 1000	< 1000	< 2000	< 1000	< 1000	< 2000	< 1000
4-Aminobiphenyl	ug/kg	< 2000	< 1000	< 1000	< 1660	< 1200	< 1130	< 2000	< 1210
4-Nitroquinoline-N-oxide	ug/kg	IND	IND	IND	IND	IND	IND	IND	IND
5-Nitro-o-toluidine	ug/kg	< 1640	< 1420	< 1370	< 2000	< 1200	< 1130	< 1620	< 1210
7,12-Dimethylbenzo(a)anthracen	ug/kg	< 2000	< 1000	< 1000	< 2000	< 1000	< 1000	< 2000	< 1000
Acetone	ug/kg	5.6	22.0	10300	5340	12.7	21.0	22.3	23.7
Acetonitrile	ug/kg	< 15.0	< 15.0	< 15.0	42700	< 15.0	< 15.0	< 15.0	< 15.0
Acetophenone	ug/kg	< 2000	< 1000	< 1000	< 2000	< 1000	< 1000	< 2000	< 1000
Aniline	ug/kg	< 2000	< 1000	< 1000	< 2000	< 1000	< 1000	< 2000	< 1000
Aramite	ug/kg	< 2000	< 1000	< 1000	< 2000	< 1000	< 1000	< 2000	< 1000
Benzyl alcohol	ug/kg	960	790	180	1100	< 1000	< 1000	340	360
Carbon disulfide	ug/kg	< 10	< 10	<10000	< 5000	< 10	< 10	< 10	< 10
Chlorobenzilate	ug/kg	< 400	< 300	< 300	< 400	< 300	< 300	< 400	< 300
Diallate	ug/kg	< 2000	< 1000	< 1000	< 2000	< 1000	< 1000	< 2000	< 1000
Dibenzofuran	ug/kg	< 2000	< 1000	39	110	50	< 1000	< 2000	34
Dibromomethane	ug/kg	< 10	< 10	<10000	< 5000	< 10	< 10	< 10	< 10
Dimethoate	ug/kg	< 400	< 300	< 300	< 400	< 300	< 300	< 400	< 300
Diphenylamine	ug/kg	< 2000	< 1000	< 1000	< 2000	100	< 1130	< 2000	< 1210
Disulfoton	ug/kg	< 80	< 70	< 70	< 90	< 60	< 60	< 80	< 60
Ending Sample Depth	Feet	27	16	20	30	18	28	16	26
Ethyl cyanide	ug/kg	< 40.0	< 40.0	< 40.0	<20000	< 40.0	66.4	< 40.0	< 40.0
Ethyl methacrylate	ug/kg	< 10	< 10	<10000	< 5000	< 10	< 10	< 10.0	< 10
Ethyl methanesulfonate	ug/kg	< 2000	< 1000	< 1000	< 2000	< 1000	< 1000	< 2000	< 1000
Famphur	ug/kg	< 2000	< 1000	< 1000	< 2000	< 1000	< 1000	< 2000	< 1000
Hexachlorophene	ug/kg	< 2000	< 1000	< 1000	< 2000	< 1000	< 1000	< 2000	< 1000
Hexachloropropene	ug/kg	< 2000	< 1000	< 1000	< 2000	< 1000	< 1000	< 2000	< 1000
HxCDD	ppb	< .2	< .3	< .3	< .2	< .3	< .2	< .3	< .2
HxCDF	ppb	< .1	< .1	< .2	< .2	< .2	< .2	< .1	< .1
Iodomethane	ug/kg	IND	IND	IND	IND	IND	IND	IND	IND

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	Units	S P323C2 890921 HA1190	S P323C1 890921 HA1196	S P322C1 890922 HA1193	S P322C2 890922 HA1194	S B328C1 890925 HA1191	S B328C2 890925 HA1192	S B346C1 890930 HA1438	S B346C2 890930 HA1439
		Sample Points, Sampling Dates, and ETC Sample No.'s							
Isobutyl alcohol	ug/kg	< 230	< 230	< 230	< 115000	< 230	< 230	< 230	< 230
Isodrin	ug/kg	< 1000	< 800	< 800	< 1000	< 700	< 700	< 1000	< 700
Isosafrole	ug/kg	< 2000	< 1000	< 1000	< 2000	< 1000	< 1000	< 2000	< 1000
Kepone	ug/kg	< 80	< 70	< 70	< 90	< 60	< 60	< 80	< 60
Methacrylonitrile	ug/kg	< 110	< 110	< 110	<60000	< 110	17.9	< 110	< 110
Methapyrilene	ug/kg	IND	IND	IND	IND	IND	IND	IND	IND
Methyl ethyl ketone	ug/kg	< 10	< 10	<10000	< 5000	< 10	< 10	< 10	< 10
Methyl methacrylate	ug/kg	< 10	< 10	<10000	< 5000	< 10	< 10	< 10.0	< 10
Methyl methanesulfonate	ug/kg	< 2000	< 1000	< 1000	< 2000	< 1000	< 1000	< 2000	< 1000
Methyl parathion	ug/kg	< 200	< 100	< 100	< 200	< 100	< 100	< 200	< 100
Methyl-iso-butyl ketone	ug/kg	35.5	< 10	<10000	< 5000	< 10	< 10	200	164
N-Nitrosodi-n-butylamine	ug/kg	< 2000	< 1000	< 1370	< 2000	< 1000	< 1000	< 2000	< 1000
N-Nitrosodiethylamine	ug/kg	< 2000	< 1000	< 1000	< 2000	< 1000	< 1000	< 2000	< 1000
N-Nitrosomethylethylamine	ug/kg	< 2000	< 1000	< 1370	< 2000	< 1000	< 1000	< 2000	< 1000
N-Nitrosomorpholine	ug/kg	< 2000	< 1000	< 1000	< 2000	< 1000	< 1000	< 2000	< 1000
N-Nitrosopiperidine	ug/kg	< 2000	< 1000	< 1000	< 2000	< 1000	< 1000	< 2000	< 1000
N-Nitrosopyrrolidine	ug/kg	IND	IND	IND	IND	IND	IND	IND	IND
O,O,O-Triethyl phosphorothioat	ug/kg	IND	IND	IND	IND	IND	IND	IND	IND
PCDD	ppb	< .2	< .3	< .3	< .4	< .3	< .3	< .4	< .3
PCDF	ppb	< .1	< .1	< .2	< .09	< .1	< .2	< .2	< .1
Parathion	ug/kg	< 200	< 100	< 100	< 200	< 100	< 100	< 200	< 100
Pentachlorobenzene	ug/kg	< 2000	< 1000	< 1000	< 2000	< 1000	< 1000	< 2000	< 1000
Pentachloroethane	ug/kg	IND	IND	IND	IND	IND	IND	IND	IND
Pentachloronitrobenzene	ug/kg	< 2000	< 1000	< 1000	< 2000	< 1000	< 1000	< 2000	< 1000
Phenacetin	ug/kg	< 2000	< 1000	< 1000	< 2000	< 1000	< 1000	< 2000	< 1000
Phorate	ug/kg	< 400	< 300	< 300	< 400	< 300	< 300	< 400	< 300
Pronamide	ug/kg	< 2000	< 1000	< 1000	< 2000	< 1000	< 1000	< 2000	< 1000
Pyridine	ug/kg	<10000	<10000	<11000	<13300	<10000	< 9000	<10000	<10000
Safrole	ug/kg	< 2000	< 1000	< 1000	< 2000	< 1000	< 1000	< 2000	< 1000
Styrene	ug/kg	< 10	< 10	<10000	< 5000	< 10	< 10	< 10	< 10
Sulfide as S	mg/kg	< 5.7	< 5.8	< 6.1	< 6.9	6.5	< 5.4	< 5.8	< 6.0
TCDD	ppb	< .07	< .09	< .1	< .1	< .09	< .1	< .08	< .1
TCDF	ppb	< .08	< .06	< .07	< .06	< .09	< .09	< .09	< .05
Tetraethyldithiopyrophosphate	ug/kg	IND	IND	IND	IND	IND	IND	IND	IND
Thionazin	ug/kg	< 200	< 100	< 100	< 200	< 100	< 100	< 200	< 100
Vinyl acetate	ug/kg	< 10	< 10	<10000	< 5000	< 10	< 10	< 10	< 10
a-a-Dimethylphenethylamine	ug/kg	IND	IND	IND	IND	IND	IND	IND	IND

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		S P323C2 890921 HA1190	S P323C1 890921 HA1196	S P322C1 890922 HA1193	S P322C2 890922 HA1194	S B328C1 890925 HA1191	S B328C2 890925 HA1192	S B346C1 890930 HA1438	S B346C2 890930 HA1439
m+p-Cresols	ug/kg	< 2000	< 1000	100	81	< 1000	< 1000	1640	< 1000
m-Dinitrobenzene	ug/kg	< 2000	< 1000	< 1000	< 2000	< 1000	< 1000	< 2000	< 1000
m-Nitroaniline	ug/kg	< 2000	< 1000	< 1000	< 2000	< 1000	< 1000	< 2000	< 1000
m-Xylene	ug/kg	< 10	< 10	<10000	< 5000	< 10	< 10	< 10	< 10
o+p-Xylenes	ug/kg	< 10	< 10	<10000	< 5000	< 10	< 10	< 10	< 10
o-Cresol	ug/kg	< 2000	< 1000	< 1000	< 2000	< 1000	< 1000	< 1620	< 1000
o-Nitroaniline	ug/kg	< 2000	< 1000	< 1000	< 2000	< 1000	< 1000	< 2000	< 1000
o-Toluidine	ug/kg	< 2000	< 1000	< 1000	< 2000	< 1000	< 1000	< 2000	< 1000
p-Chloroaniline	ug/kg	< 2000	< 1000	< 1000	< 2000	< 1000	< 1000	170	< 1000
p-Dimethylaminoazobenzene	ug/kg	< 2000	< 1000	< 1000	< 2000	< 1000	< 1000	< 2000	< 1000
p-Nitroaniline	ug/kg	< 2000	< 1000	< 1000	< 2000	< 1000	< 1000	< 2000	< 1000
p-phenylenediamine	ug/kg	IND	IND	IND	IND	IND	IND	IND	IND
sym-Trinitrobenzene	ug/kg	IND	IND	IND	IND	IND	IND	IND	IND

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		S B341C1 890930 HA1440	S B341C2 890930 HA1441	S B304C1 891005 HA1442	S B304C2 891005 HA1443	S P319C2DUP 891009 HA1444	S P319C1 891009 HA1505	S P319C2 891009 HA1506	S G318C2 891010 HA1509
Priority Poll. Volatiles GC/MS									
Acrolein	ug/kg	< 20.0	< 20.0	< 20.0	< 20.0	< 20	< 20	< 20	< 20.0
Acrylonitrile	ug/kg	< 10.0	< 10.0	< 10.0	< 10.0	< 10	< 10	< 10	< 10
Benzene	ug/kg	11.9	12.4	< 4	< 4	11.7	< 4	< 4	< 4
Bromoform	ug/kg	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Carbon tetrachloride	ug/kg	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Chlorobenzene	ug/kg	< 6	< 6	< 6	< 6	8.25	< 6	< 6	< 6
Chlorodibromomethane	ug/kg	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Chloroethane	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Chloroform	ug/kg	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Dichlorobromomethane	ug/kg	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Dichlorodifluoromethane	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
1,1-Dichloroethane	ug/kg	< 5	< 5	< 5	< 5	< 4.70	< 5	< 5	< 5
1,2-Dichloroethane	ug/kg	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
1,1-Dichloroethylene	ug/kg	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
1,2-Dichloropropane	ug/kg	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
cis-1,3-Dichloropropylene	ug/kg	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Ethylbenzene	ug/kg	< 7	< 7	< 7	< 7	< 7	< 7	< 7	< 7
Methyl bromide	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methyl chloride	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methylene chloride	ug/kg	93.2	14.7	14.4	11.3	9.87	< 3	12.7	15.7
1,1,2,2-Tetrachloroethane	ug/kg	< 7	< 7	< 7	< 7	< 7	< 7	< 7	< 7
Tetrachloroethylene	ug/kg	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
Toluene	ug/kg	< 6	< 6	< 6	< 6	8.92	< 6	< 6	< 6
1,2-Trans-dichloroethylene	ug/kg	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,1,1-Trichloroethane	ug/kg	< 4	< 4	< 4	< 4	< 3.80	< 4	< 4	< 4
1,1,2-Trichloroethane	ug/kg	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Trichloroethylene	ug/kg	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Trichlorofluoromethane	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Vinyl chloride	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
trans-1,3-Dichloropropylene	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below — *ETC Sample No.* | WASTE MANAGEMENT, INC. — *Company* | 705 — *Facility* | See Below — *Sample Point* | *Date*

Parameters	Units	Sample Points, Sampling Dates, and ETC Sample No.'s							
		S B341C1 890930 HA1440	S B341C2 890930 HA1441	S B304C1 891005 HA1442	S B304C2 891005 HA1443	S P319C2DUP 891009 HA1444	S P319C1 891009 HA1505	S P319C2 891009 HA1506	S G318C2 891010 HA1509
Priority Poll. Acids GC/MS									
2-Chlorophenol	ug/kg	< 400	< 400	< 400	< 400	< 400	< 400	< 400	< 400
2,4-Dichlorophenol	ug/kg	< 300	< 300	< 300	< 300	< 300	< 300	< 300	< 300
2,4-Dimethylphenol	ug/kg	< 300	< 300	< 300	< 300	< 300	< 300	< 300	< 300
4,6-Dinitro-o-cresol	ug/kg	< 3000	< 3000	< 3000	< 3000	< 3000	< 3000	< 3000	< 3000
2,4-Dinitrophenol	ug/kg	< 5000	< 5000	< 5000	< 5000	< 5000	< 5000	< 5000	< 5000
2-Nitrophenol	ug/kg	< 400	< 400	< 400	< 400	< 400	< 400	< 500	< 400
4-Nitrophenol	ug/kg	< 300	< 300	< 300	< 300	< 300	< 300	< 300	< 300
p-Chloro-m-cresol	ug/kg	< 400	< 400	< 400	< 400	< 400	< 400	< 400	< 400
Pentachlorophenol	ug/kg	< 400	< 400	< 400	< 400	< 400	< 400	< 500	< 400
Phenol	ug/kg	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200
2,4,6-Trichlorophenol	ug/kg	< 300	< 300	< 300	< 300	< 300	< 300	< 300	< 300
Priority Poll. B/Ns GC/MS									
Acenaphthene	ug/kg	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200
Acenaphthylene	ug/kg	< 400	< 400	< 400	< 400	< 400	< 400	< 400	< 400
Anthracene	ug/kg	< 200	< 232	< 230	< 230	57	< 231	49	< 228
Benzo(a)anthracene	ug/kg	< 1000	< 954	< 943	< 900	130	< 900	< 986	< 900
Benzo(a)pyrene	ug/kg	< 300	< 300	< 300	< 300	96	< 300	< 316	< 300
Benzo(b)fluoranthene	ug/kg	< 600	< 600	< 600	< 600	160	< 600	160	< 600
Benzo(ghi)perylene	ug/kg	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500
Benzo(k)fluoranthene	ug/kg	< 300	< 300	< 300	< 300	< 310	< 300	< 316	< 300
bis(2-Chloroethoxy)methane	ug/kg	< 700	< 600	< 600	< 600	< 700	< 600	< 700	< 600
bis(2-Chloroethyl) ether	ug/kg	< 700	< 700	< 700	< 700	< 700	< 700	< 700	< 700
bis(2-Chloroisopropyl)ether	ug/kg	< 700	< 700	< 700	< 700	< 700	< 700	< 700	< 700
bis(2-Ethylhexyl)phthalate	ug/kg	840	380	150	270	440	2440	330	620
4-Bromophenyl phenyl ether	ug/kg	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200
Butyl benzyl phthalate	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
2-Chloronaphthalene	ug/kg	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200
4-Chlorophenyl phenyl ether	ug/kg	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500
Chrysene	ug/kg	< 300	< 306	< 302	< 300	120	< 300	120	< 300
Dibenzo(a,h)anthracene	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
1,2-Dichlorobenzene	ug/kg	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200
1,3-Dichlorobenzene	ug/kg	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	Units	Sample Points, Sampling Dates, and ETC Sample No.'s							
		S B341C1 890930 HA1440	S B341C2 890930 HA1441	S B304C1 891005 HA1442	S B304C2 891005 HA1443	S P319C2DUP 891009 HA1444	S P319C1 891009 HA1505	S P319C2 891009 HA1506	S G318C2 891010 HA1509
1,4-Dichlorobenzene	ug/kg	< 500	< 500	< 500	< 500	< 500	< 500	< 600	< 500
3,3'-Dichlorobenzidine	ug/kg	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000
Diethyl phthalate	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
Dimethyl phthalate	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
Di-n-butyl phthalate	ug/kg	40	72	49	210	30	30	49	270
2,4-Dinitrotoluene	ug/kg	< 700	< 700	< 700	< 700	< 700	< 700	< 700	< 700
2,6-Dinitrotoluene	ug/kg	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200
Di-n-octyl phthalate	ug/kg	< 1000	< 1000	42	< 1000	< 1000	< 1000	< 1000	79
Fluoranthene	ug/kg	< 300	56	66	53	314	< 267	260	< 300
Fluorene	ug/kg	< 235	< 232	< 230	< 230	49	< 231	49	< 228
Hexachlorobenzene	ug/kg	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200
Hexachlorobutadiene	ug/kg	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
Hexachlorocyclopentadiene	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
Hexachloroethane	ug/kg	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200
Indeno(1,2,3-c,d)pyrene	ug/kg	< 600	< 600	< 600	< 600	< 600	< 600	< 600	< 600
Isophorone	ug/kg	< 300	< 300	< 300	< 300	< 300	< 300	< 300	< 300
Naphthalene	ug/kg	< 200	67	78	68	82	53	110	39
Nitrobenzene	ug/kg	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200
N-Nitrosodimethylamine	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
N-Nitrosodi-n-propylamine	ug/kg	< 1230	< 1220	< 1210	< 1210	< 1240	< 1210	< 1260	< 1200
N-Nitrosodiphenylamine	ug/kg	< 200	< 232	< 230	< 200	< 200	< 231	< 200	< 200
Phenanthrene	ug/kg	< 700	110	120	150	260	98	290	49
Pyrene	ug/kg	< 200	69	76	63	280	36	262	< 200
1,2,4-Trichlorobenzene	ug/kg	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200
Priority Poll. Pest/PCBs GC/MS									
Aldrin	ug/kg	< 6	< 6	< 6	< 6	< 6	< 6	< 7	< 6
Alpha-BHC	ug/kg	< 6	< 6	< 6	< 6	< 6	< 6	< 7	< 6
Beta-BHC	ug/kg	< 6	< 6	< 6	< 6	< 6	< 6	< 7	< 6
Gamma-BHC	ug/kg	< 6	< 6	< 6	< 6	< 6	< 6	< 7	< 6
Delta-BHC	ug/kg	< 6	< 6	< 6	< 6	< 6	< 6	< 7	< 6
Chlordane	ug/kg	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
4,4'-DDT	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4,4'-DDE	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4,4'-DDD	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Dieldrin	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below				See Below	
ETC Sample No.		*Company*	*Facility*	*Sample Point*	*Date*
		WASTE MANAGEMENT, INC.	705		

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		S B341C1 890930 HA1440	S B341C2 890930 HA1441	S B304C1 891005 HA1442	S B304C2 891005 HA1443	S P319C2DUP 891009 HA1444	S P319C1 891009 HA1505	S P319C2 891009 HA1506	S G318C2 891010 HA1509
Endosulfan I	ug/kg	< 6	< 6	< 6	< 6	< 6	< 6	< 7	< 6
Endosulfan II	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Endosulfan sulfate	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Endrin	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Endrin aldehyde	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Heptachlor	ug/kg	< 6	< 6	< 6	< 6	< 6	< 6	< 7	< 6
Heptachlor epoxide	ug/kg	< 6	< 6	< 6	< 6	< 6	< 6	< 7	< 6
Toxaphene	ug/kg	< 200	< 200	< 200	< 200	< 200	< 200	< 300	< 300
Groundwater Conventionals									
Cyanide, Total	mg/kg	< .62	< .61	< .61	< .63	< .63	< .61	< .66	< .61
Metals Analysis Data									
Antimony	ug/kg	11000	8400	11000	14000	16000	12000	9200	20000
Arsenic	ug/kg	6000	5700	9400	7000	6100	4800	6900	5100
Barium	ug/kg	50000	54000	48000	50000	62000	52000	51000	43000
Beryllium	ug/kg	630	670	610	650	750	670	460	370
Cadmium	ug/kg	< 250	< 250	< 250	< 250	< 250	< 250	< 260	< 250
Chromium	ug/kg	21000	22000	20000	22000	24000	22000	17000	17000
Cobalt	ug/kg	9700	11000	11000	13000	14000	12000	9100	8800
Copper	ug/kg	18000	22000	22000	29000	28000	25000	21000	20000
Lead	ug/kg	26000	17000	17000	16000	28000	13000	46000	12000
Mercury	ug/kg	40	86	68	80	80	68	22	30
Nickel	ug/kg	27000	30000	29000	35000	38000	33000	25000	26000
Selenium	ug/kg	390	200	230	240	200	270	170	< 610
Silver	ug/kg	270	< 1200	270	270	< 1300	< 1200	< 1300	< 1200
Thallium	ug/kg	380	320	730	330	690	370	400	580
Tin	ug/kg	8800	10000	8600	12000	13000	12000	9900	6500
Vanadium	ug/kg	25000	24000	23000	26000	25000	26000	18000	20000
Zinc	ug/kg	87000	58000	50000	57000	78000	55000	66000	51000
Field Parameters									
Sample Depth	Feet	14	22	18	26	26	19	26	26

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		S B341C1 890930 HA1440	S B341C2 890930 HA1441	S B304C1 891005 HA1442	S B304C2 891005 HA1443	S P319C2DUP 891009 HA1444	S P319C1 891009 HA1505	S P319C2 891009 HA1506	S G318C2 891010 HA1509
Groundwater Pesticides									
Methoxychlor	ug/kg	< 60	< 60	< 60	< 60	< 60	< 60	< 70	< 60
Groundwater Herbicides									
2,4-D	ug/kg	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200
2,4,5-TP (Silvex)	ug/kg	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30
Aroclors by GC									
Aroclor 1242	ug/kg	< 60	< 60	< 60	< 60	< 60	< 60	< 70	< 60
Aroclor 1254	ug/kg	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
Aroclor 1260	ug/kg	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
Aroclor 1248	ug/kg	< 60	< 60	< 60	< 60	< 60	< 60	< 70	< 60
Aroclor 1232	ug/kg	< 60	< 60	< 60	< 60	< 60	< 60	< 70	< 60
Aroclor 1221	ug/kg	< 60	< 60	< 60	< 60	< 60	< 60	< 70	< 60
Aroclor 1016	ug/kg	< 60	< 60	< 60	< 60	< 60	< 60	< 70	< 60
Miscellaneous Parameters									
1,1,1,2-Tetrachloroethane	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
1,2,3-Trichloropropane	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
1,2,4,5-Tetrachlorobenzene	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
1,2-Dibromo-3-chloropropane	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
1,2-Dibromoethane	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
1,4-Dichloro-2-butene	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
1,4-Dioxane	ug/kg	< 300	< 300	< 300	< 300	< 300	< 300	< 300	< 300
1,4-Naphthoquinone	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
1-Naphthylamine	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
2,3,4,6-Tetrachlorophenol	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
2,3,7,8-TCDD	ppb	< .09	< .1	< .09	< .1	< .2	< .1	< .09	< .1
2,3,7,8-TCDF	ppb	< .06	< .09	< .06	< .08	< .1	< .07	< .07	< .07
2,4,5-T	ug/kg	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30
2,4,5-Trichlorophenol	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
2,6-Dichlorophenol	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	Units	S B341C1 890930 HA1440	S B341C2 890930 HA1441	S B304C1 891005 HA1442	S B304C2 891005 HA1443	S P319C2DUP 891009 HA1444	S P319C1 891009 HA1505	S P319C2 891009 HA1506	S G318C2 891010 HA1509
2-Acetylaminofluorene	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
2-Chloro-1,3-butadiene	ug/kg	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	ug/kg	< 10	< 10	< 10	< 10	< 10.0	< 10	< 10	104
2-Methylnaphthalene	ug/kg	< 1000	140	210	190	110	160	190	83
2-Naphthylamine	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
2-Picoline	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
2-sec-Butyl-4,6-dinitrophenol	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
3,3'-Dimethylbenzidine	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
3-Methylcholanthrene	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
4-Aminobiphenyl	ug/kg	< 1000	< 1220	< 1210	< 1210	< 1240	< 1210	< 1260	< 1000
4-Nitroquinoline-N-oxide	ug/kg	IND	IND	IND	IND	IND	IND	IND	IND
5-Nitro-o-toluidine	ug/kg	< 1000	< 1220	< 1000	< 1000	< 1240	< 1000	< 1260	< 1000
7,12-Dimethylbenzo(a)anthracen	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
Acetone	ug/kg	21.6	21.4	21.3	19.7	40.3	16.9	10.9	16.6
Acetonitrile	ug/kg	< 15.0	< 15.0	43.6	< 15.0	< 20	< 20	< 20	31.3
Acetophenone	ug/kg	< 1000	50	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
Aniline	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
Aramite	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
Benzyl alcohol	ug/kg	< 1000	140	1980	2250	< 1000	1950	2390	260
Carbon disulfide	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Chlorobenzilate	ug/kg	< 300	< 300	< 300	< 300	< 300	< 300	< 300	< 300
Diallate	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
Dibenzofuran	ug/kg	< 1000	< 1000	< 1000	< 1000	37	< 1000	46	< 1000
Dibromomethane	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Dimethoate	ug/kg	< 300	< 300	< 300	< 300	< 300	< 300	< 300	< 300
Diphenylamine	ug/kg	< 1000	< 1220	< 1210	< 1000	< 1000	< 1210	< 1000	< 1000
Disulfoton	ug/kg	< 60	< 60	< 60	< 60	< 60	< 70	< 60	< 60
Ending Sample Depth	Feet	16	24	20	28	29	21	29	28
Ethyl cyanide	ug/kg	< 40.0	< 40.0	< 40.0	< 40.0	< 40	< 40	< 40	< 40
Ethyl methacrylate	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0
Ethyl methanesulfonate	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
Famphur	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
Hexachlorophene	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
Hexachloropropene	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
HxCDD	ppb	< .2	< .3	< .2	< .2	< .4	< .2	< .2	< .3
HxCDF	ppb	< .2	< .2	< .07	< .04	< .08	< .05	< .05	< .06
Iodomethane	ug/kg	IND	IND	IND	IND	IND	IND	IND	IND

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below (*ETC Sample No.*) | WASTE MANAGEMENT, INC. (*Company*) | 705 (*Facility*) | See Below (*Sample Point*) | See Below (*Date*)

Parameters	Units	S B341C1 890930 HA1440	S B341C2 890930 HA1441	S B304C1 891005 HA1442	S B304C2 891005 HA1443	S P319C2DUP 891009 HA1444	S P319C1 891009 HA1505	S P319C2 891009 HA1506	S G318C2 891010 HA1509
Isobutyl alcohol	ug/kg	< 230	< 230	< 230	< 230	4.5	< 200	< 200	8.1
Isodrin	ug/kg	< 700	< 700	< 700	< 700	< 700	< 700	< 700	< 700
Isosafrole	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
Kepone	ug/kg	< 60	< 60	< 60	< 60	< 60	< 60	< 70	< 60
Methacrylonitrile	ug/kg	< 110	< 4110	< 110	< 110	< 110	< 100	< 100	< 110
Methapyrilene	ug/kg	IND	IND	IND	IND	IND	IND	IND	IND
Methyl ethyl ketone	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methyl methacrylate	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0
Methyl methanesulfonate	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
Methyl parathion	ug/kg	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
Methyl-iso-butyl ketone	ug/kg	< 10	< 10	< 10	< 10	< 10.0	< 10	< 10	< 10.0
N-Nitrosodi-n-butylamine	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
N-Nitrosodiethylamine	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
N-Nitrosomethylethylamine	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
N-Nitrosomorpholine	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
N-Nitrosopiperidine	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
N-Nitrosopyrrolidine	ug/kg	IND	IND	IND	IND	IND	IND	IND	IND
O,O,O-Triethyl phosphorothioat	ug/kg	IND	IND	IND	IND	IND	IND	IND	IND
PCDD	ppb	< .2	< .2	< .1	< .2	< .3	< .2	< .2	< .2
PCDF	ppb	< .2	< .1	< .1	< .1	< .2	< .1	< .1	< .1
Parathion	ug/kg	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
Pentachlorobenzene	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
Pentachloroethane	ug/kg	IND	IND	IND	IND	IND	IND	IND	IND
Pentachloronitrobenzene	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
Phenacetin	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
Phorate	ug/kg	< 300	< 300	< 300	< 300	< 300	< 300	< 300	< 300
Pronamide	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
Pyridine	ug/kg	<10000	<10000	<10000	<10000	<10000	<10000	<10000	<10000
Safrole	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
Styrene	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Sulfide as S	mg/kg	< 5.7	< 5.9	< 5.7	< 6.0	< 5.6	< 6.0	7.5	< 6.0
TCDD	ppb	< .09	< .1	< .09	< .1	< .2	< .1	< .09	< .1
TCDF	ppb	< .06	< .09	< .06	< .08	< .1	< .07	< .07	< .07
Tetraethyldithiopyrophosphate	ug/kg	IND	IND	IND	IND	IND	IND	IND	IND
Thionazin	ug/kg	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
Vinyl acetate	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
a-a-Dimethylphenethylamine	ug/kg	IND	IND	IND	IND	IND	IND	IND	IND

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		S B341C1 890930 HA1440	S B341C2 890930 HA1441	S B304C1 891005 HA1442	S B304C2 891005 HA1443	S P319C2DUP 891009 HA1444	S P319C1 891009 HA1505	S P319C2 891009 HA1506	S G318C2 891010 HA1509
m+p-Cresols	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
m-Dinitrobenzene	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
m-Nitroaniline	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
m-Xylene	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
o+p-Xylenes	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
o-Cresol	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
o-Nitroaniline	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
o-Toluidine	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
p-Chloroaniline	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
p-Dimethylaminoazobenzene	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
p-Nitroaniline	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
p-phenylenediamine	ug/kg	IND	IND	IND	IND	IND	IND	IND	IND
sym-Trinitrobenzene	ug/kg	IND	IND	IND	IND	IND	IND	IND	IND

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		S G318C1 891010 HA1510	S P316C2 891018 HA1507	S P316C2DUP 891018 HA1508	S P316C1 891018 HA1511	S B304C2 891031 HA1761	S P319C2DUP 891031 HA1762		
Priority Poll. Volatiles GC/MS									
Acrolein	ug/kg	< 20	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0		
Acrylonitrile	ug/kg	< 10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0		
Benzene	ug/kg	< 4.40	< 4	< 4	< 4	-	6.76		
Bromoform	ug/kg	< 5	< 5	< 5	< 5	-	< 5		
Carbon tetrachloride	ug/kg	< 3	< 3	< 3	< 3	-	< 3		
Chlorobenzene	ug/kg	< 6.00	< 6	< 6	< 6	-	1.9		
Chlorodibromomethane	ug/kg	< 3	< 3	< 3	< 3	-	< 3		
Chloroethane	ug/kg	< 10	< 10	< 10	< 10	-	< 10		
Chloroform	ug/kg	< 1.60	< 2	< 2	< 2	-	< 1.60		
Dichlorobromomethane	ug/kg	< 2.20	< 2	< 2	< 2	-	< 2		
Dichlorodifluoromethane	ug/kg	< 10	< 10	< 10	< 10	-	< 10		
1,1-Dichloroethane	ug/kg	< 5	< 5	< 5	< 5	-	< 4.70		
1,2-Dichloroethane	ug/kg	< 3	< 3	< 3	< 3	-	< 2.80		
1,1-Dichloroethylene	ug/kg	< 3	< 3	< 3	< 3	-	< 3		
1,2-Dichloropropane	ug/kg	< 6.00	< 6	< 6	< 6	-	< 6		
cis-1,3-Dichloropropylene	ug/kg	< 5	< 5	< 5	< 5	-	< 5		
Ethylbenzene	ug/kg	< 7	< 7	< 7	< 7	-	< 7		
Methyl bromide	ug/kg	< 10	< 10	< 10	< 10	-	< 10		
Methyl chloride	ug/kg	< 10	< 10	< 10	< 10	-	< 10		
Methylene chloride	ug/kg	28.3	8.47	14.9	8.68	-	11.6		
1,1,2,2-Tetrachloroethane	ug/kg	< 7	< 7	< 7	< 7	-	< 7		
Tetrachloroethylene	ug/kg	< 4	< 4	< 4	< 4	-	< 4		
Toluene	ug/kg	< 6.00	< 6	< 6	< 6	-	1.9		
1,2-Trans-dichloroethylene	ug/kg	< 2	< 2	< 2	< 2	-	< 2		
1,1,1-Trichloroethane	ug/kg	< 4	< 4	< 4	< 4	-	< 4		
1,1,2-Trichloroethane	ug/kg	< 5	< 5	< 5	< 5	-	< 5		
Trichloroethylene	ug/kg	< 1.90	< 2	< 2	< 2	-	< 2		
Trichlorofluoromethane	ug/kg	< 10	< 10	< 10	< 10	-	< 10		
Vinyl chloride	ug/kg	< 10	< 10	< 10	< 10	-	< 10		
trans-1,3-Dichloropropylene	ug/kg	< 10.0	< 10	< 10	< 10	-	< 10		

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below				See Below	
ETC Sample No.	WASTE MANAGEMENT, INC.	*Company*	705 *Facility*	*Sample Point*	*Date*

Parameters	*Units*	S G318C1 891010 HA1510	S P316C2 891018 HA1507	S P316C2DUP 891018 HA1508	S P316C1 891018 HA1511	S B304C2 891031 HA1761	S P319C2DUP 891031 HA1762		
Sample Points, Sampling Dates, and ETC Sample No.'s									
Priority Poll. Acids GC/MS									
2-Chlorophenol	ug/kg	< 400	< 600	< 500	< 400	-	-		
2,4-Dichlorophenol	ug/kg	< 300	< 500	< 400	< 300	-	-		
2,4-Dimethylphenol	ug/kg	< 300	< 500	< 400	< 300	-	-		
4,6-Dinitro-o-cresol	ug/kg	< 3000	< 4000	< 3000	< 3000	-	-		
2,4-Dinitrophenol	ug/kg	< 5000	< 7000	< 6000	< 5000	-	-		
2-Nitrophenol	ug/kg	< 400	< 600	< 500	< 400	-	-		
4-Nitrophenol	ug/kg	< 300	< 400	< 300	< 300	-	-		
p-Chloro-m-cresol	ug/kg	< 400	< 500	< 400	< 400	-	-		
Pentachlorophenol	ug/kg	< 400	< 600	< 500	< 400	-	-		
Phenol	ug/kg	< 200	< 300	< 200	< 200	-	-		
2,4,6-Trichlorophenol	ug/kg	< 300	< 500	< 400	< 300	-	-		
Priority Poll. B/Ns GC/MS									
Acenaphthene	ug/kg	< 227	43	< 300	< 231	-	-		
Acenaphthylene	ug/kg	< 400	< 600	< 500	< 400	-	-		
Anthracene	ug/kg	< 227	64	57	< 231	-	-		
Benzo(a)anthracene	ug/kg	< 900	< 1340	< 1130	< 1000	-	-		
Benzo(a)pyrene	ug/kg	< 300	< 429	< 400	< 300	-	-		
Benzo(b)fluoranthene	ug/kg	< 600	180	< 700	< 600	-	-		
Benzo(ghi)perylene	ug/kg	< 500	< 700	< 600	< 500	-	-		
Benzo(k)fluoranthene	ug/kg	< 300	< 429	< 400	< 300	-	-		
bis(2-Chloroethoxy)methane	ug/kg	< 600	< 900	< 800	< 600	-	-		
bis(2-Chloroethyl) ether	ug/kg	< 700	< 1000	< 800	< 700	-	-		
bis(2-Chloroisopropyl)ether	ug/kg	< 700	< 1000	< 800	< 700	-	-		
bis(2-Ethylhexyl)phthalate	ug/kg	200	130	480	170	-	-		
4-Bromophenyl phenyl ether	ug/kg	< 200	< 300	< 300	< 200	-	-		
Butyl benzyl phthalate	ug/kg	< 1000	< 2000	< 1000	< 1000	-	-		
2-Chloronaphthalene	ug/kg	< 227	< 300	< 300	< 231	-	-		
4-Chlorophenyl phenyl ether	ug/kg	< 500	< 700	< 600	< 500	-	-		
Chrysene	ug/kg	< 300	< 429	120	< 300	-	-		
Dibenzo(a,h)anthracene	ug/kg	< 1000	< 2000	< 1000	< 1000	-	-		
1,2-Dichlorobenzene	ug/kg	< 200	< 300	< 300	< 200	-	-		
1,3-Dichlorobenzene	ug/kg	< 200	< 300	< 300	< 200	-	-		

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		S G318C1 891010 HA1510	S P316C2 891018 HA1507	S P316C2DUP 891018 HA1508	S P316C1 891018 HA1511	S B304C2 891031 HA1761	S P319C2DUP 891031 HA1762		
1,4-Dichlorobenzene	ug/kg	< 500	< 800	< 600	< 500	-	-		
3,3'-Dichlorobenzidine	ug/kg	< 2000	< 3000	< 2000	< 2000	-	-		
Diethyl phthalate	ug/kg	< 1000	< 2000	< 1000	< 1000	-	-		
Dimethyl phthalate	ug/kg	< 1000	< 2000	< 1000	< 1000	-	-		
Di-n-butyl phthalate	ug/kg	560	1300	1200	200	-	-		
2,4-Dinitrotoluene	ug/kg	< 700	< 1000	< 800	< 700	-	-		
2,6-Dinitrotoluene	ug/kg	< 200	< 300	< 300	< 200	-	-		
Di-n-octyl phthalate	ug/kg	140	< 2000	< 1000	< 1000	-	-		
Fluoranthene	ug/kg	< 300	310	240	61	-	-		
Fluorene	ug/kg	< 227	48	37	< 231	-	-		
Hexachlorobenzene	ug/kg	< 200	< 300	< 300	< 200	-	-		
Hexachlorobutadiene	ug/kg	< 100	< 200	< 100	< 100	-	-		
Hexachlorocyclopentadiene	ug/kg	< 1000	< 2000	< 1000	< 1000	-	-		
Hexachloroethane	ug/kg	< 200	< 300	< 200	< 200	-	-		
Indeno(1,2,3-c,d)pyrene	ug/kg	< 600	< 800	< 700	< 600	-	-		
Isophorone	ug/kg	< 263	< 400	< 300	< 268	-	-		
Naphthalene	ug/kg	53	140	110	56	-	-		
Nitrobenzene	ug/kg	< 200	< 300	< 300	< 200	-	-		
N-Nitrosodimethylamine	ug/kg	< 1000	< 2000	< 1000	< 1000	-	-		
N-Nitrosodi-n-propylamine	ug/kg	< 1190	< 1720	< 1450	< 1220	-	-		
N-Nitrosodiphenylamine	ug/kg	< 227	< 300	< 300	< 231	-	-		
Phenanthrene	ug/kg	160	320	340	160	-	-		
Pyrene	ug/kg	< 200	260	210	60	-	-		
1,2,4-Trichlorobenzene	ug/kg	< 200	< 300	< 300	< 200	-	-		
Priority Poll. Pest/PCBs GC/MS									
Aldrin	ug/kg	< 7	< 8	< 7	< 6	-	-		
Alpha-BHC	ug/kg	< 7	< 8	< 7	< 6	-	-		
Beta-BHC	ug/kg	< 7	< 8	< 7	< 6	-	-		
Gamma-BHC	ug/kg	< 7	< 8	< 7	< 6	-	-		
Delta-BHC	ug/kg	< 7	< 8	< 7	< 6	-	-		
Chlordane	ug/kg	< 100	< 200	< 100	< 100	-	-		
4,4'-DDT	ug/kg	< 10	< 20	< 10	< 10	-	-		
4,4'-DDE	ug/kg	< 10	< 20	< 10	< 10	-	-		
4,4'-DDD	ug/kg	< 10	< 20	< 10	< 10	-	-		
Dieldrin	ug/kg	< 10	< 20	< 10	< 10	-	-		

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

DATE: 10/19/93
PAGE: 20

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		S G318C1 891010 HA1510	S P316C2 891018 HA1507	S P316C2DUP 891018 HA1508	S P316C1 891018 HA1511	S B304C2 891031 HA1761	S P319C2DUP 891031 HA1762		
Endosulfan I	ug/kg	< 7	< 8	< 7	< 6	-	-		
Endosulfan II	ug/kg	< 10	< 20	< 10	< 10	-	-		
Endosulfan sulfate	ug/kg	< 10	< 20	< 10	< 10	-	-		
Endrin	ug/kg	< 10	< 20	< 10	< 10	-	-		
Endrin aldehyde	ug/kg	< 10	< 20	< 10	< 10	-	-		
Heptachlor	ug/kg	< 7	< 8	< 7	< 6	-	-		
Heptachlor epoxide	ug/kg	< 7	< 8	< 7	< 6	-	-		
Toxaphene	ug/kg	< 300	< 300	< 300	< 200	-	-		
Groundwater Conventionals									
Cyanide, Total	mg/kg	< .62	< .85	< 1.13	< .62	-	-		
Metals Analysis Data									
Antimony	ug/kg	23000	21000	30000	26000	-	-		
Arsenic	ug/kg	6300	9100	11000	9100	-	-		
Barium	ug/kg	43000	58000	74000	40000	-	-		
Beryllium	ug/kg	430	440	500	410	-	-		
Cadmium	ug/kg	< 250	< 340	< 450	< 250	-	-		
Chromium	ug/kg	16000	27000	44000	15000	-	-		
Cobalt	ug/kg	9800	8200	7200	10000	-	-		
Copper	ug/kg	27000	23000	26000	26000	-	-		
Lead	ug/kg	17000	24000	44000	13000	-	-		
Mercury	ug/kg	41	< 140	< 900	37	-	-		
Nickel	ug/kg	29000	25000	25000	28000	-	-		
Selenium	ug/kg	190	< 850	430	280	-	-		
Silver	ug/kg	540	< 1700	580	< 1200	-	-		
Thallium	ug/kg	930	810	470	540	-	-		
Tin	ug/kg	2500	< 8500	9100	7400	-	-		
Vanadium	ug/kg	20000	23000	33000	19000	-	-		
Zinc	ug/kg	110000	71000	98000	54000	-	-		
Field Parameters									
Sample Depth	Feet	18	28	28	21	26	26		

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below				See Below	
ETC Sample No.	WASTE MANAGEMENT, INC.	*Company*	705 *Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		S G318C1 891010 HA1510	S P316C2 891018 HA1507	S P316C2DUP 891018 HA1508	S P316C1 891018 HA1511	S B304C2 891031 HA1761	S P319C2DUP 891031 HA1762		
Groundwater Pesticides									
Methoxychlor	ug/kg	< 70	< 80	< 70	< 60	-	-		
Groundwater Herbicides									
2,4-D	ug/kg	< 200	< 200	< 200	< 200	-	-		
2,4,5-TP (Silvex)	ug/kg	< 30	< 40	< 30	< 30	-	-		
Aroclors by GC									
Aroclor 1242	ug/kg	< 70	< 80	< 70	< 60	-	-		
Aroclor 1254	ug/kg	< 100	< 200	< 100	< 100	-	-		
Aroclor 1260	ug/kg	< 100	< 200	< 100	< 100	-	-		
Aroclor 1248	ug/kg	< 70	< 80	< 70	< 60	-	-		
Aroclor 1232	ug/kg	< 70	< 80	< 70	< 60	-	-		
Aroclor 1221	ug/kg	< 70	< 80	< 70	< 60	-	-		
Aroclor 1016	ug/kg	< 70	< 80	< 70	< 60	-	-		
Miscellaneous Parameters									
1,1,1,2-Tetrachloroethane	ug/kg	< 10	< 10	< 10	< 10	-	< 10		
1,2,3-Trichloropropane	ug/kg	< 10	< 10	< 10	< 10	-	< 10		
1,2,4,5-Tetrachlorobenzene	ug/kg	< 1000	< 2000	< 1000	< 1000	-	-		
1,2-Dibromo-3-chloropropane	ug/kg	< 10	< 10	< 10	< 10	-	< 10		
1,2-Dibromoethane	ug/kg	< 10	< 10	< 10	< 10	-	< 10		
1,4-Dichloro-2-butene	ug/kg	< 10	< 10	< 10	< 10	-	< 10.0		
1,4-Dioxane	ug/kg	< 300	< 300	< 300	< 300	< 300	< 300		
1,4-Naphthoquinone	ug/kg	< 1000	< 2000	< 1000	< 1000	-	-		
1-Naphthylamine	ug/kg	< 1000	< 2000	< 1000	< 1000	-	-		
2,3,4,6-Tetrachlorophenol	ug/kg	< 1000	< 2000	< 1000	< 1000	-	-		
2,3,7,8-TCDD	ppb	< .08	< .1	< .1	< .1	-	-		
2,3,7,8-TCDF	ppb	< .06	< .06	< .08	< .08	-	-		
2,4,5-T	ug/kg	< 30	< 40	< 30	< 30	-	-		
2,4,5-Trichlorophenol	ug/kg	< 1000	< 2000	< 1000	< 1000	-	-		
2,6-Dichlorophenol	ug/kg	< 1000	< 2000	< 1000	< 1000	-	-		

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		S G318C1 891010 HA1510	S P316C2 891018 HA1507	S P316C2DUP 891018 HA1508	S P316C1 891018 HA1511	S B304C2 891031 HA1761	S P319C2DUP 891031 HA1762		
2-Acetylaminofluorene	ug/kg	< 1000	< 2000	< 1000	< 1000	-	-		
2-Chloro-1,3-butadiene	ug/kg	ND	ND	ND	ND	-	ND		
2-Hexanone	ug/kg	< 10.0	< 10	< 10	< 10	-	< 10		
2-Methylnaphthalene	ug/kg	260	120	110	150	-	-		
2-Naphthylamine	ug/kg	< 1000	< 2000	< 1000	< 1000	-	-		
2-Picoline	ug/kg	< 1000	< 2000	< 1000	< 1000	-	-		
2-sec-Butyl-4,6-dinitrophenol	ug/kg	< 1000	< 2000	< 1000	< 1000	-	-		
3,3'-Dimethylbenzidine	ug/kg	< 1000	< 2000	< 1000	< 1000	-	-		
3-Methylcholanthrene	ug/kg	< 1000	< 2000	< 1000	< 1000	-	-		
4-Aminobiphenyl	ug/kg	< 1190	< 2000	< 1000	< 1220	-	-		
4-Nitroquinoline-N-oxide	ug/kg	IND	IND	IND	IND	-	-		
5-Nitro-o-toluidine	ug/kg	< 1190	< 1720	< 1450	< 1220	-	-		
7,12-Dimethylbenzo(a)anthracen	ug/kg	< 1000	< 2000	< 1000	< 1000	-	-		
Acetone	ug/kg	23.6	23.5	68.6	18.8	-	45.2		
Acetonitrile	ug/kg	< 20	< 15.0	< 15.0	< 15.0	< 15.0	11.8		
Acetophenone	ug/kg	< 1000	< 2000	< 1000	< 1000	-	-		
Aniline	ug/kg	< 1000	< 2000	< 1000	< 1000	-	-		
Aramite	ug/kg	< 1000	< 2000	< 1000	< 1000	-	-		
Benzyl alcohol	ug/kg	270	680	92	380	-	-		
Carbon disulfide	ug/kg	< 10.0	< 10	< 10	< 10	-	1.5		
Chlorobenzilate	ug/kg	< 300	< 400	< 300	< 300	-	-		
Diallate	ug/kg	< 1000	< 2000	< 1000	< 1000	-	-		
Dibenzofuran	ug/kg	35	37	32	29	-	-		
Dibromomethane	ug/kg	< 10	< 10	< 10	< 10	-	< 10		
Dimethoate	ug/kg	< 300	< 400	< 300	< 300	-	-		
Diphenylamine	ug/kg	< 1190	< 2000	< 1000	< 1220	-	-		
Disulfoton	ug/kg	< 70	< 80	< 70	< 60	-	-		
Ending Sample Depth	Feet	20	31	31	23	28	27.5		
Ethyl cyanide	ug/kg	< 40	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0		
Ethyl methacrylate	ug/kg	202	3.6	< 10	< 10	-	< 10		
Ethyl methanesulfonate	ug/kg	< 1190	< 2000	< 1000	< 1000	-	-		
Famphur	ug/kg	< 1000	< 2000	< 1000	< 1000	-	-		
Hexachlorophene	ug/kg	< 1000	< 2000	< 1000	< 1000	-	-		
Hexachloropropene	ug/kg	< 1000	< 2000	< 1000	< 1000	-	-		
HxCDD	ppb	< .2	< .2	< .2	< .2	-	-		
HxCDF	ppb	< .05	< .06	< .05	< .05	-	-		
Iodomethane	ug/kg	IND	IND	IND	IND	-	< 10		

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		S G318C1 891010 HA1510	S P316C2 891018 HA1507	S P316C2DUP 891018 HA1508	S P316C1 891018 HA1511	S B304C2 891031 HA1761	S P319C2DUP 891031 HA1762		
Isobutyl alcohol	ug/kg	< 230	< 230	< 230	< 230	< 230	< 230		
Isodrin	ug/kg	< 700	< 1000	< 900	< 700	-	-		
Isosafrole	ug/kg	< 1000	< 2000	< 1000	< 1000	-	-		
Kepone	ug/kg	< 70	< 80	< 70	< 60	-	-		
Methacrylonitrile	ug/kg	< 100	< 110	< 110	< 110	< 110	< 110		
Methapyrilene	ug/kg	IND	IND	IND	IND	-	-		
Methyl ethyl ketone	ug/kg	< 10	< 10	< 10	< 10	-	< 10		
Methyl methacrylate	ug/kg	< 10.0	< 10	< 10	< 10	-	< 10		
Methyl methanesulfonate	ug/kg	< 1000	< 2000	< 1000	< 1000	-	-		
Methyl parathion	ug/kg	< 100	< 200	< 100	< 100	-	-		
Methyl-iso-butyl ketone	ug/kg	346	< 10	< 10	< 10	-	< 10.0		
N-Nitrosodi-n-butylamine	ug/kg	< 1000	< 2000	< 1000	< 1000	-	-		
N-Nitrosodiethylamine	ug/kg	< 1000	< 2000	< 1000	< 1000	-	-		
N-Nitrosomethylethylamine	ug/kg	< 1000	< 2000	< 1000	< 1000	-	-		
N-Nitrosomorpholine	ug/kg	< 1000	< 2000	< 1000	< 1000	-	-		
N-Nitrosopiperidine	ug/kg	< 1000	< 2000	< 1000	< 1000	-	-		
N-Nitrosopyrrolidine	ug/kg	IND	IND	IND	IND	-	-		
O,O,O-Triethyl phosphorothioat	ug/kg	IND	IND	IND	IND	-	-		
PCDD	ppb	< .2	< .2	< .3	< .2	-	-		
PCDF	ppb	< .2	< .08	< .1	< .1	-	-		
Parathion	ug/kg	< 100	< 200	< 100	< 100	-	-		
Pentachlorobenzene	ug/kg	< 1000	< 2000	< 1000	< 1000	-	-		
Pentachloroethane	ug/kg	IND	IND	IND	IND	-	ND		
Pentachloronitrobenzene	ug/kg	< 1000	< 2000	< 1000	< 1000	-	-		
Phenacetin	ug/kg	< 1000	< 2000	< 1000	< 1000	-	-		
Phorate	ug/kg	< 300	< 400	< 300	< 300	-	-		
Pronamide	ug/kg	< 1000	< 2000	< 1000	< 1000	-	-		
Pyridine	ug/kg	<10000	<10000	<10000	<10000	-	-		
Safrole	ug/kg	< 1000	< 2000	< 1000	< 1000	-	-		
Styrene	ug/kg	< 10	< 10	< 10	< 10	-	< 10.0		
Sulfide as S	mg/kg	< 5.8	< 6.4	< 6.1	< 5.3	-	-		
TCDD	ppb	< .08	< .1	< .1	< .1	-	-		
TCDF	ppb	< .06	< .06	< .08	< .08	-	-		
Tetraethyldithiopyrophosphate	ug/kg	IND	IND	IND	IND	-	-		
Thionazin	ug/kg	< 100	< 200	< 100	< 100	-	-		
Vinyl acetate	ug/kg	< 10	< 10	< 10	< 10	-	< 10		
a-a-Dimethylphenethylamine	ug/kg	IND	IND	IND	IND	-	-		

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		S G3T8C1 891010 HA1510	S P3T6C2 891018 HA1507	S P3T6C2DUP 891018 HA1508	S P3T6C1 891018 HA1511	S B3O4C2 891031 HA1761	S P3T9C2DUP 891031 HA1762		
m+p-Cresols	ug/kg	< 1000	< 2000	< 1000	< 1000	-	-		
m-Dinitrobenzene	ug/kg	< 1000	< 2000	< 1000	< 1000	-	-		
m-Nitroaniline	ug/kg	< 1000	< 2000	< 1000	< 1000	-	-		
m-Xylene	ug/kg	< 10	< 10	< 10	< 10	-	< 10		
o+p-Xylenes	ug/kg	< 10	< 10	< 10	< 10	-	< 10		
o-Cresol	ug/kg	< 1000	< 2000	< 1000	< 1000	-	-		
o-Nitroaniline	ug/kg	< 1000	< 2000	< 1000	< 1000	-	-		
o-Toluidine	ug/kg	< 1000	< 2000	< 1000	< 1000	-	-		
p-Chloroaniline	ug/kg	< 1000	< 2000	< 1000	< 1000	-	-		
p-Dimethylaminoazobenzene	ug/kg	< 1000	< 2000	< 1000	< 1000	-	-		
p-Nitroaniline	ug/kg	< 1000	< 2000	< 1000	< 1000	-	-		
p-phenylenediamine	ug/kg	IND	IND	IND	IND	-	-		
sym-Trinitrobenzene	ug/kg	IND	IND	IND	IND	-	-		

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

PHASE II
CLAY SAMPLE RESULTS

- APPENDIX K -

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

DATE: 10/14/93
PAGE: 1

Chain of Custody Data Required for ETC Data Management Summary Report

See Below				See Below	
ETC Sample No.	WASTE MANAGEMENT, INC.		705	*Sample Point*	*Date*
	Company		*Facility*		

Parameters	*Units*	Sample Points, Sampling Dates, and ETC Sample No.'s							
		S C-4-5 910925 HA6084	S C-4-15 910925 HA6085	S C-4-40 910925 HA6086	S C-6-5 910930 HA6090	S C-6-15 910930 HA6091	S C-6-40 910930 HA6092	S C-2-5 911002 HA6096	S C-2-15 911002 HA6097
Priority Poll. Volatiles GC/MS									
Acrolein	ug/kg	< 20	< 30	< 22.2	< 20	< 23.5	< 20	< 20	< 24.1
Acrylonitrile	ug/kg	< 10	< 10	< 11.1	< 10	< 10	< 10	< 10	< 10
Benzene	ug/kg	1.2	2.9	< 5	< 5	< 5	< 5	< 5	< 5
Bromoform	ug/kg	< 6	< 6	< 5	< 6	< 6	< 5	< 6	< 6
Carbon tetrachloride	ug/kg	< 3.41	< 3.50	< 3	< 3	< 3	< 3	< 3	< 3
Chlorobenzene	ug/kg	< 7	< 8	< 7	< 7	< 7	< 7	< 7	< 7
Chlorodibromomethane	ug/kg	< 4	< 4	< 3	< 4	< 4	< 3	< 4	< 4
Chloroethane	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Chloroform	ug/kg	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Dichlorobromomethane	ug/kg	< 3	< 3	< 2.44	< 3	< 3	< 2	< 3	< 3
Dichlorodifluoromethane	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
1,1-Dichloroethane	ug/kg	< 5.73	< 6	< 5	< 6	< 6	< 5	< 6	< 6
1,2-Dichloroethane	ug/kg	< 3	< 4	< 3	< 3	< 3	< 3	< 3	< 3
1,1-Dichloroethylene	ug/kg	< 3	< 4	< 3	< 3	< 3	< 3	< 3	< 3
1,2-Dichloropropane	ug/kg	< 7	< 8	< 7	< 7	< 7	< 7	< 7	< 7
cis-1,3-Dichloropropylene	ug/kg	< 6.10	< 6.25	< 5.56	< 6	< 6	< 5	< 6	< 6
Ethylbenzene	ug/kg	< 9	< 9	< 8	< 9	< 8	< 8	< 8	< 9
Methyl bromide	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methyl chloride	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methylene chloride	ug/kg	< 3.41	< 4	< 3	< 3	< 3	< 3	< 3	< 3
1,1,2,2-Tetrachloroethane	ug/kg	< 8	< 9	< 8	< 8	< 8	< 8	< 8	< 8
Tetrachloroethylene	ug/kg	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Toluene	ug/kg	3.3	8.72	4.1	< 7	< 7	< 7	< 7	< 7
1,2-Trans-dichloroethylene	ug/kg	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,1,1-Trichloroethane	ug/kg	< 4.63	< 4.75	< 4.22	< 5	< 4	< 4	< 4	< 5
1,1,2-Trichloroethane	ug/kg	< 6	< 6	< 6	< 6	< 6	< 5	< 6	< 6
Trichloroethylene	ug/kg	1.3	2.1	< 2.11	< 2	< 2	< 2	< 2	< 2
Trichlorofluoromethane	ug/kg	< 10	< 10	< 10	< 10	7.9	19.3	< 10	5.4
Vinyl chloride	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
trans-1,3-Dichloropropylene	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	Units	S C-4-5 910925 HA6084	S C-4-15 910925 HA6085	S C-4-40 910925 HA6086	S C-6-5 910930 HA6090	S C-6-15 910930 HA6091	S C-6-40 910930 HA6092	S C-2-5 911002 HA6096	S C-2-15 911002 HA6097
Priority Poll. Acids GC/MS									
2-Chlorophenol	ug/kg	< 400	< 400	< 400	< 400	< 400	< 400	< 400	< 400
2,4-Dichlorophenol	ug/kg	< 300	< 300	< 300	< 300	< 300	< 300	< 300	< 300
2,4-Dimethylphenol	ug/kg	< 300	< 300	< 300	< 300	< 300	< 300	< 300	< 300
4,6-Dinitro-o-cresol	ug/kg	< 3000	< 3000	< 3000	< 3000	< 3000	< 3000	< 3000	< 3000
2,4-Dinitrophenol	ug/kg	< 5000	< 5000	< 5000	< 5000	< 5000	< 5000	< 5000	< 5000
2-Nitrophenol	ug/kg	< 400	< 500	< 400	< 400	< 400	< 400	< 400	< 400
4-Nitrophenol	ug/kg	< 300	< 300	< 300	< 300	< 300	< 300	< 300	< 300
p-Chloro-m-cresol	ug/kg	< 400	< 400	< 300	< 300	< 400	< 300	< 400	< 400
Pentachlorophenol	ug/kg	< 400	< 500	< 400	< 400	< 400	< 400	< 400	< 400
Phenol	ug/kg	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200
2,4,6-Trichlorophenol	ug/kg	< 300	< 300	< 300	< 300	< 300	< 300	< 300	< 300
Priority Poll. B/Ns GC/MS									
Acenaphthene	ug/kg	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 229
Acenaphthylene	ug/kg	< 400	< 400	< 400	< 400	< 400	< 400	< 400	< 400
Anthracene	ug/kg	< 200	< 200	< 200	< 200	< 200	< 200	< 224	< 229
Benzo(a)anthracene	ug/kg	< 1000	< 1000	< 900	< 800	< 900	< 800	< 900	< 900
Benzo(a)pyrene	ug/kg	< 300	< 300	< 300	< 300	< 300	< 300	< 300	< 300
Benzo(b)fluoranthene	ug/kg	< 600	< 600	< 500	< 500	< 600	< 500	< 600	< 600
Benzo(ghi)perylene	ug/kg	< 500	< 500	< 500	< 400	< 500	< 400	< 500	< 500
Benzo(k)fluoranthene	ug/kg	< 300	< 300	< 300	< 300	< 300	< 300	< 300	< 300
bis(2-Chloroethoxy)methane	ug/kg	< 600	< 700	< 600	< 600	< 600	< 600	< 600	< 600
bis(2-Chloroethyl) ether	ug/kg	< 700	< 700	< 600	< 600	< 700	< 600	< 700	< 700
bis(2-Chloroisopropyl)ether	ug/kg	< 700	< 700	< 600	< 600	< 700	< 600	< 700	< 700
bis(2-Ethylhexyl)phthalate	ug/kg	41500	< 1000	< 1000	< 1000	< 1000	< 1000	4810	9410
4-Bromophenyl phenyl ether	ug/kg	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200
Butyl benzyl phthalate	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
2-Chloronaphthalene	ug/kg	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200
4-Chlorophenyl phenyl ether	ug/kg	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500
Chrysene	ug/kg	< 300	< 300	< 300	< 300	< 300	< 300	< 300	< 300
Dibenzo(a,h)anthracene	ug/kg	< 300	< 300	< 300	< 300	< 300	< 300	< 300	< 300
1,2-Dichlorobenzene	ug/kg	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200
1,3-Dichlorobenzene	ug/kg	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below — *ETC Sample No.* | WASTE MANAGEMENT, INC. — *Company* | 705 — *Facility* | See Below — *Sample Point* | *Date*

Parameters	Units	Sample Points, Sampling Dates, and ETC Sample No.'s							
		S C-4-5 910925 HA6084	S C-4-15 910925 HA6085	S C-4-40 910925 HA6086	S C-6-5 910930 HA6090	S C-6-15 910930 HA6091	S C-6-40 910930 HA6092	S C-2-5 911002 HA6096	S C-2-15 911002 HA6097
Nickel	ug/kg	25000	29000	31000	34000	28000	30000	29000	32000
Selenium	ug/kg	140	310	210	140	530	150	< 590	230
Silver	ug/kg	< 1200	< 1200	280	< 1200	380	240	280	< 1200
Thallium	ug/kg	< 1200	1000	580	500	910	710	< 1200	800
Tin	ug/kg	35000	27000	32000	33000	32000	33000	33000	29000
Vanadium	ug/kg	21000	13000	19000	22000	14000	18000	22000	16000
Zinc	ug/kg	45000	50000	59000	63000	81000	55000	54000	90000
Field Parameters									
Sample Depth	Feet	22	32	56	20	30	54	20	30
Miscellaneous Parameters									
1,1,1,2-Tetrachloroethane	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
1,2,3-Trichloropropane	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
1,2,4,5-Tetrachlorobenzene	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
1,2-Dibromo-3-chloropropane	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
1,2-Dibromoethane	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
1,4-Dichloro-2-butene	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
1,4-Dioxane	ug/kg	< 300	< 400	< 300	< 400	< 400	< 300	< 400	< 400
1,4-Naphthoquinone	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
1-Naphthylamine	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
2,3,4,6-Tetrachlorophenol	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
2,4,5-Trichlorophenol	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
2,6-Dichlorophenol	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
2-Acetylaminofluorene	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
2-Chloro-1,3-butadiene	ug/kg	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	ug/kg	< 12.2	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Methylnaphthalene	ug/kg	< 1000	< 1000	450	260	< 1000	< 1000	< 1180	< 1000
2-Naphthylamine	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
2-Picoline	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
2-sec-Butyl-4,6-dinitrophenol	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
3,3'-Dimethylbenzidine	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
3-Methylcholanthrene	ug/kg	< 700	< 700	< 600	< 600	< 600	< 600	< 600	< 700
3-chloropropene	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-Aminobiphenyl	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1180	< 1200

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	Units	S C-4-5 910925 HA6084	S C-4-15 910925 HA6085	S C-4-40 910925 HA6086	S C-6-5 910930 HA6090	S C-6-15 910930 HA6091	S C-6-40 910930 HA6092	S C-2-5 911002 HA6096	S C-2-15 911002 HA6097
4-Nitroquinoline-N-oxide	ug/kg	IND	IND	IND	IND	IND	IND	IND	IND
5-Nitro-o-toluidine	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
7,12-Dimethylbenzo(a)anthracen	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
Acetone	ug/kg	< 12.2	< 12.5	< 11.1	< 10	< 10	< 10	< 10	< 10
Acetonitrile	ug/kg	< 20	< 18.8	< 20	< 20	< 20	< 16.5	< 17.6	< 20
Acetophenone	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
Aniline	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
Aramite	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
Benzyl alcohol	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
Carbon disulfide	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Diallate	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
Dibenzofuran	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1200
Dibromomethane	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Diphenylamine	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1200
Ending Sample Depth	Feet	24	34	58	22	32	56	26	32
Ethyl cyanide	ug/kg	< 50	< 50	< 40	< 50	< 50	< 40	< 50	< 48.2
Ethyl methacrylate	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Ethyl methanesulfonate	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
Hexachlorophene	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
Hexachloropropene	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
Iodomethane	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Isobutyl alcohol	ug/kg	< 261	< 288	< 300	< 280	< 271	< 253	< 300	< 277
Isodrin	ug/kg	< 700	< 700	< 700	< 600	< 700	< 600	< 700	< 700
Isosafrole	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
Methacrylonitrile	ug/kg	< 125	< 138	< 122	< 100	< 129	< 121	< 129	< 133
Methapyrilene	ug/kg	IND	IND	IND	IND	IND	IND	IND	IND
Methyl ethyl ketone	ug/kg	< 10	< 10	13.0	< 10	< 10	< 10	< 10	< 10
Methyl methacrylate	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methyl methanesulfonate	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
Methyl-iso-butyl ketone	ug/kg	< 12.2	< 10	< 11.1	< 10	< 10	< 10	< 10	< 10
N-Nitrosodi-n-butylamine	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
N-Nitrosodiethylamine	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
N-Nitrosomethylethylamine	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
N-Nitrosomorpholine	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1180	< 1000
N-Nitrosopiperidine	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1180	< 1200
N-Nitrosopyrrolidine	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
Pentachlorobenzene	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		S C-4-5 910925 HA6084	S C-4-15 910925 HA6085	S C-4-40 910925 HA6086	S C-6-5 910930 HA6090	S C-6-15 910930 HA6091	S C-6-40 910930 HA6092	S C-2-5 911002 HA6096	S C-2-15 911002 HA6097
Pentachloroethane	ug/kg	ND	ND	ND	ND	ND	ND	ND	ND
Pentachloronitrobenzene	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
Phenacetin	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
Pronamide	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
Pyridine	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
Safrole	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
Styrene	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Tetraethyldithiopyrophosphate	ug/kg	ND	ND	ND	ND	ND	ND	ND	ND
Unable to Sample	CODE	-	-	-	-	-	-	-	-
Vinyl acetate	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
m+p-Cresols	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
m-Dinitrobenzene	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
m-Nitroaniline	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
m-Xylene	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
m-phenylenediamine	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
o+p-Xylenes	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
o-Cresol	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
o-Nitroaniline	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
o-Toluidine	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1180	< 1000
o-phenylenediamine	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
p-Chloroaniline	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
p-Dimethylaminoazobenzene	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
p-Nitroaniline	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
p-phenylenediamine	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
sym-Trinitrobenzene	ug/kg	IND	IND	IND	IND	IND	IND	IND	IND

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

DATE: 10/14/93
PAGE: 7

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		S C-1-5 911006 HA6087	S C-1-15 911006 HA6088	S C-1-40 911006 HA6089	S C-7-15 911006 HA6098	S C-7-40 911007 HA6101	S C-3-5 911005 HA6102	S C-3-15 911005 HA6103	S C-3-40 911005 HA6104
Priority Poll. Volatiles GC/MS									
Acrolein	ug/kg	< 20	< 30	< 20	< 20	< 20	< 20	< 23.3	< 21.7
Acrylonitrile	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Benzene	ug/kg	< 5	< 6	< 5	< 5	< 5	< 5	< 5	< 5
Bromoform	ug/kg	< 6	< 6	< 5	< 6	< 5	< 6	< 5	< 5
Carbon tetrachloride	ug/kg	< 3	< 4	< 3	< 3	< 3	< 3	< 3	< 3
Chlorobenzene	ug/kg	< 7	< 8	< 7	< 7	< 7	< 7	< 7	< 7
Chlorodibromomethane	ug/kg	< 4	< 4	< 4	< 4	< 3	< 4	< 4	< 3
Chloroethane	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Chloroform	ug/kg	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Dichlorobromomethane	ug/kg	< 3	< 3	< 3	< 3	< 2	< 3	< 3	< 2
Dichlorodifluoromethane	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
1,1-Dichloroethane	ug/kg	< 6	< 6	< 5	< 6	< 5	< 6	< 5	< 5
1,2-Dichloroethane	ug/kg	< 3	< 4	< 3	< 3	< 3	< 3	< 3	< 3
1,1-Dichloroethylene	ug/kg	< 3	< 4	< 3	< 3	< 3	< 3	< 3	< 3
1,2-Dichloropropane	ug/kg	< 7	< 8	< 7	< 7	< 7	< 7	< 7	< 7
cis-1,3-Dichloropropylene	ug/kg	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 5
Ethylbenzene	ug/kg	< 9	< 9	< 8	< 8	< 8	< 9	< 8	< 8
Methyl bromide	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methyl chloride	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methylene chloride	ug/kg	< 3	< 4	< 3	< 3	< 3	< 3	< 3	< 3
1,1,2,2-Tetrachloroethane	ug/kg	< 8	< 9	< 8	< 8	< 8	< 8	< 8	< 7
Tetrachloroethylene	ug/kg	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 4
Toluene	ug/kg	< 7	< 8	< 7	< 7	< 7	< 7	< 7	< 7
1,2-Trans-dichloroethylene	ug/kg	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,1,1-Trichloroethane	ug/kg	< 5	< 5	< 4	< 4	< 4	< 5	< 4	< 4
1,1,2-Trichloroethane	ug/kg	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 5
Trichloroethylene	ug/kg	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Trichlorofluoromethane	ug/kg	< 10	< 10	< 10	< 10	5.4	< 10	12.7	21.4
Vinyl chloride	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
trans-1,3-Dichloropropylene	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below			See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*
	WASTE MANAGEMENT, INC.	705		

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		S C-1-5 911006 HA6087	S C-1-15 911006 HA6088	S C-1-40 911006 HA6089	S C-7-15 911006 HA6098	S C-7-40 911007 HA6101	S C-3-5 911005 HA6102	S C-3-15 911005 HA6103	S C-3-40 911005 HA6104
Priority Poll. Acids GC/MS									
2-Chlorophenol	ug/kg	< 400	< 400	< 400	< 400	< 400	< 400	< 400	< 400
2,4-Dichlorophenol	ug/kg	< 300	< 400	< 300	< 300	< 300	< 300	< 300	< 300
2,4-Dimethylphenol	ug/kg	< 300	< 400	< 300	< 300	< 300	< 300	< 300	< 300
4,6-Dinitro-o-cresol	ug/kg	< 3000	< 3000	< 3000	< 3000	< 3000	< 3000	< 3000	< 3000
2,4-Dinitrophenol	ug/kg	< 5000	< 5000	< 5000	< 5000	< 5000	< 5000	< 5000	< 5000
2-Nitrophenol	ug/kg	< 400	< 500	< 400	< 400	< 400	< 400	< 400	< 400
4-Nitrophenol	ug/kg	< 300	< 300	< 300	< 300	< 300	< 300	< 300	< 300
p-Chloro-m-cresol	ug/kg	< 400	< 400	< 300	< 400	< 300	< 400	< 300	< 300
Pentachlorophenol	ug/kg	< 400	< 500	< 400	< 400	< 400	< 400	< 400	< 400
Phenol	ug/kg	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200
2,4,6-Trichlorophenol	ug/kg	< 300	< 400	< 300	< 300	< 300	< 300	< 300	< 300
Priority Poll. B/Ns GC/MS									
Acenaphthene	ug/kg	< 200	< 200	< 200	< 224	< 200	< 226	< 200	< 200
Acenaphthylene	ug/kg	< 400	< 500	< 400	< 400	< 400	< 400	< 400	< 400
Anthracene	ug/kg	< 229	< 200	< 218	< 224	< 211	< 226	< 221	< 207
Benzo(a)anthracene	ug/kg	< 900	< 1000	< 900	< 900	< 900	< 900	< 900	< 800
Benzo(a)pyrene	ug/kg	< 300	< 300	< 300	< 300	< 300	< 300	< 300	< 300
Benzo(b)fluoranthene	ug/kg	< 600	< 600	< 600	< 600	< 500	< 600	< 600	< 500
Benzo(ghi)perylene	ug/kg	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 400
Benzo(k)fluoranthene	ug/kg	< 300	< 300	< 300	< 300	< 300	< 300	< 300	< 300
bis(2-Chloroethoxy)methane	ug/kg	< 600	< 700	< 600	< 600	< 600	< 600	< 700	< 600
bis(2-Chloroethyl) ether	ug/kg	< 700	< 700	< 700	< 700	< 600	< 700	< 700	< 600
bis(2-Chloroisopropyl)ether	ug/kg	< 700	< 700	< 700	< 700	< 600	< 700	< 700	< 600
bis(2-Ethylhexyl)phthalate	ug/kg	3870	7690	7750	10800	7600	6140	7370	3870
4-Bromophenyl phenyl ether	ug/kg	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200
Butyl benzyl phthalate	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
2-Chloronaphthalene	ug/kg	< 200	< 200	< 200	< 224	< 200	< 226	< 200	< 207
4-Chlorophenyl phenyl ether	ug/kg	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500
Chrysene	ug/kg	< 300	< 300	< 300	< 300	< 300	< 300	< 300	< 300
Dibenzo(a,h)anthracene	ug/kg	< 300	< 300	< 300	< 300	< 300	< 300	< 300	< 300
1,2-Dichlorobenzene	ug/kg	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200
1,3-Dichlorobenzene	ug/kg	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	Units	Sample Points, Sampling Dates, and ETC Sample No.'s							
		S C-1-5 911006 HA6087	S C-1-15 911006 HA6088	S C-1-40 911006 HA6089	S C-7-15 911006 HA6098	S C-7-40 911007 HA6101	S C-3-5 911005 HA6102	S C-3-15 911005 HA6103	S C-3-40 911005 HA6104
1,4-Dichlorobenzene	ug/kg	< 500	< 600	< 500	< 500	< 500	< 500	< 500	< 500
3,3'-Dichlorobenzidine	ug/kg	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000
Diethyl phthalate	ug/kg	< 1200	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
Dimethyl phthalate	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
Di-n-butyl phthalate	ug/kg	2620	4350	3070	4250	8240	9540	1900	17600
2,4-Dinitrotoluene	ug/kg	< 700	< 700	< 700	< 700	< 600	< 700	< 700	< 600
2,6-Dinitrotoluene	ug/kg	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200
Di-n-octyl phthalate	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
Fluoranthene	ug/kg	< 300	< 300	< 300	< 300	< 200	< 300	< 300	< 200
Fluorene	ug/kg	< 200	< 200	< 218	< 200	< 200	< 226	< 221	< 207
Hexachlorobenzene	ug/kg	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200
Hexachlorobutadiene	ug/kg	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
Hexachlorocyclopentadiene	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
Hexachloroethane	ug/kg	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200
Indeno(1,2,3-c,d)pyrene	ug/kg	< 400	< 500	< 400	< 400	< 400	< 400	< 400	< 400
Isophorone	ug/kg	< 300	< 300	< 253	< 259	< 244	< 262	< 300	< 239
Naphthalene	ug/kg	< 193	< 200	< 200	< 188	< 178	< 200	< 186	< 174
Nitrobenzene	ug/kg	< 229	< 200	< 200	< 200	< 211	< 200	< 200	< 207
N-Nitrosodimethylamine	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
N-Nitrosodi-n-propylamine	ug/kg	< 1200	< 1000	< 1150	< 1180	< 1110	< 1190	< 1160	< 1090
N-Nitrosodiphenylamine	ug/kg	< 229	< 200	< 218	< 224	< 200	< 200	< 200	< 200
Phenanthrene	ug/kg	< 651	< 700	290	300	< 600	270	< 628	240
Pyrene	ug/kg	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200
1,2,4-Trichlorobenzene	ug/kg	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200
Metals Analysis Data									
Antimony	ug/kg	< 7300	< 7700	< 6900	< 7100	< 6700	< 7200	< 7000	< 6600
Arsenic	ug/kg	8000	2900	11000	12000	8900	9800	13000	9400
Barium	ug/kg	47000	55000	21000	23000	33000	37000	32000	21000
Beryllium	ug/kg	740	870	580	580	720	740	740	560
Cadmium	ug/kg	1400	1500	1900	1800	1800	1800	2000	1800
Chromium	ug/kg	18000	23000	14000	16000	17000	17000	17000	13000
Cobalt	ug/kg	12000	13000	13000	15000	12000	15000	15000	12000
Copper	ug/kg	27000	25000	40000	40000	29000	49000	42000	38000
Lead	ug/kg	14000	13000	21000	24000	21000	23000	24000	21000
Mercury	ug/kg	68	62	74	67	53	48	< 94	48

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		S C-1-5 911006 HA6087	S C-1-15 911006 HA6088	S C-1-40 911006 HA6089	S C-7-15 911006 HA6098	S C-7-40 911007 HA6101	S C-3-5 911005 HA6102	S C-3-15 911005 HA6103	S C-3-40 911005 HA6104
Nickel	ug/kg	30000	35000	31000	37000	30000	41000	40000	32000
Selenium	ug/kg	270	240	220	140	280	180	260	< 550
Silver	ug/kg	480	460	470	430	< 1100	270	390	390
Thallium	ug/kg	660	< 1300	1200	1700	1200	870	1500	890
Tin	ug/kg	31000	31000	28000	25000	28000	28000	28000	27000
Vanadium	ug/kg	24000	27000	18000	19000	21000	25000	24000	17000
Zinc	ug/kg	48000	56000	79000	66000	61000	58000	100000	64000
Field Parameters									
Sample Depth	Feet	25	35	59	35	59	20	28	52
Miscellaneous Parameters									
1,1,1,2-Tetrachloroethane	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
1,2,3-Trichloropropane	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
1,2,4,5-Tetrachlorobenzene	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
1,2-Dibromo-3-chloropropane	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
1,2-Dibromoethane	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
1,4-Dichloro-2-butene	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
1,4-Dioxane	ug/kg	< 400	< 400	< 300	< 400	< 300	< 400	< 300	< 300
1,4-Naphthoquinone	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
1-Naphthylamine	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
2,3,4,6-Tetrachlorophenol	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
2,4,5-Trichlorophenol	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
2,6-Dichlorophenol	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
2-Acetylaminofluorene	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
2-Chloro-1,3-butadiene	ug/kg	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Methylnaphthalene	ug/kg	< 1200	310	< 1000	< 1180	< 1110	270	320	230
2-Naphthylamine	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
2-Picoline	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
2-sec-Butyl-4,6-dinitrophenol	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
3,3'-Dimethylbenzidine	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
3-Methylcholanthrene	ug/kg	< 700	< 700	< 600	< 600	< 600	< 700	< 600	< 600
3-chloropropene	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-Aminobiphenyl	ug/kg	< 1200	< 1000	< 1150	< 1180	< 1110	< 1190	< 1160	< 1090

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

DATE: 10/14/93
PAGE: 11

Chain of Custody Data Required for ETC Data Management Summary Report

See Below — *ETC Sample No.* | WASTE MANAGEMENT, INC. — *Company* | 705 — *Facility* | See Below — *Sample Point* | *Date*

Parameters	Units	Sample Points, Sampling Dates, and ETC Sample No.'s							
		S C-1-5 911006 HA6087	S C-1-15 911006 HA6088	S C-1-40 911006 HA6089	S C-7-15 911006 HA6098	S C-7-40 911007 HA6101	S C-3-5 911005 HA6102	S C-3-15 911005 HA6103	S C-3-40 911005 HA6104
4-Nitroquinoline-N-oxide	ug/kg	IND	IND	IND	IND	IND	IND	IND	IND
5-Nitro-o-toluidine	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
7,12-Dimethylbenzo(a)anthracen	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
Acetone	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acetonitrile	ug/kg	< 18.1	< 19.5	< 17.2	< 20	< 20	< 20	< 20	< 16.3
Acetophenone	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
Aniline	ug/kg	< 1200	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
Aramite	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
Benzyl alcohol	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
Carbon disulfide	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Diallate	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
Dibenzofuran	ug/kg	< 1000	< 1000	< 1000	< 1180	< 1000	< 1000	< 1000	< 1000
Dibromomethane	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Diphenylamine	ug/kg	< 1200	< 1000	< 1150	< 1180	< 1110	< 1000	< 1000	< 1000
Ending Sample Depth	Feet	27	37	61	37	61	24	30	54
Ethyl cyanide	ug/kg	< 48.2	< 50	< 50	< 50	< 44.4	< 50	< 50	< 40
Ethyl methacrylate	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Ethyl methanesulfonate	ug/kg	< 1000	< 1000	< 1000	< 1180	< 1110	< 1190	< 1000	< 1090
Hexachlorophene	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
Hexachloropropene	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
Iodomethane	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Isobutyl alcohol	ug/kg	< 277	< 300	< 264	< 274	< 256	< 300	< 300	< 250
Isodrin	ug/kg	< 700	< 800	< 700	< 700	< 700	< 700	< 700	< 600
Isosafrole	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
Methacrylonitrile	ug/kg	< 133	< 143	< 100	< 100	< 122	< 131	< 100	< 120
Methapyrilene	ug/kg	IND	IND	IND	IND	IND	IND	IND	IND
Methyl ethyl ketone	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methyl methacrylate	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methyl methanesulfonate	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
Methyl-iso-butyl ketone	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
N-Nitrosodi-n-butylamine	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
N-Nitrosodiethylamine	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
N-Nitrosomethylethylamine	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
N-Nitrosomorpholine	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
N-Nitrosopiperidine	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
N-Nitrosopyrrolidine	ug/kg	< 1200	< 1000	< 1150	< 1000	< 1110	< 1000	< 1160	< 1000
Pentachlorobenzene	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		S C-1-5 911006 HA6087	S C-1-15 911006 HA6088	S C-1-40 911006 HA6089	S C-7-15 911006 HA6098	S C-7-40 911007 HA6101	S C-3-5 911005 HA6102	S C-3-15 911005 HA6103	S C-3-40 911005 HA6104
Pentachloroethane	ug/kg	ND	ND	ND	ND	ND	ND	ND	ND
Pentachloronitrobenzene	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
Phenacetin	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
Pronamide	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
Pyridine	ug/kg	< 1200	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
Safrole	ug/kg	< 1000	< 1000	< 1150	< 1000	< 1110	< 1000	< 1000	< 1000
Styrene	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Tetraethyldithiopyrophosphate	ug/kg	ND	ND	ND	ND	ND	ND	ND	ND
Unable to Sample	CODE	-	-	-	-	-	-	-	-
Vinyl acetate	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
m+p-Cresols	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
m-Dinitrobenzene	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
m-Nitroaniline	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
m-Xylene	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
m-phenylenediamine	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
o+p-Xylenes	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
o-Cresol	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
o-Nitroaniline	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
o-Toluidine	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
o-phenylenediamine	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
p-Chloroaniline	ug/kg	< 1000	< 1000	< 1150	< 1180	< 1110	< 1190	< 1000	< 1090
p-Dimethylaminoazobenzene	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
p-Nitroaniline	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
p-phenylenediamine	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
sym-Trinitrobenzene	ug/kg	IND	IND	IND	IND	IND	IND	IND	IND

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below — *ETC Sample No.* | WASTE MANAGEMENT, INC. — *Company* | 705 — *Facility* | See Below — *Sample Point* — *Date*

Parameters	Units	S 911005DUP1S 911005 HA6105	S C-7-5 911006 HA6106	S C-5-5 911009 HA6398	S C-5-15 911009 HA6399	S C-5-40 911009 HA6400	S 911009DUP2S 911009 HA6404	S C-2-40 911003 HA6406	S C-2R-5 911107 HA6662
Priority Poll. Volatiles GC/MS									
Acrolein	ug/kg	< 20	< 24.4	< 20	< 20	< 20.0	< 20	-	< 20
Acrylonitrile	ug/kg	< 10	< 10	< 10	< 10	< 10	< 11.9	-	< 10
Benzene	ug/kg	< 5	< 5	< 5	< 5	< 5	< 5	-	< 5
Bromoform	ug/kg	< 6	< 6	< 6	< 6	< 5	< 6	-	< 6
Carbon tetrachloride	ug/kg	< 3	< 3	< 3	< 3	< 3	< 3	-	< 3
Chlorobenzene	ug/kg	< 7	2.5	< 7	< 7	< 7	< 7	-	< 7
Chlorodibromomethane	ug/kg	< 4	< 4	< 4	< 4	< 3	< 4	-	< 4
Chloroethane	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	-	< 10
Chloroform	ug/kg	< 2	< 2	< 2	< 2	< 2	< 2	-	< 2
Dichlorobromomethane	ug/kg	< 3	< 3	< 3	< 3	< 2	< 3	-	< 3
Dichlorodifluoromethane	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	-	< 10
1,1-Dichloroethane	ug/kg	< 6	< 6	< 6	< 6	< 5	< 6	-	< 6
1,2-Dichloroethane	ug/kg	< 3	< 3	< 3	< 3	< 3	< 3	-	< 3
1,1-Dichloroethylene	ug/kg	< 3	< 3	< 3	< 3	< 3	< 3	-	< 3
1,2-Dichloropropane	ug/kg	< 7	< 7	< 7	< 7	< 7	< 7	-	< 7
cis-1,3-Dichloropropylene	ug/kg	< 6	< 6	< 6	< 6	< 6	< 6	-	< 6
Ethylbenzene	ug/kg	< 9	< 9	< 9	< 8	< 8	< 9	-	< 9
Methyl bromide	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	-	< 10
Methyl chloride	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	-	< 10
Methylene chloride	ug/kg	< 3	< 3	< 3	< 3	< 3	< 3	-	< 3
1,1,2,2-Tetrachloroethane	ug/kg	< 8	< 8	< 8	< 8	< 8	< 8	-	< 8
Tetrachloroethylene	ug/kg	< 5	< 5	< 5	< 5	< 5	< 5	-	< 5
Toluene	ug/kg	< 7	< 7	< 7	< 7	< 7	< 7	-	< 7
1,2-Trans-dichloroethylene	ug/kg	< 2	< 2	< 2	< 2	< 2	< 2	-	< 2
1,1,1-Trichloroethane	ug/kg	< 5	< 5	< 5	< 4	< 4	< 5	-	< 5
1,1,2-Trichloroethane	ug/kg	< 6	< 6	< 6	< 6	< 6	< 6	-	< 6
Trichloroethylene	ug/kg	< 2	< 2	< 2	< 2	< 2	< 2	-	< 2
Trichlorofluoromethane	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	-	< 10
Vinyl chloride	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	-	< 10
trans-1,3-Dichloropropylene	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	-	< 10

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		S 911005DUP1 911005 HA6105	S C-7-5 911006 HA6106	S C-5-5 911009 HA6398	S C-5-15 911009 HA6399	S C-5-40 911009 HA6400	S 911009DUP2 911009 HA6404	S C-2-40 911003 HA6406	S C-2R-5 911107 HA6662
Priority Poll. Acids GC/MS									
2-Chlorophenol	ug/kg	< 400	< 400	< 400	< 400	< 400	< 400	-	< 400
2,4-Dichlorophenol	ug/kg	< 300	< 300	< 300	< 300	< 300	< 300	-	< 300
2,4-Dimethylphenol	ug/kg	< 300	< 300	< 300	< 300	< 300	< 300	-	< 300
4,6-Dinitro-o-cresol	ug/kg	< 3000	< 3000	< 3000	< 3000	< 3000	< 3000	-	< 3000
2,4-Dinitrophenol	ug/kg	< 5000	< 5000	< 5000	< 5000	< 5000	< 5000	-	< 5000
2-Nitrophenol	ug/kg	< 400	< 400	< 400	< 400	< 400	< 400	-	< 400
4-Nitrophenol	ug/kg	< 300	< 300	< 300	< 300	< 300	< 300	-	< 300
p-Chloro-m-cresol	ug/kg	< 400	< 400	< 400	< 400	< 400	< 400	-	< 400
Pentachlorophenol	ug/kg	< 400	< 400	< 400	< 400	< 400	< 400	-	< 400
Phenol	ug/kg	< 200	< 200	< 200	< 200	< 200	< 200	-	< 200
2,4,6-Trichlorophenol	ug/kg	< 300	< 300	< 300	< 300	< 300	< 300	-	< 300
Priority Poll. B/Ns GC/MS									
Acenaphthene	ug/kg	< 200	< 200	< 200	< 200	< 211	< 200	-	< 200
Acenaphthylene	ug/kg	< 400	< 400	< 400	< 400	< 400	< 400	-	< 400
Anthracene	ug/kg	< 226	< 232	< 226	< 224	< 211	< 226	-	< 200
Benzo(a)anthracene	ug/kg	< 900	< 1000	< 900	< 900	< 900	< 900	-	< 900
Benzo(a)pyrene	ug/kg	< 300	< 300	< 300	< 300	< 300	< 300	-	< 300
Benzo(b)fluoranthene	ug/kg	< 600	< 600	< 600	< 600	< 500	< 600	-	< 600
Benzo(ghi)perylene	ug/kg	< 500	< 500	< 500	< 500	< 500	< 500	-	< 500
Benzo(k)fluoranthene	ug/kg	< 300	< 300	< 300	< 300	< 300	< 300	-	< 300
bis(2-Chloroethoxy)methane	ug/kg	< 600	< 600	< 600	< 600	< 600	< 600	-	< 600
bis(2-Chloroethyl) ether	ug/kg	< 700	< 700	< 700	< 700	< 600	< 700	-	< 700
bis(2-Chloroisopropyl)ether	ug/kg	< 700	< 700	< 700	< 700	< 600	< 700	-	< 700
bis(2-Ethylhexyl)phthalate	ug/kg	7250	11000	6640	4120	4450	4480	-	420
4-Bromophenyl phenyl ether	ug/kg	< 200	< 200	< 200	< 200	< 200	< 200	-	< 200
Butyl benzyl phthalate	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	-	< 1000
2-Chloronaphthalene	ug/kg	< 200	< 200	< 200	< 200	< 211	< 200	-	< 200
4-Chlorophenyl phenyl ether	ug/kg	< 500	< 500	< 500	< 500	< 500	< 500	-	< 500
Chrysene	ug/kg	< 300	< 300	< 300	< 300	< 300	< 300	-	< 300
Dibenzo(a,h)anthracene	ug/kg	< 300	< 300	< 300	< 300	< 300	< 300	-	< 300
1,2-Dichlorobenzene	ug/kg	< 200	< 200	< 200	< 200	< 200	< 200	-	< 200
1,3-Dichlorobenzene	ug/kg	< 200	< 200	< 200	< 200	< 200	< 200	-	< 200

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		S 911005DUP1 911005 HA6105	S C-7-5 911006 HA6106	S C-5-5 911009 HA6398	S C-5-15 911009 HA6399	S C-5-40 911009 HA6400	S 911009DUP2 911009 HA6404	S C-2-40 911003 HA6406	S C-2R-5 911107 HA6662
1,4-Dichlorobenzene	ug/kg	< 500	< 500	< 500	< 500	< 500	< 500	-	< 500
3,3'-Dichlorobenzidine	ug/kg	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	-	< 2000
Diethyl phthalate	ug/kg	< 1000	< 1220	< 1190	< 1000	< 1000	< 1000	-	< 1000
Dimethyl phthalate	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	-	< 1000
Di-n-butyl phthalate	ug/kg	12000	3970	3980	8510	15200	14900	-	4300
2,4-Dinitrotoluene	ug/kg	< 700	< 700	< 700	< 700	< 600	< 700	-	< 700
2,6-Dinitrotoluene	ug/kg	< 200	< 200	< 200	< 200	< 200	< 200	-	< 200
Di-n-octyl phthalate	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	-	< 1000
Fluoranthene	ug/kg	< 300	< 300	< 262	< 300	< 200	< 300	-	< 300
Fluorene	ug/kg	< 226	< 200	< 226	< 200	< 200	< 226	-	< 200
Hexachlorobenzene	ug/kg	< 200	< 200	< 200	< 200	< 200	< 200	-	< 200
Hexachlorobutadiene	ug/kg	< 100	< 100	< 100	< 100	< 100	< 100	-	< 100
Hexachlorocyclopentadiene	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	-	< 1000
Hexachloroethane	ug/kg	< 200	< 200	< 200	< 200	< 200	< 200	-	< 200
Indeno(1,2,3-c,d)pyrene	ug/kg	< 400	< 500	< 400	< 400	< 400	< 400	-	< 400
Isophorone	ug/kg	< 300	< 300	< 300	< 259	< 244	< 300	-	< 300
Naphthalene	ug/kg	< 190	< 195	< 190	< 188	< 178	< 190	-	< 200
Nitrobenzene	ug/kg	< 200	< 232	< 200	< 224	< 211	< 200	-	< 200
N-Nitrosodimethylamine	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	-	< 1000
N-Nitrosodi-n-propylamine	ug/kg	< 1190	< 1220	< 1190	< 1180	< 1110	< 1190	-	< 1000
N-Nitrosodiphenylamine	ug/kg	< 200	< 232	< 200	< 224	< 211	< 200	-	< 200
Phenanthrene	ug/kg	< 643	< 659	< 643	< 635	250	< 643	-	130
Pyrene	ug/kg	< 200	< 200	< 226	< 200	< 200	< 200	-	< 200
1,2,4-Trichlorobenzene	ug/kg	< 200	< 200	< 200	< 200	< 200	< 200	-	< 200
Metals Analysis Data									
Antimony	ug/kg	< 7200	< 7300	< 7200	< 7100	< 6700	< 7200	-	1500
Arsenic	ug/kg	9800	8200	5100	18000	10000	7800	-	5800
Barium	ug/kg	38000	46000	49000	16000	25000	55000	-	46000
Beryllium	ug/kg	750	730	760	610	580	870	-	690
Cadmium	ug/kg	1900	1900	1500	2000	1900	1900	-	2800
Chromium	ug/kg	17000	18000	19000	11000	14000	22000	-	18000
Cobalt	ug/kg	13000	11000	10000	13000	12000	12000	-	11000
Copper	ug/kg	39000	27000	23000	44000	34000	26000	-	23000
Lead	ug/kg	27000	16000	13000	22000	20000	15000	-	14000
Mercury	ug/kg	58	68	100	57	54	48	-	< 97

Footnotes: BMDL = Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below			See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*
	WASTE MANAGEMENT, INC.	705		

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		S 911005DUP1 911005 HA6105	S C-7-5 911006 HA6106	S C-5-5 911009 HA6398	S C-5-15 911009 HA6399	S C-5-40 911009 HA6400	S 911009DUP2 911009 HA6404	S C-2-40 911003 HA6406	S C-2R-5 911107 HA6662
Nickel	ug/kg	35000	31000	27000	34000	31000	31000	-	28000
Selenium	ug/kg	220	< 610	180	380	130	220	-	290
Silver	ug/kg	350	370	290	430	370	280	-	550
Thallium	ug/kg	1000	700	< 1200	1700	940	400	-	570
Tin	ug/kg	30000	30000	29000	32000	27000	30000	-	31000
Vanadium	ug/kg	24000	23000	24000	17000	18000	27000	-	23000
Zinc	ug/kg	60000	56000	48000	64000	80000	63000	-	46000
Field Parameters									
Sample Depth	Feet	20	27	22	30	54	-	-	20
Miscellaneous Parameters									
1,1,1,2-Tetrachloroethane	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	-	< 10
1,2,3-Trichloropropane	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	-	< 10
1,2,4,5-Tetrachlorobenzene	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	-	< 1000
1,2-Dibromo-3-chloropropane	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	-	< 10
1,2-Dibromoethane	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	-	< 10
1,4-Dichloro-2-butene	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	-	< 10
1,4-Dioxane	ug/kg	< 400	< 400	< 300	< 400	< 300	< 400	-	< 400
1,4-Naphthoquinone	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	-	< 1000
1-Naphthylamine	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	-	< 1000
2,3,4,6-Tetrachlorophenol	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	-	< 1000
2,4,5-Trichlorophenol	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	-	< 1000
2,6-Dichlorophenol	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	-	< 1000
2-Acetylaminofluorene	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	-	< 1000
2-Chloro-1,3-butadiene	ug/kg	ND	ND	ND	ND	ND	ND	-	ND
2-Hexanone	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	-	< 10
2-Methylnaphthalene	ug/kg	250	< 1220	< 1190	< 1180	370	< 1190	-	< 1000
2-Naphthylamine	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	-	< 1000
2-Picoline	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	-	< 1000
2-sec-Butyl-4,6-dinitrophenol	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	-	< 1000
3,3'-Dimethylbenzidine	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	-	< 1000
3-Methylcholanthrene	ug/kg	< 700	< 700	< 700	< 600	< 600	< 700	-	< 700
3-chloropropene	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	-	< 10
4-Aminobiphenyl	ug/kg	< 1190	< 1220	< 1190	< 1180	< 1110	< 1190	-	< 1000

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below — *ETC Sample No.* | WASTE MANAGEMENT, INC. — *Company* | 705 — *Facility* | See Below — *Sample Point* | *Date*

Parameters	Units	S 911005DUP 911005 HA6105	S C-7-5 911006 HA6106	S C-5-5 911009 HA6398	S C-5-15 911009 HA6399	S C-5-40 911009 HA6400	S 911009DUP2 911009 HA6404	S C-2-40 911003 HA6406	S C-2R-5 911107 HA6662
4-Nitroquinoline-N-oxide	ug/kg	IND	IND	IND	IND	IND	IND	-	IND
5-Nitro-o-toluidine	ug/kg	< 1000	< 1000	< 1190	< 1000	< 1000	< 1000	-	< 1000
7,12-Dimethylbenzo(a)anthracen	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	-	< 1000
Acetone	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	-	< 10
Acetonitrile	ug/kg	< 20	< 18.3	< 20	< 17.6	< 20	< 20	-	< 20
Acetophenone	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	-	< 1000
Aniline	ug/kg	< 1000	< 1220	< 1000	< 1000	< 1000	< 1000	-	< 1000
Aramite	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	-	< 1000
Benzyl alcohol	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	-	< 1000
Carbon disulfide	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	-	< 10
Diallate	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	-	< 1000
Dibenzofuran	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1110	< 1000	-	< 1000
Dibromomethane	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	-	< 10
Diphenylamine	ug/kg	< 1000	< 1220	< 1000	< 1180	< 1110	< 1000	-	< 1000
Ending Sample Depth	Feet	24	29	24	32	58	-	-	22
Ethyl cyanide	ug/kg	< 50	< 50	< 40.0	< 50	< 40	< 50	-	< 50
Ethyl methacrylate	ug/kg	< 10	< 12.2	< 10	< 10	< 10	< 10	-	< 10
Ethyl methanesulfonate	ug/kg	< 1190	< 1000	< 1000	< 1000	< 1110	< 1000	-	< 1000
Hexachlorophene	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	-	< 1000
Hexachloropropene	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	-	< 1000
Iodomethane	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	-	< 10
Isobutyl alcohol	ug/kg	< 274	< 300	< 200	< 300	< 230	< 300	-	< 277
Isodrin	ug/kg	< 700	< 700	< 700	< 700	< 700	< 700	-	< 700
Isosafrole	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	-	< 1000
Methacrylonitrile	ug/kg	< 100	< 100	< 110	< 129	< 110	< 131	-	< 100
Methapyrilene	ug/kg	IND	IND	IND	IND	IND	IND	-	IND
Methyl ethyl ketone	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	-	< 10
Methyl methacrylate	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	-	< 10
Methyl methanesulfonate	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	-	< 1000
Methyl-iso-butyl ketone	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	-	< 10
N-Nitrosodi-n-butylamine	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	-	< 1000
N-Nitrosodiethylamine	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	-	< 1000
N-Nitrosomethylethylamine	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	-	< 1000
N-Nitrosomorpholine	ug/kg	< 1000	< 1220	< 1000	< 1000	< 1000	< 1000	-	< 1000
N-Nitrosopiperidine	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	-	< 1000
N-Nitrosopyrrolidine	ug/kg	< 1190	< 1220	< 1190	< 1180	< 1110	< 1190	-	< 1000
Pentachlorobenzene	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	-	< 1000

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		S 911005DUP1 911005 HA6105	S C-7-5 911006 HA6106	S C-5-5 911009 HA6398	S C-5-15 911009 HA6399	S C-5-40 911009 HA6400	S 911009DUP2 911009 HA6404	S C-2-40 911003 HA6406	S C-2R-5 911107 HA6662
Pentachloroethane	ug/kg	ND	ND	ND	ND	ND	ND	-	ND
Pentachloronitrobenzene	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	-	< 1000
Phenacetin	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	-	< 1000
Pronamide	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	-	< 1000
Pyridine	ug/kg	< 1000	< 1220	< 1000	< 1000	< 1000	< 1000	-	< 1000
Safrole	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	-	< 1000
Styrene	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	-	< 10
Tetraethyldithiopyrophosphate	ug/kg	ND	ND	ND	ND	ND	ND	-	ND
Unable to Sample	CODE	-	-	-	-	-	-	1	-
Vinyl acetate	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	-	< 10
m+p-Cresols	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	-	< 1000
m-Dinitrobenzene	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	-	< 1000
m-Nitroaniline	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	-	< 1000
m-Xylene	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	-	< 10
m-phenylenediamine	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	-	< 1000
o+p-Xylenes	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	-	< 10
o-Cresol	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	-	< 1000
o-Nitroaniline	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	-	< 1000
o-Toluidine	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	-	< 1000
o-phenylenediamine	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	-	< 1000
p-Chloroaniline	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1110	< 1000	-	< 1000
p-Dimethylaminoazobenzene	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	-	< 1000
p-Nitroaniline	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	-	< 1000
p-phenylenediamine	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	-	< 1000
sym-Trinitrobenzene	ug/kg	IND	IND	IND	IND	IND	IND	-	IND

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		S C-2R-15 911107 HA6663	S C-2R-40 911111 HA6664						
Priority Poll. Volatiles GC/MS									
Acrolein	ug/kg	< 30	< 20						
Acrylonitrile	ug/kg	< 10	< 10						
Benzene	ug/kg	< 6	< 50						
Bromoform	ug/kg	< 6	< 50						
Carbon tetrachloride	ug/kg	< 6	< 30						
Chlorobenzene	ug/kg	< 6	< 70						
Chlorodibromomethane	ug/kg	< 6	< 30						
Chloroethane	ug/kg	< 10	< 100						
Chloroform	ug/kg	< 6	< 20						
Dichlorobromomethane	ug/kg	< 6	< 20						
Dichlorodifluoromethane	ug/kg	< 10	< 100						
1,1-Dichloroethane	ug/kg	< 6	< 50						
1,2-Dichloroethane	ug/kg	< 6	< 30						
1,1-Dichloroethylene	ug/kg	< 6	< 30						
1,2-Dichloropropane	ug/kg	< 6	< 70						
cis-1,3-Dichloropropylene	ug/kg	< 6	< 60						
Ethylbenzene	ug/kg	< 6	< 80						
Methyl bromide	ug/kg	< 10	< 100						
Methyl chloride	ug/kg	< 10	< 100						
Methylene chloride	ug/kg	< 6	84.5						
1,1,2,2-Tetrachloroethane	ug/kg	< 6	< 80						
Tetrachloroethylene	ug/kg	< 6	38						
Toluene	ug/kg	< 6	< 70						
1,2-Trans-dichloroethylene	ug/kg	< 6	< 20						
1,1,1-Trichloroethane	ug/kg	< 6	< 40						
1,1,2-Trichloroethane	ug/kg	< 6	< 60						
Trichloroethylene	ug/kg	< 6	47.9						
Trichlorofluoromethane	ug/kg	< 10	< 100						
Vinyl chloride	ug/kg	< 10	< 100						
trans-1,3-Dichloropropylene	ug/kg	< 6	< 100						

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below				See Below	
ETC Sample No.	WASTE MANAGEMENT, INC. *Company*	705 *Facility*		*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		S C-2R-15 911107 HA6663	S C-2R-40 911111 HA6664						
Priority Poll. Acids GC/MS									
2-Chlorophenol	ug/kg	< 400	< 400						
2,4-Dichlorophenol	ug/kg	< 300	< 300						
2,4-Dimethylphenol	ug/kg	< 300	< 300						
4,6-Dinitro-o-cresol	ug/kg	< 3000	< 3000						
2,4-Dinitrophenol	ug/kg	< 5000	< 5000						
2-Nitrophenol	ug/kg	< 500	< 400						
4-Nitrophenol	ug/kg	< 300	< 300						
p-Chloro-m-cresol	ug/kg	< 400	< 300						
Pentachlorophenol	ug/kg	< 500	< 400						
Phenol	ug/kg	< 200	< 200						
2,4,6-Trichlorophenol	ug/kg	< 300	< 300						
Priority Poll. B/Ns GC/MS									
Acenaphthene	ug/kg	< 200	< 213						
Acenaphthylene	ug/kg	< 400	< 400						
Anthracene	ug/kg	< 200	< 213						
Benzo(a)anthracene	ug/kg	< 1000	< 900						
Benzo(a)pyrene	ug/kg	< 300	< 300						
Benzo(b)fluoranthene	ug/kg	< 600	< 500						
Benzo(ghi)perylene	ug/kg	< 500	< 500						
Benzo(k)fluoranthene	ug/kg	< 300	< 300						
bis(2-Chloroethoxy)methane	ug/kg	< 700	< 600						
bis(2-Chloroethyl) ether	ug/kg	< 700	< 600						
bis(2-Chloroisopropyl)ether	ug/kg	< 700	< 600						
bis(2-Ethylhexyl)phthalate	ug/kg	470	300						
4-Bromophenyl phenyl ether	ug/kg	< 200	< 200						
Butyl benzyl phthalate	ug/kg	< 1000	< 1000						
2-Chloronaphthalene	ug/kg	< 200	< 200						
4-Chlorophenyl phenyl ether	ug/kg	< 500	< 500						
Chrysene	ug/kg	< 300	< 300						
Dibenzo(a,h)anthracene	ug/kg	< 300	< 300						
1,2-Dichlorobenzene	ug/kg	< 200	< 200						
1,3-Dichlorobenzene	ug/kg	< 200	< 200						

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*						
		S C-2R-15 911107 HA6663	S C-2R-40 911111 HA6664					
1,4-Dichlorobenzene	ug/kg	< 600	< 500					
3,3'-Dichlorobenzidine	ug/kg	< 2000	< 2000					
Diethyl phthalate	ug/kg	< 1000	< 1000					
Dimethyl phthalate	ug/kg	< 1000	< 1000					
Di-n-butyl phthalate	ug/kg	2670	5810					
2,4-Dinitrotoluene	ug/kg	< 700	< 600					
2,6-Dinitrotoluene	ug/kg	< 200	< 200					
Di-n-octyl phthalate	ug/kg	< 1000	< 1000					
Fluoranthene	ug/kg	< 300	< 200					
Fluorene	ug/kg	< 200	< 213					
Hexachlorobenzene	ug/kg	< 200	< 200					
Hexachlorobutadiene	ug/kg	< 100	< 100					
Hexachlorocyclopentadiene	ug/kg	< 1000	< 1000					
Hexachloroethane	ug/kg	< 200	< 200					
Indeno(1,2,3-c,d)pyrene	ug/kg	< 500	< 400					
Isophorone	ug/kg	< 300	< 247					
Naphthalene	ug/kg	< 200	< 180					
Nitrobenzene	ug/kg	< 200	< 213					
N-Nitrosodimethylamine	ug/kg	< 1000	< 1000					
N-Nitrosodi-n-propylamine	ug/kg	< 1000	< 1120					
N-Nitrosodiphenylamine	ug/kg	< 200	< 200					
Phenanthrene	ug/kg	210	230					
Pyrene	ug/kg	< 200	< 200					
1,2,4-Trichlorobenzene	ug/kg	< 200	< 200					
Metals Analysis Data								
Antimony	ug/kg	< 7600	< 6800					
Arsenic	ug/kg	13000	11000					
Barium	ug/kg	14000	15000					
Beryllium	ug/kg	350	460					
Cadmium	ug/kg	2900	7100					
Chromium	ug/kg	7700	10000					
Cobalt	ug/kg	11000	16000					
Copper	ug/kg	37000	36000					
Lead	ug/kg	21000	49000					
Mercury	ug/kg	< 100	54					

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below				See Below	
ETC Sample No.	WASTE MANAGEMENT, INC.		705	*Sample Point*	*Date*
	Company		*Facility*		

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*						
		S C-2R-15 911107 HA6663	S C-2R-40 911111 HA6664					
Nickel	ug/kg	23000	41000					
Selenium	ug/kg	< 3200	< 2800					
Silver	ug/kg	640	730					
Thallium	ug/kg	980	750					
Tin	ug/kg	26000	35000					
Vanadium	ug/kg	12000	17000					
Zinc	ug/kg	53000	53000					
Field Parameters								
Sample Depth	Feet	30	54					
Miscellaneous Parameters								
1,1,1,2-Tetrachloroethane	ug/kg	< 10	< 100					
1,2,3-Trichloropropane	ug/kg	< 10	< 100					
1,2,4,5-Tetrachlorobenzene	ug/kg	< 1000	< 1000					
1,2-Dibromo-3-chloropropane	ug/kg	-	< 100					
1,2-Dibromoethane	ug/kg	< 10	< 100					
1,4-Dichloro-2-butene	ug/kg	-	< 100					
1,4-Dioxane	ug/kg	< 400	< 300					
1,4-Naphthoquinone	ug/kg	< 1000	< 1000					
1-Naphthylamine	ug/kg	< 1000	< 1120					
2,3,4,6-Tetrachlorophenol	ug/kg	< 1000	< 1000					
2,4,5-Trichlorophenol	ug/kg	< 1000	< 1000					
2,6-Dichlorophenol	ug/kg	< 1000	< 1000					
2-Acetylaminofluorene	ug/kg	< 1000	< 1000					
2-Chloro-1,3-butadiene	ug/kg	-	ND					
2-Hexanone	ug/kg	< 10	< 100					
2-Methylnaphthalene	ug/kg	< 1000	130					
2-Naphthylamine	ug/kg	< 1000	< 1120					
2-Picoline	ug/kg	< 1000	< 1000					
2-sec-Butyl-4,6-dinitrophenol	ug/kg	< 1000	< 1000					
3,3'-Dimethylbenzidine	ug/kg	< 1000	< 1000					
3-Methylcholanthrene	ug/kg	< 700	< 600					
3-chloropropene	ug/kg	< 10	< 100					
4-Aminobiphenyl	ug/kg	< 1000	< 1120					

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below				See Below	
ETC Sample No.	WASTE MANAGEMENT, INC.	*Company*	705 *Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		S C-2R-15 911107 HA6663	S C-2R-40 911111 HA6664						
4-Nitroquinoline-N-oxide	ug/kg	IND	IND						
5-Nitro-o-toluidine	ug/kg	< 1000	< 1000						
7,12-Dimethylbenzo(a)anthracen	ug/kg	< 1000	< 1000						
Acetone	ug/kg	461	< 100						
Acetonitrile	ug/kg	3040	< 16.9						
Acetophenone	ug/kg	< 1000	< 1000						
Aniline	ug/kg	< 1000	< 1000						
Aramite	ug/kg	< 1000	< 1000						
Benzyl alcohol	ug/kg	< 1000	< 1120						
Carbon disulfide	ug/kg	< 6	< 100						
Diallate	ug/kg	< 1000	< 1000						
Dibenzofuran	ug/kg	< 1000	< 1000						
Dibromomethane	ug/kg	-	< 100						
Diphenylamine	ug/kg	< 1000	< 1000						
Ending Sample Depth	Feet	32	56						
Ethyl cyanide	ug/kg	< 50	< 40						
Ethyl methacrylate	ug/kg	-	< 100						
Ethyl methanesulfonate	ug/kg	< 1000	< 1000						
Hexachlorophene	ug/kg	< 1000	< 1000						
Hexachloropropene	ug/kg	< 1000	< 1000						
Iodomethane	ug/kg	-	< 100						
Isobutyl alcohol	ug/kg	< 291	< 258						
Isodrin	ug/kg	< 700	< 700						
Isosafrole	ug/kg	< 1000	< 1000						
Methacrylonitrile	ug/kg	< 100	< 100						
Methapyrilene	ug/kg	IND	IND						
Methyl ethyl ketone	ug/kg	< 10	< 100						
Methyl methacrylate	ug/kg	-	< 100						
Methyl methanesulfonate	ug/kg	< 1000	< 1000						
Methyl-iso-butyl ketone	ug/kg	< 10	< 100						
N-Nitrosodi-n-butylamine	ug/kg	< 1000	< 1000						
N-Nitrosodiethylamine	ug/kg	< 1000	< 1000						
N-Nitrosomethylethylamine	ug/kg	< 1000	< 1000						
N-Nitrosomorpholine	ug/kg	< 1000	< 1000						
N-Nitrosopiperidine	ug/kg	< 1000	< 1000						
N-Nitrosopyrrolidine	ug/kg	< 1000	< 1000						
Pentachlorobenzene	ug/kg	< 1000	< 1000						

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below				See Below	
ETC Sample No.		*Company*	*Facility*	*Sample Point*	*Date*
		WASTE MANAGEMENT, INC.	705		

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		S C-2R-15 911107 HA6663	S C-2R-40 911111 HA6664						
Pentachloroethane	ug/kg	-	ND						
Pentachloronitrobenzene	ug/kg	< 1000	< 1000						
Phenacetin	ug/kg	< 1000	< 1000						
Pronamide	ug/kg	< 1000	< 1000						
Pyridine	ug/kg	< 1000	< 1000						
Safrole	ug/kg	< 1000	< 1000						
Styrene	ug/kg	< 6	< 100						
Tetraethyldithiopyrophosphate	ug/kg	ND	ND						
Unable to Sample	CODE	-	-						
Vinyl acetate	ug/kg	< 10	< 100						
m+p-Cresols	ug/kg	< 1000	< 1000						
m-Dinitrobenzene	ug/kg	< 1000	< 1000						
m-Nitroaniline	ug/kg	< 1000	< 1000						
m-Xylene	ug/kg	< 6	< 100						
m-phenylenediamine	ug/kg	< 1000	< 1000						
o+p-Xylenes	ug/kg	< 6	< 100						
o-Cresol	ug/kg	< 1000	< 1000						
o-Nitroaniline	ug/kg	< 1000	< 1000						
o-Toluidine	ug/kg	< 1000	< 1000						
o-phenylenediamine	ug/kg	< 1000	< 1000						
p-Chloroaniline	ug/kg	< 1000	< 1000						
p-Dimethylaminoazobenzene	ug/kg	< 1000	< 1000						
p-Nitroaniline	ug/kg	< 1000	< 1000						
p-phenylenediamine	ug/kg	< 1000	< 1000						
sym-Trinitrobenzene	ug/kg	IND	IND						

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

PHASE I

SEDIMENT SAMPLE RESULTS

- APPENDIX K -

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	Units	B S27 891011 HA1540	B S26 891011 HA1541	B S8 891011 HA1543	B S5 891012 HA1532	B S4 891012 HA1533	B S17 891012 HA1534	B S17DUP 891012 HA1535	B S25 891011 HA1550
		Sample Points, Sampling Dates, and ETC Sample No.'s							
Priority Poll. Volatiles GC/MS									
Acrolein	ug/kg	-	-	-	-	-	-	-	-
Acrylonitrile	ug/kg	-	-	-	-	-	-	-	-
Benzene	ug/kg	< 4	1.6	2.9	< 4	< 4	1.5	1.6	1.4
bis(Chloromethyl)ether	ug/kg	-	-	-	-	-	-	-	-
Bromoform	ug/kg	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Carbon tetrachloride	ug/kg	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Chlorobenzene	ug/kg	< 6	< 6	< 6	< 6	< 6	< 6.00	< 6	< 6
Chlorodibromomethane	ug/kg	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Chloroethane	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Chloroethylvinyl ether	ug/kg	-	-	-	-	-	-	-	-
Chloroform	ug/kg	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Dichlorobromomethane	ug/kg	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Dichlorodifluoromethane	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
1,1-Dichloroethane	ug/kg	< 5	< 5	< 5	< 5	< 4.70	< 5	< 5	< 5
1,2-Dichloroethane	ug/kg	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
1,1-Dichloroethylene	ug/kg	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
1,2-Dichloropropane	ug/kg	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
cis-1,3-Dichloropropylene	ug/kg	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Ethylbenzene	ug/kg	< 7	< 7	< 7	< 7	< 7	< 7	< 7	< 7
Methyl bromide	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methyl chloride	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methylene chloride	ug/kg	13.4	15.3	13.1	18.8	35.4	22.1	15.4	20.6
1,1,2,2-Tetrachloroethane	ug/kg	< 7	< 7	< 7	< 7	< 7	< 7	< 7	< 6.90
Tetrachloroethylene	ug/kg	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
Toluene	ug/kg	< 6.00	< 6	1.2	< 6.00	< 6.00	1.4	< 6	< 6.00
1,2-Trans-dichloroethylene	ug/kg	2.45	< 1.60	3.13	2.39	3.21	1.81	2.25	< 1.60
1,1,1-Trichloroethane	ug/kg	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
1,1,2-Trichloroethane	ug/kg	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.00
Trichloroethylene	ug/kg	< 2	< 2	< 2	< 1.90	1.91	< 2	< 2	< 2
Trichlorofluoromethane	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Vinyl chloride	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
trans-1,3-Dichloropropylene	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		B S27 891011 HA1540	B S26 891011 HA1541	B S8 891011 HA1543	B S5 891012 HA1532	B S4 891012 HA1533	B ST7 891012 HA1534	B ST7DUP 891012 HA1535	B S25 891011 HA1550
Priority Poll. Acids GC/MS									
2-Chlorophenol	ug/kg	< 8000	< 600	< 700	< 500	< 400	< 600	< 600	< 600
2,4-Dichlorophenol	ug/kg	< 6000	< 500	< 600	< 400	< 400	< 500	< 500	< 500
2,4-Dimethylphenol	ug/kg	< 6000	< 500	< 600	< 400	< 400	< 500	< 500	< 500
4,6-Dinitro-o-cresol	ug/kg	<60000	< 5000	< 5000	< 4000	< 3000	< 5000	< 5000	< 4000
2,4-Dinitrophenol	ug/kg	< 100000	< 8000	< 9000	< 7000	< 5000	< 8000	< 8000	< 7690
2-Nitrophenol	ug/kg	< 8000	< 700	< 800	< 600	< 500	< 700	< 700	< 700
4-Nitrophenol	ug/kg	< 6000	< 500	< 500	< 400	< 300	< 500	< 457	< 400
p-Chloro-m-cresol	ug/kg	< 7000	< 586	< 633	< 500	< 392	< 600	< 571	< 549
Pentachlorophenol	ug/kg	< 8000	< 700	< 800	< 600	< 500	< 700	< 700	< 700
Phenol	ug/kg	< 4000	< 300	< 300	840	< 200	< 300	< 300	< 300
2,4,6-Trichlorophenol	ug/kg	< 6000	< 500	< 600	< 400	< 400	< 500	< 500	< 500
Priority Poll. B/Ns GC/MS									
Acenaphthene	ug/kg	< 4000	< 371	< 400	< 300	< 200	< 400	320	< 348
Acenaphthylene	ug/kg	< 8000	< 700	< 700	< 600	< 500	< 700	< 700	< 600
Anthracene	ug/kg	< 4000	< 371	< 401	140	< 248	< 400	< 362	190
Benzidine	ug/kg	-	-	-	< 7000	-	-	-	-
Benzo(a)anthracene	ug/kg	<20000	700	530	340	< 1020	< 2000	360	730
Benzo(a)pyrene	ug/kg	< 6000	758	622	< 408	< 300	< 500	400	833
Benzo(b)fluoranthene	ug/kg	<10000	840	550	270	< 600	< 900	500	879
Benzo(ghi)perylene	ug/kg	<10000	640	380	< 700	< 500	< 800	< 781	650
Benzo(k)fluoranthene	ug/kg	< 6000	586	490	< 408	< 300	< 500	260	586
bis(2-Chloroethoxy)methane	ug/kg	<10000	< 1000	< 1000	< 900	< 700	< 1000	< 1000	< 1000
bis(2-Chloroethyl) ether	ug/kg	<10000	< 1000	< 1000	< 900	< 700	< 1000	< 1000	< 1000
bis(2-Chloroisopropyl)ether	ug/kg	<10000	< 1000	< 1000	< 900	< 700	< 1000	< 1000	< 1000
bis(2-Ethylhexyl)phthalate	ug/kg	<23400	< 1950	< 2110	260	< 1310	8160	12800	< 1830
4-Bromophenyl phenyl ether	ug/kg	< 4000	< 400	< 400	< 300	< 200	< 400	< 400	< 300
Butyl benzyl phthalate	ug/kg	<20000	< 1950	< 2000	< 2000	< 1000	< 2000	< 2000	< 2000
2-Chloronaphthalene	ug/kg	< 4000	< 400	< 400	< 300	< 200	< 400	< 400	< 300
4-Chlorophenyl phenyl ether	ug/kg	<10000	< 800	< 900	< 700	< 500	< 800	< 800	< 800
Chrysene	ug/kg	< 6000	875	557	424	230	< 500	505	846
Dibenzo(a,h)anthracene	ug/kg	<20000	< 1950	< 2000	< 2000	< 1000	< 2000	< 1900	< 2000
1,2-Dichlorobenzene	ug/kg	< 4000	< 400	< 400	< 300	< 200	< 400	< 400	< 300

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below — *ETC Sample No.* | WASTE MANAGEMENT, INC. — *Company* | 705 — *Facility* | See Below — *Sample Point* | *Date*

Parameters	Units	Sample Points, Sampling Dates, and ETC Sample No.'s							
		B S27 891011 HA1540	B S26 891011 HA1541	B S8 891011 HA1543	B S5 891012 HA1532	B S4 891012 HA1533	B S17 891012 HA1534	B S17DUP 891012 HA1535	B S25 891011 HA1550
1,3-Dichlorobenzene	ug/kg	< 4000	< 400	< 400	< 300	< 200	< 400	< 400	< 300
1,4-Dichlorobenzene	ug/kg	<10000	< 900	< 900	< 700	< 600	< 900	< 800	< 800
3,3'-Dichlorobenzidine	ug/kg	<40000	< 3000	< 3000	< 3000	< 2000	< 3000	< 3000	< 3000
Diethyl phthalate	ug/kg	<20000	< 2000	< 2000	250	< 1000	< 2000	< 2000	< 2000
Dimethyl phthalate	ug/kg	<20000	< 2000	< 2000	< 2000	< 1000	< 2000	< 2000	< 2000
Di-n-butyl phthalate	ug/kg	<23400	< 1950	< 2110	< 1630	600	< 2000	< 1900	< 1830
2,4-Dinitrotoluene	ug/kg	<10000	< 1000	< 1000	< 900	< 700	< 1000	< 1000	< 1000
2,6-Dinitrotoluene	ug/kg	< 4000	< 400	< 400	< 300	< 200	< 400	< 400	< 300
Di-n-octyl phthalate	ug/kg	<20000	< 1950	< 2110	< 2000	< 1000	< 2000	< 2000	< 2000
1,2-Diphenylhydrazine	ug/kg	-	-	-	< 2000	-	-	-	-
Fluoranthene	ug/kg	< 5150	1590	973	847	355	859	611	1230
Fluorene	ug/kg	< 4000	< 371	< 401	< 300	< 248	< 400	270	180
Hexachlorobenzene	ug/kg	< 4000	< 400	< 400	< 300	< 200	< 400	< 400	< 300
Hexachlorobutadiene	ug/kg	< 2000	< 200	< 200	< 100	< 100	< 200	< 200	< 200
Hexachlorocyclopentadiene	ug/kg	<20000	< 2000	< 2000	< 2000	< 1000	< 2000	< 2000	< 2000
Hexachloroethane	ug/kg	< 4000	< 300	< 300	< 300	< 200	< 300	< 300	< 300
Indeno(1,2,3-c,d)pyrene	ug/kg	<10000	240	< 992	< 800	< 600	< 900	< 895	230
Isophorone	ug/kg	< 5000	< 400	< 500	< 400	< 300	< 400	< 400	< 400
Naphthalene	ug/kg	< 4000	< 313	< 338	< 261	< 209	< 300	< 305	< 293
Nitrobenzene	ug/kg	< 4000	< 400	< 400	< 310	< 200	< 400	< 400	< 300
N-Nitrosodimethylamine	ug/kg	<20000	< 2000	< 2000	< 2000	< 1000	< 2000	< 2000	< 2000
N-Nitrosodi-n-propylamine	ug/kg	<20000	< 1950	< 2110	< 1630	< 1310	< 2000	< 1900	< 1830
N-Nitrosodiphenylamine	ug/kg	< 4000	< 400	< 400	< 300	< 200	< 400	< 400	< 300
Phenanthrene	ug/kg	<10000	750	520	530	210	590	580	820
Pyrene	ug/kg	< 4450	1430	844	835	330	750	528	1110
1,2,4-Trichlorobenzene	ug/kg	< 4000	< 400	< 400	< 300	< 200	< 400	< 400	< 300
Priority Poll. Pest/PCBs GC/MS									
Aldrin	ug/kg	< 10	< 10	< 10	< 6	< 6	< 9	< 10	< 9
Alpha-BHC	ug/kg	< 10	< 10	< 10	< 6	< 6	< 9	< 10	< 9
Beta-BHC	ug/kg	< 10	< 10	< 10	< 6	< 6	< 9	< 10	< 9
Gamma-BHC	ug/kg	< 10	< 10	< 10	< 6	< 6	< 9	< 10	< 9
Delta-BHC	ug/kg	< 10	< 10	< 10	< 6	< 6	< 9	< 10	< 9
Chlordane	ug/kg	< 200	< 200	< 200	< 100	< 100	< 200	< 200	< 200
4,4'-DDT	ug/kg	< 20	< 20	< 20	< 10	< 10	< 20	< 20	< 20
4,4'-DDE	ug/kg	< 20	< 20	< 20	< 10	< 10	< 20	< 20	< 20

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

DATE: 10/14/93
PAGE: 4

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		B S27 891011 HA1540	B S26 891011 HA1541	B S8 891011 HA1543	B S5 891012 HA1532	B S4 891012 HA1533	B S17 891012 HA1534	B S17DUP 891012 HA1535	B S25 891011 HA1550
4,4'-DDD	ug/kg	< 20	< 20	< 20	< 10	< 10	< 20	< 20	< 20
Dieldrin	ug/kg	< 20	< 20	< 20	< 10	< 10	< 20	< 20	< 20
Endosulfan I	ug/kg	< 10	< 10	< 10	< 6	< 6	< 9	< 10	< 9
Endosulfan II	ug/kg	< 20	< 20	< 20	< 10	< 10	< 20	< 20	< 20
Endosulfan sulfate	ug/kg	< 20	< 20	< 20	< 10	< 10	< 20	< 20	< 20
Endrin	ug/kg	< 20	< 20	< 20	< 10	< 10	< 20	< 20	< 20
Endrin aldehyde	ug/kg	< 20	< 20	< 20	< 10	< 10	< 20	< 20	< 20
Heptachlor	ug/kg	< 10	< 10	< 10	< 6	< 6	< 9	< 10	< 9
Heptachlor epoxide	ug/kg	< 10	< 10	< 10	< 6	< 6	< 9	< 10	< 9
Toxaphene	ug/kg	< 500	< 400	< 400	< 300	< 300	< 400	< 400	< 400
Groundwater Conventionals									
Chloride	mg/kg	82.0	87.0	131	24.0	34.0	78.0	83.0	53.9
Sulfate as SO4	mg/kg	153	124	204	< 67.0	< 78.0	< 100.0	< 94.0	112
Phenolics, Total	mg/kg	< 1.3	< 1.3	< 1.3	.79	.46	< 1.2	< 1.1	< 1.1
Cyanide, Total	mg/kg	< 1.21	< 1.08	< .99	< .62	< .68	< .90	< 1.01	< .93
pH	std	7.80	8.18	8.16	8.01	8.42	7.93	8.00	8.20
pH	std	7.79	8.16	8.19	-	-	7.95	-	8.19
Metals Analysis Data									
Antimony	ug/kg	13000	7100	9800	4600	24000	22000	20000	6900
Arsenic	ug/kg	18000	21000	20000	22000	30000	20000	25000	18000
Beryllium	ug/kg	990	640	680	230	290	500	410	550
Cadmium	ug/kg	3700	2500	2800	1400	91	450	400	2500
Calcium	ug/kg	62400000	70600000	76300000	27900000	47400000	66400000	64500000	65600000
Chromium	ug/kg	51000	30000	28000	8800	13000	29000	25000	25000
Copper	ug/kg	74000	49000	57000	17000	25000	53000	48000	44000
Lead	ug/kg	160000	100000	110000	29000	50000	94000	77000	88000
Magnesium	ug/kg	24800000	31100000	36200000	13900000	22500000	31500000	29800000	30600000
Mercury	ug/kg	180	170	180	65	87	170	170	150
Nickel	ug/kg	43000	28000	31000	11000	23000	36000	30000	25000
Potassium	ug/kg	2200000	1300000	1300000	640000	940000	1700000	1300000	1000000
Selenium	ug/kg	220	240	< 1000	130	290	270	270	< 840
Silver	ug/kg	3100	2200	2600	1100	< 1400	< 1800	< 1800	2300
Sodium	ug/kg	190000	130000	110000	37000	78000	120000	98000	120000

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below — *ETC Sample No.* | WASTE MANAGEMENT, INC. — *Company* | 705 — *Facility* | See Below — *Sample Point* — *Date*

Parameters	Units	Sample Points, Sampling Dates, and ETC Sample No.'s							
		B S27 891011 HA1540	B S26 891011 HA1541	B S8 891011 HA1543	B S5 891012 HA1532	B S4 891012 HA1533	B S17 891012 HA1534	B S17DUP 891012 HA1535	B S25 891011 HA1550
Thallium	ug/kg	1000	1300	950	600	720	< 1800	580	900
Zinc	ug/kg	410000	280000	290000	160000	220000	290000	240000	260000
Aroclors by GC									
Aroclor 1242	ug/kg	< 100	< 100	< 100	< 60	< 60	< 90	< 100	< 90
Aroclor 1254	ug/kg	< 200	< 200	< 200	< 100	< 100	< 200	< 200	< 200
Aroclor 1260	ug/kg	< 200	< 200	< 200	< 100	< 100	< 200	< 200	< 200
Aroclor 1248	ug/kg	< 100	< 100	< 100	< 60	< 60	< 90	< 100	< 90
Aroclor 1232	ug/kg	< 100	< 100	< 100	< 60	< 60	< 90	< 100	< 90
Aroclor 1221	ug/kg	< 100	< 100	< 100	< 60	< 60	< 90	< 100	< 90
Aroclor 1016	ug/kg	< 100	< 100	< 100	< 60	< 60	< 90	< 100	< 90
Miscellaneous Parameters									
Ammonia as N	mg/kg	201	132	182	64.0	69.0	119.0	97.0	172
Chemical Oxygen Demand (COD)	mg/kg	68000	64000	88000	35500.0	58000.0	91800.0	80000.0	64000
Nitrate+Nitrite	mg/kg	3.9	2.5	2.6	2.3	< .78	6.1	3.0	2.0

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	Units	B S1 891012 HA1551	B S1B 891012 HA1554	B S1BDUP 891012 HA1555	B S2 891012 HA1536	B S2DUP 891012 HA1537	B S3 891012 HA1538	B S3DUP 891012 HA1539	B S7 891012 HA1563
		Sample Points, Sampling Dates, and ETC Sample No.'s							
Priority Poll. Volatiles GC/MS									
Acrolein	ug/kg	-	-	-	-	-	-	-	-
Acrylonitrile	ug/kg	-	-	-	-	-	-	-	-
Benzene	ug/kg	4.2	1.8	1.9	< 4	< 4	< 22.0	< 4.40	< 8.80
bis(Chloromethyl)ether	ug/kg	-	-	-	-	-	-	-	-
Bromoform	ug/kg	< 5	< 5	< 5	< 5	< 5	< 20	< 4.70	< 9
Carbon tetrachloride	ug/kg	< 3	< 3	< 3	< 3	< 3	< 10	< 3	< 6
Chlorobenzene	ug/kg	< 6	< 6	< 6	< 6	< 6	< 30	< 6.00	< 10
Chlorodibromomethane	ug/kg	< 3	< 3	< 3	< 3	< 3	< 20	< 3	< 6
Chloroethane	ug/kg	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 20
2-Chloroethylvinyl ether	ug/kg	-	-	-	-	-	-	-	-
Chloroform	ug/kg	< 2	< 2	< 2	< 2	< 2	< 8	< 2	< 3
Dichlorobromomethane	ug/kg	< 2	< 2	< 2	< 2	< 2	< 10	< 2	< 4
Dichlorodifluoromethane	ug/kg	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 20
1,1-Dichloroethane	ug/kg	< 5	< 5	< 5	< 5	< 5	< 20	< 5	< 9
1,2-Dichloroethane	ug/kg	< 3	< 3	< 3	< 3	< 3	< 10	< 3	< 6
1,1-Dichloroethylene	ug/kg	< 3	< 3	< 3	< 3	< 3	< 10	< 3	< 6
1,2-Dichloropropane	ug/kg	< 6	< 6	< 6	< 6	< 6	< 30	< 6	< 10
cis-1,3-Dichloropropylene	ug/kg	< 5	< 5	< 5	< 5	< 5	< 30	< 5	< 10
Ethylbenzene	ug/kg	< 7	< 7	< 7	< 7	< 7	< 40	< 7	< 10
Methyl bromide	ug/kg	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 20
Methyl chloride	ug/kg	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 20
Methylene chloride	ug/kg	10.9	11.0	12.3	9.41	10.4	432	14.1	214
1,1,2,2-Tetrachloroethane	ug/kg	< 7	< 6.90	< 7	< 7	< 7	< 30	< 6.90	< 10
Tetrachloroethylene	ug/kg	< 4	< 4	< 4	< 4	< 4	< 20	< 4	< 8
Toluene	ug/kg	< 6	< 6	< 6.00	< 6	< 6	< 30.0	< 6.00	< 10
1,2-Trans-dichloroethylene	ug/kg	< 1.60	< 1.60	1.82	< 2	< 2	< 8	< 2	< 3
1,1,1-Trichloroethane	ug/kg	< 4	< 4	< 4	< 4	< 4	< 20	< 4	< 8
1,1,2-Trichloroethane	ug/kg	< 5	< 5	< 5.00	< 5	< 5	< 30	< 5	< 10
Trichloroethylene	ug/kg	< 2	< 2	< 2	< 2	< 2	< 10	< 2	< 4
Trichlorofluoromethane	ug/kg	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 20
Vinyl chloride	ug/kg	< 10	5.5	< 10.0	< 10	< 10	< 50	< 10	< 20
trans-1,3-Dichloropropylene	ug/kg	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 20

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		B S1 891012 HA1551	B S1B 891012 HA1554	B S1BDUP 891012 HA1555	B S2 891012 HA1536	B S2DUP 891012 HA1537	B S3 891012 HA1538	B S3DUP 891012 HA1539	B S7 891012 HA1563
Priority Poll. Acids GC/MS									
2-Chlorophenol	ug/kg	< 700	< 700	< 700	< 600	< 600	< 600	< 600	< 500
2,4-Dichlorophenol	ug/kg	< 600	< 600	< 500	< 500	< 500	< 500	< 500	< 400
2,4-Dimethylphenol	ug/kg	< 600	< 600	< 500	< 500	< 500	< 500	< 500	< 400
4,6-Dinitro-o-cresol	ug/kg	< 5000	< 5000	< 5000	< 5000	< 5000	< 4000	< 5000	< 4000
2,4-Dinitrophenol	ug/kg	< 9000	< 9000	< 8000	< 8000	< 8000	< 8000	< 8000	< 6000
2-Nitrophenol	ug/kg	< 800	< 700	< 700	< 700	< 700	< 700	< 700	< 500
4-Nitrophenol	ug/kg	< 500	< 500	< 500	< 500	< 500	< 400	< 500	< 400
p-Chloro-m-cresol	ug/kg	< 600	< 600	< 600	< 600	< 600	< 600	< 600	< 400
Pentachlorophenol	ug/kg	< 800	< 700	< 700	< 700	< 700	< 700	< 700	< 500
Phenol	ug/kg	881	1060	1180	1160	1060	1070	1210	792
2,4,6-Trichlorophenol	ug/kg	< 600	< 600	< 500	< 500	< 500	< 500	< 500	< 400
Priority Poll. B/Ns GC/MS									
Acenaphthene	ug/kg	290	180	180	160	170	< 400	< 400	150
Acenaphthylene	ug/kg	< 700	< 700	< 700	< 700	< 700	< 600	< 700	< 500
Anthracene	ug/kg	< 400	250	250	270	210	240	230	349
Benzidine	ug/kg	-	-	-	-	-	-	-	-
Benzo(a)anthracene	ug/kg	690	670	660	550	550	600	540	590
Benzo(a)pyrene	ug/kg	526	594	550	589	< 500	< 500	698	539
Benzo(b)fluoranthene	ug/kg	460	480	550	480	< 900	< 900	< 900	< 700
Benzo(ghi)perylene	ug/kg	< 900	770	660	640	< 800	< 800	< 800	< 600
Benzo(k)fluoranthene	ug/kg	400	490	340	380	< 500	< 500	< 500	< 400
bis(2-Chloroethoxy)methane	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 800
bis(2-Chloroethyl) ether	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 800
bis(2-Chloroisopropyl)ether	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 800
bis(2-Ethylhexyl)phthalate	ug/kg	1000	900	740	870	810	1100	820	320
4-Bromophenyl phenyl ether	ug/kg	< 400	< 400	< 400	< 400	< 400	< 400	< 400	< 300
Butyl benzyl phthalate	ug/kg	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	< 1000
2-Chloronaphthalene	ug/kg	< 400	< 400	< 400	< 400	< 400	< 400	< 400	< 300
4-Chlorophenyl phenyl ether	ug/kg	< 900	< 900	< 800	< 800	< 800	< 800	< 800	< 600
Chrysene	ug/kg	908	934	917	843	663	820	759	678
Dibenzo(a,h)anthracene	ug/kg	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	< 1000
1,2-Dichlorobenzene	ug/kg	< 400	< 400	< 400	< 400	< 400	< 400	< 400	< 300

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below (ETC Sample No.) | WASTE MANAGEMENT, INC. (Company) | 705 (Facility) | See Below (Sample Point, Date)

Parameters	Units	Sample Points, Sampling Dates, and ETC Sample No.'s							
		B S1 891012 HA1551	B ST8 891012 HA1554	B ST8DUP 891012 HA1555	B S2 891012 HA1536	B S2DUP 891012 HA1537	B S3 891012 HA1538	B S3DUP 891012 HA1539	B S7 891012 HA1563
1,3-Dichlorobenzene	ug/kg	< 400	< 400	< 400	< 400	< 400	< 400	< 400	< 300
1,4-Dichlorobenzene	ug/kg	< 900	< 900	< 900	< 800	< 900	< 800	< 800	< 700
3,3'-Dichlorobenzidine	ug/kg	< 3000	< 3000	< 3000	< 3000	< 3000	< 3000	< 3000	< 2000
Diethyl phthalate	ug/kg	< 2000	540	< 1980	450	< 2000	230	430	< 1000
Dimethyl phthalate	ug/kg	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	< 1000
Di-n-butyl phthalate	ug/kg	170	230	150	220	< 2000	160	< 2000	< 1480
2,4-Dinitrotoluene	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 800
2,6-Dinitrotoluene	ug/kg	< 400	< 400	< 400	< 400	< 400	< 400	< 400	< 300
Di-n-octyl phthalate	ug/kg	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	< 1000
1,2-Diphenylhydrazine	ug/kg	-	-	-	-	-	-	-	-
Fluoranthene	ug/kg	1280	1460	1490	1340	1180	1220	1370	1490
Fluorene	ug/kg	280	230	200	230	210	190	200	220
Hexachlorobenzene	ug/kg	< 400	< 400	< 400	< 400	< 400	< 400	< 400	< 300
Hexachlorobutadiene	ug/kg	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 100
Hexachlorocyclopentadiene	ug/kg	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	< 1000
Hexachloroethane	ug/kg	< 300	< 300	< 300	< 300	< 300	< 300	< 300	< 200
Indeno(1,2,3-c,d)pyrene	ug/kg	< 1000	250	< 900	< 900	< 900	< 900	< 900	< 700
Isophorone	ug/kg	< 500	< 500	< 400	< 400	< 400	< 400	< 400	< 300
Naphthalene	ug/kg	240	240	230	190	210	170	210	210
Nitrobenzene	ug/kg	< 400	< 400	< 400	< 400	< 400	< 400	< 400	< 300
N-Nitrosodimethylamine	ug/kg	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	< 1000
N-Nitrosodi-n-propylamine	ug/kg	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	< 1000
N-Nitrosodiphenylamine	ug/kg	< 400	< 400	< 400	< 400	< 400	< 400	< 400	< 300
Phenanthrene	ug/kg	880	930	890	900	760	840	850	1200
Pyrene	ug/kg	1280	1410	1400	1230	1120	1070	1230	1350
1,2,4-Trichlorobenzene	ug/kg	< 400	< 400	< 400	< 400	< 400	< 400	< 400	< 300
Priority Poll. Pest/PCBs GC/MS									
Aldrin	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 9	< 6
Alpha-BHC	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 9	< 6
Beta-BHC	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 9	< 6
Gamma-BHC	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 9	< 6
Delta-BHC	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 9	< 6
Chlordane	ug/kg	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 100
4,4'-DDT	ug/kg	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 10
4,4'-DDE	ug/kg	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 10

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below (ETC Sample No.) | WASTE MANAGEMENT, INC. (Company) | 705 (Facility) | See Below (Sample Point) | See Below (Date)

Parameters	Units	Sample Points, Sampling Dates, and ETC Sample No.'s							
		B S1 891012 HA1551	B S1B 891012 HA1554	B S1BDUP 891012 HA1555	B S2 891012 HA1536	B S2DUP 891012 HA1537	B S3 891012 HA1538	B S3DUP 891012 HA1539	B S7 891012 HA1563
4,4'-DDD	ug/kg	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 10
Dieldrin	ug/kg	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 10
Endosulfan I	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 9	< 6
Endosulfan II	ug/kg	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 10
Endosulfan sulfate	ug/kg	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 10
Endrin	ug/kg	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 10
Endrin aldehyde	ug/kg	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 10
Heptachlor	ug/kg	< 10	42.9	51.0	< 10	43.3	33.7	35.2	17.8
Heptachlor epoxide	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 9	< 6
Toxaphene	ug/kg	< 400	< 400	< 400	< 400	< 400	< 400	< 400	< 300
Groundwater Conventionals									
Chloride	mg/kg	135.0	111.0	90.0	83.0	78.0	82.0	79.0	27.0
Sulfate as SO4	mg/kg	187.0	117.0	< 104.0	< 108.0	< 106.0	< 102.0	< 100.0	< 73.0
Phenolics, Total	mg/kg	< 1.1	< 1.9	< 1.3	< 1.3	< 1.2	2.1	< 1.2	< .37
Cyanide, Total	mg/kg	< 1.09	< 1.08	< 1.08	< .97	< .99	< 1.01	< .95	< .66
pH	std	7.98	7.85	7.86	7.90	7.96	8.09	8.02	8.35
pH	std	-	7.83	7.89	7.91	7.96	8.12	-	8.34
Metals Analysis Data									
Antimony	ug/kg	20000	17000	19000	9500	21000	18000	21000	17000
Arsenic	ug/kg	26000	14000	23000	26000	20000	25000	18000	32000
Beryllium	ug/kg	590	350	640	500	580	450	550	290
Cadmium	ug/kg	770	310	620	680	360	580	430	430
Calcium	ug/kg	75200000	42700000	65500000	63400000	66200000	63600000	66500000	84200000
Chromium	ug/kg	38000	20000	34000	30000	32000	28000	33000	14000
Copper	ug/kg	66000	34000	54000	49000	53000	49000	53000	28000
Lead	ug/kg	120000	63000	100000	91000	97000	88000	110000	56000
Magnesium	ug/kg	32000000	19600000	29700000	28900000	30300000	28300000	29800000	43300000
Mercury	ug/kg	160	110	180	130	160	190	150	84
Nickel	ug/kg	39000	22000	36000	32000	34000	30000	35000	18000
Potassium	ug/kg	2000000	1100000	2300000	1700000	2200000	1300000	1900000	870000
Selenium	ug/kg	550	230	460	450	370	460	280	250
Silver	ug/kg	1100	< 1200	530	730	< 2000	610	430	< 1300
Sodium	ug/kg	150000	95000	130000	94000	130000	91000	140000	43000

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		B S1 891012 HA1551	B ST8 891012 HA1554	B ST8DUP 891012 HA1555	B S2 891012 HA1536	B S2DUP 891012 HA1537	B S3 891012 HA1538	B S3DUP 891012 HA1539	B S7 891012 HA1563
Thallium	ug/kg	< 2000	380	420	< 2000	< 2000	570	< 1900	420
Zinc	ug/kg	330000	190000	300000	260000	290000	260000	300000	200000
Aroclors by GC									
Aroclor 1242	ug/kg	< 100	< 100	< 100	< 100	< 100	< 100	< 90	< 60
Aroclor 1254	ug/kg	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 100
Aroclor 1260	ug/kg	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 100
Aroclor 1248	ug/kg	< 100	< 100	< 100	< 100	< 100	< 100	< 90	< 60
Aroclor 1232	ug/kg	< 100	< 100	< 100	< 100	< 100	< 100	< 90	< 60
Aroclor 1221	ug/kg	< 100	< 100	< 100	< 100	< 100	< 100	< 90	< 60
Aroclor 1016	ug/kg	< 100	< 100	< 100	< 100	< 100	< 100	< 90	< 60
Miscellaneous Parameters									
Ammonia as N	mg/kg	189.0	61.0	165.0	175.0	115.0	133.0	137.0	149.0
Chemical Oxygen Demand (COD)	mg/kg	75000.0	88500.0	91100.0	100000	99000.0	92000.0	90200.0	52700.0
Nitrate+Nitrite	mg/kg	4.0	2.9	3.3	1.7	2.5	1.0	2.0	5.7

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

DATE: 10/14/93
PAGE: 11

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		B S21 891013 HA1546	B S21DUP 891013 HA1547	B S28 891013 HA1548	B S29 891013 HA1549	B S22 891013 HA1556	B S23 891013 HA1557	B S19 891013 HA1558	B S20 891013 HA1559
Priority Poll. Volatiles GC/MS									
Acrolein	ug/kg	-	-	-	-	-	-	-	-
Acrylonitrile	ug/kg	-	-	-	-	-	-	-	-
Benzene	ug/kg	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
bis(Chloromethyl)ether	ug/kg	-	-	-	-	-	-	-	-
Bromoform	ug/kg	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Carbon tetrachloride	ug/kg	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Chlorobenzene	ug/kg	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Chlorodibromomethane	ug/kg	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Chloroethane	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Chloroethylvinyl ether	ug/kg	-	-	-	-	-	-	-	-
Chloroform	ug/kg	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Dichlorobromomethane	ug/kg	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Dichlorodifluoromethane	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
1,1-Dichloroethane	ug/kg	< 5	< 5	< 5	< 5	2.0	< 5	< 5	< 5
1,2-Dichloroethane	ug/kg	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
1,1-Dichloroethylene	ug/kg	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
1,2-Dichloropropane	ug/kg	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
cis-1,3-Dichloropropylene	ug/kg	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Ethylbenzene	ug/kg	< 7	< 7	< 7	< 7	< 7	< 7	< 7	< 7
Methyl bromide	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methyl chloride	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methylene chloride	ug/kg	21.0	18.3	57.4	19.3	32.8	31.4	32.1	36.5
1,1,2,2-Tetrachloroethane	ug/kg	< 7	< 7	< 7	< 7	< 7	< 7	< 7	< 7
Tetrachloroethylene	ug/kg	< 4	< 4	< 4	< 4	12.8	< 4	< 4	< 4
Toluene	ug/kg	< 6	< 6	< 6	< 6	< 6	< 6.00	< 6.00	< 6
1,2-Trans-dichloroethylene	ug/kg	2.98	< 1.60	< 2	< 2	2.25	< 2	< 1.60	< 2
1,1,1-Trichloroethane	ug/kg	< 4	< 4	< 4	< 4	< 3.80	< 4	< 4	< 4
1,1,2-Trichloroethane	ug/kg	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Trichloroethylene	ug/kg	< 2	< 2	< 2	< 2	6.48	< 2	< 2	< 2
Trichlorofluoromethane	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Vinyl chloride	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
trans-1,3-Dichloropropylene	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

DATE: 10/14/93
PAGE: 12

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		B S21 891013 HA1546	B S21DUP 891013 HA1547	B S28 891013 HA1548	B S29 891013 HA1549	B S22 891013 HA1556	B S23 891013 HA1557	B S19 891013 HA1558	B S20 891013 HA1559
Priority Poll. Acids GC/MS									
2-Chlorophenol	ug/kg	< 500	< 500	< 600	< 700	< 400	< 500	< 500	< 500
2,4-Dichlorophenol	ug/kg	< 400	< 400	< 500	< 600	< 300	< 400	< 400	< 400
2,4-Dimethylphenol	ug/kg	< 400	< 400	< 500	< 600	< 300	< 400	< 400	< 400
4,6-Dinitro-o-cresol	ug/kg	< 3000	< 3000	< 4000	< 5000	< 3000	< 3000	< 4000	< 4000
2,4-Dinitrophenol	ug/kg	< 6000	< 6000	< 7000	< 9000	< 5000	< 6000	< 6000	< 7000
2-Nitrophenol	ug/kg	< 500	< 500	< 600	< 800	< 400	< 500	< 500	< 600
4-Nitrophenol	ug/kg	< 300	< 300	< 400	< 500	< 300	< 300	< 400	< 387
p-Chloro-m-cresol	ug/kg	< 400	< 400	< 500	< 700	< 400	< 400	< 500	< 500
Pentachlorophenol	ug/kg	< 500	< 500	< 600	< 800	< 400	< 500	< 500	< 600
Phenol	ug/kg	923	832	< 300	1160	560	820	705	< 200
2,4,6-Trichlorophenol	ug/kg	< 400	< 400	< 500	< 600	< 300	< 400	< 400	< 400
Priority Poll. B/Ns GC/MS									
Acenaphthene	ug/kg	220	< 300	< 300	< 400	< 200	< 300	< 300	< 300
Acenaphthylene	ug/kg	< 500	< 500	< 600	< 800	< 400	< 500	< 500	< 600
Anthracene	ug/kg	440	130	240	400	< 200	< 300	130	160
Benzidine	ug/kg	-	-	-	-	-	-	-	-
Benzo(a)anthracene	ug/kg	630	< 1000	780	1300	< 900	< 1000	360	300
Benzo(a)pyrene	ug/kg	608	< 400	658	1100	< 300	< 400	< 400	< 403
Benzo(b)fluoranthene	ug/kg	< 700	< 700	550	970	< 600	< 700	< 700	380
Benzo(ghi)perylene	ug/kg	< 600	< 600	< 700	< 900	< 500	< 600	< 600	< 700
Benzo(k)fluoranthene	ug/kg	< 300	< 400	< 400	987	< 300	< 400	< 400	< 403
bis(2-Chloroethoxy)methane	ug/kg	< 700	< 700	< 900	< 1000	< 600	< 700	< 800	< 900
bis(2-Chloroethyl) ether	ug/kg	< 800	< 800	< 1000	< 1000	< 700	< 800	< 900	< 900
bis(2-Chloroisopropyl)ether	ug/kg	< 800	< 800	< 1000	< 1000	< 700	< 800	< 900	< 900
bis(2-Ethylhexyl)phthalate	ug/kg	410	650	1300	1400	300	4530	1500	230
4-Bromophenyl phenyl ether	ug/kg	< 300	< 300	< 300	< 400	< 200	< 300	< 300	< 306
Butyl benzyl phthalate	ug/kg	< 1000	< 1000	< 2000	< 2000	< 1000	< 1000	< 2000	< 2000
2-Chloronaphthalene	ug/kg	< 300	< 300	< 300	< 400	< 200	< 300	< 300	< 300
4-Chlorophenyl phenyl ether	ug/kg	< 600	< 600	< 700	< 900	< 500	< 600	< 600	< 700
Chrysene	ug/kg	627	260	964	1850	< 300	350	502	400
Dibenzo(a,h)anthracene	ug/kg	< 1000	< 1000	< 2000	< 2000	< 1000	< 1000	< 2000	< 2000
1,2-Dichlorobenzene	ug/kg	< 300	< 300	< 300	< 400	< 200	< 300	< 300	< 300

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below				See Below	
ETC Sample No.	WASTE MANAGEMENT, INC. *Company*	705 *Facility*		*Sample Point*	*Date*

Parameters	Units	Sample Points, Sampling Dates, and ETC Sample No.'s							
		B S21 891013 HA1546	B S21DUP 891013 HA1547	B S28 891013 HA1548	B S29 891013 HA1549	B S22 891013 HA1556	B S23 891013 HA1557	B S19 891013 HA1558	B S20 891013 HA1559
1,3-Dichlorobenzene	ug/kg	< 300	< 300	< 300	< 400	< 200	< 300	< 300	< 300
1,4-Dichlorobenzene	ug/kg	< 600	< 600	< 800	< 1000	< 500	< 600	< 700	< 700
3,3'-Dichlorobenzidine	ug/kg	< 2000	< 2000	< 3000	< 4000	< 2000	< 2000	< 3000	< 3000
Diethyl phthalate	ug/kg	< 1000	< 1000	230	340	110	310	230	< 2000
Dimethyl phthalate	ug/kg	< 1000	< 1000	< 2000	< 2000	< 1000	< 1000	< 2000	< 2000
Di-n-butyl phthalate	ug/kg	< 1000	< 1000	< 1720	220	< 1000	120	150	180
2,4-Dinitrotoluene	ug/kg	< 800	< 800	< 1000	< 1000	< 700	< 800	< 900	< 900
2,6-Dinitrotoluene	ug/kg	< 300	< 300	< 300	< 400	< 200	< 300	< 300	< 300
Di-n-octyl phthalate	ug/kg	< 1000	670	< 2000	< 2000	< 1000	< 1000	< 2000	< 2000
1,2-Diphenylhydrazine	ug/kg	-	-	-	-	-	-	-	-
Fluoranthene	ug/kg	1570	629	1660	2430	< 300	621	799	785
Fluorene	ug/kg	250	130	190	< 400	< 200	< 300	< 300	< 306
Hexachlorobenzene	ug/kg	< 300	< 300	< 300	240	< 200	< 300	< 300	< 300
Hexachlorobutadiene	ug/kg	< 100	< 100	< 200	< 200	< 100	< 100	< 100	< 100
Hexachlorocyclopentadiene	ug/kg	< 1000	< 1000	< 2000	< 2000	< 1000	< 1000	< 2000	< 2000
Hexachloroethane	ug/kg	< 200	< 200	< 300	< 400	< 200	< 200	< 200	< 300
Indeno(1,2,3-c,d)pyrene	ug/kg	< 600	< 700	< 800	< 1000	< 600	< 700	< 700	< 800
Isophorone	ug/kg	< 300	< 300	< 400	< 500	< 300	< 300	< 300	< 400
Naphthalene	ug/kg	120	< 200	170	210	< 200	< 200	130	< 300
Nitrobenzene	ug/kg	< 300	< 300	< 300	< 400	< 200	< 300	< 300	< 300
N-Nitrosodimethylamine	ug/kg	< 1000	< 1000	< 2000	< 2000	< 1000	< 1000	< 2000	< 1610
N-Nitrosodi-n-propylamine	ug/kg	< 1000	< 1000	< 2000	< 2000	< 1000	< 1000	< 2000	< 1610
N-Nitrosodiphenylamine	ug/kg	< 300	< 300	< 300	< 400	< 200	< 300	< 300	< 300
Phenanthrene	ug/kg	1410	460	920	1330	180	380	530	510
Pyrene	ug/kg	1290	608	1450	2220	< 200	556	760	681
1,2,4-Trichlorobenzene	ug/kg	< 300	< 300	< 300	< 400	< 200	< 300	< 300	< 300
Priority Poll. Pest/PCBs GC/MS									
Aldrin	ug/kg	< 7	< 6	< 8	< 10	< 6	< 6	< 7	< 80
Alpha-BHC	ug/kg	< 7	< 6	< 8	< 10	< 6	< 6	< 7	< 80
Beta-BHC	ug/kg	< 7	< 6	< 8	< 10	< 6	< 6	< 7	< 80
Gamma-BHC	ug/kg	< 7	< 6	< 8	< 10	< 6	< 6	< 7	< 80
Delta-BHC	ug/kg	< 7	< 6	< 8	< 10	< 6	< 6	< 7	< 80
Chlordane	ug/kg	< 100	< 100	< 200	< 200	< 100	< 100	< 100	< 2000
4,4'-DDT	ug/kg	< 10	< 10	< 20	< 20	< 10	< 10	< 10	< 200
4,4'-DDE	ug/kg	< 10	< 10	< 20	< 20	< 10	< 10	< 10	< 200

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		B S21 891013 HA1546	B S21DUP 891013 HA1547	B S26 891013 HA1548	B S29 891013 HA1549	B S22 891013 HA1556	B S23 891013 HA1557	B S19 891013 HA1558	B S20 891013 HA1559
4,4'-DDD	ug/kg	< 10	< 10	< 20	< 20	< 10	< 10	< 10	< 200
Dieldrin	ug/kg	< 10	< 10	< 20	< 20	< 10	< 10	< 10	< 200
Endosulfan I	ug/kg	< 7	< 6	< 8	< 10	< 6	< 6	< 7	< 80
Endosulfan II	ug/kg	< 10	< 10	< 20	< 20	< 10	< 10	< 10	< 200
Endosulfan sulfate	ug/kg	< 10	< 10	< 20	< 20	< 10	< 10	< 10	< 200
Endrin	ug/kg	< 10	< 10	< 20	< 20	< 10	< 10	< 10	< 200
Endrin aldehyde	ug/kg	< 10	< 10	< 20	< 20	< 10	< 10	< 10	< 200
Heptachlor	ug/kg	14.6	< 6	< 8	71.7	< 6	< 6	< 7	< 80
Heptachlor epoxide	ug/kg	< 7	< 6	< 8	< 10	< 6	< 6	< 7	< 80
Toxaphene	ug/kg	< 300	< 300	< 300	< 400	< 200	< 300	< 300	< 3000
Groundwater Conventionals									
Chloride	mg/kg	19.3	38.6	31.8	80.4	10.3	37.9	52.6	26.4
Sulfate as SO4	mg/kg	< 67.9	< 68.6	< 86.2	178	< 61.3	< 67.4	< 48.9	< 70.3
Phenolics, Total	mg/kg	< .34	< .68	< 1.0	< 1.3	< .72	< 1.3	< .42	< .39
Cyanide, Total	mg/kg	< .68	< .70	< .79	< 1.10	< .63	< .69	< .70	< .73
pH	std	8.61	8.01	7.99	7.71	8.47	8.24	8.31	8.25
pH	std	8.58	7.92	7.98	7.69	8.40	8.24	8.29	8.23
Metals Analysis Data									
Antimony	ug/kg	11000	10000	15000	30000	15000	< 8300	< 8400	< 8800
Arsenic	ug/kg	24000	21000	17000	26700	35000	28000	23000	28000
Beryllium	ug/kg	210	250	510	730	210	440	450	460
Cadmium	ug/kg	260	200	800	890	< 250	4000	3600	4000
Calcium	ug/kg	25900000	28000000	59700000	66600000	82100000	42100000	56100000	60500000
Chromium	ug/kg	9100	9800	33000	54000	6900	13000	14000	12000
Copper	ug/kg	22000	21000	46000	65000	21000	31000	26000	23000
Lead	ug/kg	29000	32000	110000	150000	22000	50000	46000	42000
Magnesium	ug/kg	13700000	14300000	28600000	25600000	43700000	21700000	28800000	32900000
Mercury	ug/kg	66	67	130	200	< 100	110	96	64
Nickel	ug/kg	14000	17000	34000	40000	17000	19000	18000	16000
Potassium	ug/kg	700000	780000	1400000	1800000	690000	500000	640000	580000
Selenium	ug/kg	200	260	360	560	< 3200	280	280	290
Silver	ug/kg	< 1400	< 1400	650	500	280	880	1200	1600
Sodium	ug/kg	41000	49000	110000	150000	50000	170000	180000	220000

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below				See Below	
ETC Sample No.	WASTE MANAGEMENT, INC.	*Company*	705 *Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		B S21 891013 HA1546	B S21DUP 891013 HA1547	B S28 891013 HA1548	B S29 891013 HA1549	B S22 891013 HA1556	B S23 891013 HA1557	B S19 891013 HA1558	B S20 891013 HA1559
Thallium	ug/kg	< 1400	390	< 1600	1300	760	780	640	670
Zinc	ug/kg	170000	170000	373000	380000	55000	240000	160000	250000
Aroclors by GC									
Aroclor 1242	ug/kg	< 70	< 60	< 80	< 100	< 60	< 60	< 70	< 800
Aroclor 1254	ug/kg	< 100	< 100	< 200	< 200	< 100	< 100	< 100	< 2000
Aroclor 1260	ug/kg	< 100	< 100	< 200	< 200	< 100	< 100	< 100	< 2000
Aroclor 1248	ug/kg	< 70	< 60	< 80	< 100	< 60	< 60	< 70	< 800
Aroclor 1232	ug/kg	< 70	< 60	< 80	< 100	< 60	< 60	< 70	< 800
Aroclor 1221	ug/kg	< 70	< 60	< 80	< 100	< 60	< 60	< 70	< 800
Aroclor 1016	ug/kg	< 70	< 60	< 80	< 100	< 60	< 60	< 70	< 800
Miscellaneous Parameters									
Ammonia as N	mg/kg	31.3	29.5	83.3	81.0	8.8	23.4	52.8	46.7
Chemical Oxygen Demand (COD)	mg/kg	45500	44100	73000	94500	30700	36500	48200	38500
Nitrate+Nitrite	mg/kg	1.9	1.3	1.8	< 1.2	< .61	1.6	1.5	2.1

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below				See Below	
ETC Sample No.	*Company*		*Facility*	*Sample Point*	*Date*
	WASTE MANAGEMENT, INC.		705		

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		B S24 891013 HA1564	B S25 891013 HA1565	B S25 891018 HA1920	B S10 891018 HA1544	B S11 891018 HA1545	B S14 891018 HA1552	B S15 891018 HA1553	B S12 891018 HA1566
Priority Poll. Volatiles GC/MS									
Acrolein	ug/kg	-	< 100	-	-	-	-	-	-
Acrylonitrile	ug/kg	-	< 100	-	-	-	-	-	-
Benzene	ug/kg	< 4	< 4.40	-	< 4	< 4.40	-	-	-
bis(Chloromethyl)ether	ug/kg	-	< 10	-	-	-	-	-	-
Bromoform	ug/kg	< 5	< 5	-	< 5	< 5	-	-	-
Carbon tetrachloride	ug/kg	< 3	< 3	-	< 3	< 3	-	-	-
Chlorobenzene	ug/kg	< 6	< 6	-	< 6	< 6.00	-	-	-
Chlorodibromomethane	ug/kg	< 3	< 3	-	< 3	< 3	-	-	-
Chloroethane	ug/kg	< 10	< 10	-	< 10	< 10	-	-	-
2-Chloroethylvinyl ether	ug/kg	-	< 10	-	-	-	-	-	-
Chloroform	ug/kg	< 2	< 2	-	< 2	< 2	-	-	-
Dichlorobromomethane	ug/kg	< 2	< 2	-	< 2	< 2	-	-	-
Dichlorodifluoromethane	ug/kg	< 10	< 10	-	< 10	< 10	-	-	-
1,1-Dichloroethane	ug/kg	< 5	< 5	-	< 5	< 5	-	-	-
1,2-Dichloroethane	ug/kg	< 3	< 3	-	< 3	< 3	-	-	-
1,1-Dichloroethylene	ug/kg	< 3	< 3	-	< 3	< 3	-	-	-
1,2-Dichloropropane	ug/kg	< 6	< 6	-	< 6	< 6	-	-	-
cis-1,3-Dichloropropylene	ug/kg	< 5	< 5	-	< 5	< 5	-	-	-
Ethylbenzene	ug/kg	< 7	< 7	-	< 7	< 7.20	-	-	-
Methyl bromide	ug/kg	< 10	< 10	-	< 10	< 10	-	-	-
Methyl chloride	ug/kg	< 10	< 10	-	< 10	< 10	-	-	-
Methylene chloride	ug/kg	51.4	453	-	14.3	12.4	-	-	-
1,1,2,2-Tetrachloroethane	ug/kg	< 7	< 7	-	< 7	< 6.90	-	-	-
Tetrachloroethylene	ug/kg	< 4	< 4	-	< 4	< 4	-	-	-
Toluene	ug/kg	< 6	< 6	-	< 6.00	< 6.00	-	-	-
1,2-Trans-dichloroethylene	ug/kg	< 2	< 2	-	< 2	< 2	-	-	-
1,1,1-Trichloroethane	ug/kg	< 4	< 4	-	< 4	< 4	-	-	-
1,1,2-Trichloroethane	ug/kg	< 5	< 5	-	< 5	< 5	-	-	-
Trichloroethylene	ug/kg	< 2	< 2	-	< 2	< 2	-	-	-
Trichlorofluoromethane	ug/kg	< 10	< 10	-	< 10	< 10	-	-	-
Vinyl chloride	ug/kg	< 10	< 10	-	< 10	< 10	-	-	-
trans-1,3-Dichloropropylene	ug/kg	< 10	< 10	-	< 10	< 10	-	-	-

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	Units	B S24 891013 HA1564	B S25 891013 HA1565	B S25 891018 HA1920	B S10 891018 HA1544	B S11 891018 HA1545	B S14 891018 HA1552	B S15 891018 HA1553	B S12 891018 HA1566
Priority Poll. Acids GC/MS									
2-Chlorophenol	ug/kg	< 500	< 6000	-	< 9000	< 5000	< 1000	< 7000	< 9000
2,4-Dichlorophenol	ug/kg	< 400	< 5000	-	< 7000	< 4000	< 800	< 6000	< 7000
2,4-Dimethylphenol	ug/kg	< 400	< 5000	-	< 7000	< 4000	< 800	< 6000	< 7000
4,6-Dinitro-o-cresol	ug/kg	< 4000	<40000	-	<60000	<40000	< 7000	<50000	<60000
2,4-Dinitrophenol	ug/kg	< 6000	<80000	-	< 100000	<70000	<10000	<90000	< 100000
2-Nitrophenol	ug/kg	< 500	< 7000	-	< 9000	< 6000	< 1000	< 8000	<10000
4-Nitrophenol	ug/kg	< 400	< 4000	-	< 6000	< 4000	< 700	< 5000	< 6000
p-Chloro-m-cresol	ug/kg	< 400	< 5000	-	< 8000	< 5000	< 900	< 7000	< 8000
Pentachlorophenol	ug/kg	< 500	< 7000	-	< 9000	< 6000	< 1000	< 8000	<10000
Phenol	ug/kg	< 200	< 3000	-	< 4000	< 2000	< 500	< 3000	< 4000
2,4,6-Trichlorophenol	ug/kg	< 400	< 5000	-	< 7000	< 4000	< 800	< 6000	< 7000
Priority Poll. B/Ns GC/MS									
Acenaphthene	ug/kg	316	< 3000	-	< 5000	< 2970	< 600	< 4000	< 5000
Acenaphthylene	ug/kg	< 500	< 6000	-	< 9000	< 5000	< 1000	< 8000	< 9000
Anthracene	ug/kg	872	< 3000	-	< 5010	< 2970	< 600	< 4260	< 5110
Benzidine	ug/kg	-	-	-	-	-	-	-	-
Benzo(a)anthracene	ug/kg	1230	<10000	-	<20600	3500	< 2000	<17500	<21000
Benzo(a)pyrene	ug/kg	806	< 5000	-	< 6600	2900	< 800	< 5610	< 6720
Benzo(b)fluoranthene	ug/kg	570	< 9000	-	2500	4000	< 1000	<10800	1900
Benzo(ghi)perylene	ug/kg	< 602	< 7000	-	<10000	< 6410	< 1000	< 9000	<10000
Benzo(k)fluoranthene	ug/kg	611	< 5000	-	< 6600	< 3910	< 800	< 5610	< 6720
bis(2-Chloroethoxy)methane	ug/kg	< 800	<10000	-	<10000	< 8000	< 2000	<10000	<10000
bis(2-Chloroethyl) ether	ug/kg	< 800	<10000	-	<20000	< 9000	< 2000	<10000	<20000
bis(2-Chloroisopropyl)ether	ug/kg	< 800	<10000	-	<20000	< 9000	< 2000	<10000	<20000
bis(2-Ethylhexyl)phthalate	ug/kg	320	11000	-	<26400	<20000	< 3000	<20000	<30000
4-Bromophenyl phenyl ether	ug/kg	< 279	< 3000	-	< 5010	< 3000	< 572	< 4000	< 5000
Butyl benzyl phthalate	ug/kg	< 1000	<20000	-	<30000	<20000	< 3000	<20000	<30000
2-Chloronaphthalene	ug/kg	< 300	< 3000	-	< 5000	< 3000	< 600	< 4000	< 5000
4-Chlorophenyl phenyl ether	ug/kg	< 600	< 8000	-	<10000	< 7000	< 1000	< 9000	<10000
Chrysene	ug/kg	1370	< 5000	-	< 6600	3500	< 800	< 5610	< 6720
Dibenzo(a,h)anthracene	ug/kg	< 1000	<20000	-	<30000	<20000	< 3000	<20000	<30000
1,2-Dichlorobenzene	ug/kg	< 300	< 3000	-	< 5000	< 3000	< 600	< 4000	< 5000

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		B S24 891013 HA1564	B S25 891013 HA1565	B S25 891018 HA1920	B S10 891018 HA1544	B S11 891018 HA1545	B S14 891018 HA1552	B S15 891018 HA1553	B S12 891018 HA1566
1,3-Dichlorobenzene	ug/kg	< 300	< 3000	-	< 5000	< 3000	< 600	< 4000	< 5000
1,4-Dichlorobenzene	ug/kg	< 600	< 8000	-	<10000	< 7000	< 1000	<10000	<10000
3,3'-Dichlorobenzidine	ug/kg	< 2000	<30000	-	<40000	<30000	< 5000	<40000	<40000
Diethyl phthalate	ug/kg	< 1000	<20000	-	<30000	<20000	< 3000	<20000	<30000
Dimethyl phthalate	ug/kg	< 1000	<20000	-	<30000	<20000	< 3000	<20000	<30000
Di-n-butyl phthalate	ug/kg	< 1000	<20000	-	<30000	<20000	< 3000	<20000	<30000
2,4-Dinitrotoluene	ug/kg	< 800	<10000	-	<20000	< 9000	< 2000	<10000	<20000
2,6-Dinitrotoluene	ug/kg	< 300	< 3000	-	< 5000	< 3000	< 600	< 4000	< 5000
Di-n-octyl phthalate	ug/kg	< 1000	<20000	-	<30000	<20000	< 3000	<20000	<30000
1,2-Diphenylhydrazine	ug/kg	-	-	-	-	-	-	-	-
Fluoranthene	ug/kg	3720	< 4000	-	4900	9410	1460	4500	3500
Fluorene	ug/kg	742	< 3000	-	< 5000	< 3000	< 600	< 4000	< 5000
Hexachlorobenzene	ug/kg	< 300	< 3000	-	< 5000	< 3000	< 600	< 4000	< 5000
Hexachlorobutadiene	ug/kg	< 100	< 2000	-	< 2000	< 1000	< 300	< 2000	< 2000
Hexachlorocyclopentadiene	ug/kg	< 1000	<20000	-	<30000	<20000	< 3000	<20000	<30000
Hexachloroethane	ug/kg	< 200	< 3000	-	< 4000	< 3000	< 500	< 4000	< 4000
Indeno(1,2,3-c,d)pyrene	ug/kg	< 690	< 9000	-	<10000	< 7340	< 1000	<10000	<10000
Isophorone	ug/kg	< 300	< 4000	-	< 6000	< 3000	< 700	< 5000	< 6000
Naphthalene	ug/kg	2010	< 3000	-	< 4000	< 3000	< 482	< 4000	< 4000
Nitrobenzene	ug/kg	< 300	< 3000	-	< 5000	< 3000	< 600	< 4000	< 5000
N-Nitrosodimethylamine	ug/kg	< 1000	<20000	-	<30000	<20000	< 3000	<20000	<30000
N-Nitrosodi-n-propylamine	ug/kg	< 1470	<20000	-	<30000	<20000	< 3010	<20000	<30000
N-Nitrosodiphenylamine	ug/kg	< 300	< 3000	-	< 5000	< 3000	< 600	< 4000	< 5000
Phenanthrene	ug/kg	3120	<10000	-	<14200	5300	< 2000	2800	<14500
Pyrene	ug/kg	3450	< 3000	-	4700	8220	1360	4660	3300
1,2,4-Trichlorobenzene	ug/kg	< 300	< 3000	-	< 5000	< 3000	< 600	< 4000	< 5000
Priority Poll. Pest/PCBs GC/MS									
Aldrin	ug/kg	< 70	< 90	-	< 100	< 80	< 200	< 100	< 100
Alpha-BHC	ug/kg	< 70	< 90	-	< 100	< 80	< 200	< 100	< 100
Beta-BHC	ug/kg	< 70	< 90	-	< 100	< 80	< 200	< 100	< 100
Gamma-BHC	ug/kg	< 70	< 90	-	< 100	< 80	< 200	< 100	< 100
Delta-BHC	ug/kg	< 70	< 90	-	< 100	< 80	< 200	< 100	< 100
Chlordane	ug/kg	< 1000	< 2000	-	< 3000	< 2000	< 3000	< 2000	< 3000
4,4'-DDT	ug/kg	< 100	< 200	-	< 300	< 200	< 300	< 200	< 300
4,4'-DDE	ug/kg	< 100	< 200	-	< 300	< 200	< 300	< 200	< 300

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

DATE: 10/14/93
PAGE: 19

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		B S24 891013 HA1564	B S25 891013 HA1565	B S25 891018 HA1920	B S10 891018 HA1544	B S11 891018 HA1545	B S14 891018 HA1552	B S15 891018 HA1553	B S12 891018 HA1566
4,4 -DDD	ug/kg	< 100	< 200	-	< 300	< 200	< 300	< 200	< 300
Dieldrin	ug/kg	< 100	< 200	-	< 300	< 200	< 300	< 200	< 300
Endosulfan I	ug/kg	< 70	< 90	-	< 100	< 80	< 200	< 100	< 100
Endosulfan II	ug/kg	< 100	< 200	-	< 300	< 200	< 300	< 200	< 300
Endosulfan sulfate	ug/kg	< 100	< 200	-	< 300	< 200	< 300	< 200	< 300
Endrin	ug/kg	< 100	< 200	-	< 300	< 200	< 300	< 200	< 300
Endrin aldehyde	ug/kg	< 100	< 200	-	< 300	< 200	< 300	< 200	< 300
Heptachlor	ug/kg	< 70	< 90	-	< 100	< 80	< 200	< 100	< 100
Heptachlor epoxide	ug/kg	< 70	< 90	-	< 100	< 80	< 200	< 100	< 100
Toxaphene	ug/kg	< 3000	< 3000	-	< 5000	< 3000	< 6000	< 4000	< 5000
Groundwater Conventionals									
Chloride	mg/kg	23.6	-	61.6	199	73.2	265	152	211
Sulfate as SO4	mg/kg	< 69.3	-	< 101	580	216	397	510	634
Phenolics, Total	mg/kg	< .50	-	< 1.8	< 2.7	< 1.5	< 2.9	< 2.0	< 2.6
Cyanide, Total	mg/kg	< .71	< .79	-	< 1.38	< .81	< 1.45	< 1.15	< 1.33
pH	std	8.41	8.33	-	7.55	8.16	7.75	7.88	7.83
pH	std	8.35	8.32	-	7.58	-	7.77	7.88	7.83
Metals Analysis Data									
Antimony	ug/kg	< 8500	< 9500	-	4300	5600	8500	-	6000
Arsenic	ug/kg	87000	21000	-	17000	15000	3800	-	17000
Beryllium	ug/kg	510	570	-	1100	420	1000	-	880
Cadmium	ug/kg	4400	4200	-	2000	2000	1900	-	1400
Calcium	ug/kg	57100000	72500000	-	68200000	59900000	61300000	-	53000000
Chromium	ug/kg	16000	20000	-	39000	15000	37000	-	32000
Copper	ug/kg	33000	37000	-	57000	31000	53000	-	46000
Lead	ug/kg	66000	77000	-	160000	150000	150000	-	130000
Magnesium	ug/kg	29100000	35900000	-	24100000	28100000	20000000	-	18200000
Mercury	ug/kg	120	140	-	250	330	340	-	240
Nickel	ug/kg	21000	20000	-	39000	20000	41000	-	33000
Potassium	ug/kg	620000	770000	-	2900000	700000	2400000	-	2200000
Selenium	ug/kg	500	400	-	360	< 1500	470	-	520
Silver	ug/kg	1200	1200	-	2100	2200	2800	-	1200
Sodium	ug/kg	370000	220000	-	440000	160000	430000	-	420000

Footnotes: BMDL=Below Method Detection Limit NO=Parameter not detected "-"=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		B SZ4 891013 HA1564	B SZ5 891013 HA1565	B SZ5 891018 HA1920	B SI0 891018 HA1544	B SI1 891018 HA1545	B SI4 891018 HA1552	B SI5 891018 HA1553	B SI2 891018 HA1566
Thallium	ug/kg	800	900	-	960	1500	1100	-	1300
Zinc	ug/kg	250000	240000	-	310000	190000	300000	-	270000
Aroclors by GC									
Aroclor 1242	ug/kg	< 700	< 900	-	< 1000	< 800	< 2000	< 1000	< 1000
Aroclor 1254	ug/kg	< 1000	< 2000	-	< 3000	< 2000	< 3000	< 2000	< 3000
Aroclor 1260	ug/kg	< 1000	< 2000	-	< 3000	< 2000	< 3000	< 2000	< 3000
Aroclor 1248	ug/kg	< 700	< 900	-	< 1000	< 800	< 2000	< 1000	< 1000
Aroclor 1232	ug/kg	< 700	< 900	-	< 1000	< 800	< 2000	< 1000	< 1000
Aroclor 1221	ug/kg	< 700	< 900	-	< 1000	< 800	< 2000	< 1000	< 1000
Aroclor 1016	ug/kg	< 700	< 900	-	< 1000	< 800	< 2000	< 1000	< 1000
Miscellaneous Parameters									
Ammonia as N	mg/kg	26.7	-	119	184	46.1	229	174	164
Chemical Oxygen Demand (COD)	mg/kg	53000	-	82400	116000	62700	110000	110000	107000
Nitrate+Nitrite	mg/kg	4.7	-	1.7	10.7	4.4	10.4	5.7	7.3

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	Units	Sample Points, Sampling Dates, and ETC Sample No.'s							
		B S13 891018 HA1567	B S30 891018 HA1687	B S16 891018 HA1688	B S9 891018 HA1689	B S9DUP 891018 HA1690	B S12 891027 HA1755	B S13 891027 HA1756	B S14 891027 HA1757
Priority Poll. Volatiles GC/MS									
Acrolein	ug/kg	-	-	-	-	-	-	-	-
Acrylonitrile	ug/kg	-	-	-	-	-	-	-	-
Benzene	ug/kg	< 4	< 4	< 20	< 4	< 4.40	< 4	.99	1.0
bis(Chloromethyl)ether	ug/kg	-	-	-	-	-	-	-	-
Bromoform	ug/kg	< 5	< 5	< 20	< 5	< 5	< 5	< 5	< 5
Carbon tetrachloride	ug/kg	< 3	< 3	< 10	< 3	< 3	< 3	< 3	< 3
Chlorobenzene	ug/kg	< 6	< 6	< 30	< 6	< 6	< 6	< 6.00	< 6.00
Chlorodibromomethane	ug/kg	< 3	< 3	< 20	< 3	< 3	< 3	< 3	< 3
Chloroethane	ug/kg	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10
2-Chloroethylvinyl ether	ug/kg	-	-	-	-	-	-	-	-
Chloroform	ug/kg	< 2	< 2	< 8	< 2	< 2	< 2	< 1.60	< 2
Dichlorobromomethane	ug/kg	< 2	< 2	< 10	< 2	< 2	< 2	< 2	< 2
Dichlorodifluoromethane	ug/kg	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10
1,1-Dichloroethane	ug/kg	< 5	< 5	< 20	< 5	< 5	< 5	< 5	< 5
1,2-Dichloroethane	ug/kg	< 3	< 3	< 10	< 3	< 3	< 3	< 3	< 3
1,1-Dichloroethylene	ug/kg	< 3	< 3	< 10	< 3	< 3	< 3	< 3	< 3
1,2-Dichloropropane	ug/kg	< 6	< 6	< 30	< 6	< 6	< 6	< 6	< 6
cis-1,3-Dichloropropylene	ug/kg	< 5	< 5	< 30	< 5	< 5	< 5	< 5	< 5
Ethylbenzene	ug/kg	< 7	< 7	< 40	< 7	< 7	< 7	< 7.20	< 7
Methyl bromide	ug/kg	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10
Methyl chloride	ug/kg	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10
Methylene chloride	ug/kg	7.76	8.82	493	10.6	11.9	16.3	16.6	14.6
1,1,2,2-Tetrachloroethane	ug/kg	< 7	< 7	< 30	< 6.90	< 7	< 7	< 7	< 7
Tetrachloroethylene	ug/kg	< 4	< 4	< 20	< 4	< 4	< 4	< 4.10	< 4
Toluene	ug/kg	< 6.00	< 6.00	< 30.0	< 6.00	1.4	1.3	< 6.00	.97
1,2-Trans-dichloroethylene	ug/kg	< 2	< 2	< 8	< 1.60	1.61	< 2	1.98	2.94
1,1,1-Trichloroethane	ug/kg	< 4	< 4	< 20	< 4	< 4	< 4	< 4	< 4
1,1,2-Trichloroethane	ug/kg	< 5	< 5	< 30	< 5	< 5	< 5	< 5	< 5
Trichloroethylene	ug/kg	< 2	< 2	< 10	< 2	< 2	< 2	< 1.90	< 1.90
Trichlorofluoromethane	ug/kg	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10
Vinyl chloride	ug/kg	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10
trans-1,3-Dichloropropylene	ug/kg	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		B S13 891018 HA1567	B S30 891018 HA1687	B S16 891018 HA1688	B S9 891018 HA1689	B S9DUP 891018 HA1690	B S12 891027 HA1755	B S13 891027 HA1756	B S14 891027 HA1757
Priority Poll. Acids GC/MS									
2-Chlorophenol	ug/kg	< 4000	< 7000	< 5000	< 7000	< 4000	-	-	-
2,4-Dichlorophenol	ug/kg	< 3000	< 5000	< 4000	< 6000	< 3000	-	-	-
2,4-Dimethylphenol	ug/kg	< 3000	< 5000	< 4000	< 6000	< 3000	-	-	-
4,6-Dinitro-o-cresol	ug/kg	<30000	<50000	<30000	<50000	<30000	-	-	-
2,4-Dinitrophenol	ug/kg	<50000	<80000	<60000	<90000	<50000	-	-	-
2-Nitrophenol	ug/kg	< 5000	< 7000	< 5000	< 8000	< 4000	-	-	-
4-Nitrophenol	ug/kg	< 3000	< 5000	< 3000	< 5000	< 3000	-	-	-
p-Chloro-m-cresol	ug/kg	< 4000	< 6000	< 4000	< 7000	< 4000	-	-	-
Pentachlorophenol	ug/kg	< 5000	< 7000	< 5000	< 8000	< 4000	-	-	-
Phenol	ug/kg	< 2000	< 3000	< 2000	< 3000	< 2000	-	-	-
2,4,6-Trichlorophenol	ug/kg	< 3000	< 5000	< 4000	< 6000	< 3000	-	-	-
Priority Poll. B/Ns GC/MS									
Acenaphthene	ug/kg	< 2000	< 4000	< 3000	< 4000	< 2000	-	-	-
Acenaphthylene	ug/kg	< 4000	< 7000	< 5000	< 8000	< 4000	-	-	-
Anthracene	ug/kg	< 2000	< 3750	< 3000	< 4000	< 2000	-	-	-
Benzidine	ug/kg	-	-	-	-	-	-	-	-
Benzo(a)anthracene	ug/kg	<10000	<15400	<10000	<17400	<10000	-	-	-
Benzo(a)pyrene	ug/kg	< 3000	< 4940	< 4000	< 5580	< 3060	-	-	-
Benzo(b)fluoranthene	ug/kg	< 6000	< 9490	< 7000	2000	< 5870	-	-	-
Benzo(ghi)perylene	ug/kg	< 5000	< 8000	< 6000	< 9000	< 5000	-	-	-
Benzo(k)fluoranthene	ug/kg	< 3000	< 4940	< 4000	< 5580	< 3060	-	-	-
bis(2-Chloroethoxy)methane	ug/kg	< 7000	<10000	< 8000	<10000	< 6000	-	-	-
bis(2-Chloroethyl) ether	ug/kg	< 7000	<10000	< 8000	<10000	< 7000	-	-	-
bis(2-Chloroisopropyl)ether	ug/kg	< 7000	<10000	< 8000	<10000	< 7000	-	-	-
bis(2-Ethylhexyl)phthalate	ug/kg	<10000	<19800	<10000	<20000	<10000	-	-	-
4-Bromophenyl phenyl ether	ug/kg	< 2000	< 4000	< 3000	< 4240	< 2000	-	-	-
Butyl benzyl phthalate	ug/kg	<10000	<20000	<10000	<20000	<10000	-	-	-
2-Chloronaphthalene	ug/kg	< 2000	< 4000	< 3000	< 4000	< 2000	-	-	-
4-Chlorophenyl phenyl ether	ug/kg	< 5000	< 8000	< 6000	< 9000	< 5000	-	-	-
Chrysene	ug/kg	< 3000	< 4940	< 4000	< 5580	< 3000	-	-	-
Dibenzo(a,h)anthracene	ug/kg	<10000	<20000	<10000	<20000	<10000	-	-	-
1,2-Dichlorobenzene	ug/kg	< 2000	< 4000	< 3000	< 4000	< 2000	-	-	-

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	Units	B S13 891018 HA1567	B S30 891018 HA1687	B S16 891018 HA1688	B S9 891018 HA1689	B S9DUP 891018 HA1690	B S12 891027 HA1755	B S13 891027 HA1756	B S14 891027 HA1757
		Sample Points, Sampling Dates, and ETC Sample No.'s							
1,3-Dichlorobenzene	ug/kg	< 2000	< 4000	< 3000	< 4000	< 2000	-	-	-
1,4-Dichlorobenzene	ug/kg	< 6000	< 9000	< 6000	<10000	< 5000	-	-	-
3,3'-Dichlorobenzidine	ug/kg	<20000	<30000	<20000	<40000	<20000	-	-	-
Diethyl phthalate	ug/kg	<10000	<20000	<10000	<20000	<10000	-	-	-
Dimethyl phthalate	ug/kg	<10000	<20000	<10000	<20000	<10000	-	-	-
Di-n-butyl phthalate	ug/kg	<10000	<20000	<10000	<20000	<10000	-	-	-
2,4-Dinitrotoluene	ug/kg	< 7000	<10000	< 8000	<10000	< 7000	-	-	-
2,6-Dinitrotoluene	ug/kg	< 2000	< 4000	< 3000	< 4000	< 2000	-	-	-
Di-n-octyl phthalate	ug/kg	<10000	<20000	<10000	<20000	<10000	-	-	-
1,2-Diphenylhydrazine	ug/kg	-	-	-	-	-	-	-	-
Fluoranthene	ug/kg	< 3000	3400	< 3000	3700	1900	-	-	-
Fluorene	ug/kg	< 2000	< 4000	< 3000	< 4000	< 2000	-	-	-
Hexachlorobenzene	ug/kg	< 2000	< 4000	< 3000	< 4000	< 2000	-	-	-
Hexachlorobutadiene	ug/kg	< 1000	< 2000	< 1000	< 2000	< 1000	-	-	-
Hexachlorocyclopentadiene	ug/kg	<10000	<20000	<10000	<20000	<10000	-	-	-
Hexachloroethane	ug/kg	< 2000	< 3000	< 2000	< 4000	< 2000	-	-	-
Indeno(1,2,3-c,d)pyrene	ug/kg	< 6000	< 9000	< 7000	<10000	< 6000	-	-	-
Isophorone	ug/kg	< 3000	< 4000	< 3000	< 5000	< 3000	-	-	-
Naphthalene	ug/kg	< 2000	< 3000	< 2000	< 4000	< 2000	-	-	-
Nitrobenzene	ug/kg	< 2000	< 4000	< 3000	< 4000	< 2000	-	-	-
N-Nitrosodimethylamine	ug/kg	<10000	<20000	<10000	<20000	<10000	-	-	-
N-Nitrosodi-n-propylamine	ug/kg	<10000	<20000	<10000	<20000	<10000	-	-	-
N-Nitrosodiphenylamine	ug/kg	< 2000	< 4000	< 3000	< 4000	< 2000	-	-	-
Phenanthrene	ug/kg	< 7000	1900	< 8000	<10000	< 7000	-	-	-
Pyrene	ug/kg	< 2000	3700	< 3000	3600	1800	-	-	-
1,2,4-Trichlorobenzene	ug/kg	< 2000	< 4000	< 3000	< 4000	< 2000	-	-	-
Priority Poll. Pest/PCBs GC/MS									
Aldrin	ug/kg	< 100	< 100	< 70	< 100	< 6	-	-	-
Alpha-BHC	ug/kg	< 100	< 100	< 70	< 100	< 6	-	-	-
Beta-BHC	ug/kg	< 100	< 100	< 70	< 100	< 6	-	-	-
Gamma-BHC	ug/kg	< 100	< 100	< 70	< 100	< 6	-	-	-
Delta-BHC	ug/kg	< 100	< 100	< 70	< 100	< 6	-	-	-
Chlordane	ug/kg	< 3000	< 2000	< 1000	< 2000	< 100	-	-	-
4,4'-DDT	ug/kg	< 300	< 200	< 100	< 200	< 10	-	-	-
4,4'-DDE	ug/kg	< 300	< 200	< 100	< 200	< 10	-	-	-

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below ETC Sample No.	Company	Facility	See Below Sample Point	Date
	WASTE MANAGEMENT, INC.	705		

Parameters	Units	Sample Points, Sampling Dates, and ETC Sample No.'s							
		B S13 891018 HA1567	B S30 891018 HA1687	B S16 891018 HA1688	B S9 891018 HA1689	B S9DUP 891018 HA1690	B S12 891027 HA1755	B S13 891027 HA1756	B S14 891027 HA1757
4,4'-DDD	ug/kg	< 300	< 200	< 100	< 200	< 10	-	-	-
Dieldrin	ug/kg	< 300	< 200	< 100	< 200	< 10	-	-	-
Endosulfan I	ug/kg	< 100	< 100	< 70	< 100	< 6	-	-	-
Endosulfan II	ug/kg	< 300	< 200	< 100	< 200	< 10	-	-	-
Endosulfan sulfate	ug/kg	< 300	< 200	< 100	< 200	< 10	-	-	-
Endrin	ug/kg	< 300	< 200	< 100	< 200	< 10	-	-	-
Endrin aldehyde	ug/kg	< 300	< 200	< 100	< 200	< 10	-	-	-
Heptachlor	ug/kg	< 100	< 100	< 70	< 100	< 6	-	-	-
Heptachlor epoxide	ug/kg	< 100	< 100	< 70	< 100	< 6	-	-	-
Toxaphene	ug/kg	< 5000	< 4000	< 3000	< 4000	< 200	-	-	-
Groundwater Conventionals									
Chloride	mg/kg	188	62.4	27.2	58.7	57.6	-	-	-
Sulfate as SO4	mg/kg	485	< 102	< 70.0	< 112	161	-	-	-
Phenolics, Total	mg/kg	< 2.4	< 1.9	< 1.5	< 2.2	< 2.2	-	-	-
Cyanide, Total	mg/kg	< 1.26	< .95	< .70	< 1.05	< 1.11	-	-	-
pH	std	7.86	8.04	8.46	7.98	7.64	-	-	-
pH	std	7.86	8.04	8.47	7.99	7.66	-	-	-
Metals Analysis Data									
Antimony	ug/kg	9000	6400	3100	4300	4900	-	-	-
Arsenic	ug/kg	12000	16000	27000	18000	19000	-	-	-
Beryllium	ug/kg	1000	1200	280	780	760	-	-	-
Cadmium	ug/kg	2000	3100	880	1900	2100	-	-	-
Calcium	ug/kg	64500000	57000000	29500000	62500000	63100000	-	-	-
Chromium	ug/kg	38000	72000	9200	31000	31000	-	-	-
Copper	ug/kg	56000	64000	25000	53000	54000	-	-	-
Lead	ug/kg	150000	130000	33000	120000	120000	-	-	-
Magnesium	ug/kg	22700000	18500000	15200000	29000000	29100000	-	-	-
Mercury	ug/kg	290	220	96	270	210	-	-	-
Nickel	ug/kg	39000	37000	13000	32000	33000	-	-	-
Potassium	ug/kg	2200000	1400000	630000	2100000	1800000	-	-	-
Selenium	ug/kg	500	570	< 700	340	290	-	-	-
Silver	ug/kg	1800	2400	1200	2200	2400	-	-	-
Sodium	ug/kg	400000	320000	100000	230000	230000	-	-	-

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

DATE: 10/14/93
PAGE: 25

Chain of Custody Data Required for ETC Data Management Summary Report

See Below — *ETC Sample No.* | WASTE MANAGEMENT, INC. — *Company* | 705 — *Facility* | See Below — *Sample Point* | *Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		B ST3 891018 HA1567	B S30 891018 HA1687	B S16 891018 HA1688	B S9 891018 HA1689	B S9DUP 891018 HA1690	B ST2 891027 HA1755	B ST3 891027 HA1756	B ST4 891027 HA1757
Thallium	ug/kg	1100	1200	650	970	1100	-	-	-
Zinc	ug/kg	310000	420000	130000	270000	280000	-	-	-
Aroclors by GC									
Aroclor 1242	ug/kg	< 1000	< 1000	< 700	< 1000	< 60	-	-	-
Aroclor 1254	ug/kg	< 3000	< 2000	< 1000	< 2000	< 100	-	-	-
Aroclor 1260	ug/kg	< 3000	< 2000	< 1000	< 2000	< 100	-	-	-
Aroclor 1248	ug/kg	< 1000	< 1000	< 700	< 1000	< 60	-	-	-
Aroclor 1232	ug/kg	< 1000	< 1000	< 700	< 1000	< 60	-	-	-
Aroclor 1221	ug/kg	< 1000	< 1000	< 700	< 1000	< 60	-	-	-
Aroclor 1016	ug/kg	< 1000	< 1000	< 700	< 1000	< 60	-	-	-
Miscellaneous Parameters									
Ammonia as N	mg/kg	192	164	21.1	137	130	-	-	-
Chemical Oxygen Demand (COD)	mg/kg	110000	111000	50000	93000	76700	-	-	-
Nitrate+Nitrite	mg/kg	4.2	6.7	3.6	3.6	9.9	-	-	-

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below				See Below	
ETC Sample No.		*Company*	*Facility*	*Sample Point*	*Date*
		WASTE MANAGEMENT, INC.	705		

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		B S15 891027 HA1758							
Priority Poll. Volatiles GC/MS									
Acrolein	ug/kg	-							
Acrylonitrile	ug/kg	-							
Benzene	ug/kg	< 4.40							
bis(Chloromethyl)ether	ug/kg	-							
Bromoform	ug/kg	< 5							
Carbon tetrachloride	ug/kg	< 3							
Chlorobenzene	ug/kg	< 6							
Chlorodibromomethane	ug/kg	< 3							
Chloroethane	ug/kg	< 10							
2-Chloroethylvinyl ether	ug/kg	-							
Chloroform	ug/kg	< 2							
Dichlorobromomethane	ug/kg	< 2							
Dichlorodifluoromethane	ug/kg	< 10							
1,1-Dichloroethane	ug/kg	< 5							
1,2-Dichloroethane	ug/kg	< 3							
1,1-Dichloroethylene	ug/kg	< 3							
1,2-Dichloropropane	ug/kg	< 6							
cis-1,3-Dichloropropylene	ug/kg	< 5							
Ethylbenzene	ug/kg	.86							
Methyl bromide	ug/kg	< 10							
Methyl chloride	ug/kg	< 10							
Methylene chloride	ug/kg	11.5							
1,1,2,2-Tetrachloroethane	ug/kg	< 7							
Tetrachloroethylene	ug/kg	< 4							
Toluene	ug/kg	.66							
1,2-Trans-dichloroethylene	ug/kg	11.9							
1,1,1-Trichloroethane	ug/kg	< 4							
1,1,2-Trichloroethane	ug/kg	< 5							
Trichloroethylene	ug/kg	< 1.90							
Trichlorofluoromethane	ug/kg	< 10							
Vinyl chloride	ug/kg	< 10							
trans-1,3-Dichloropropylene	ug/kg	< 10							

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		B S15 891027 HA1758							
Priority Poll. Acids GC/MS									
2-Chlorophenol	ug/kg	-							
2,4-Dichlorophenol	ug/kg	-							
2,4-Dimethylphenol	ug/kg	-							
4,6-Dinitro-o-cresol	ug/kg	-							
2,4-Dinitrophenol	ug/kg	-							
2-Nitrophenol	ug/kg	-							
4-Nitrophenol	ug/kg	-							
p-Chloro-m-cresol	ug/kg	-							
Pentachlorophenol	ug/kg	-							
Phenol	ug/kg	-							
2,4,6-Trichlorophenol	ug/kg	-							
Priority Poll. B/Ns GC/MS									
Acenaphthene	ug/kg	-							
Acenaphthylene	ug/kg	-							
Anthracene	ug/kg	-							
Benzidine	ug/kg	-							
Benzo(a)anthracene	ug/kg	-							
Benzo(a)pyrene	ug/kg	-							
Benzo(b)fluoranthene	ug/kg	-							
Benzo(ghi)perylene	ug/kg	-							
Benzo(k)fluoranthene	ug/kg	-							
bis(2-Chloroethoxy)methane	ug/kg	-							
bis(2-Chloroethyl) ether	ug/kg	-							
bis(2-Chloroisopropyl)ether	ug/kg	-							
bis(2-Ethylhexyl)phthalate	ug/kg	-							
4-Bromophenyl phenyl ether	ug/kg	-							
Butyl benzyl phthalate	ug/kg	-							
2-Chloronaphthalene	ug/kg	-							
4-Chlorophenyl phenyl ether	ug/kg	-							
Chrysene	ug/kg	-							
Dibenzo(a,h)anthracene	ug/kg	-							
1,2-Dichlorobenzene	ug/kg	-							

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

DATE: 10/14/93
PAGE: 28

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		B S15 891027 HA1758							
1,3-Dichlorobenzene	ug/kg	-							
1,4-Dichlorobenzene	ug/kg	-							
3,3'-Dichlorobenzidine	ug/kg	-							
Diethyl phthalate	ug/kg	-							
Dimethyl phthalate	ug/kg	-							
Di-n-butyl phthalate	ug/kg	-							
2,4-Dinitrotoluene	ug/kg	-							
2,6-Dinitrotoluene	ug/kg	-							
Di-n-octyl phthalate	ug/kg	-							
1,2-Diphenylhydrazine	ug/kg	-							
Fluoranthene	ug/kg	-							
Fluorene	ug/kg	-							
Hexachlorobenzene	ug/kg	-							
Hexachlorobutadiene	ug/kg	-							
Hexachlorocyclopentadiene	ug/kg	-							
Hexachloroethane	ug/kg	-							
Indeno(1,2,3-c,d)pyrene	ug/kg	-							
Isophorone	ug/kg	-							
Naphthalene	ug/kg	-							
Nitrobenzene	ug/kg	-							
N-Nitrosodimethylamine	ug/kg	-							
N-Nitrosodi-n-propylamine	ug/kg	-							
N-Nitrosodiphenylamine	ug/kg	-							
Phenanthrene	ug/kg	-							
Pyrene	ug/kg	-							
1,2,4-Trichlorobenzene	ug/kg	-							
Priority Poll. Pest/PCBs GC/MS									
Aldrin	ug/kg	-							
Alpha-BHC	ug/kg	-							
Beta-BHC	ug/kg	-							
Gamma-BHC	ug/kg	-							
Delta-BHC	ug/kg	-							
Chlordane	ug/kg	-							
4,4'-DDT	ug/kg	-							
4,4'-DDE	ug/kg	-							

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		B S15 891027 HA1758							
4,4'-DDD	ug/kg	-							
Dieldrin	ug/kg	-							
Endosulfan I	ug/kg	-							
Endosulfan II	ug/kg	-							
Endosulfan sulfate	ug/kg	-							
Endrin	ug/kg	-							
Endrin aldehyde	ug/kg	-							
Heptachlor	ug/kg	-							
Heptachlor epoxide	ug/kg	-							
Toxaphene	ug/kg	-							
Groundwater Conventionals									
Chloride	mg/kg	-							
Sulfate as SO4	mg/kg	-							
Phenolics, Total	mg/kg	-							
Cyanide, Total	mg/kg	-							
pH	std	-							
pH	std	-							
Metals Analysis Data									
Antimony	ug/kg	13000							
Arsenic	ug/kg	17000							
Beryllium	ug/kg	860							
Cadmium	ug/kg	2700							
Calcium	ug/kg	-							
Chromium	ug/kg	36000							
Copper	ug/kg	65000							
Lead	ug/kg	170000							
Magnesium	ug/kg	-							
Mercury	ug/kg	320							
Nickel	ug/kg	40000							
Potassium	ug/kg	-							
Selenium	ug/kg	720							
Silver	ug/kg	2100							
Sodium	ug/kg	-							

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		B S15 891027 HA1758							
Thallium	ug/kg	540							
Zinc	ug/kg	310000							
Aroclors by GC									
Aroclor 1242	ug/kg	-							
Aroclor 1254	ug/kg	-							
Aroclor 1260	ug/kg	-							
Aroclor 1248	ug/kg	-							
Aroclor 1232	ug/kg	-							
Aroclor 1221	ug/kg	-							
Aroclor 1016	ug/kg	-							
Miscellaneous Parameters									
Ammonia as N	mg/kg	-							
Chemical Oxygen Demand (COD)	mg/kg	-							
Nitrate+Nitrite	mg/kg	-							

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		S C-4-5 910925 HA6084	S C-4-15 910925 HA6085	S C-4-40 910925 HA6086	S C-6-5 910930 HA6090	S C-6-15 910930 HA6091	S C-6-40 910930 HA6092	S C-2-5 911002 HA6096	S C-2-15 911002 HA6097
1,4-Dichlorobenzene	ug/kg	< 500	< 600	< 500	< 500	< 500	< 500	< 500	< 500
3,3'-Dichlorobenzidine	ug/kg	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000
Diethyl phthalate	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1180	< 1000
Dimethyl phthalate	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
Di-n-butyl phthalate	ug/kg	6910	4090	4460	4660	2840	2020	6080	6580
2,4-Dinitrotoluene	ug/kg	< 700	< 700	< 600	< 600	< 700	< 600	< 700	< 700
2,6-Dinitrotoluene	ug/kg	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200
Di-n-octyl phthalate	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
Fluoranthene	ug/kg	< 300	< 300	< 200	< 200	< 300	< 200	< 300	< 300
Fluorene	ug/kg	< 200	< 200	< 200	< 200	< 200	< 200	< 224	< 200
Hexachlorobenzene	ug/kg	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200
Hexachlorobutadiene	ug/kg	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
Hexachlorocyclopentadiene	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
Hexachloroethane	ug/kg	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200
Indeno(1,2,3-c,d)pyrene	ug/kg	< 500	< 500	< 400	< 400	< 400	< 400	< 400	< 400
Isophorone	ug/kg	< 300	< 300	< 200	< 200	< 300	< 200	< 300	< 265
Naphthalene	ug/kg	< 200	< 200	< 200	< 200	< 200	< 200	< 188	< 200
Nitrobenzene	ug/kg	< 200	< 200	< 200	< 200	< 200	< 200	< 224	< 200
N-Nitrosodimethylamine	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
N-Nitrosodi-n-propylamine	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1180	< 1200
N-Nitrosodiphenylamine	ug/kg	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 229
Phenanthrene	ug/kg	< 700	< 700	350	< 600	< 600	< 600	< 635	430
Pyrene	ug/kg	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200
1,2,4-Trichlorobenzene	ug/kg	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200
Metals Analysis Data									
Antimony	ug/kg	< 7300	< 7500	< 6700	< 7400	< 7000	< 6600	< 7100	< 7200
Arsenic	ug/kg	8500	16000	11000	9600	16000	11000	6700	15000
Barium	ug/kg	50000	13000	27000	43000	12000	23000	46000	11000
Beryllium	ug/kg	690	380	630	660	410	570	670	440
Cadmium	ug/kg	3100	3400	3400	3300	3700	3400	2900	3500
Chromium	ug/kg	18000	8600	15000	17000	8600	14000	17000	9300
Cobalt	ug/kg	9200	13000	12000	13000	12000	12000	11000	13000
Copper	ug/kg	21000	42000	29000	32000	46000	34000	26000	50000
Lead	ug/kg	10000	24000	31000	16000	23000	16000	13000	20000
Mercury	ug/kg	< 98	< 100	< 89	< 98	< 94	< 88	< 95	< 96

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

PHASE II

SEDIMENT SAMPLE RESULTS

- APPENDIX K -

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		B S-6 911108 HA6672	B S-8 911108 HA6681	B S-7 911113 HA6673	B S-9 911113 HA6674	B S-1 911113 HA6678	B S-10 911113 HA6679	B S-5 911114 HA6675	B S-4 911114 HA6676
Priority Poll. Volatiles GC/MS									
Benzene	ug/kg	< 6	< 5	< 6	< 6.11	< 6	< 6	7.61	13.0
Bromoform	ug/kg	< 7	< 5	< 6	< 7	< 6	< 6	< 6	< 6
Carbon tetrachloride	ug/kg	< 4	< 3	< 4	< 4	< 4	< 4	< 3	< 4
Chlorobenzene	ug/kg	< 8	< 7	< 8	< 8	< 8	< 8	< 7	< 8
Chlorodibromomethane	ug/kg	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
Chloroethane	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Chloroethylvinyl ether	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Chloroform	ug/kg	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Dichlorobromomethane	ug/kg	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Dichlorodifluoromethane	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
1,1-Dichloroethane	ug/kg	< 7	< 5	< 6	< 7	< 6	< 6	< 6	< 6
1,2-Dichloroethane	ug/kg	< 4	< 3	< 4	< 4	< 4	< 4	< 3	< 4
1,1-Dichloroethylene	ug/kg	< 4	< 3	< 4	< 4	< 4	< 4	< 3	< 4
1,2-Dichloropropane	ug/kg	< 8	< 7	< 8	< 8	< 8	< 8	< 7	< 8
cis-1,3-Dichloropropylene	ug/kg	< 7	< 6	< 6	< 7	< 6	< 7	< 6	< 6
Ethylbenzene	ug/kg	< 10	< 8	< 9	< 10	< 9	< 10	< 9	< 9
Methyl bromide	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methyl chloride	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methylene chloride	ug/kg	< 4	< 3.22	< 4	< 4	< 3.50	< 3.73	< 3.41	< 3.59
1,1,2,2-Tetrachloroethane	ug/kg	< 10	< 8	< 9	< 10	< 9	< 9	< 8	< 9
Tetrachloroethylene	ug/kg	< 6	< 5	< 5	< 6	< 5	< 5	< 5	< 5
Toluene	ug/kg	< 8	< 7	< 8	< 8	< 8	< 8	< 7	< 8
1,2-Trans-dichloroethylene	ug/kg	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,1,1-Trichloroethane	ug/kg	< 5	< 4	< 5	< 5	< 5	< 5	< 5	< 5
1,1,2-Trichloroethane	ug/kg	< 7	< 6	< 6	< 7	< 6	< 7	< 6	< 6
Trichloroethylene	ug/kg	< 3	< 2	< 2	< 3	< 2	< 3	< 2	< 2
Trichlorofluoromethane	ug/kg	< 10	< 10	< 10	< 10	< 10	< 13.3	< 10	< 10
Vinyl chloride	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
trans-1,3-Dichloropropylene	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Priority Poll. Acids GC/MS									
2-Chlorophenol	ug/kg	< 5000	< 4000	< 4000	< 5000	< 4000	< 4000	< 4000	< 4000
2,4-Dichlorophenol	ug/kg	< 4000	< 3000	< 3000	< 4000	< 3000	< 4000	< 3000	< 3000

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

DATE: 10/14/93
PAGE: 2

Chain of Custody Data Required for ETC Data Management Summary Report

See Below				See Below	
ETC Sample No.	WASTE MANAGEMENT, INC.		705	*Sample Point*	*Date*
	Company		*Facility*		

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		B S-6 911108 HA6672	B S-8 911108 HA6681	B S-7 911113 HA6673	B S-9 911113 HA6674	B S-1 911113 HA6678	B S-10 911113 HA6679	B S-5 911114 HA6675	B S-4 911114 HA6676
2,4-Dimethylphenol	ug/kg	< 4000	< 3000	< 3000	< 4000	< 3000	< 4000	< 3000	< 3000
4,6-Dinitro-o-cresol	ug/kg	<30000	<30000	<30000	<30000	<30000	<30000	<30000	<30000
2,4-Dinitrophenol	ug/kg	<60000	<50000	<50000	<60000	<50000	<60000	<50000	<50000
2-Nitrophenol	ug/kg	< 5000	< 4000	< 5000	< 5000	< 5000	< 5000	< 4000	< 5000
4-Nitrophenol	ug/kg	< 3000	< 3000	< 3000	< 3000	< 3000	< 3000	< 3000	< 3000
p-Chloro-m-cresol	ug/kg	< 4000	< 3000	< 4000	< 4000	< 4000	< 4000	< 4000	< 4000
Pentachlorophenol	ug/kg	< 5000	< 4000	< 5000	< 5000	< 5000	< 5000	< 4000	< 5000
Phenol	ug/kg	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000
2,4,6-Trichlorophenol	ug/kg	< 4000	< 3000	< 3000	< 4000	< 3000	< 4000	< 3000	< 3000
Priority Poll. B/Ns GC/MS									
Acenaphthene	ug/kg	< 3000	< 2000	< 2000	< 3000	< 2000	< 3000	< 2000	< 2000
Acenaphthylene	ug/kg	< 5000	< 4000	< 4000	< 5000	< 4000	< 5000	< 4000	< 4000
Anthracene	ug/kg	< 3000	< 2000	< 2000	< 3000	2100	< 3000	< 2000	< 2000
Benzo(a)anthracene	ug/kg	<10000	< 9000	<10000	<10000	6000	3100	<10000	<10000
Benzo(a)pyrene	ug/kg	< 4000	< 3000	< 3000	< 3000	4740	< 3000	< 3000	< 3000
Benzo(b)fluoranthene	ug/kg	< 7000	< 6000	< 6000	< 7000	9290	3100	< 6000	< 6000
Benzo(ghi)perylene	ug/kg	< 6000	< 5000	< 5000	< 6000	4300	< 5000	< 5000	< 5000
Benzo(k)fluoranthene	ug/kg	< 4000	< 3000	< 3000	< 3000	3600	< 3000	< 3000	< 3000
bis(2-Chloroethoxy)methane	ug/kg	< 7000	< 6000	< 7000	< 7000	< 7000	< 7000	< 6000	< 7000
bis(2-Chloroethyl) ether	ug/kg	< 8000	< 7000	< 7000	< 8000	< 7000	< 8000	< 7000	< 7000
bis(2-Chloroisopropyl)ether	ug/kg	< 8000	< 7000	< 7000	< 8000	< 7000	< 8000	< 7000	< 7000
bis(2-Ethylhexyl)phthalate	ug/kg	<10000	<10000	<10000	<10000	<10000	<10000	<10000	<10000
4-Bromophenyl phenyl ether	ug/kg	< 3000	< 2000	< 2000	< 3000	< 2000	< 3000	< 2000	< 2000
Butyl benzyl phthalate	ug/kg	<10000	<10000	<10000	<10000	<10000	<10000	<10000	<10000
2-Chloronaphthalene	ug/kg	< 3000	< 2000	< 2000	< 3000	< 2000	< 3000	< 2000	< 2000
4-Chlorophenyl phenyl ether	ug/kg	< 6000	< 5000	< 5000	< 6000	< 5000	< 6000	< 5000	< 5000
Chrysene	ug/kg	< 4000	< 3000	< 3000	< 3000	7160	3200	< 3000	< 3000
Dibenzo(a,h)anthracene	ug/kg	< 4000	< 3000	< 3000	< 3000	< 3000	< 3000	< 3000	< 3000
1,2-Dichlorobenzene	ug/kg	< 3000	< 2000	< 2000	< 3000	< 2000	< 3000	< 2000	< 2000
1,3-Dichlorobenzene	ug/kg	< 3000	< 2000	< 2000	< 3000	< 2000	< 3000	< 2000	< 2000
1,4-Dichlorobenzene	ug/kg	< 6000	< 5000	< 6000	< 6000	< 6000	< 6000	< 5000	< 6000
3,3'-Dichlorobenzidine	ug/kg	<20000	<20000	<20000	<20000	<20000	<20000	<20000	<20000
Diethyl phthalate	ug/kg	<10000	<10000	<10000	<10000	<10000	<10000	<10000	<10000
Dimethyl phthalate	ug/kg	<10000	<10000	<10000	<10000	<10000	<10000	<10000	<10000
Di-n-butyl phthalate	ug/kg	17900	9900	5000	<10000	<10000	2900	2500	5900

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		B S-6 911108 HA6672	B S-8 911108 HA6681	B S-7 911113 HA6673	B S-9 911113 HA6674	B S-1 911113 HA6678	B S-10 911113 HA6679	B S-5 911114 HA6675	B S-4 911114 HA6676
2,4-Dinitrotoluene	ug/kg	< 8000	< 7000	< 7000	< 8000	< 7000	< 8000	< 7000	< 7000
2,6-Dinitrotoluene	ug/kg	< 3000	< 2000	< 2000	< 3000	< 2000	< 3000	< 2000	< 2000
Di-n-octyl phthalate	ug/kg	<10000	<10000	<10000	<10000	<10000	<10000	<10000	<10000
Fluoranthene	ug/kg	3390	< 3000	< 3000	< 3000	16100	8070	< 3000	1500
Fluorene	ug/kg	< 3000	< 2000	< 2000	< 3000	< 2000	< 3000	< 2000	< 2000
Hexachlorobenzene	ug/kg	< 3000	< 2000	< 2000	< 3000	< 2000	< 3000	< 2000	< 2000
Hexachlorobutadiene	ug/kg	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000
Hexachlorocyclopentadiene	ug/kg	<10000	<10000	<10000	<10000	<10000	<10000	<10000	<10000
Hexachloroethane	ug/kg	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000
Indeno(1,2,3-c,d)pyrene	ug/kg	< 5000	< 4000	< 5000	< 5000	4500	< 5000	< 5000	< 5000
Isophorone	ug/kg	< 3000	< 3000	< 3000	< 3000	< 3000	< 3000	< 3000	< 3000
Naphthalene	ug/kg	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000
Nitrobenzene	ug/kg	< 3000	< 2000	< 2000	< 3000	< 2000	< 3000	< 2000	< 2000
N-Nitrosodimethylamine	ug/kg	<10000	<10000	<10000	<10000	<10000	<10000	<10000	<10000
N-Nitrosodi-n-propylamine	ug/kg	<10000	<10000	<10000	<10000	<10000	<10000	<10000	<10000
N-Nitrosodiphenylamine	ug/kg	< 3000	< 2000	< 2000	< 3000	< 2000	< 3000	< 2000	< 2000
Phenanthrene	ug/kg	3100	1300	1600	< 8000	10100	4500	1400	< 7000
Pyrene	ug/kg	3300	< 2000	1600	< 3000	12400	5970	1400	2200
1,2,4-Trichlorobenzene	ug/kg	< 3000	< 2000	< 2000	< 3000	< 2000	< 3000	< 2000	< 2000
Metals Analysis Data									
Antimony	ug/kg	< 8500	2300	< 7800	< 8400	< 7600	7600	12000	6700
Arsenic	ug/kg	6500	7900	11000	17000	16000	32000	8100	14000
Beryllium	ug/kg	930	470	610	560	1100	1100	1600	1600
Cadmium	ug/kg	4100	2100	2500	2200	3600	4900	6200	4500
Chromium	ug/kg	25000	139000	30000	13000	50000	21000	60000	100000
Copper	ug/kg	30000	12000	27000	65000	35000	60000	27000	24000
Lead	ug/kg	86000	41000	50000	120000	72000	400000	37000	33000
Mercury	ug/kg	68	56	< 100	67	< 100	150	< 98	< 100
Nickel	ug/kg	16000	5000	15000	12000	16000	16000	18000	18000
Selenium	ug/kg	< 3600	< 2900	< 1300	560	< 3200	< 3400	260	270
Silver	ug/kg	640	510	410	440	650	660	700	400
Thallium	ug/kg	< 1400	< 1200	470	620	490	340	540	570
Zinc	ug/kg	120000	35000	82000	120000	97000	499000	140000	140000

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		B S-3 911114 HA6677	B S-2 911115 HA6680						
Priority Poll. Volatiles GC/MS									
Benzene	ug/kg	< 6	< 5						
Bromoform	ug/kg	< 6	< 6						
Carbon tetrachloride	ug/kg	< 4	< 3						
Chlorobenzene	ug/kg	< 8	< 7						
Chlorodibromomethane	ug/kg	< 4	< 4						
Chloroethane	ug/kg	< 10	< 10						
2-Chloroethylvinyl ether	ug/kg	< 10	< 10						
Chloroform	ug/kg	< 2	< 1.93						
Dichlorobromomethane	ug/kg	< 3	< 3						
Dichlorodifluoromethane	ug/kg	< 10	< 12.0						
1,1-Dichloroethane	ug/kg	< 6	< 6						
1,2-Dichloroethane	ug/kg	< 4	< 3						
1,1-Dichloroethylene	ug/kg	< 4	< 3						
1,2-Dichloropropane	ug/kg	< 8	< 7						
cis-1,3-Dichloropropylene	ug/kg	< 6	< 6						
Ethylbenzene	ug/kg	< 9	< 9						
Methyl bromide	ug/kg	< 10	< 10						
Methyl chloride	ug/kg	< 10	< 10						
Methylene chloride	ug/kg	< 3.50	< 3.37						
1,1,2,2-Tetrachloroethane	ug/kg	< 9	< 8						
Tetrachloroethylene	ug/kg	< 5	< 5						
Toluene	ug/kg	< 8	< 7						
1,2-Trans-dichloroethylene	ug/kg	< 2	< 2						
1,1,1-Trichloroethane	ug/kg	< 5	< 5						
1,1,2-Trichloroethane	ug/kg	< 6	< 6						
Trichloroethylene	ug/kg	< 2	< 2						
Trichlorofluoromethane	ug/kg	< 10	< 12.0						
Vinyl chloride	ug/kg	< 10	< 10						
trans-1,3-Dichloropropylene	ug/kg	< 10	< 10						
Priority Poll. Acids GC/MS									
2-Chlorophenol	ug/kg	< 4000	< 4000						
2,4-Dichlorophenol	ug/kg	< 3000	< 3000						

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	Units	Sample Points, Sampling Dates, and ETC Sample No.'s							
		B S-3 911114 HA6677	B S-2 911115 HA6680						
2,4-Dimethylphenol	ug/kg	< 3000	< 3000						
4,6-Dinitro-o-cresol	ug/kg	<30000	<30000						
2,4-Dinitrophenol	ug/kg	<50000	<50000						
2-Nitrophenol	ug/kg	< 5000	< 4000						
4-Nitrophenol	ug/kg	< 3000	< 3000						
p-Chloro-m-cresol	ug/kg	< 4000	< 4000						
Pentachlorophenol	ug/kg	< 5000	< 4000						
Phenol	ug/kg	< 2000	< 2000						
2,4,6-Trichlorophenol	ug/kg	< 3000	< 3000						
Priority Poll. B/Ns GC/MS									
Acenaphthene	ug/kg	< 2000	< 2000						
Acenaphthylene	ug/kg	< 4000	< 4000						
Anthracene	ug/kg	< 2000	< 2000						
Benzo(a)anthracene	ug/kg	<10000	< 9000						
Benzo(a)pyrene	ug/kg	< 3000	< 3000						
Benzo(b)fluoranthene	ug/kg	< 6000	< 6000						
Benzo(ghi)perylene	ug/kg	< 5000	< 5000						
Benzo(k)fluoranthene	ug/kg	< 3000	< 3000						
bis(2-Chloroethoxy)methane	ug/kg	< 7000	< 6000						
bis(2-Chloroethyl) ether	ug/kg	< 7000	< 7000						
bis(2-Chloroisopropyl)ether	ug/kg	< 7000	< 7000						
bis(2-Ethylhexyl)phthalate	ug/kg	<10000	<10000						
4-Bromophenyl phenyl ether	ug/kg	< 2000	< 2000						
Butyl benzyl phthalate	ug/kg	<10000	<10000						
2-Chloronaphthalene	ug/kg	< 2000	< 2000						
4-Chlorophenyl phenyl ether	ug/kg	< 5000	< 5000						
Chrysene	ug/kg	< 3000	< 3000						
Dibenzo(a,h)anthracene	ug/kg	< 3000	< 3000						
1,2-Dichlorobenzene	ug/kg	< 2000	< 2000						
1,3-Dichlorobenzene	ug/kg	< 2000	< 2000						
1,4-Dichlorobenzene	ug/kg	< 6000	< 5000						
3,3'-Dichlorobenzidine	ug/kg	<20000	<20000						
Diethyl phthalate	ug/kg	<10000	<10000						
Dimethyl phthalate	ug/kg	<10000	<10000						
Di-n-butyl phthalate	ug/kg	3300	2300						

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

DATE: 10/14/93
PAGE: 6

Chain of Custody Data Required for ETC Data Management Summary Report

See Below				See Below
ETC Sample No.	WASTE MANAGEMENT, INC. *Company*	705 *Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		B S-3 911114 HA6677	B S-2 911115 HA6680						
2,4-Dinitrotoluene	ug/kg	< 7000	< 7000						
2,6-Dinitrotoluene	ug/kg	< 2000	< 2000						
Di-n-octyl phthalate	ug/kg	<10000	<10000						
Fluoranthene	ug/kg	2860	1600						
Fluorene	ug/kg	< 2000	< 2000						
Hexachlorobenzene	ug/kg	< 2000	< 2000						
Hexachlorobutadiene	ug/kg	< 1000	< 1000						
Hexachlorocyclopentadiene	ug/kg	<10000	<10000						
Hexachloroethane	ug/kg	< 2000	< 2000						
Indeno(1,2,3-c,d)pyrene	ug/kg	< 5000	< 4000						
Isophorone	ug/kg	< 3000	< 3000						
Naphthalene	ug/kg	< 2000	< 2000						
Nitrobenzene	ug/kg	< 2000	< 2000						
N-Nitrosodimethylamine	ug/kg	<10000	<10000						
N-Nitrosodi-n-propylamine	ug/kg	<10000	<10000						
N-Nitrosodiphenylamine	ug/kg	< 2000	< 2000						
Phenanthrene	ug/kg	2800	2000						
Pyrene	ug/kg	2400	1400						
1,2,4-Trichlorobenzene	ug/kg	< 2000	< 2000						
Metals Analysis Data									
Antimony	ug/kg	6500	< 7200						
Arsenic	ug/kg	13000	14000						
Beryllium	ug/kg	570	1200						
Cadmium	ug/kg	3100	6600						
Chromium	ug/kg	25000	198000						
Copper	ug/kg	27000	22000						
Lead	ug/kg	80000	48000						
Mercury	ug/kg	< 100	58						
Nickel	ug/kg	14000	12000						
Selenium	ug/kg	200	< 3000						
Silver	ug/kg	510	950						
Thallium	ug/kg	300	540						
Zinc	ug/kg	150000	74000						

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

PHASE I

SURFACE WATER SAMPLE RESULTS

- APPENDIX K -

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below ETC Sample No.	Company	Facility	See Below Sample Point	Date
	WASTE MANAGEMENT, INC.	705		

Parameters	Units	Sample Points, Sampling Dates, and ETC Sample No.'s							
		L SW1 891024 HA1580	L SW4 891024 HA1581	L SW2 891024 HA1582	L SW3 891024 HA1583	L SW4DUP 891024 HA1584	L SW5 891024 HA1585	K SURFWA01FB 891024 HA1586	K SURFWA01TB 891024 HA1765
Priority Poll. Volatiles GC/MS									
Benzene	ug/l	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
Bromoform	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Carbon tetrachloride	ug/l	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Chlorobenzene	ug/l	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Chlorodibromomethane	ug/l	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Chloroethane	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Chloroform	ug/l	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Dichlorobromomethane	ug/l	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Dichlorodifluoromethane	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0
1,1-Dichloroethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1,2-Dichloroethane	ug/l	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
1,1-Dichloroethylene	ug/l	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
1,2-Dichloropropane	ug/l	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
cis-1,3-Dichloropropylene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Ethylbenzene	ug/l	< 7	< 7	< 7	< 7	< 7	< 7	< 7	< 7
Methyl bromide	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methyl chloride	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methylene chloride	ug/l	< 3	< 3	2.96	2.82	3.17	8.69	8.49	5.89
1,1,2,2-Tetrachloroethane	ug/l	< 7	< 7	< 7	< 7	< 7	< 7	< 7	< 7
Tetrachloroethylene	ug/l	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
Toluene	ug/l	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
1,2-Trans-dichloroethylene	ug/l	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,1,1-Trichloroethane	ug/l	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
1,1,2-Trichloroethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Trichloroethylene	ug/l	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Trichlorofluoromethane	ug/l	< 10	< 10	< 10	7.4	2.9	< 10.0	< 10	< 10
Vinyl chloride	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
trans-1,3-Dichloropropylene	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Priority Poll. Acids GC/MS									
2-Chlorophenol	ug/l	< 4	< 4	< 3	< 3	< 4	< 3	< 4	-
2,4-Dichlorophenol	ug/l	< 3	< 3	< 3	< 3	< 3	< 3	< 3	-
2,4-Dimethylphenol	ug/l	< 3	< 3	< 3	< 3	< 3	< 3	< 3	-

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	Units	SW1 891024 HA1580	SW4 891024 HA1581	SW2 891024 HA1582	SW3 891024 HA1583	SW4DUP 891024 HA1584	SW5 891024 HA1585	SURFWAQTFBK 891024 HA1586	SURFWAQTTB 891024 HA1765
4,6-Dinitro-o-cresol	ug/l	< 30	< 30	< 20	< 20	< 30	< 20	< 30	-
2,4-Dinitrophenol	ug/l	< 50	< 50	< 40	< 40	< 50	< 40	< 50	-
2-Nitrophenol	ug/l	< 4	< 4	< 4	< 4	< 4	< 4	< 4	-
4-Nitrophenol	ug/l	< 3	< 3	< 2	< 2	< 3	< 2	< 3	-
p-Chloro-m-cresol	ug/l	< 3	< 3	< 3	< 3	< 3	< 3	< 3	-
Pentachlorophenol	ug/l	< 4	< 4	< 4	< 4	< 4	< 4	< 4	-
Phenol	ug/l	< 2	< 2	< 2	< 2	< 2	< 2	< 2	-
2,4,6-Trichlorophenol	ug/l	< 3	< 3	< 3	< 3	< 3	< 3	< 3	-
Priority Poll. B/Ns GC/MS									
Acenaphthene	ug/l	< 2	< 2	< 2	< 2	< 2	< 2	< 2	-
Acenaphthylene	ug/l	< 4	< 4	< 4	< 4	< 4	< 4	< 4	-
Anthracene	ug/l	< 2	< 2	< 2	< 2	< 2	< 2	< 2	-
Benzidine	ug/l	-	< 50	< 40	-	-	-	-	-
Benzo(a)anthracene	ug/l	< 9	< 8	< 8	< 8	< 8	< 8	< 8	-
Benzo(a)pyrene	ug/l	< 3	< 3	< 3	< 3	< 3	< 3	< 3	-
Benzo(b)fluoranthene	ug/l	< 6	< 5	< 5	< 5	< 5	< 5	< 5	-
Benzo(ghi)perylene	ug/l	< 5	< 4	< 4	< 4	< 4	< 4	< 4	-
Benzo(k)fluoranthene	ug/l	< 3	< 3	< 3	< 3	< 3	< 3	< 3	-
bis(2-Chloroethoxy)methane	ug/l	< 6	< 6	< 5	< 5	< 6	< 5	< 6	-
bis(2-Chloroethyl) ether	ug/l	< 7	< 6	< 6	< 6	< 6	< 6	< 6	-
bis(2-Chloroisopropyl)ether	ug/l	< 7	< 6	< 6	< 6	< 6	< 6	< 6	-
bis(2-Ethylhexyl)phthalate	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-
4-Bromophenyl phenyl ether	ug/l	< 2.18	< 2.07	< 1.94	< 1.92	< 2.04	< 1.92	< 2.04	-
Butyl benzyl phthalate	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-
2-Chloronaphthalene	ug/l	< 2	< 2	< 2	< 2	< 2	< 2	< 2	-
4-Chlorophenyl phenyl ether	ug/l	< 5	< 5	< 4	< 4	< 5	< 4	< 5	-
Chrysene	ug/l	< 3	< 3	< 3	< 3	< 3	< 3	< 3	-
Dibenzo(a,h)anthracene	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-
1,2-Dichlorobenzene	ug/l	< 2	< 2	< 2	< 2	< 2	< 2	< 2	-
1,3-Dichlorobenzene	ug/l	< 2	< 2	< 2	< 2	< 2	< 2	< 2	-
1,4-Dichlorobenzene	ug/l	< 5	< 5	< 4	< 4	< 5	< 4	< 5	-
3,3'-Dichlorobenzidine	ug/l	< 20	< 20	< 20	< 20	< 20	< 20	< 20	-
Diethyl phthalate	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-
Dimethyl phthalate	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-
Di-n-butyl phthalate	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below — *ETC Sample No.* | WASTE MANAGEMENT, INC. — *Company* | 705 — *Facility* | See Below — *Sample Point* | *Date*

Parameters	Units	Sample Points, Sampling Dates, and ETC Sample No.'s							
		L SW1 891024 HA1580	L SW4 891024 HA1581	L SW2 891024 HA1582	L SW3 891024 HA1583	L SW4DUP 891024 HA1584	L SW5 891024 HA1585	K SURFWAUTFBK 891024 HA1586	K SURFWAUTTB 891024 HA1765
2,4-Dinitrotoluene	ug/l	< 7	< 6	< 6	< 6	< 6	< 6	< 6	-
2,6-Dinitrotoluene	ug/l	< 2	< 2	< 2	< 2	< 2	< 2	< 2	-
Di-n-octyl phthalate	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-
1,2-Diphenylhydrazine	ug/l	-	< 10	< 10	-	-	-	-	-
Fluoranthene	ug/l	< 3	< 2	< 2	< 2	< 2	< 2	< 2	-
Fluorene	ug/l	< 2	< 2	< 2	< 2	< 2.04	< 2	< 2.04	-
Hexachlorobenzene	ug/l	< 2	< 2	< 2	< 2	< 2	< 2	< 2	-
Hexachlorobutadiene	ug/l	< 1	< 1	< .9	< .9	< 1	< .9	< 1	-
Hexachlorocyclopentadiene	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-
Hexachloroethane	ug/l	< 2	< 2	< 2	< 2	< 2	< 2	< 2	-
Indeno(1,2,3-c,d)pyrene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	-
Isophorone	ug/l	< 3	< 2	< 2	< 2	< 2	< 2	< 2	-
Naphthalene	ug/l	< 2	< 2	< 2	< 2	< 2	< 2	< 2	-
Nitrobenzene	ug/l	< 2	< 2	< 2	< 2	< 2	< 2	< 2	-
N-Nitrosodimethylamine	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-
N-Nitrosodi-n-propylamine	ug/l	< 11.5	< 10.9	< 10.2	< 10.1	< 10.8	< 10.1	< 10.8	-
N-Nitrosodiphenylamine	ug/l	< 2	< 2	< 2	< 2	< 2	< 2	< 2	-
Phenanthrene	ug/l	< 6	< 6	< 6	< 5	< 6	< 5	< 6	-
Pyrene	ug/l	< 2	< 2	< 2	< 2	< 2	< 2	< 2	-
1,2,4-Trichlorobenzene	ug/l	< 2	< 2	< 2	< 2	< 2	< 2	< 2	-
Priority Poll. Pest/PCBs GC/MS									
Aldrin	ug/l	< .05	< .05	< .05	< .05	< .05	< .05	< .05	-
Alpha-BHC	ug/l	< .05	< .05	< .05	< .05	< .05	< .05	< .05	-
Beta-BHC	ug/l	< .05	< .05	< .05	< .05	< .05	< .05	< .05	-
Gamma-BHC	ug/l	< .05	< .05	< .05	< .05	< .05	< .05	< .05	-
Delta-BHC	ug/l	< .05	< .05	< .05	< .05	< .05	< .05	< .05	-
Chlordane	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	-
4,4'-DDT	ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	-
4,4'-DDE	ug/l	< .1	< .1	< .1	< .1	< .100	< .1	< .1	-
4,4'-DDD	ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	-
Dieldrin	ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	-
Endosulfan I	ug/l	< .05	< .05	< .05	< .05	< .05	< .05	< .05	-
Endosulfan II	ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	-
Endosulfan sulfate	ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	-
Endrin	ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	-

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

DATE: 10/14/93
PAGE: 4

Chain of Custody Data Required for ETC Data Management Summary Report

See Below — *ETC Sample No.* | WASTE MANAGEMENT, INC. — *Company* | 705 — *Facility* | See Below — *Sample Point* | *Date*

Parameters	Units	Sample Points, Sampling Dates, and ETC Sample No.'s							
		L SW1 891024 HA1580	L SW4 891024 HA1581	L SW2 891024 HA1582	L SW3 891024 HA1583	L SW4DUP 891024 HA1584	L SW5 891024 HA1585	X SURFWA01TB 891024 HA1586	X SURFWA01TB 891024 HA1765
Endrin aldehyde	ug/l	< .1	< .1	< .1	< .1	< .1	< .1	< .1	-
Heptachlor	ug/l	< .05	< .05	< .05	< .05	< .05	< .05	< .05	-
Heptachlor epoxide	ug/l	< .05	< .05	< .05	< .05	< .05	< .05	< .05	-
Toxaphene	ug/l	< 2	< 2	< 2	< 2	< 2	< 2	< 2	-
Groundwater Conventionals									
Chloride	mg/l	90.2	40.6	101	40.5	40.6	40.9	< 1.0	-
Sulfate as SO4	mg/l	45.8	34.6	114	34.8	34.0	34.4	< 5.0	-
Phenolics, Total	mg/l	< .05	< .05	< .05	< .05	< .05	< .05	< .05	-
Cyanide, Total	mg/l	< .01	< .01	< .01	< .01	< .01	< .01	< .01	-
Total Organic Carbon	mg/l	7.4	3.9	12.5	3.5	3.5	3.6	1.2	-
Total Organic Carbon	mg/l	5.9	4.4	-	-	3.3	3.5	-	-
Specific Conductance	um/cm	595	405	781	402	404	402	< 10.0	-
Specific Conductance	um/cm	594	406	782	402	404	-	< 10.0	-
pH	std	7.75	7.97	7.85	7.95	8.02	8.00	7.76	-
pH	std	7.76	7.94	7.84	7.95	8.02	7.99	-	-
Metals Analysis Data									
Antimony	ug/l	30	< 60	< 60	25	13	< 60	< 60	-
Arsenic	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-
Beryllium	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	-
Cadmium	ug/l	-	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	-
Calcium	ug/l	45700	38700	41500	38900	38700	39500	< 200	-
Chromium	ug/l	7.1	2.1	2.7	2.5	3.0	3.2	3.0	-
Copper	ug/l	5.0	< 10	< 10	< 10	< 10	< 10	< 10	-
Lead	ug/l	16	< 75	< 75	< 75	19	< 75	< 75	-
Magnesium	ug/l	15100	12200	27600	12500	12200	12400	< 100	-
Mercury	ug/l	< .20	< .20	< .20	< .20	< .20	< .20	< .20	-
Nickel	ug/l	< 20	< 20	< 20	< 20	< 20	< 20	< 20	-
Potassium	ug/l	4800	2700	14000	2800	2800	3000	< 500	-
Selenium	ug/l	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	-
Silver	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-
Sodium	ug/l	56500	24000	71800	26000	25000	26000	< 500	-
Thallium	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-
Zinc	ug/l	-	-	-	-	-	-	22	-

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		SW1 891024 HA1580	SW4 891024 HA1581	SW2 891024 HA1582	SW3 891024 HA1583	SW4DUP 891024 HA1584	SW5 891024 HA1585	SURFWAUTFB 891024 HA1586	SURFWAUTTB 891024 HA1765
Field Parameters									
pH (Field)	std	8.05	8.28	7.97	8.43	8.28	8.27	7.33	-
Specific Conductance (Field)	um/cm	632	458	452	458	458	450	2.26	-
Temperature	Deg. C	15.3	14.2	13.6	12.7	14.2	14.5	12.8	-
Aroclors by GC									
Aroclor 1242	ug/l	< .5	< .5	< .5	< .5	< .5	< .5	< .5	-
Aroclor 1254	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	-
Aroclor 1260	ug/l	< 1	< 1	< 1	< 1	< 1	< 1	< 1	-
Aroclor 1248	ug/l	< .5	< .5	< .5	< .5	< .5	< .5	< .5	-
Aroclor 1232	ug/l	< .5	< .5	< .5	< .5	< .5	< .5	< .5	-
Aroclor 1221	ug/l	< .5	< .5	< .5	< .5	< .5	< .5	< .5	-
Aroclor 1016	ug/l	< .5	< .5	< .5	< .5	< .5	< .5	< .5	-
Miscellaneous Parameters									
Alkalinity as CaCO3	mg/l	120	120	140	120	88	120	< 10.0	-
Ammonia as N	mg/l	2.8	.29	2.0	.48	.24	.34	.15	-
Biochemical Oxygen Demand	mg/l	4.0	2.0	4.0	2.0	2.0	2.0	< 2.0	-
Chemical Oxygen Demand (COD)	mg/l	24	< 10.0	34	12	< 10.0	< 10.0	< 10.0	-
Nitrate+Nitrite	mg/l	.453	.387	.158	.363	.353	.367	< .100	-
Solids, total suspended	mg/l	124	38.0	44.0	42.0	40.0	54.0	< 5.0	-
Total Dissolved Solids (TDS)	mg/l	300	200	430	220	200	220	< 10.0	-

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

PHASE II
SURFACE WATER SAMPLE RESULTS

- APPENDIX K -

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

WASTE MANAGEMENT, INC. 705

See Below ETC Sample No. | Company | Facility | See Below Sample Point | Date

Parameters	Units	Sample Points, Sampling Dates, and ETC Sample No.'s							
		X SWOOUP01 911108 HA6697	L SW-14 911108 HA6698	L SW-13 911108 HA6699	L SW-11 911108 HA6701	L SW-8 911108 HA6702	L SW-12 911108 HA6704	L SW-6 911108 HA6705	TB-RELOG 911108 HA6708
Priority Poll. Volatiles GC/MS									
Benzene	ug/l	< 4	< 4	< 4	< 4	< 4	< 4	-	< 4
Bromoform	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	-	< 5
Carbon tetrachloride	ug/l	< 3	< 3	< 3	< 3	< 3	< 3	-	< 3
Chlorobenzene	ug/l	< 6	< 6	< 6	< 6	< 6	< 6	-	< 6
Chlorodibromomethane	ug/l	< 3	< 3	< 3	< 3	< 3	< 3	-	< 3
Chloroethane	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	-	< 10
2-Chloroethylvinyl ether	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	-	< 10
Chloroform	ug/l	< 2	< 2	< 2	< 2	< 2	< 2	-	< 2
Dichlorobromomethane	ug/l	< 2	< 2	< 2	< 2	< 2	< 2	-	< 2
Dichlorodifluoromethane	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	-	< 10
1,1-Dichloroethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	-	< 5
1,2-Dichloroethane	ug/l	< 3	< 3	< 3	< 3	< 3	< 3	-	< 3
1,1-Dichloroethylene	ug/l	< 3	< 3	< 3	< 3	< 3	< 3	-	< 3
1,2-Dichloropropane	ug/l	< 6	< 6	< 6	< 6	< 6	< 6	-	< 6
cis-1,3-Dichloropropylene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	-	< 5
Ethylbenzene	ug/l	< 7	< 7	< 7	< 7	< 7	< 7	-	< 7
Methyl bromide	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	-	< 10
Methyl chloride	ug/l	< 10	< 10	< 10	< 10	1.8	< 10	-	< 10
Methylene chloride	ug/l	2.7	< 2.80	2.3	2.5	2.2	< 2.80	-	< 3
1,1,2,2-Tetrachloroethane	ug/l	< 7	< 7	< 7	< 7	< 7	< 7	-	< 7
Tetrachloroethylene	ug/l	< 4	< 4	< 4	< 4	< 4	< 4	-	< 4
Toluene	ug/l	< 6.00	4.1	< 6	1.3	< 6	< 6	-	< 6
1,2-Trans-dichloroethylene	ug/l	< 2	< 2	< 2	< 2	< 2	< 2	-	< 2
1,1,1-Trichloroethane	ug/l	< 4	< 4	< 4	< 4	< 4	< 4	-	< 4
1,1,2-Trichloroethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	-	< 5
Trichloroethylene	ug/l	< 2	< 2	< 2	< 2	< 2	< 2	-	< 2
Trichlorofluoromethane	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	-	< 10
Vinyl chloride	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	-	< 10
trans-1,3-Dichloropropylene	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	-	< 10
Priority Poll. Acids GC/MS									
2-Chlorophenol	ug/l	< 3	< 3	< 3	< 3	< 3	< 3	< 3	-
2,4-Dichlorophenol	ug/l	< 3	< 3	< 3	< 3	< 3	< 3	< 3	-

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		X SWDOUT 911108 HA6697	L SW-14 911108 HA6698	L SW-13 911108 HA6699	L SW-11 911108 HA6701	L SW-8 911108 HA6702	L SW-12 911108 HA6704	L SW-6 911108 HA6705	TB-RELOG 911108 HA6708
2,4-Dimethylphenol	ug/l	< 3	< 3	< 3	< 3	< 3	< 3	< 3	-
4,6-Dinitro-o-cresol	ug/l	< 20	< 20	< 20	< 20	< 20	< 20	< 20	-
2,4-Dinitrophenol	ug/l	< 40	< 40	< 40	< 40	< 40	< 40	< 40	-
2-Nitrophenol	ug/l	< 4	< 4	< 4	< 4	< 4	< 4	< 4	-
4-Nitrophenol	ug/l	< 2	< 2	< 2	< 2	< 2	< 2	< 2	-
p-Chloro-m-cresol	ug/l	< 3	< 3	< 3	< 3	< 3	< 3	< 3	-
Pentachlorophenol	ug/l	< 4	< 4	< 4	< 4	< 4	< 4	< 4	-
Phenol	ug/l	< 2	< 2	< 2	< 2	< 2	< 2	< 2	-
2,4,6-Trichlorophenol	ug/l	< 3	< 3	< 3	< 3	< 3	< 3	< 3	-
Priority Poll. B/Ns GC/MS									
Acenaphthene	ug/l	< 2	< 2	< 2	< 2	< 2	< 2	< 2	-
Acenaphthylene	ug/l	< 4	< 4	< 4	< 4	< 4	< 4	< 4	-
Anthracene	ug/l	< 2	< 2	< 2	< 2	< 2	< 2	< 2	-
Benzo(a)anthracene	ug/l	< 8	< 8	< 8	< 8	< 8	< 8	< 8	-
Benzo(a)pyrene	ug/l	< 3	< 3	< 3	< 3	< 3	< 3	< 3	-
Benzo(b)fluoranthene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	-
Benzo(ghi)perylene	ug/l	< 4	< 4	< 4	< 4	< 4	< 4	< 4	-
Benzo(k)fluoranthene	ug/l	< 3	< 3	< 3	< 3	< 3	< 3	< 3	-
bis(2-Chloroethoxy)methane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	-
bis(2-Chloroethyl) ether	ug/l	< 6	< 6	< 6	< 6	< 6	< 6	< 6	-
bis(2-Chloroisopropyl)ether	ug/l	< 6	< 6	< 6	< 6	< 6	< 6	< 6	-
bis(2-Ethylhexyl)phthalate	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-
4-Bromophenyl phenyl ether	ug/l	< 2	< 2	< 2	< 2	< 2	< 2	< 2	-
Butyl benzyl phthalate	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-
2-Chloronaphthalene	ug/l	< 2	< 2	< 2	< 2	< 2	< 2	< 2	-
4-Chlorophenyl phenyl ether	ug/l	< 4	< 4	< 4	< 4	< 4	< 4	< 4	-
Chrysene	ug/l	< 3	< 3	< 3	< 3	< 3	< 3	< 3	-
Dibenzo(a,h)anthracene	ug/l	< 3	< 3	< 3	< 3	< 3	< 3	< 3	-
1,2-Dichlorobenzene	ug/l	< 2	< 2	< 2	< 2	< 2	< 2	< 2	-
1,3-Dichlorobenzene	ug/l	< 2	< 2	< 2	< 2	< 2	< 2	< 2	-
1,4-Dichlorobenzene	ug/l	< 4	< 4	< 4	< 4	< 4	< 4	< 5	-
3,3'-Dichlorobenzidine	ug/l	< 20	< 20	< 20	< 20	< 20	< 20	< 20	-
Diethyl phthalate	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-
Dimethyl phthalate	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-
Di-n-butyl phthalate	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		X SWDUP01 911108 HA6697	L SW-14 911108 HA6698	L SW-13 911108 HA6699	L SW-11 911108 HA6701	L SW-8 911108 HA6702	L SW-12 911108 HA6704	L SW-6 911108 HA6705	TB-RELOG 911108 HA6708
2,4-Dinitrotoluene	ug/l	< 6	< 6	< 6	< 6	< 6	< 6	< 6	-
2,6-Dinitrotoluene	ug/l	< 2	< 2	< 2	< 2	< 2	< 2	< 2	-
Di-n-octyl phthalate	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-
Fluoranthene	ug/l	< 2	< 2	< 2	< 2	< 2	< 2	< 2	-
Fluorene	ug/l	< 2	< 2	< 2	< 1.94	< 2	< 1.90	< 2	-
Hexachlorobenzene	ug/l	< 2	< 2	< 2	< 2	< 2	< 2	< 2	-
Hexachlorobutadiene	ug/l	< .9	< .9	< .9	< .9	< .9	< .9	< .9	-
Hexachlorocyclopentadiene	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-
Hexachloroethane	ug/l	< 2	< 2	< 2	< 2	< 2	< 2	< 2	-
Indeno(1,2,3-c,d)pyrene	ug/l	< 4	< 4	< 4	< 4	< 4	< 4	< 4	-
Isophorone	ug/l	< 2	< 2	< 2	< 2	< 2	< 2	< 2	-
Naphthalene	ug/l	< 2	< 1.62	< 2	< 2	< 1.62	< 2	< 2	-
Nitrobenzene	ug/l	< 2	< 2	< 2	< 2	< 2	< 2	< 2	-
N-Nitrosodimethylamine	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-
N-Nitrosodi-n-propylamine	ug/l	< 10.2	< 10.1	< 10.1	< 10.2	< 10.1	< 10.0	< 10	-
N-Nitrosodiphenylamine	ug/l	< 2	< 2	< 2	< 2	< 2	< 2	< 2	-
Phenanthrene	ug/l	< 6	< 5	< 5	< 6	< 5	< 5	< 6	-
Pyrene	ug/l	< 2	< 2	< 2	< 2	< 2	< 2	< 2	-
1,2,4-Trichlorobenzene	ug/l	< 2	< 2	< 2	< 2	< 2	< 2	< 2	-
Metals Analysis Data									
Antimony	ug/l	< 60	< 60	< 60	< 60	< 60	< 60	< 60	-
Arsenic	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-
Beryllium	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	-
Cadmium	ug/l	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	-
Chromium	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-
Copper	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-
Lead	ug/l	< 75	< 75	< 75	< 75	< 75	< 75	< 75	-
Mercury	ug/l	< .20	< .20	< .20	< .20	< .20	< .20	< .20	-
Nickel	ug/l	< 20	< 20	< 20	< 20	< 20	< 20	< 20	-
Selenium	ug/l	< 5.0	1.9	< 5.0	1.9	< 5.0	1.2	2.5	-
Silver	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-
Thallium	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	-
Zinc	ug/l	< 20	< 20	< 20	< 20	< 20	< 20	< 20	-

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below — *ETC Sample No.* | WASTE MANAGEMENT, INC. — *Company* | 705 — *Facility* | See Below — *Sample Point* | *Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		X SWDUP01 911108 HA6697	L SW-14 911108 HA6698	L SW-13 911108 HA6699	L SW-11 911108 HA6701	L SW-8 911108 HA6702	L SW-12 911108 HA6704	L SW-6 911108 HA6705	TB-RELOG 911108 HA6708
Field Parameters									
pH (Field)	std	-	7.91	7.80	8.11	7.88	7.65	7.81	-
pH (Field)	std	-	7.83	7.82	8.14	8.00	7.53	-	-
pH (Field)	std	-	7.87	7.86	8.15	8.01	7.59	-	-
pH (Field)	std	-	-	7.89	8.16	8.03	7.62	-	-
Specific Conductance (Field)	um/cm	-	544	549	545	545	535	550	-
Specific Conductance (Field)	um/cm	-	537	543	538	538	539	542	-
Specific Conductance (Field)	um/cm	-	539	539	532	542	-	532	-
Specific Conductance (Field)	um/cm	-	540	538	534	537	-	536	-
Temperature	Deg. C	-	1.8	2.1	2.0	2.1	2.3	1.9	-

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	Units	L SW-7 911113 HA6694	L SW-9 911113 HA6695	L SW-10 911113 HA6696	L SW-1 911113 HA6700	X 911113TB 911113 HA6707	L SW-5 911114 HA6690	L SW-4 911114 HA6691	L SW-3 911114 HA6703
Priority Poll. Volatiles GC/MS									
Benzene	ug/l	< 4	< 5	< 5	< 5	< 5	< 4	< 4	< 4
Bromoform	ug/l	< 5	< 5	< 5.00	< 5	< 5	< 5	< 5	< 4.70
Carbon tetrachloride	ug/l	< 3	< 5	< 5	< 5	< 5	< 3	< 3	< 3
Chlorobenzene	ug/l	< 6	< 5	1.7	< 5	< 5	< 6	< 6	< 6
Chlorodibromomethane	ug/l	< 3	< 5	< 5	< 5	< 5	< 3	< 3	< 3
Chloroethane	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Chloroethylvinyl ether	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Chloroform	ug/l	< 2	< 5	< 5	< 5	< 5	< 2	< 2	< 2
Dichlorobromomethane	ug/l	< 2	< 5	< 5	< 5	< 5	< 2	< 2	< 2
Dichlorodifluoromethane	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
1,1-Dichloroethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1,2-Dichloroethane	ug/l	< 3	< 5	< 5	< 5	< 5	< 3	< 3	< 3
1,1-Dichloroethylene	ug/l	< 3	< 5	< 5	< 5	< 5	< 3	< 3	< 3
1,2-Dichloropropane	ug/l	< 6	< 5	< 5	< 5	< 5	< 6	< 6	< 6
cis-1,3-Dichloropropylene	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Ethylbenzene	ug/l	< 7	< 5	< 5	< 5	< 5	< 7	< 7	< 7
Methyl bromide	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methyl chloride	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methylene chloride	ug/l	< 3	< 5	< 5	< 5	< 5	< 3	< 3	< 3
1,1,2,2-Tetrachloroethane	ug/l	< 7	< 5	2.9	< 5	< 5	< 7	< 7	3.7
Tetrachloroethylene	ug/l	< 4	< 5	< 5	< 5	< 5	< 4	< 4	< 4
Toluene	ug/l	< 6	< 5	1.1	< 5	< 5	< 6	< 6	< 6
1,2-Trans-dichloroethylene	ug/l	< 2	< 5	< 5	< 5	< 5	< 2	< 2	< 2
1,1,1-Trichloroethane	ug/l	< 4	< 5	< 5	< 5	< 5	< 4	< 4	< 4
1,1,2-Trichloroethane	ug/l	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Trichloroethylene	ug/l	< 2	< 5	< 5	< 5	< 5	< 2	< 2	< 2
Trichlorofluoromethane	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Vinyl chloride	ug/l	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
trans-1,3-Dichloropropylene	ug/l	< 10	< 5	< 5	< 5	< 5	< 10	< 10	< 10
Priority Poll. Acids GC/MS									
2-Chlorophenol	ug/l	< 4	< 4	< 3	< 4	-	< 3	< 4	< 3
2,4-Dichlorophenol	ug/l	< 4	< 4	< 3	< 3	-	< 2.70	< 3	< 3

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		L SW-7 911113 HA6694	L SW-9 911113 HA6695	L SW-10 911113 HA6696	L SW-1 911113 HA6700	X 911113TB 911113 HA6707	L SW-5 911114 HA6690	L SW-4 911114 HA6691	L SW-3 911114 HA6703
2,4-Dimethylphenol	ug/l	< 4	< 4	< 3	< 3	-	< 3	< 3	< 3
4,6-Dinitro-o-cresol	ug/l	< 30	< 30	< 20	< 30	-	< 20	< 30	< 20
2,4-Dinitrophenol	ug/l	< 50	< 50	< 40	< 50	-	< 40	< 50	< 40
2-Nitrophenol	ug/l	< 5	< 5	< 4	< 4	-	< 4	< 5	< 4
4-Nitrophenol	ug/l	< 3	< 3	< 2	< 3	-	< 2	< 3	< 2
p-Chloro-m-cresol	ug/l	< 4	< 4	< 3	< 4	-	< 3	< 4	< 3
Pentachlorophenol	ug/l	< 5	< 5	< 4	< 4	-	< 4	< 5	< 4
Phenol	ug/l	< 2	< 2	< 2	< 2	-	< 2	< 2	< 2
2,4,6-Trichlorophenol	ug/l	< 4	< 4	< 3	< 3	-	< 3	< 3	< 3
Priority Poll. B/Ns GC/MS									
Acenaphthene	ug/l	< 2	< 2	< 2	< 2	-	< 2	< 2	< 2
Acenaphthylene	ug/l	< 5	< 5	< 4	< 4	-	< 4	< 4	< 4
Anthracene	ug/l	< 2	< 2	< 2	< 2	-	< 2	< 2	< 2
Benzo(a)anthracene	ug/l	< 10	< 10	< 8	< 9	-	< 8	< 10	< 8
Benzo(a)pyrene	ug/l	< 3	< 3	< 3	< 3	-	< 3	< 3	< 3
Benzo(b)fluoranthene	ug/l	< 6	< 6	< 5	< 6	-	< 5	< 6	< 5
Benzo(ghi)perylene	ug/l	< 5	< 5	< 4	< 5	-	< 4	< 5	< 4
Benzo(k)fluoranthene	ug/l	< 3	< 3	< 3	< 3	-	< 3	< 3	< 3
bis(2-Chloroethoxy)methane	ug/l	< 7	< 7	< 5	< 6	-	< 5	< 7	< 5
bis(2-Chloroethyl) ether	ug/l	< 7	< 7	< 6	< 7	-	< 6	< 7	< 6
bis(2-Chloroisopropyl)ether	ug/l	< 7	< 7	< 6	< 7	-	< 6	< 7	< 6
bis(2-Ethylhexyl)phthalate	ug/l	< 10	< 10	< 10	< 10	-	< 10	< 10	< 10.3
4-Bromophenyl phenyl ether	ug/l	< 2	< 2	< 2	< 2	-	< 2	< 2	< 2
Butyl benzyl phthalate	ug/l	< 10	< 10	< 10	< 10	-	< 10	< 10	< 10
2-Chloronaphthalene	ug/l	< 2	< 2	< 2	< 2	-	< 2	< 2	< 2
4-Chlorophenyl phenyl ether	ug/l	< 5	< 5	< 4	< 5	-	< 4	< 5	< 4
Chrysene	ug/l	< 3	< 3	< 3	< 3	-	< 3	< 3	< 3
Dibenzo(a,h)anthracene	ug/l	< 3	< 3	< 3	< 3	-	< 3	< 3	< 3
1,2-Dichlorobenzene	ug/l	< 2	< 2	< 2	< 2	-	< 2	< 2	< 2
1,3-Dichlorobenzene	ug/l	< 2	< 2	< 2	< 2	-	< 2	< 2	< 2
1,4-Dichlorobenzene	ug/l	< 6	< 6	< 4	< 5	-	< 4	< 6	< 5
3,3'-Dichlorobenzidine	ug/l	< 20	< 20	< 20	< 20	-	< 20	< 20	< 20
Diethyl phthalate	ug/l	< 10	< 10	< 10	< 10	-	< 10	< 10	< 10
Dimethyl phthalate	ug/l	< 10	< 10	< 10	< 10	-	< 10	< 10	< 10
Di-n-butyl phthalate	ug/l	< 10	< 10	< 10	< 10	-	< 10	< 10	< 10

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	Units	Sample Points, Sampling Dates, and ETC Sample No.'s							
		L SW-7 911113 HA6694	L SW-9 911113 HA6695	L SW-10 911113 HA6696	L SW-1 911113 HA6700	K 911113B 911113 HA6707	L SW-5 911114 HA6690	L SW-4 911114 HA6691	L SW-3 911114 HA6703
2,4-Dinitrotoluene	ug/l	< 7	< 7	< 6	< 7	-	< 6	< 7	< 6
2,6-Dinitrotoluene	ug/l	< 2	< 2	< 2	< 2	-	< 2	< 2	< 2
Di-n-octyl phthalate	ug/l	< 10	< 10	< 10	< 10	-	< 10	< 10	< 10
Fluoranthene	ug/l	< 3	< 3	< 2	< 3	-	< 2	< 3	< 2
Fluorene	ug/l	< 2	< 2	< 2	< 2	-	< 1.90	< 2.44	< 1.96
Hexachlorobenzene	ug/l	< 2	< 2	< 2	< 2	-	< 2	< 2	< 2
Hexachlorobutadiene	ug/l	< 1	< 1	< .9	< 1	-	< .9	< 1	< .9
Hexachlorocyclopentadiene	ug/l	< 10	< 10	< 10	< 10	-	< 10	< 10	< 10
Hexachloroethane	ug/l	< 2	< 2	< 2	< 2	-	< 2	< 2	< 2
Indeno(1,2,3-c,d)pyrene	ug/l	< 5	< 5	< 4	< 4	-	< 4	< 5	< 4
Isophorone	ug/l	< 3	< 3	< 2	< 3	-	< 2	< 3	< 2
Naphthalene	ug/l	< 2	< 2	< 2	< 2	-	< 2	< 2	< 2
Nitrobenzene	ug/l	< 2	< 2	< 2	< 2	-	< 2	< 2	< 2
N-Nitrosodimethylamine	ug/l	< 10	< 10	< 10	< 10	-	< 10	< 10	< 10
N-Nitrosodi-n-propylamine	ug/l	< 10	< 10	< 10	< 10	-	< 10.0	< 12.8	< 10.3
N-Nitrosodiphenylamine	ug/l	< 2	< 2	< 2	< 2	-	< 2	< 2	< 2
Phenanthrene	ug/l	< 7	< 7	< 6	< 6	-	< 5	< 7	< 6
Pyrene	ug/l	< 2	< 2	< 2	< 2	-	< 2	< 2	< 2
1,2,4-Trichlorobenzene	ug/l	< 2	< 2	< 2	< 2	-	< 2	< 2	< 2
Metals Analysis Data									
Antimony	ug/l	< 60	< 60	< 60	< 60	-	< 60	< 60	< 60
Arsenic	ug/l	< 10	2.5	2.2	< 10	-	< 10	< 10	< 20
Beryllium	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	-	< 1.0	< 1.0	< 1.0
Cadmium	ug/l	< 3.0	< 3.0	< 3.0	< 3.0	-	< 3.0	< 3.0	< 3.0
Chromium	ug/l	< 10	< 10	< 10	< 10	-	< 10	< 10	< 10
Copper	ug/l	< 10	< 10	< 10	< 10	-	< 10	< 10	< 10
Lead	ug/l	< 75	< 75	< 75	< 75	-	< 75	< 75	< 75
Mercury	ug/l	< .20	< .20	< .20	.10	-	.20	< .20	.10
Nickel	ug/l	< 20	< 20	< 20	< 20	-	< 20	< 20	< 20
Selenium	ug/l	1.9	< 5.0	< 5.0	1.2	-	1.9	1.2	< 5.0
Silver	ug/l	< 10	< 10	< 10	< 10	-	< 10	< 10	< 10
Thallium	ug/l	< 10	< 10	< 10	< 10	-	< 10	< 10	< 10
Zinc	ug/l	< 20	< 20	< 20	< 20	-	< 20	< 20	< 20

Footnotes: BMDL=Below Method Detection Limit ND=Paremeter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below — *ETC Sample No.* | WASTE MANAGEMENT, INC. — *Company* | 705 — *Facility* | See Below — *Sample Point* | *Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		L SW-7 911113 HA6694	L SW-9 911113 HA6695	L SW-10 911113 HA6696	L SW-1 911113 HA6700	X 911113B 911113 HA6707	L SW-5 911114 HA6690	L SW-4 911114 HA6691	L SW-3 911114 HA6703
Field Parameters									
pH (Field)	std	7.81	8.00	8.15	8.12	-	7.73	8.03	8.02
pH (Field)	std	7.85	8.04	8.18	8.15	-	7.76	8.05	8.04
pH (Field)	std	7.88	8.05	8.19	8.19	-	7.84	8.06	8.07
pH (Field)	std	7.90	8.05	8.20	8.21	-	7.85	8.06	8.08
Specific Conductance (Field)	um/cm	547	546	547	807	-	558	539	558
Specific Conductance (Field)	um/cm	538	544	552	819	-	548	537	559
Specific Conductance (Field)	um/cm	544	548	541	813	-	557	532	562
Specific Conductance (Field)	um/cm	542	539	542	814	-	558	535	556
Temperature	Deg. C	5.7	4.7	5.8	5.5	-	8.1	5.9	8.2

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below				See Below	
ETC Sample No.		*Company*	*Facility*	*Sample Point*	*Date*
		WASTE MANAGEMENT, INC.	705		

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		X SWFB01 911114 HA6706	X 911114B 911114 HA6709	L SW-2 911115 HA6692	L SW-15 911115 HA6693	L SW-6 911115 HA6760			
Priority Poll. Volatiles GC/MS									
Benzene	ug/l	< 4	< 4	< 5	< 4	< 4			
Bromoform	ug/l	< 5	< 5	< 5	< 5	< 5			
Carbon tetrachloride	ug/l	< 3	< 3	< 5	< 3	< 3			
Chlorobenzene	ug/l	< 6	< 6	< 5	< 6	< 6			
Chlorodibromomethane	ug/l	< 3	< 3	< 5	< 3	< 3			
Chloroethane	ug/l	< 10	< 10	< 10	< 10	< 10			
2-Chloroethylvinyl ether	ug/l	< 10	< 10	< 10	< 10	< 10			
Chloroform	ug/l	< 2	< 2	< 5	< 2	< 2			
Dichlorobromomethane	ug/l	< 2	< 2	< 5	< 2	< 2			
Dichlorodifluoromethane	ug/l	< 10	< 10	< 10	< 10	< 10			
1,1-Dichloroethane	ug/l	< 5	< 5	< 5	< 5	< 5			
1,2-Dichloroethane	ug/l	< 3	< 3	< 5	< 3	< 3			
1,1-Dichloroethylene	ug/l	< 3	< 3	< 5	< 3	< 3			
1,2-Dichloropropane	ug/l	< 6	< 6	< 5	< 6	< 6			
cis-1,3-Dichloropropylene	ug/l	< 5	< 5	< 5	< 5	< 5			
Ethylbenzene	ug/l	< 7	< 7	< 5	< 7	< 7			
Methyl bromide	ug/l	< 10	< 10	< 10	< 10	< 10			
Methyl chloride	ug/l	< 10	< 10	< 10	< 10	< 10			
Methylene chloride	ug/l	< 3	< 3	< 5	< 3	< 3			
1,1,2,2-Tetrachloroethane	ug/l	< 7	< 7	< 5	< 7	< 7			
Tetrachloroethylene	ug/l	< 4	< 4	< 5	< 4	< 4			
Toluene	ug/l	< 6	< 6	< 5	< 6	< 6			
1,2-Trans-dichloroethylene	ug/l	< 2	< 2	< 5	< 2	< 2			
1,1,1-Trichloroethane	ug/l	< 4	< 4	< 5	< 4	< 4			
1,1,2-Trichloroethane	ug/l	< 5	< 5	< 5	< 5	< 5			
Trichloroethylene	ug/l	< 2	< 2	< 5	< 2	< 2			
Trichlorofluoromethane	ug/l	< 10	< 10	< 10	< 10	< 10			
Vinyl chloride	ug/l	< 10	< 10	< 10	< 10	< 10			
trans-1,3-Dichloropropylene	ug/l	< 10	< 10	< 5	< 10	< 10			
Priority Poll. Acids GC/MS									
2-Chlorophenol	ug/l	< 3	-	< 3	< 4	-			
2,4-Dichlorophenol	ug/l	< 3	-	< 3	< 3	-			

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected "-"=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		X SWFB01 911114 HA6706	X 911114TB 911114 HA6709	L SW-2 911115 HA6692	L SW-15 911115 HA6693	L SW-6 911115 HA6760			
2,4-Dimethylphenol	ug/l	< 3	-	< 3	< 3	-			
4,6-Dinitro-o-cresol	ug/l	< 20	-	< 20	< 30	-			
2,4-Dinitrophenol	ug/l	< 40	-	< 40	< 50	-			
2-Nitrophenol	ug/l	< 4	-	< 4	< 4	-			
4-Nitrophenol	ug/l	< 2	-	< 2	< 3	-			
p-Chloro-m-cresol	ug/l	< 3	-	< 3	< 4	-			
Pentachlorophenol	ug/l	< 4	-	< 4	< 4	-			
Phenol	ug/l	< 2	-	< 2	< 2	-			
2,4,6-Trichlorophenol	ug/l	< 3	-	< 3	< 3	-			
Priority Poll. B/Ns GC/MS									
Acenaphthene	ug/l	< 2	-	< 2	< 2	-			
Acenaphthylene	ug/l	< 4	-	< 4	< 4	-			
Anthracene	ug/l	< 2	-	< 2	< 2	-			
Benzo(a)anthracene	ug/l	< 8	-	< 8	< 9	-			
Benzo(a)pyrene	ug/l	< 3	-	< 3	< 3	-			
Benzo(b)fluoranthene	ug/l	< 5	-	< 5	< 6	-			
Benzo(ghi)perylene	ug/l	< 4	-	< 4	< 5	-			
Benzo(k)fluoranthene	ug/l	< 3	-	< 3	< 3	-			
bis(2-Chloroethoxy)methane	ug/l	< 5	-	< 5	< 6	-			
bis(2-Chloroethyl) ether	ug/l	< 6	-	< 6	< 7	-			
bis(2-Chloroisopropyl)ether	ug/l	< 6	-	< 6	< 7	-			
bis(2-Ethylhexyl)phthalate	ug/l	< 10	-	< 10	< 10	-			
4-Bromophenyl phenyl ether	ug/l	< 2	-	< 2	< 2	-			
Butyl benzyl phthalate	ug/l	< 10	-	< 10	< 10	-			
2-Chloronaphthalene	ug/l	< 2	-	< 2	< 2	-			
4-Chlorophenyl phenyl ether	ug/l	< 4	-	< 4	< 5	-			
Chrysene	ug/l	< 3	-	< 3	< 3	-			
Dibenzo(a,h)anthracene	ug/l	< 3	-	< 3	< 3	-			
1,2-Dichlorobenzene	ug/l	< 2	-	< 2	< 2	-			
1,3-Dichlorobenzene	ug/l	< 2	-	< 2	< 2	-			
1,4-Dichlorobenzene	ug/l	< 4	-	< 4	< 5	-			
3,3'-Dichlorobenzidine	ug/l	< 20	-	< 20	< 20	-			
Diethyl phthalate	ug/l	< 10	-	< 10	< 10	-			
Dimethyl phthalate	ug/l	< 10	-	< 10	< 10	-			
Di-n-butyl phthalate	ug/l	< 10	-	< 10	< 10	-			

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

DATE: 10/14/93
PAGE: 11

Chain of Custody Data Required for ETC Data Management Summary Report

See Below ETC Sample No.	WASTE MANAGEMENT, INC. Company	705 Facility	See Below Sample Point	Date

Parameters	Units	X SWFB01 911114 HA6706	X 911114TB 911114 HA6709	L SW-2 911115 HA6692	L SW-15 911115 HA6693	L SW-6 911115 HA6760			
2,4-Dinitrotoluene	ug/l	< 6	-	< 6	< 7	-			
2,6-Dinitrotoluene	ug/l	< 2	-	< 2	< 2	-			
Di-n-octyl phthalate	ug/l	< 10	-	< 10	< 10	-			
Fluoranthene	ug/l	< 2	-	< 2	< 3	-			
Fluorene	ug/l	< 1.92	-	< 2	< 2	-			
Hexachlorobenzene	ug/l	< 2	-	< 2	< 2	-			
Hexachlorobutadiene	ug/l	< .9	-	< .9	< 1	-			
Hexachlorocyclopentadiene	ug/l	< 10	-	< 10	< 10	-			
Hexachloroethane	ug/l	< 2	-	< 2	< 2	-			
Indeno(1,2,3-c,d)pyrene	ug/l	< 4	-	< 4	< 4	-			
Isophorone	ug/l	< 2	-	< 2	< 3	-			
Naphthalene	ug/l	< 2	-	< 2	< 2	-			
Nitrobenzene	ug/l	< 2	-	< 2	< 2	-			
N-Nitrosodimethylamine	ug/l	< 10	-	< 10	< 10	-			
N-Nitrosodi-n-propylamine	ug/l	< 10.1	-	< 10	< 10	-			
N-Nitrosodiphenylamine	ug/l	< 2	-	< 2	< 2	-			
Phenanthrene	ug/l	< 5	-	< 5	< 6	-			
Pyrene	ug/l	< 2	-	< 2	< 2	-			
1,2,4-Trichlorobenzene	ug/l	< 2	-	< 2	< 2	-			
Metals Analysis Data									
Antimony	ug/l	< 60	-	< 60	< 60	-			
Arsenic	ug/l	< 10	-	< 10	< 10	-			
Beryllium	ug/l	< 1.0	-	< 1.0	< 1.0	-			
Cadmium	ug/l	< 3.0	-	< 3.0	< 3.0	-			
Chromium	ug/l	< 10	-	< 10	< 10	-			
Copper	ug/l	< 10	-	< 10	2.0	-			
Lead	ug/l	< 75	-	< 75	< 75	-			
Mercury	ug/l	< .20	-	< .20	< .20	-			
Nickel	ug/l	< 20	-	< 20	< 20	-			
Selenium	ug/l	< 5.0	-	2.3	< 5.0	-			
Silver	ug/l	< 10	-	< 10	< 10	-			
Thallium	ug/l	< 10	-	< 10	< 10	-			
Zinc	ug/l	< 20	-	< 20	< 20	-			

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		X SWFBOT 911114 HA6706	X 91111418 911114 HA6709	L SW-2 911115 HA6692	L SW-15 911115 HA6693	L SW-6 911115 HA6760			
Field Parameters									
pH (Field)	std	7.68	-	8.18	8.06	-			
pH (Field)	std	7.50	-	8.19	8.08	-			
pH (Field)	std	7.20	-	8.21	8.09	-			
pH (Field)	std	7.06	-	8.22	8.11	-			
Specific Conductance (Field)	um/cm	2.51	-	799	800	-			
Specific Conductance (Field)	um/cm	2.51	-	798	800	-			
Specific Conductance (Field)	um/cm	2.52	-	800	795	-			
Specific Conductance (Field)	um/cm	2.52	-	800	797	-			
Temperature	Deg. C	16.2	-	9.6	9.3	-			

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

PHASE II

SURFACE SOIL RESULTS

- APPENDIX K -

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

DATE: 10/19/93
PAGE: 1

Chain of Custody Data Required for ETC Data Management Summary Report

See Below				See Below	
ETC Sample No.	WASTE MANAGEMENT, INC.		705	*Sample Point*	*Date*
	Company		*Facility*		

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		S SS-17 911119 HA6801	S SS-4 911119 HA6802	X SSDUP01 911119 HA6803	S SS-16 911119 HA6804	S SS-1 911119 HA6805	S SS-2 911119 HA6806	S SS-14 911120 HA6807	S SS-15 911120 HA6808
Priority Poll. Volatiles GC/MS									
Benzene	ug/kg	< 5	< 6	< 5	< 5	< 5	< 5	< 5	< 5
Bromoform	ug/kg	< 6	< 6	< 6	< 5	< 5	< 5	< 5	< 5
Carbon tetrachloride	ug/kg	< 3	< 4	< 3	< 3	< 3	< 3	< 3	< 3
Chlorobenzene	ug/kg	< 7	< 8	< 7	< 7	< 7	< 7	< 7	< 7
Chlorodibromomethane	ug/kg	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
Chloroethane	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Chloroethylvinyl ether	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Chloroform	ug/kg	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Dichlorobromomethane	ug/kg	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Dichlorodifluoromethane	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
1,1-Dichloroethane	ug/kg	< 6	< 6	< 6	< 5	< 5	< 5	< 5	< 5
1,2-Dichloroethane	ug/kg	< 3	< 4	< 3	< 3	< 3	< 3	< 3	< 3
1,1-Dichloroethylene	ug/kg	< 3	< 4	< 3	< 3	< 3	< 3	< 3	14.3
1,2-Dichloropropane	ug/kg	< 7	< 8	< 7	< 7	< 7	< 7	< 7	< 7
cis-1,3-Dichloropropylene	ug/kg	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Ethylbenzene	ug/kg	< 8	< 9	< 9	< 8	< 8	< 8	< 8	< 8
Methyl bromide	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methyl chloride	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methylene chloride	ug/kg	< 3	< 4	< 3	11.0	< 3	< 3.18	< 3	< 3
1,1,2,2-Tetrachloroethane	ug/kg	< 8	< 9	< 8	< 8	< 8	< 8	< 8	< 8
Tetrachloroethylene	ug/kg	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Toluene	ug/kg	< 7	< 8	< 7	< 7	< 7	< 7	< 7	< 6.82
1,2-Trans-dichloroethylene	ug/kg	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,1,1-Trichloroethane	ug/kg	< 4	< 5	< 5	< 4	< 4	< 4	< 4	< 4
1,1,2-Trichloroethane	ug/kg	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Trichloroethylene	ug/kg	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Trichlorofluoromethane	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Vinyl chloride	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
trans-1,3-Dichloropropylene	ug/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Priority Poll. Acids GC/MS									
2-Chlorophenol	ug/kg	< 400	< 400	< 4000	< 400	< 4000	< 400	< 400	< 400
2,4-Dichlorophenol	ug/kg	< 300	< 300	< 3000	< 300	< 3000	< 300	< 300	< 300

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below *ETC Sample No.* | WASTE MANAGEMENT, INC. *Company* | 705 *Facility* | See Below *Sample Point* *Date*

Parameters	Units	Sample Points, Sampling Dates, and ETC Sample No.'s							
		S SS-17 911119 HA6801	S SS-4 911119 HA6802	X SSDUP01 911119 HA6803	S SS-16 911119 HA6804	S SS-1 911119 HA6805	S SS-2 911119 HA6806	S SS-14 911120 HA6807	S SS-15 911120 HA6808
2,4-Dimethylphenol	ug/kg	< 300	< 300	< 3000	< 300	< 3000	< 300	< 300	< 300
4,6-Dinitro-o-cresol	ug/kg	< 3000	< 3000	<30000	< 3000	<30000	< 3000	< 3000	< 3000
2,4-Dinitrophenol	ug/kg	< 5000	< 5000	<50000	< 5000	<50000	< 5000	< 5000	< 5000
2-Nitrophenol	ug/kg	< 400	< 500	< 4000	< 400	< 4000	< 400	< 400	< 400
4-Nitrophenol	ug/kg	< 300	< 300	< 3000	< 300	< 3000	< 300	< 300	< 300
p-Chloro-m-cresol	ug/kg	< 400	< 400	< 4000	< 300	< 3000	< 300	< 300	< 300
Pentachlorophenol	ug/kg	< 400	< 500	< 4000	< 400	< 4000	< 400	< 400	< 400
Phenol	ug/kg	< 200	< 200	< 2000	< 200	< 2000	< 200	< 200	< 200
2,4,6-Trichlorophenol	ug/kg	< 300	< 300	< 3000	< 300	< 3000	< 300	< 300	< 300
Priority Poll. B/Ns GC/MS									
Acenaphthene	ug/kg	< 200	< 200	< 2000	< 200	< 2000	< 200	< 200	< 200
Acenaphthylene	ug/kg	< 400	< 400	< 4000	< 400	< 4000	< 400	< 400	< 400
Anthracene	ug/kg	200	< 200	< 2000	< 200	< 2000	< 200	< 200	< 200
Benzo(a)anthracene	ug/kg	1040	500	1700	260	1700	220	200	< 900
Benzo(a)pyrene	ug/kg	1280	463	< 3000	328	< 3000	< 300	< 300	< 300
Benzo(b)fluoranthene	ug/kg	2450	916	3300	450	< 6000	250	< 600	250
Benzo(ghi)perylene	ug/kg	792	< 500	< 5000	< 500	< 5000	< 500	< 500	< 500
Benzo(k)fluoranthene	ug/kg	1090	386	< 3000	< 300	< 3000	< 300	< 300	< 300
bis(2-Chloroethoxy)methane	ug/kg	< 600	< 700	< 6000	< 600	< 6000	< 600	< 600	< 600
bis(2-Chloroethyl) ether	ug/kg	< 700	< 700	< 7000	< 700	< 7000	< 600	< 700	< 600
bis(2-Chloroisopropyl)ether	ug/kg	< 700	< 700	< 7000	< 700	< 7000	< 600	< 700	< 600
bis(2-Ethylhexyl)phthalate	ug/kg	< 1000	< 1000	<10000	330	<10000	340	330	300
4-Bromophenyl phenyl ether	ug/kg	< 200	< 200	< 2000	< 200	< 2000	< 200	< 200	< 200
Butyl benzyl phthalate	ug/kg	< 1000	< 1000	<10000	< 1000	<10000	< 1000	6830	< 1000
2-Chloronaphthalene	ug/kg	< 200	< 200	< 2000	< 200	< 2000	< 200	< 200	< 200
4-Chlorophenyl phenyl ether	ug/kg	< 500	< 500	< 5000	< 500	< 5000	< 500	< 500	< 500
Chrysene	ug/kg	1230	620	2000	374	1700	303	270	220
Dibenzo(a,h)anthracene	ug/kg	< 300	< 300	< 3000	< 300	< 3000	< 300	< 300	< 300
1,2-Dichlorobenzene	ug/kg	< 200	< 200	< 2000	< 200	< 2000	< 200	< 200	< 200
1,3-Dichlorobenzene	ug/kg	< 200	< 200	< 2000	< 200	< 2000	< 200	< 200	< 200
1,4-Dichlorobenzene	ug/kg	< 500	< 600	< 5000	< 500	< 5000	< 500	< 500	< 500
3,3'-Dichlorobenzidine	ug/kg	< 2000	< 2000	<20000	< 2000	<20000	< 2000	< 2000	< 2000
Diethyl phthalate	ug/kg	< 1000	< 1000	<10000	< 1000	<10000	< 1000	< 1000	< 1000
Dimethyl phthalate	ug/kg	< 1000	< 1000	<10000	< 1000	<10000	< 1000	< 1000	210
Di-n-butyl phthalate	ug/kg	1810	4000	1800	2120	3200	1680	1100	1750

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

DATE: 10/19/93
PAGE: 3

Chain of Custody Data Required for ETC Data Management Summary Report

See Below - *ETC Sample No.* | WASTE MANAGEMENT, INC. *Company* | 705 *Facility* | See Below *Sample Point* | *Date*

Parameters	*Units*	S SS-17 911119 HA6801	S SS-4 911119 HA6802	X SSDUP01 911119 HA6803	S SS-16 911119 HA6804	S SS-1 911119 HA6805	S SS-2 911119 HA6806	S SS-14 911120 HA6807	S SS-15 911120 HA6808
		Sample Points, Sampling Dates, and ETC Sample No.'s							
2,4-Dinitrotoluene	ug/kg	< 700	< 700	< 7000	< 700	< 7000	< 600	< 700	< 600
2,6-Dinitrotoluene	ug/kg	< 200	< 200	< 2000	< 200	< 2000	< 200	< 200	< 200
Di-n-octyl phthalate	ug/kg	< 1000	< 1000	<10000	< 1000	<10000	< 1000	< 1000	< 1000
Fluoranthene	ug/kg	1720	804	3050	489	2910	373	354	240
Fluorene	ug/kg	< 200	< 200	< 2000	< 200	< 2000	< 200	< 200	< 200
Hexachlorobenzene	ug/kg	< 200	< 200	< 2000	< 200	< 2000	< 200	< 200	< 200
Hexachlorobutadiene	ug/kg	< 100	< 100	< 1000	< 100	< 1000	< 100	< 100	< 100
Hexachlorocyclopentadiene	ug/kg	< 1000	< 1000	<10000	< 1000	<10000	< 1000	< 1000	< 1000
Hexachloroethane	ug/kg	< 200	< 200	< 2000	< 200	< 2000	< 200	< 200	< 200
Indeno(1,2,3-c,d)pyrene	ug/kg	914	< 500	< 4000	< 400	< 4000	< 400	< 400	< 400
Isophorone	ug/kg	< 300	< 300	< 3000	< 300	< 3000	< 300	< 300	< 300
Naphthalene	ug/kg	150	< 200	< 2000	< 200	< 2000	< 200	< 200	< 200
Nitrobenzene	ug/kg	< 200	< 200	< 2000	< 200	< 2000	< 200	< 200	< 200
N-Nitrosodimethylamine	ug/kg	< 1000	< 1000	<10000	< 1000	<10000	< 1000	< 1000	< 1000
N-Nitrosodi-n-propylamine	ug/kg	< 1000	< 1000	<10000	< 1000	<10000	< 1000	< 1000	< 1000
N-Nitrosodiphenylamine	ug/kg	< 200	< 200	< 2000	< 200	< 2000	< 200	< 200	< 200
Phenanthrene	ug/kg	1010	400	1600	240	1900	290	190	120
Pyrene	ug/kg	1560	769	2640	425	2480	351	332	210
1,2,4-Trichlorobenzene	ug/kg	< 200	< 200	< 2000	< 200	< 2000	< 200	< 200	< 200
Metals Analysis Data									
Antimony	ug/kg	2300	7300	2500	< 6900	1500	4000	19000	22000
Arsenic	ug/kg	3700	1600	6100	2100	5900	1800	2100	1900
Beryllium	ug/kg	3400	1600	3400	1500	1200	2000	1300	1400
Cadmium	ug/kg	3800	12000	4500	55700	4000	13000	12000	10000
Chromium	ug/kg	126000	1320000	173000	600000	110000	968000	864000	1060000
Copper	ug/kg	43000	52000	39000	78000	43000	32000	38000	35000
Lead	ug/kg	100000	32000	94000	68000	120000	39000	48000	41000
Mercury	ug/kg	150	90	190	< 92	120	110	120	120
Nickel	ug/kg	17000	12000	15000	71000	20000	12000	11000	140000
Selenium	ug/kg	1200	< 3200	1200	< 2900	470	< 2900	260	< 1100
Silver	ug/kg	950	3000	1300	3700	1200	3500	2700	3400
Thallium	ug/kg	270	< 1300	< 1200	< 1200	330	< 1100	< 1100	< 1100
Zinc	ug/kg	220000	67000	210000	110000	251000	67000	92000	100000

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	Units	Sample Points, Sampling Dates, and ETC Sample No.'s							
		S SS-3 911120 HA6809	S SS-23 911120 HA6810	X SSDUP02 911120 HA6812	S SS-5 911120 HA6813	S SS-20 911120 HA6814	S SS-21 911120 HA6815	S SS-6 911120 HA6819	S SS-10 911120 HA6820
Priority Poll. Volatiles GC/MS									
Benzene	ug/kg	< 5	< 8	< 6	< 5	< 6	< 5	< 6	< 6
Bromoform	ug/kg	< 6	< 8	< 6	< 6	< 6	< 6	< 6	< 6
Carbon tetrachloride	ug/kg	< 3	< 5	< 4	< 3	< 4	< 3	< 4	< 4
Chlorobenzene	ug/kg	< 7	3.5	< 8	< 7	< 8	< 7	< 8	< 8
Chlorodibromomethane	ug/kg	< 4	< 5	< 4	< 4	< 4	< 4	< 4	< 4
Chloroethane	ug/kg	< 10	< 20	< 10	< 10	< 10	< 10	< 10	< 10
2-Chloroethylvinyl ether	ug/kg	< 10	< 20	< 10	< 10	< 10	< 10	< 10	< 10
Chloroform	ug/kg	< 2	< 3	< 2	< 2	< 2	< 2	< 2	< 2
Dichlorobromomethane	ug/kg	< 3	< 4	< 3	< 3	< 3	< 3	< 3	< 3
Dichlorodifluoromethane	ug/kg	< 10	< 20	< 10	< 10	< 10	< 10	< 10	< 10
1,1-Dichloroethane	ug/kg	< 6	< 8	< 6	< 6	< 6	< 6	< 6	< 6
1,2-Dichloroethane	ug/kg	< 3	< 5	< 4	< 3	< 4	< 3	< 4	< 4
1,1-Dichloroethylene	ug/kg	18.5	< 5	< 4	< 3	< 4	< 3	< 4	< 4
1,2-Dichloropropane	ug/kg	< 7	< 10	< 8	< 7	< 8	< 7	< 8	< 8
cis-1,3-Dichloropropylene	ug/kg	< 6	< 9	< 7	< 6	< 7	< 6	< 7	< 6
Ethylbenzene	ug/kg	< 9	< 10	< 9	< 8	< 10	< 9	< 10	< 9
Methyl bromide	ug/kg	< 10	< 20	< 10	< 10	< 10	< 10	< 10	< 10
Methyl chloride	ug/kg	< 10	< 20	< 10	< 10	< 10	< 10	< 10	< 10
Methylene chloride	ug/kg	< 3	< 5	< 4	< 3	< 4	< 3	< 4	< 4
1,1,2,2-Tetrachloroethane	ug/kg	< 8	< 10	< 9	< 8	< 9	< 8	< 9	< 9
Tetrachloroethylene	ug/kg	< 5	< 7	< 5	< 5	< 6	< 5	< 6	< 5
Toluene	ug/kg	< 7	3.3	< 8	< 7	< 8	< 7	< 8	< 8
1,2-Trans-dichloroethylene	ug/kg	< 2	< 3	< 2	< 2	< 2	< 2	< 2	< 2
1,1,1-Trichloroethane	ug/kg	< 5	< 7	< 5	< 4	< 5	< 5	< 5	< 5
1,1,2-Trichloroethane	ug/kg	< 6	< 9	< 7	< 6	< 7	< 6	< 7	< 6
Trichloroethylene	ug/kg	2.0	< 3	< 3	< 2	< 3	< 2	< 3	< 2
Trichlorofluoromethane	ug/kg	< 10	< 20	< 10	< 10	< 10	< 10	< 10	3.6
Vinyl chloride	ug/kg	< 10	< 20	< 10	< 10	< 10	< 10	< 10	< 10
trans-1,3-Dichloropropylene	ug/kg	< 10	< 20	< 10	< 10	< 10	< 10	< 10	< 10
Priority Poll. Acids GC/MS									
2-Chlorophenol	ug/kg	< 400	< 6000	< 400	< 400	< 500	< 4000	< 5000	< 4000
2,4-Dichlorophenol	ug/kg	< 300	< 5000	< 400	< 300	< 400	< 3000	< 4000	< 3000

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-OC) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

WASTE MANAGEMENT, INC. 705

See Below ETC Sample No. | Company | Facility | See Below Sample Point | Date

Parameters	Units	S SS-3 911120 HA6809	S SS-23 911120 HA6810	X SSDUP02 911120 HA6812	S SS-5 911120 HA6813	S SS-20 911120 HA6814	S SS-21 911120 HA6815	S SS-6 911120 HA6819	S SS-10 911120 HA6820
2,4-Dimethylphenol	ug/kg	< 300	< 5000	< 400	< 300	< 400	< 3000	< 4000	< 3000
4,6-Dinitro-o-cresol	ug/kg	< 3000	<40000	< 3000	< 3000	< 3000	<30000	<30000	<30000
2,4-Dinitrophenol	ug/kg	< 5000	<70000	< 6000	< 5000	< 6000	<50000	<60000	<50000
2-Nitrophenol	ug/kg	< 400	< 6000	< 500	< 400	< 500	< 4000	< 5000	< 5000
4-Nitrophenol	ug/kg	< 300	< 4000	< 300	< 300	< 300	< 3000	< 3000	< 3000
p-Chloro-m-cresol	ug/kg	< 400	< 5000	< 400	< 400	< 400	< 4000	< 4000	< 4000
Pentachlorophenol	ug/kg	< 400	< 6000	< 500	< 400	< 500	< 4000	< 5000	< 5000
Phenol	ug/kg	< 200	< 3000	< 200	< 200	< 200	< 2000	< 2000	< 2000
2,4,6-Trichlorophenol	ug/kg	< 300	< 5000	< 400	< 300	< 400	< 3000	< 4000	< 3000
Priority Poll. B/Ns GC/MS									
Acenaphthene	ug/kg	< 200	< 3000	< 300	< 200	< 300	< 2000	< 3000	< 2000
Acenaphthylene	ug/kg	< 400	< 6000	< 500	< 400	< 500	< 4000	< 5000	< 4000
Anthracene	ug/kg	< 200	< 3000	< 300	190	< 300	< 2000	< 3000	< 2000
Benzo(a)anthracene	ug/kg	400	2600	640	1020	< 1000	< 9000	<10000	<10000
Benzo(a)pyrene	ug/kg	305	< 4000	712	998	< 300	< 3000	< 3000	< 3000
Benzo(b)fluoranthene	ug/kg	606	< 8000	1380	1240	< 700	< 6000	< 7000	< 6000
Benzo(ghi)perylene	ug/kg	< 500	< 7000	< 500	< 500	< 600	< 5000	< 6000	< 5000
Benzo(k)fluoranthene	ug/kg	314	< 4000	580	762	< 300	< 3000	< 3000	< 3000
bis(2-Chloroethoxy)methane	ug/kg	< 600	< 9000	< 700	< 600	< 700	< 6000	< 7000	< 7000
bis(2-Chloroethyl) ether	ug/kg	< 700	<10000	< 800	< 700	< 800	< 7000	< 8000	< 7000
bis(2-Chloroisopropyl)ether	ug/kg	< 700	<10000	< 800	< 700	< 800	< 7000	< 8000	< 7000
bis(2-Ethylhexyl)phthalate	ug/kg	280	<20000	440	300	< 1000	<10000	<10000	<10000
4-Bromophenyl phenyl ether	ug/kg	< 200	< 3000	< 300	< 200	< 300	< 2000	< 3000	< 2000
Butyl benzyl phthalate	ug/kg	< 1000	<20000	< 1000	< 1000	< 1000	<10000	<10000	<10000
2-Chloronaphthalene	ug/kg	< 200	< 3000	< 300	< 200	< 300	< 2000	< 3000	< 2000
4-Chlorophenyl phenyl ether	ug/kg	< 500	< 7000	< 600	< 500	< 600	< 5000	< 6000	< 5000
Chrysene	ug/kg	524	3000	791	1250	< 300	< 3000	2400	< 3000
Dibenzo(a,h)anthracene	ug/kg	< 300	< 4000	< 300	< 300	< 300	< 3000	< 3000	< 3000
1,2-Dichlorobenzene	ug/kg	< 200	< 3000	< 300	< 200	< 300	< 2000	< 3000	< 2000
1,3-Dichlorobenzene	ug/kg	< 200	< 3000	< 300	< 200	< 300	< 2000	< 3000	< 2000
1,4-Dichlorobenzene	ug/kg	< 500	< 8000	< 600	< 500	< 600	< 5000	< 6000	< 6000
3,3'-Dichlorobenzidine	ug/kg	< 2000	<30000	< 2000	< 2000	< 2000	<20000	<20000	<20000
Diethyl phthalate	ug/kg	< 1000	<20000	< 1000	< 1000	< 1000	<10000	<10000	<10000
Dimethyl phthalate	ug/kg	< 1000	<20000	< 1000	< 1000	< 1000	<10000	<10000	<10000
Di-n-butyl phthalate	ug/kg	2020	3300	1570	1530	1300	<10000	<10000	<10000

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below — *ETC Sample No.* | WASTE MANAGEMENT, INC. — *Company* | 705 — *Facility* | See Below — *Sample Point* | *Date*

Parameters	*Units*	S SS-3 911120 HA6809	S SS-23 911120 HA6810	X SSDUP02 911120 HA6812	S SS-5 911120 HA6813	S SS-20 911120 HA6814	S SS-21 911120 HA6815	S SS-6 911120 HA6819	S SS-10 911120 HA6820
2,4-Dinitrotoluene	ug/kg	< 700	<10000	< 800	< 700	< 800	< 7000	< 8000	< 7000
2,6-Dinitrotoluene	ug/kg	< 200	< 3000	< 300	< 200	< 300	< 2000	< 3000	< 2000
Di-n-octyl phthalate	ug/kg	< 1000	<20000	< 1000	< 1000	< 1000	<10000	<10000	<10000
Fluoranthene	ug/kg	833	6070	1010	1960	< 300	2400	4120	1700
Fluorene	ug/kg	< 200	< 3000	< 300	< 200	< 300	< 2000	< 3000	< 2000
Hexachlorobenzene	ug/kg	< 200	< 3000	< 300	275	< 300	< 2000	< 3000	3100
Hexachlorobutadiene	ug/kg	< 100	< 2000	< 100	< 100	< 100	< 1000	< 1000	< 1000
Hexachlorocyclopentadiene	ug/kg	< 1000	<20000	< 1000	< 1000	< 1000	<10000	<10000	<10000
Hexachloroethane	ug/kg	< 200	< 3000	< 200	< 200	< 200	< 2000	< 2000	< 2000
Indeno(1,2,3-c,d)pyrene	ug/kg	< 400	< 6000	< 500	529	< 500	< 4000	< 5000	< 5000
Isophorone	ug/kg	< 300	< 4000	< 300	< 300	< 300	< 3000	< 3000	< 3000
Naphthalene	ug/kg	< 200	< 3000	282	< 200	< 200	< 2000	< 2000	< 2000
Nitrobenzene	ug/kg	< 200	< 3000	< 300	< 200	< 300	< 2000	< 3000	< 2000
N-Nitrosodimethylamine	ug/kg	< 1000	<20000	< 1000	< 1000	< 1000	<10000	<10000	<10000
N-Nitrosodi-n-propylamine	ug/kg	< 1000	<20000	< 1000	< 1000	< 1000	<10000	<10000	<10000
N-Nitrosodiphenylamine	ug/kg	< 200	< 3000	< 300	< 200	< 300	< 2000	< 3000	< 2000
Phenanthrene	ug/kg	1330	6100	742	1020	< 700	1900	3200	< 7000
Pyrene	ug/kg	1010	5180	1010	2010	< 300	2300	3410	2100
1,2,4-Trichlorobenzene	ug/kg	< 200	< 3000	< 300	< 200	< 300	< 2000	< 3000	< 2000
Metals Analysis Data									
Antimony	ug/kg	23000	4800	10000	22000	2300	1600	9500	< 7500
Arsenic	ug/kg	2600	9600	6000	2500	4400	1100	7200	5400
Beryllium	ug/kg	1300	2000	690	1300	360	270	1500	1900
Cadmium	ug/kg	12000	4300	5800	12000	1500	540	4700	1700
Chromium	ug/kg	1060000	57000	130000	740000	8900	29000	184000	27000
Copper	ug/kg	36000	32000	42000	44000	15000	16000	49000	23000
Lead	ug/kg	43000	270000	490000	92000	11000	45000	260000	44000
Mercury	ug/kg	57	230	180	110	< 94	250	150	110
Nickel	ug/kg	26000	13000	13000	14000	15000	7500	24000	17000
Selenium	ug/kg	400	560	420	< 1800	< 590	130	440	300
Silver	ug/kg	3300	610	1400	2400	270	270	920	560
Thallium	ug/kg	< 1200	< 1800	< 1300	< 2400	< 1200	< 1200	290	330
Zinc	ug/kg	81000	744000	1780000	110000	40000	82000	481000	81000

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC

DATA MANAGEMENT SUMMARY REPORT
(DM-0C) - All Parameters Tested, Selected Samples

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	705	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		S SS-7 911120 HA6821	S SS-11 911121 HA6816	S SS-12 911121 HA6817	S SS-13 911121 HA6818	S SS-18 911121 HA6822	S SS-19 911121 HA6823	S SS-8 911121 HA6824	S SS-9 911121 HA6825
Priority Poll. Volatiles GC/MS									
Benzene	ug/kg	< 7	< 5	< 5	< 20	< 5	< 5	< 7	< 6
Bromoform	ug/kg	< 7	< 6	< 6	< 20	< 6	< 6	< 8	< 6
Carbon tetrachloride	ug/kg	< 4	< 3	< 3	< 10	< 3	< 3	< 5	< 4
Chlorobenzene	ug/kg	< 9	< 7	< 7	< 30	< 7	< 7	< 10	< 8
Chlorodibromomethane	ug/kg	< 5	< 4	< 4	< 20	< 4	< 4	< 5	< 4
Chloroethane	ug/kg	< 20	< 10	< 10	< 50	< 10	< 10	< 20	< 10
2-Chloroethylvinyl ether	ug/kg	< 20	< 10	< 10	< 50	< 10	< 10	< 20	< 10
Chloroform	ug/kg	< 3	< 2	< 2	< 8	< 2	< 2	< 3	< 2
Dichlorobromomethane	ug/kg	< 3	< 3	< 3	< 10	< 3	< 3	< 4	< 3
Dichlorodifluoromethane	ug/kg	< 20	< 10	< 10	< 50	< 10	< 10	< 20	< 10
1,1-Dichloroethane	ug/kg	< 7	< 6	< 6	< 20	< 6	< 6	< 8	< 6
1,2-Dichloroethane	ug/kg	< 4	< 3	< 3	< 10	< 3	< 3	< 5	< 4
1,1-Dichloroethylene	ug/kg	< 4	< 3	< 3	< 10	< 3	< 3	< 5	< 4
1,2-Dichloropropane	ug/kg	< 9	< 7	< 7	< 30	< 7	< 7	< 10	< 8
cis-1,3-Dichloropropylene	ug/kg	< 8	< 6	< 6	< 30	< 6	< 6	< 8	< 7
Ethylbenzene	ug/kg	< 10	< 9	< 9	< 40	< 8	< 9	< 10	< 10
Methyl bromide	ug/kg	< 20	< 10	< 10	< 50	< 10	< 10	< 20	< 10
Methyl chloride	ug/kg	< 20	< 10	< 10	< 50	< 10	< 10	< 20	< 10
Methylene chloride	ug/kg	< 4	< 3	< 3	16.0	< 3	3.95	< 5	< 3.84
1,1,2,2-Tetrachloroethane	ug/kg	< 10	< 8	< 8	< 34.5	< 8	< 8	< 10	< 9.45
Tetrachloroethylene	ug/kg	< 6	< 5	< 5	< 20	< 5	< 5	< 7	< 6
Toluene	ug/kg	< 9	< 7	< 7	< 30	< 7	< 7	< 10	< 8
1,2-Trans-dichloroethylene	ug/kg	< 3	< 2	< 2	< 8	< 2	< 2	< 3	< 2
1,1,1-Trichloroethane	ug/kg	< 5.94	< 5	< 5	< 20	< 4	< 5	< 6	< 5
1,1,2-Trichloroethane	ug/kg	< 8	< 6	< 6	< 30	< 6	< 6	< 8	< 7
Trichloroethylene	ug/kg	< 3	< 2.29	< 2	< 10	< 2	< 2	< 3	< 3
Trichlorofluoromethane	ug/kg	< 20	< 10	< 10	< 50	< 10	< 10	< 20	< 10
Vinyl chloride	ug/kg	< 20	< 10	< 10	< 50	< 10	< 10	< 20	< 10
trans-1,3-Dichloropropylene	ug/kg	< 20	< 10	< 10	< 50	< 10	< 10	< 20	< 10
Priority Poll. Acids GC/MS									
2-Chlorophenol	ug/kg	< 5000	< 4000	< 4000	< 4000	< 4000	< 4000	< 6000	< 5000
2,4-Dichlorophenol	ug/kg	< 4000	< 3000	< 3000	< 3000	< 3000	< 3000	< 5000	< 4000

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

L

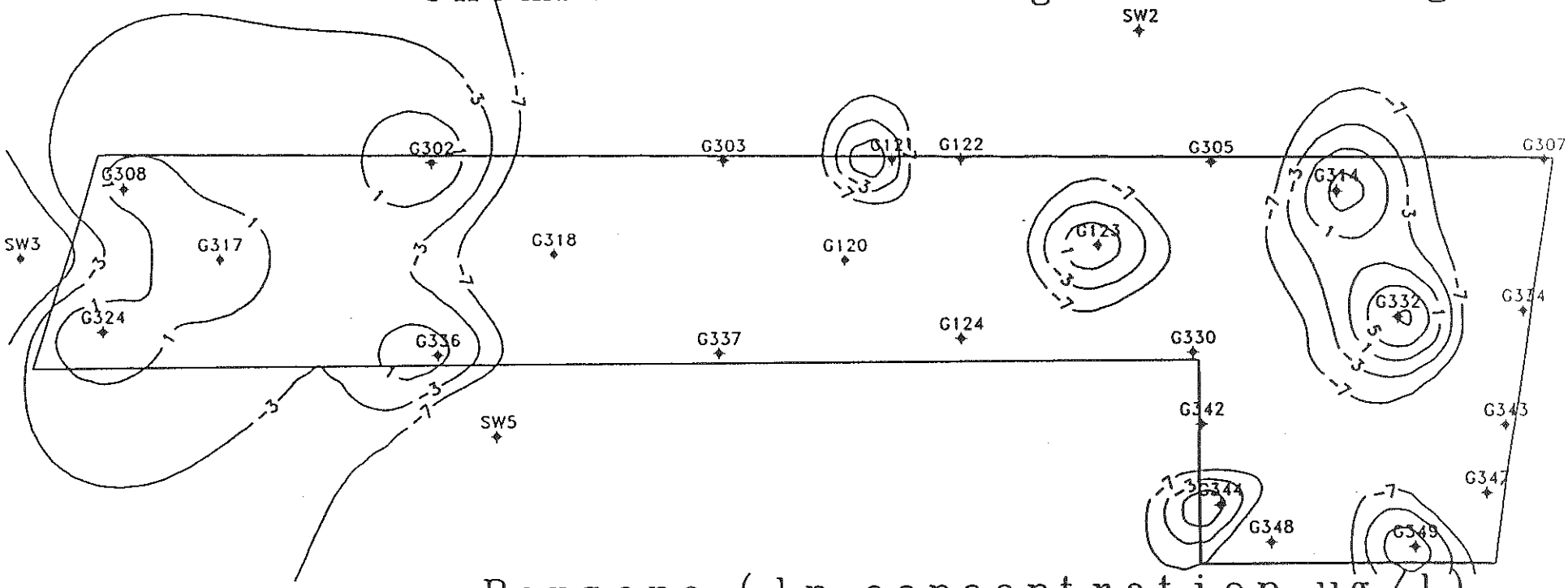
Manufactured By EconoPrint, Inc., Madison, WI

Printed On Recycled Paper

APPENDIX L
ISOCONCENTRATION MAPS

PHASE I GROUNDWATER VOLATILES

Chemical Waste Management-Chicago

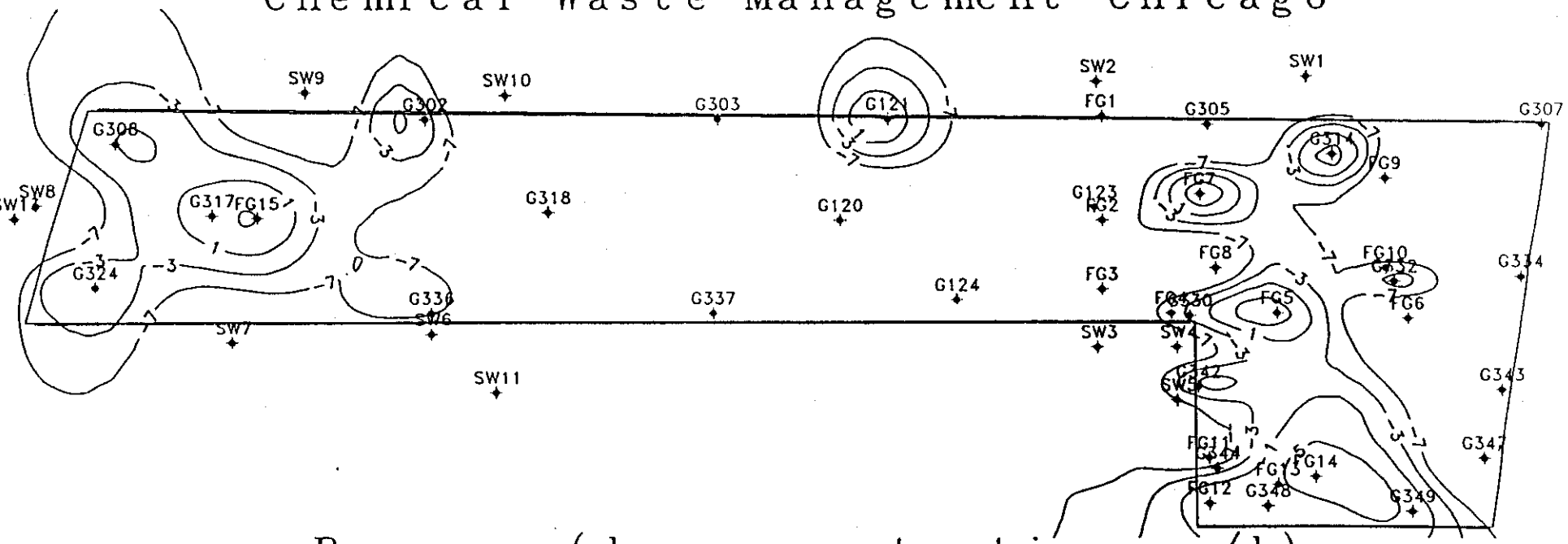


Benzene (ln concentration ug/l)

SCALE 1 inch = 300 feet

PHASE II GROUNDWATER VOLATILES

Chemical Waste Management-Chicago

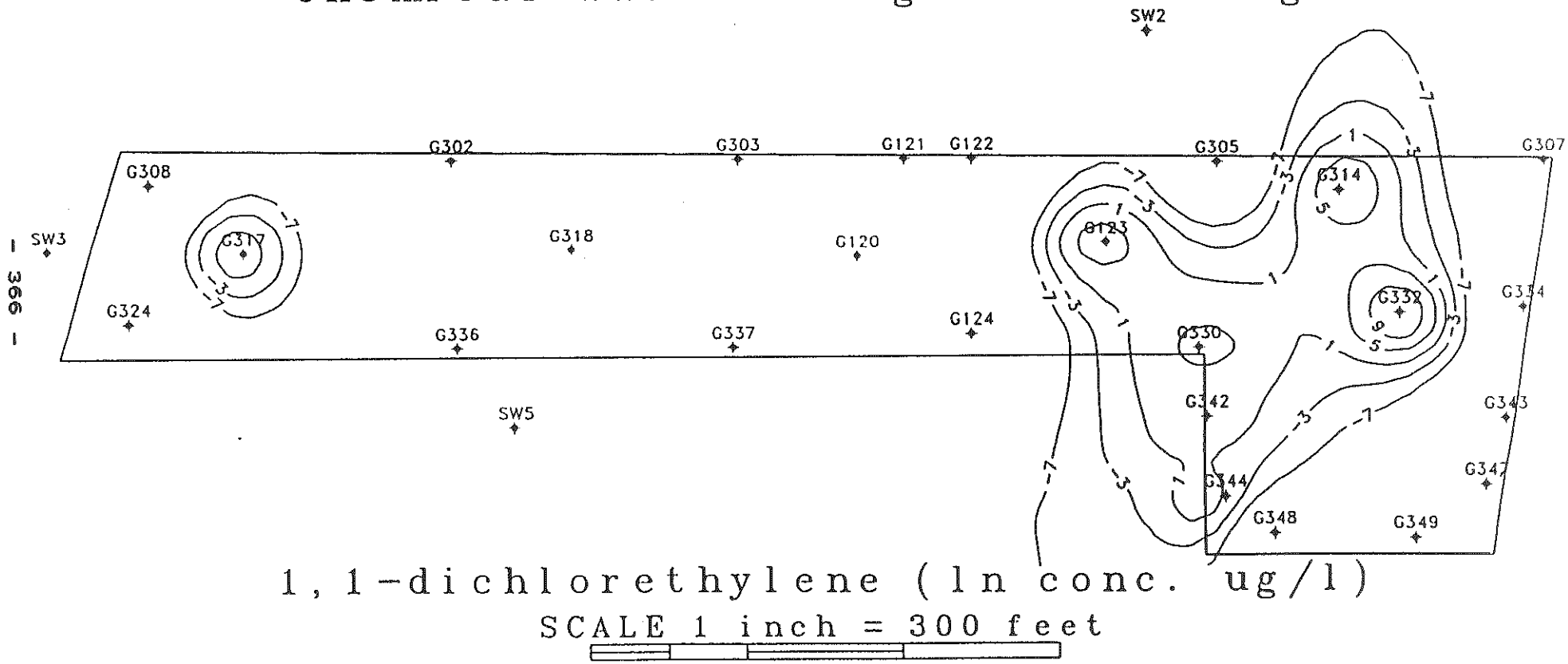


Benzene (ln concentration ug/l)

SCALE 1 inch = 300 feet

PHASE I GROUNDWATER VOLATILES

Chemical Waste Management - Chicago

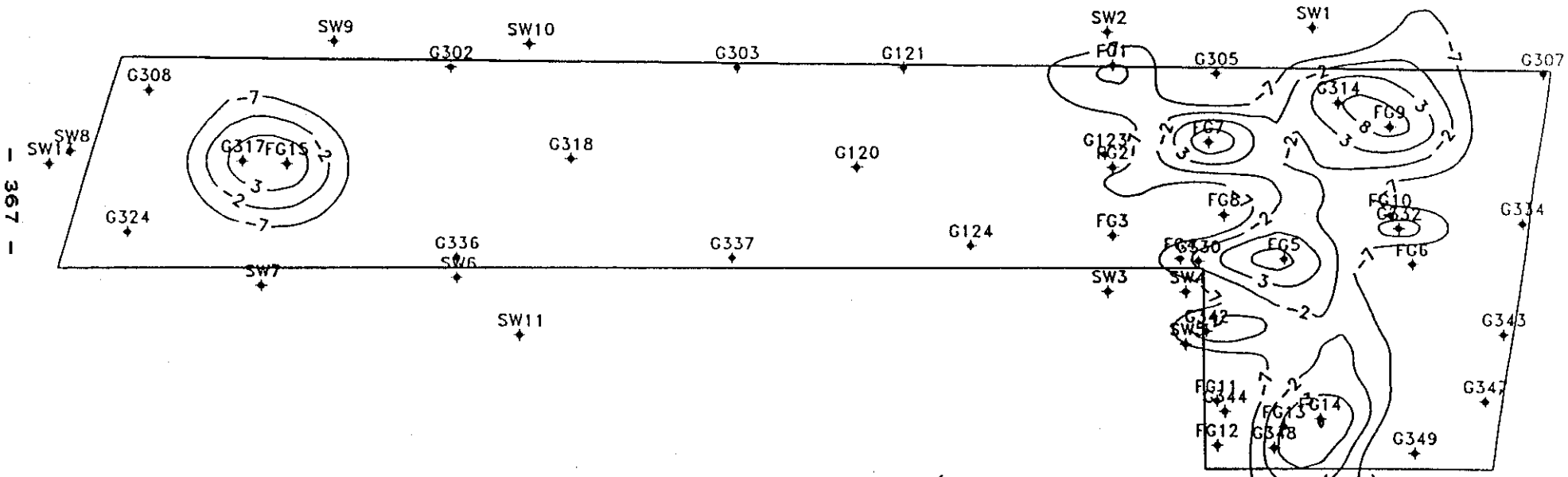


1,1-dichlorethylene (ln conc. ug/l)

SCALE 1 inch = 300 feet

PHASE II GROUNDWATER VOLATILES

Chemical Waste Management-Chicago



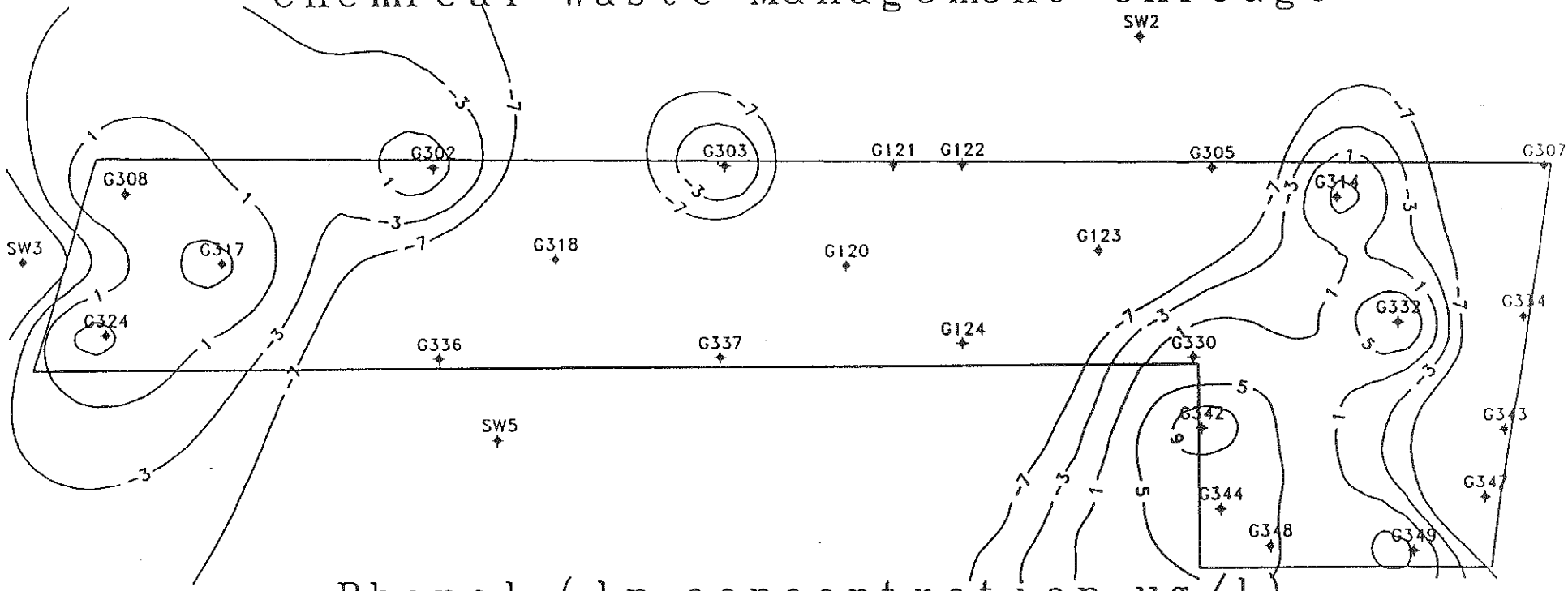
- 367 -

1,1-dichloroethylene (ln conc. ug/l)

SCALE 1 inch = 300 feet

PHASE I GROUNDWATER ACIDS

Chemical Waste Management - Chicago

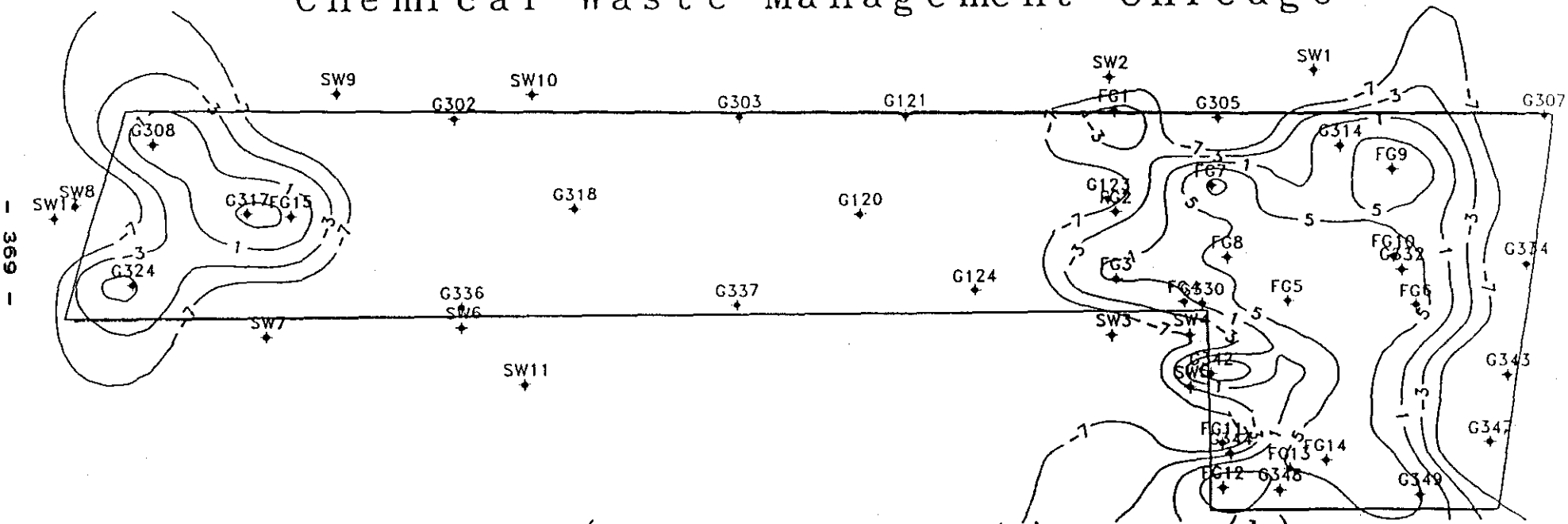


Phenol (ln concentration ug/l)

SCALE 1 inch = 300 feet

PHASE II GROUNDWATER ACIDS

Chemical Waste Management-Chicago

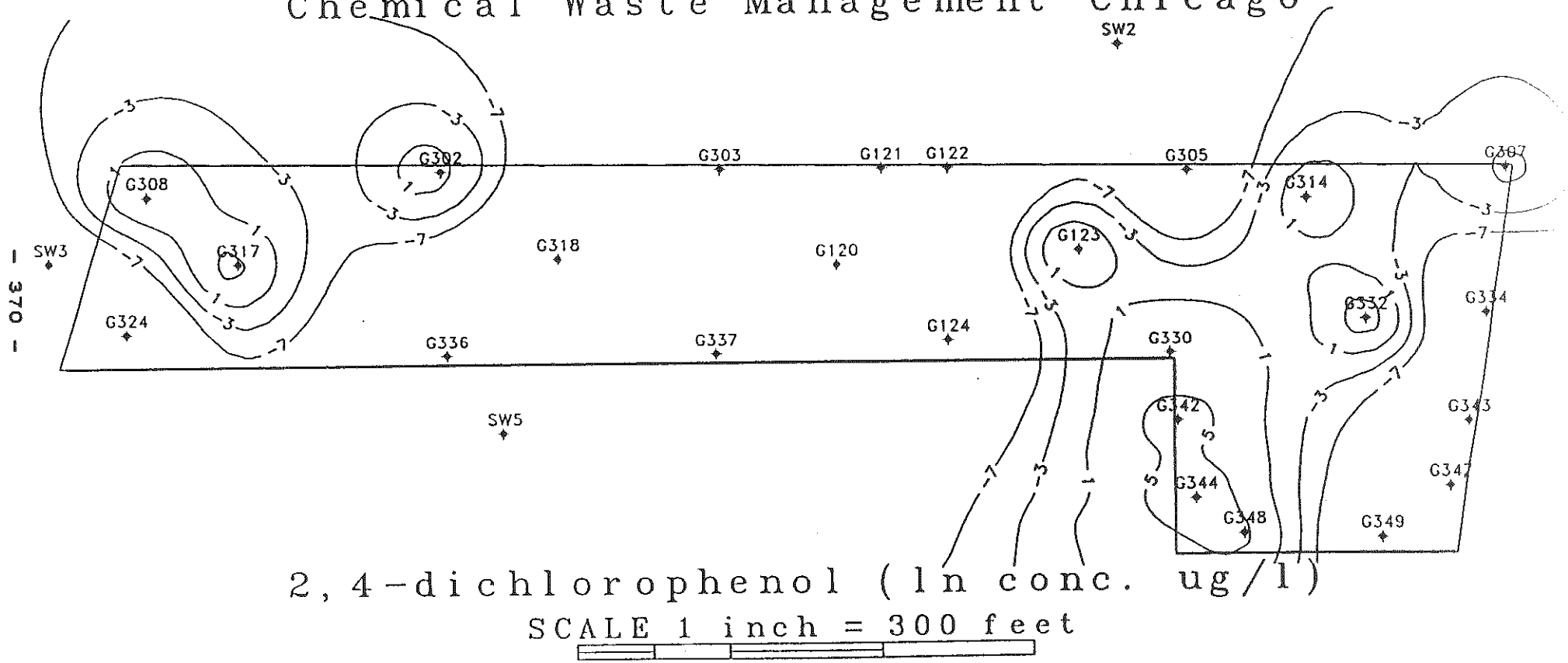


Phenol (ln concentration ug/l)

SCALE 1 inch = 300 feet

PHASE I GROUNDWATER ACIDS

Chemical Waste Management-Chicago

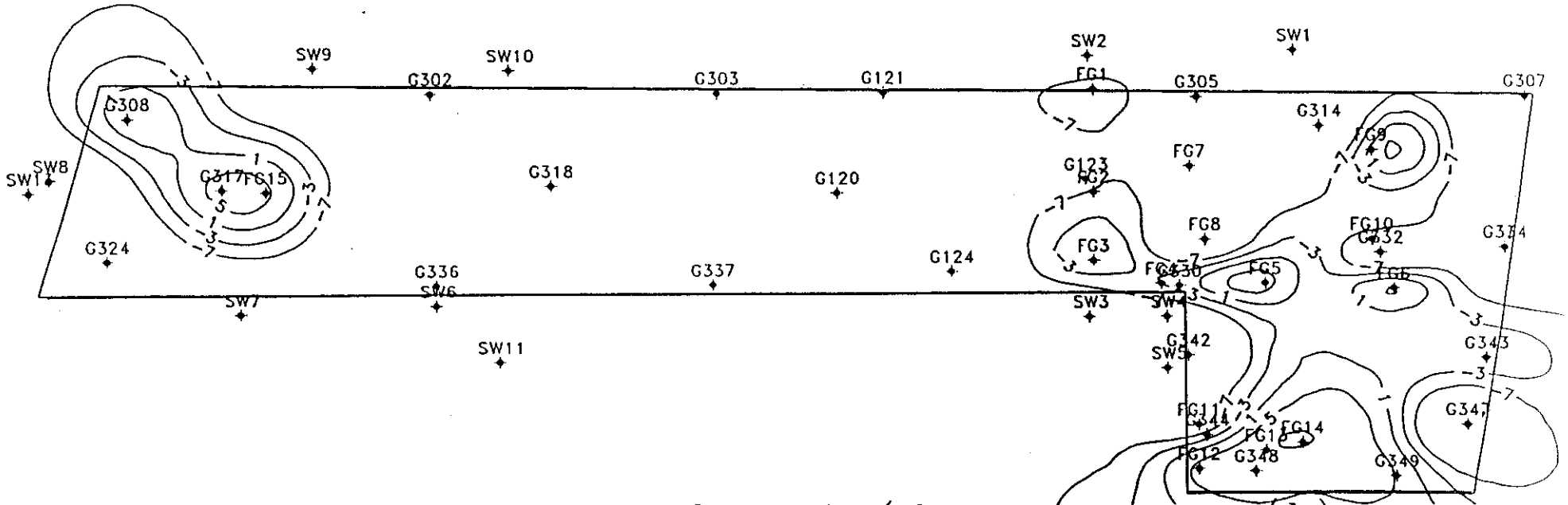


2,4-dichlorophenol (ln conc. ug/l)

SCALE 1 inch = 300 feet

PHASE II GROUNDWATER ACIDS

Chemical Waste Management-Chicago

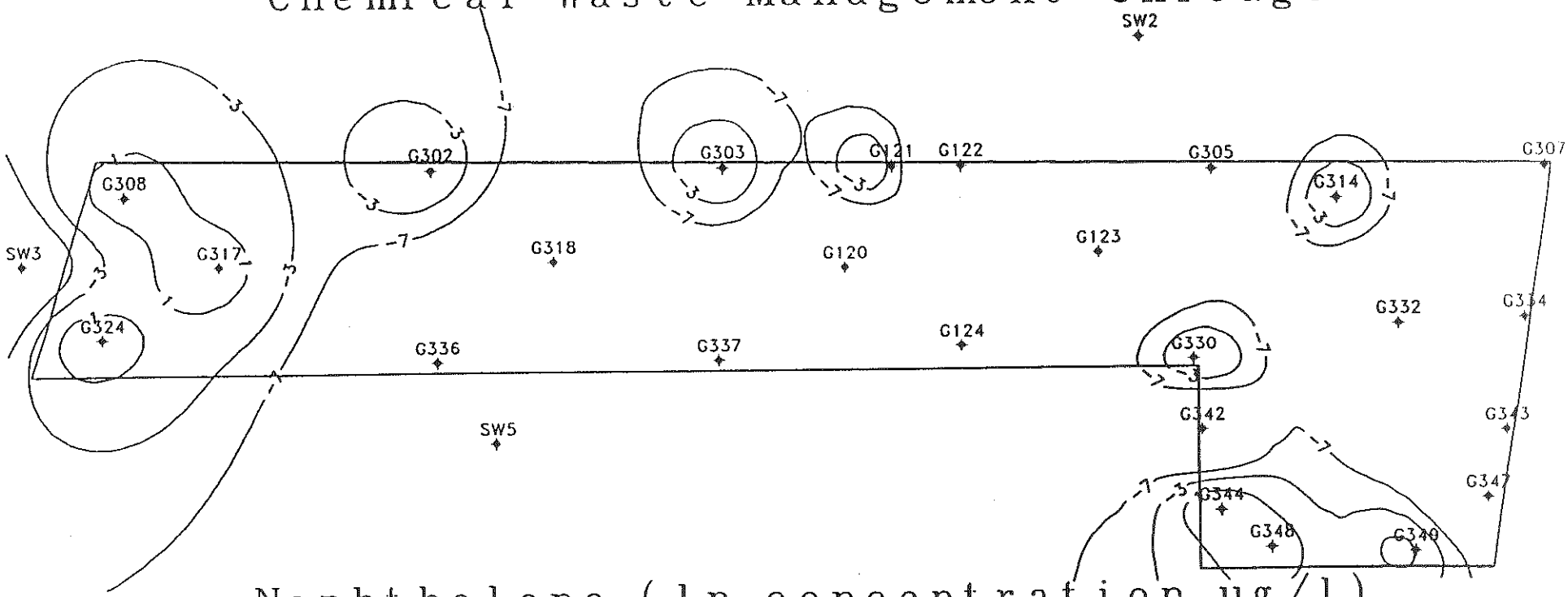


2,4-dichlorophenol (ln conc. ug/l)

SCALE 1 inch = 300 feet

PHASE I GROUNDWATER BASE NEUTRALS

Chemical Waste Management - Chicago

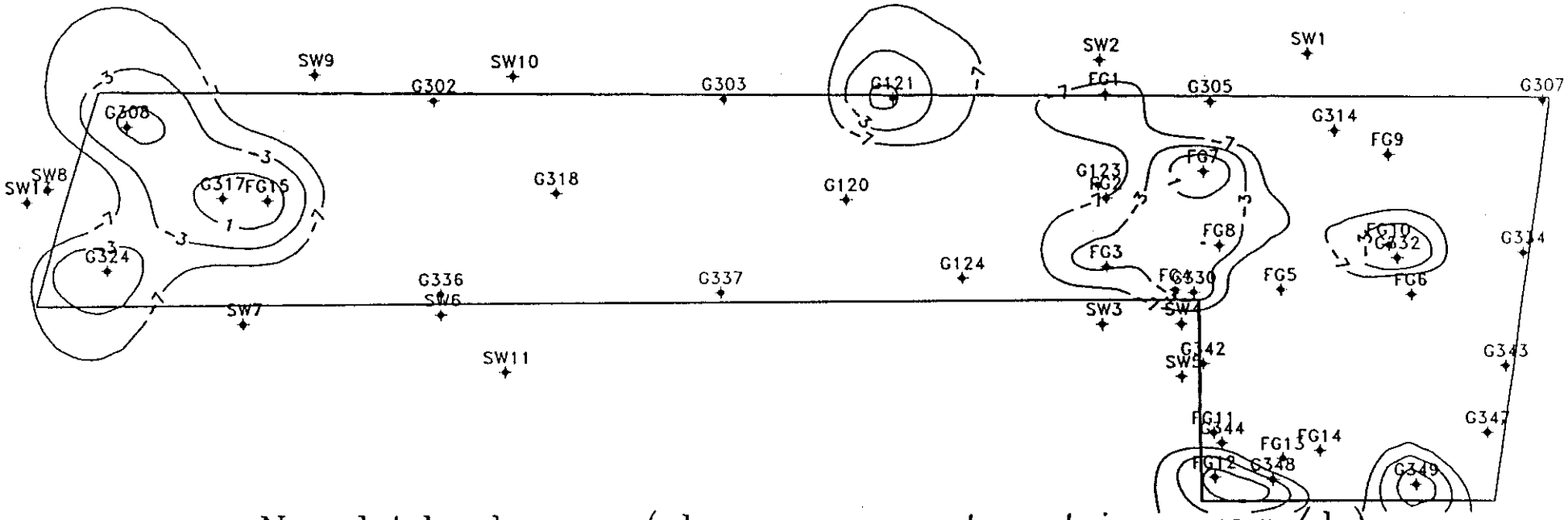


Naphthalene (ln concentration ug/l)

SCALE 1 inch = 300 feet

PHASE II GROUNDWATER BASE NEUTRALS

Chemical Waste Management - Chicago

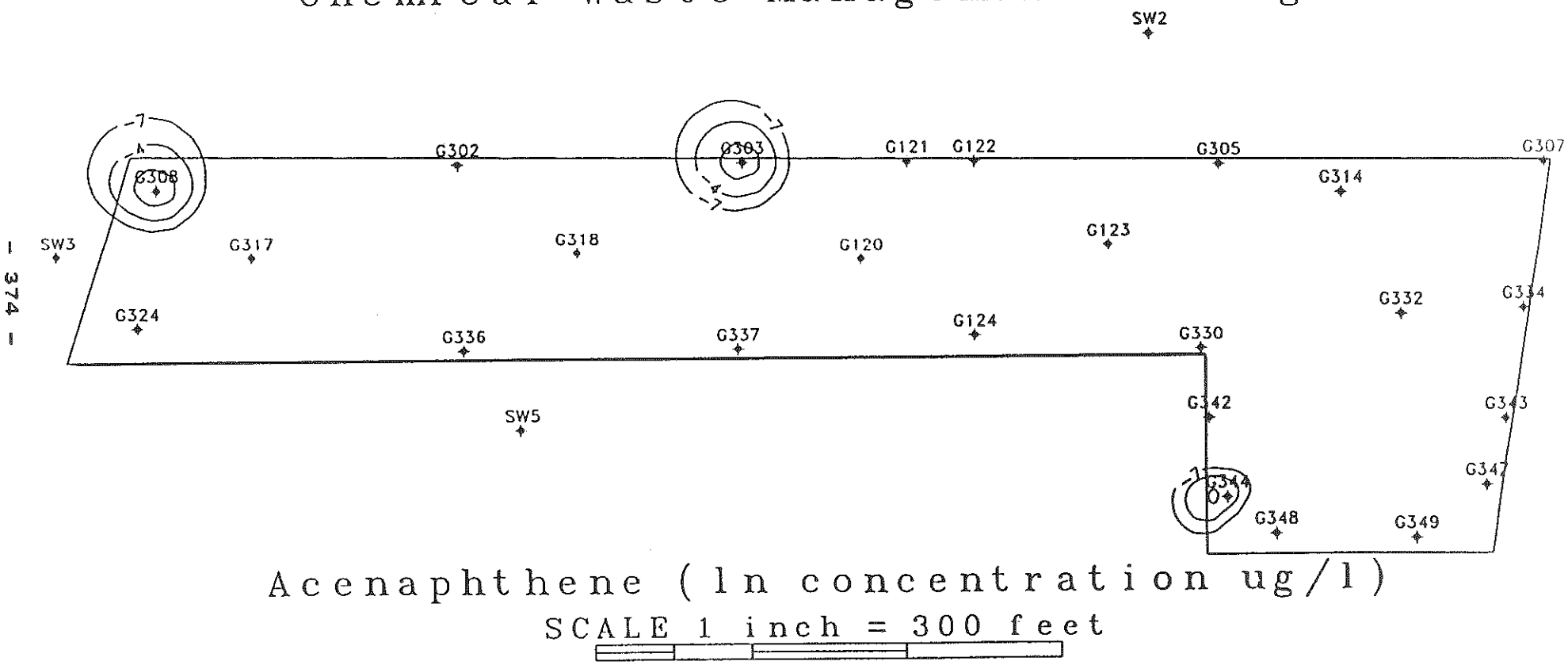


Naphthalene (ln concentration ug/l)

SCALE 1 inch = 300 feet

PHASE I GROUNDWATER BASE NEUTRALS

Chemical Waste Management-Chicago

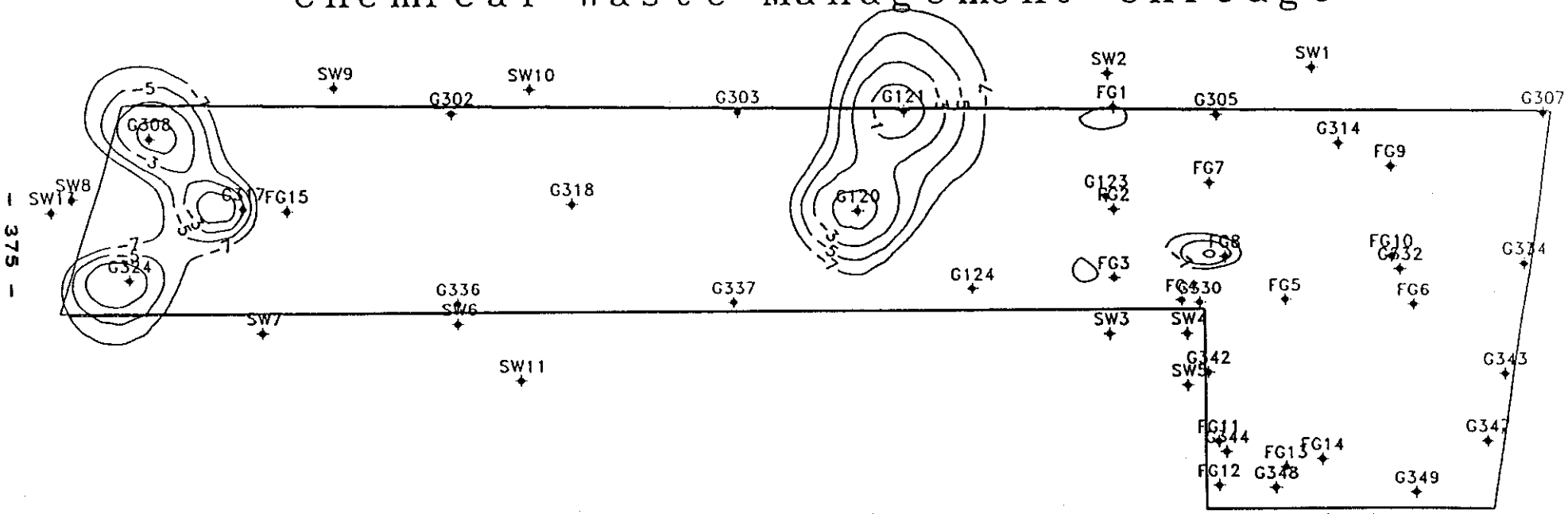


Acenaphthene (ln concentration ug/l)

SCALE 1 inch = 300 feet

PHASE II GROUNDWATER BASE NEUTRALS

Chemical Waste Management-Chicago



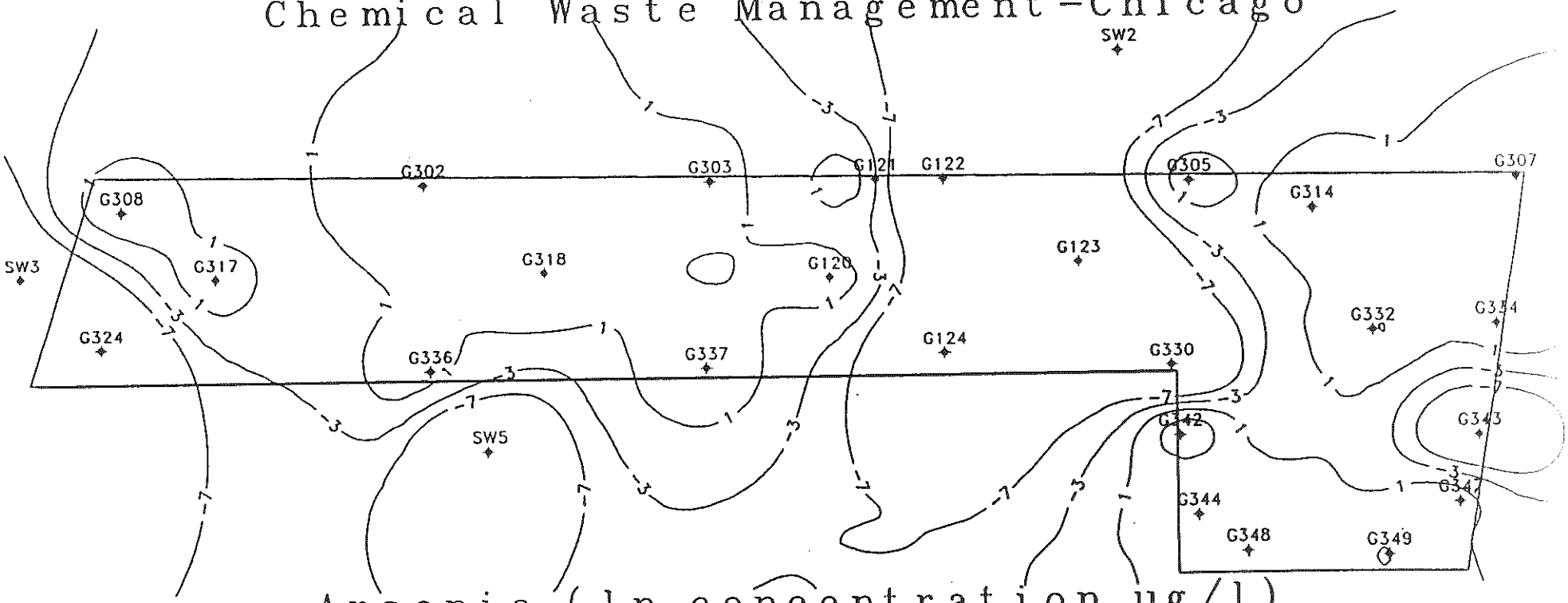
- 375 -

Acenaphthene (ln concentration ug/l)

SCALE 1 inch = 300 feet

PHASE I GROUNDWATER METALS

Chemical Waste Management - Chicago

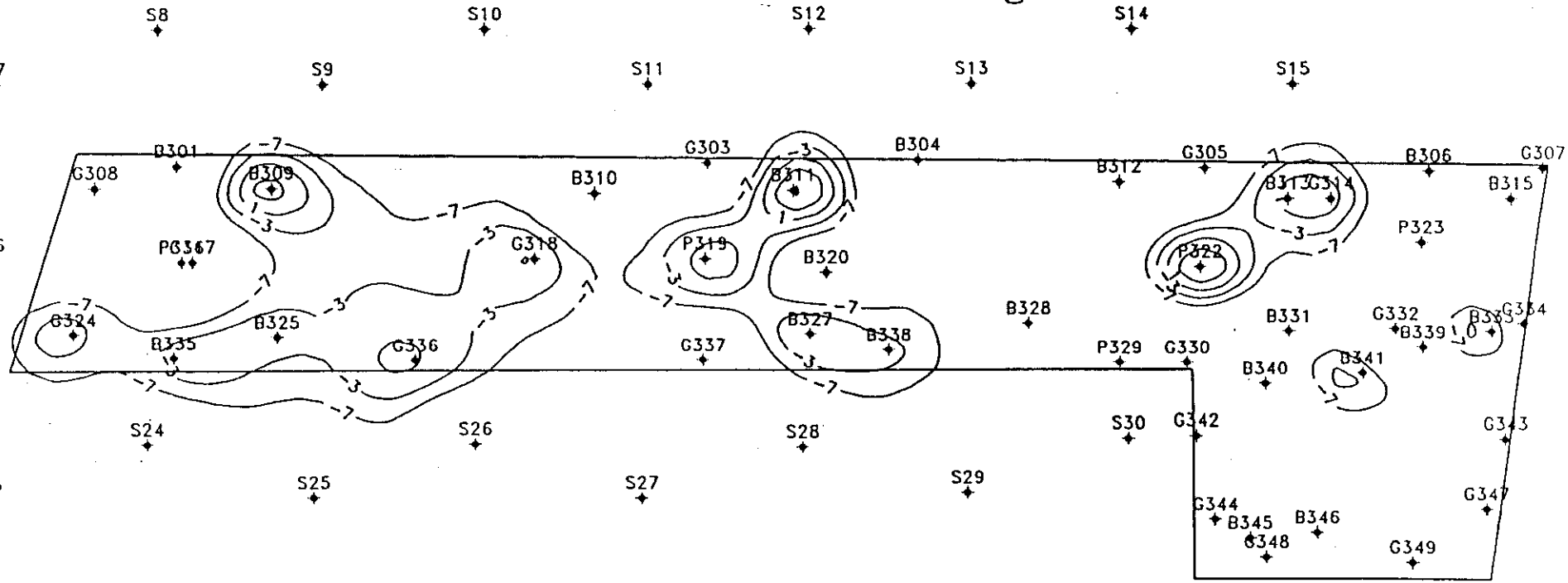


Arsenic (ln concentration ug/l)

SCALE 1 inch = 300 feet

PHASE I FILL LEVEL 1 VOLATILES

Chemical Waste Management

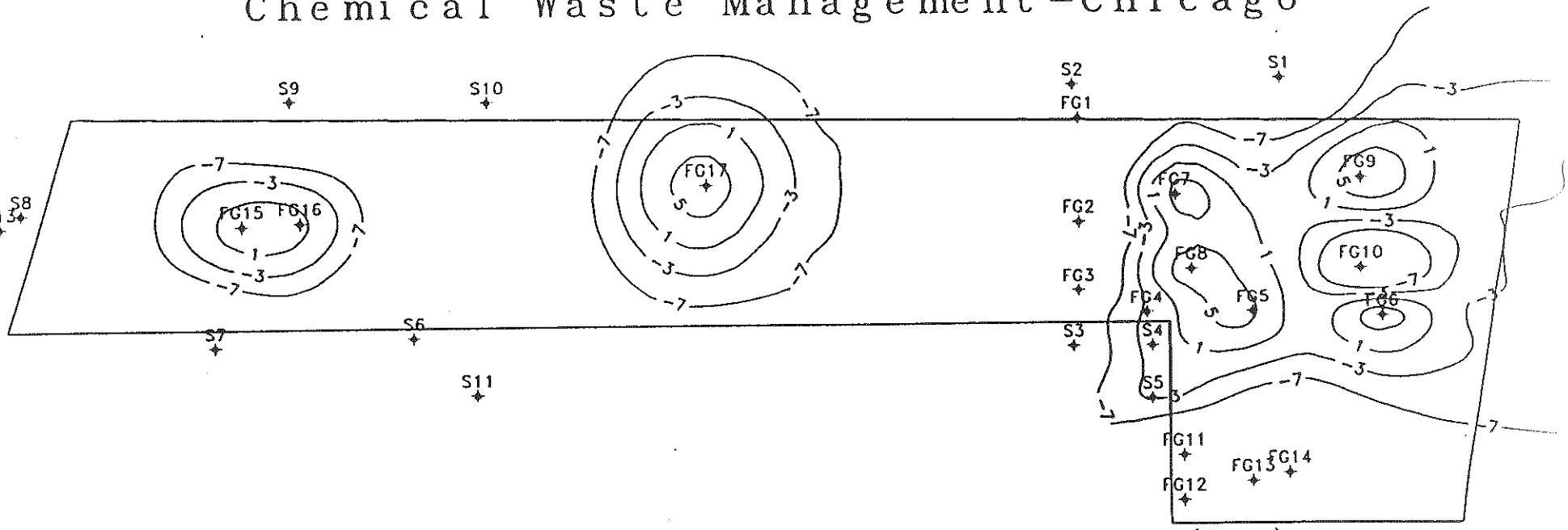


Benzene (ln concentration ug/kg)

SCALE 1 inch = 300 feet

PHASE II FILL LEVEL 1 VOLATILES

Chemical Waste Management-Chicago

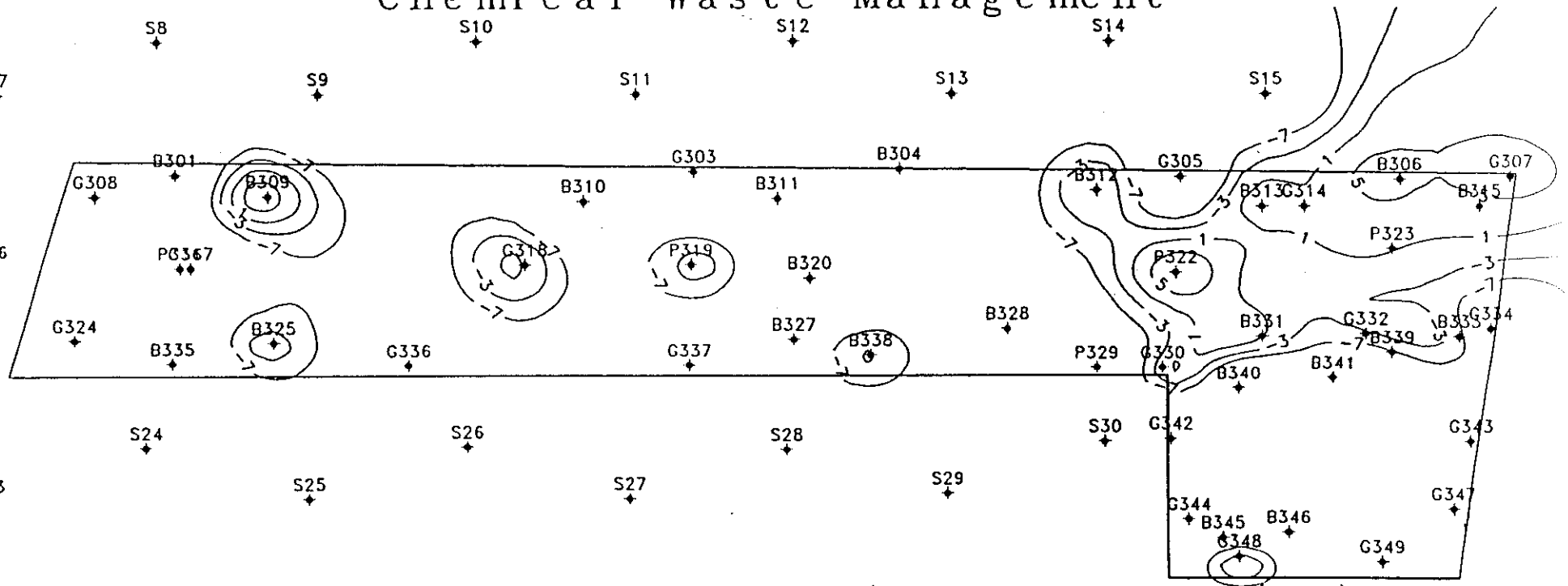


Benzene (ln concentration ug/kg)

SCALE 1 inch = 300 feet

PHASE I FILL LEVEL 1 VOLATILES

Chemical Waste Management

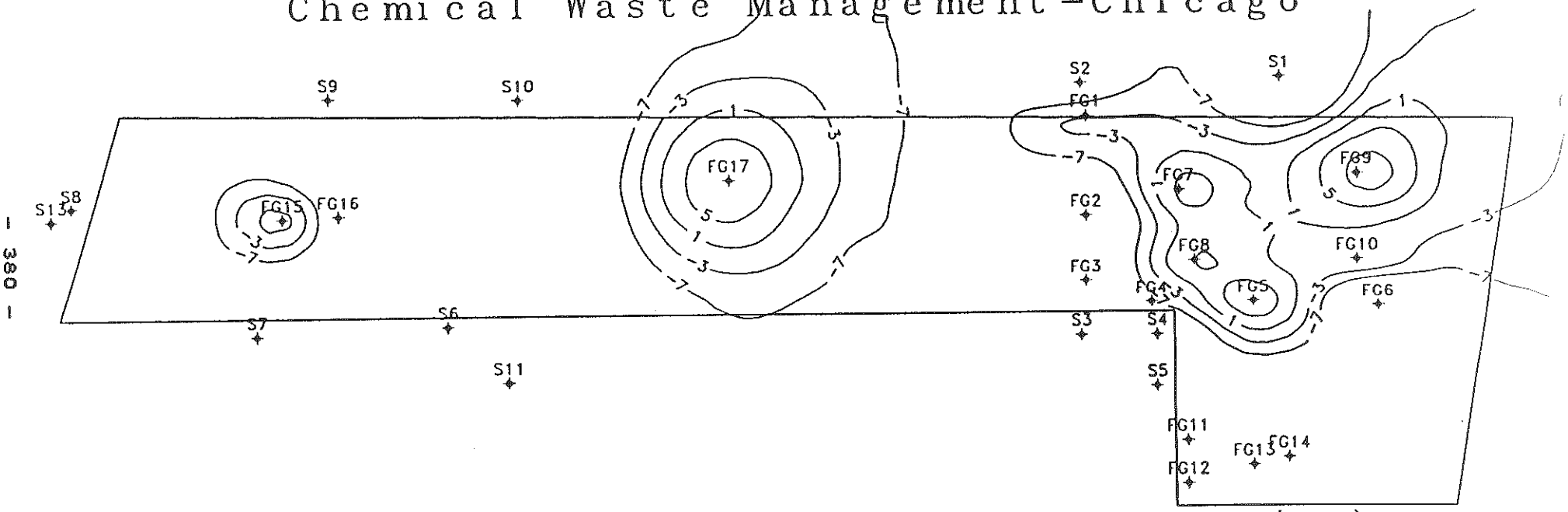


1,1-dichloroethylene(ln conc. ug/kg)

SCALE 1 inch = 300 feet

PHASE II FILL LEVEL 1 VOLATILES

Chemical Waste Management-Chicago

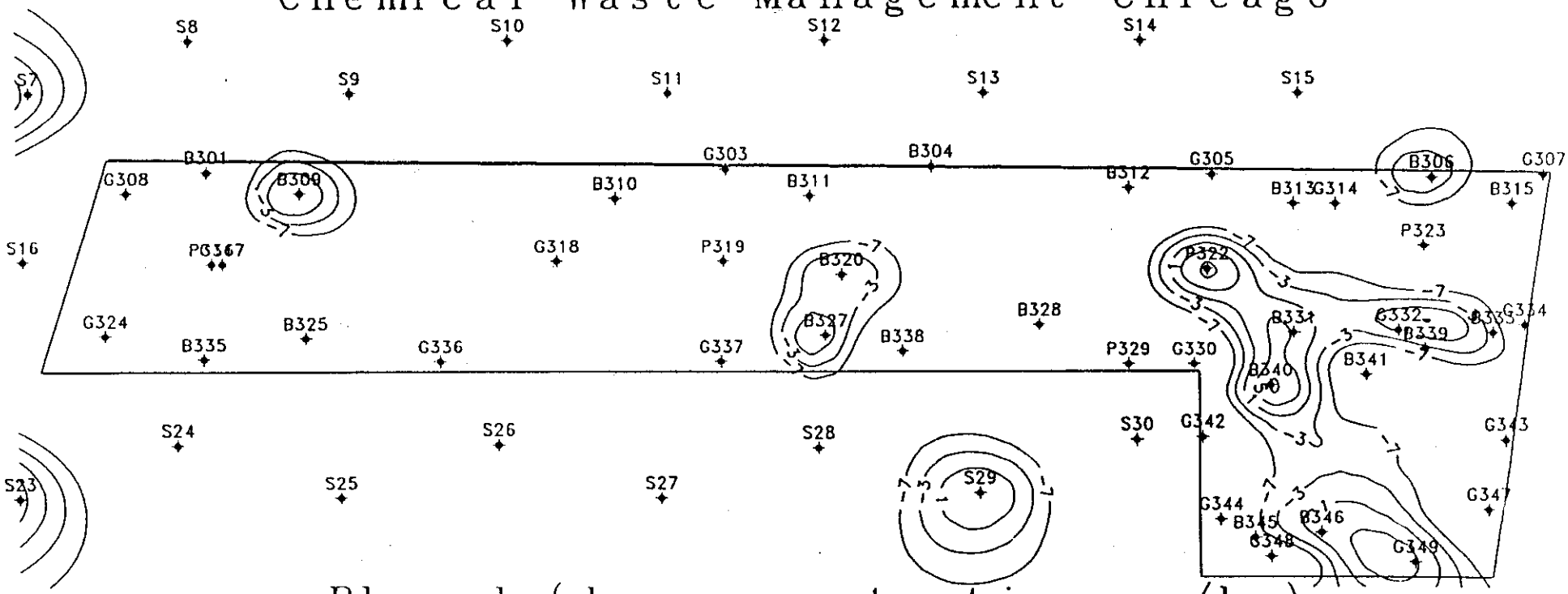


1,1-dichloroethylene (ln conc. ug/kg)

SCALE 1 inch = 300 feet

PHASE I FILL LEVEL 1 ACIDS

Chemical Waste Management-Chicago

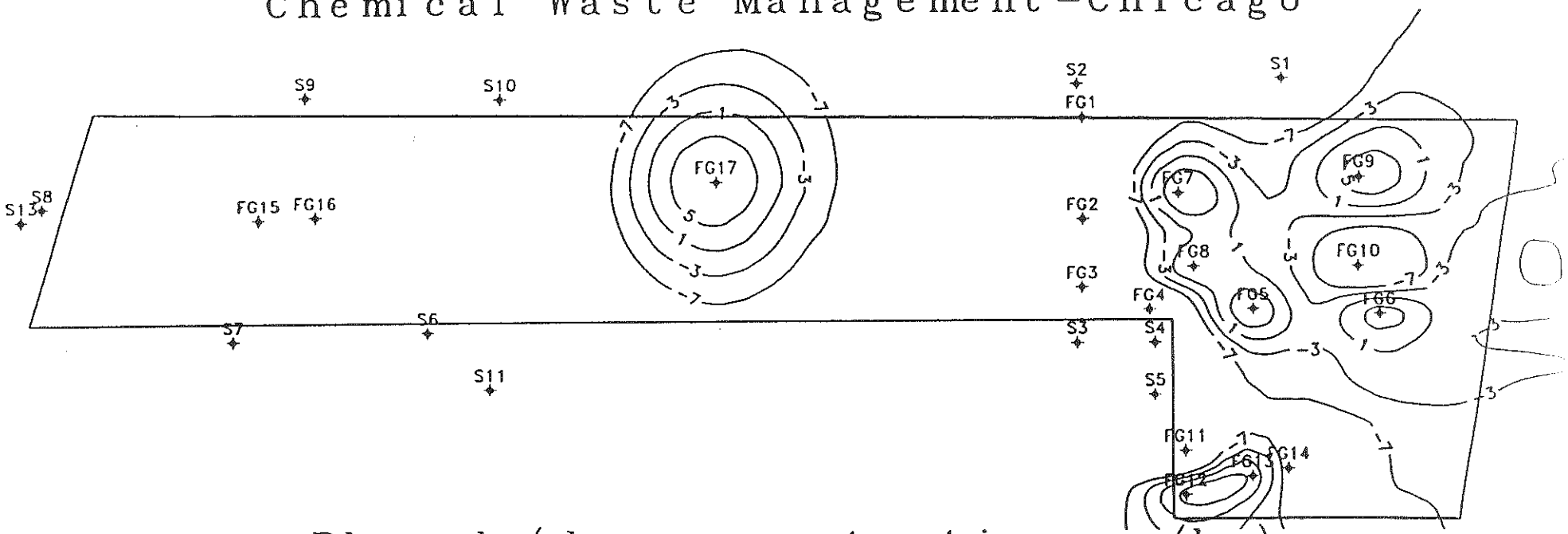


Phenol (ln concentration ug/kg)

SCALE 1 inch = 300 feet

PHASE II FILL LEVEL 1 ACIDS

Chemical Waste Management-Chicago

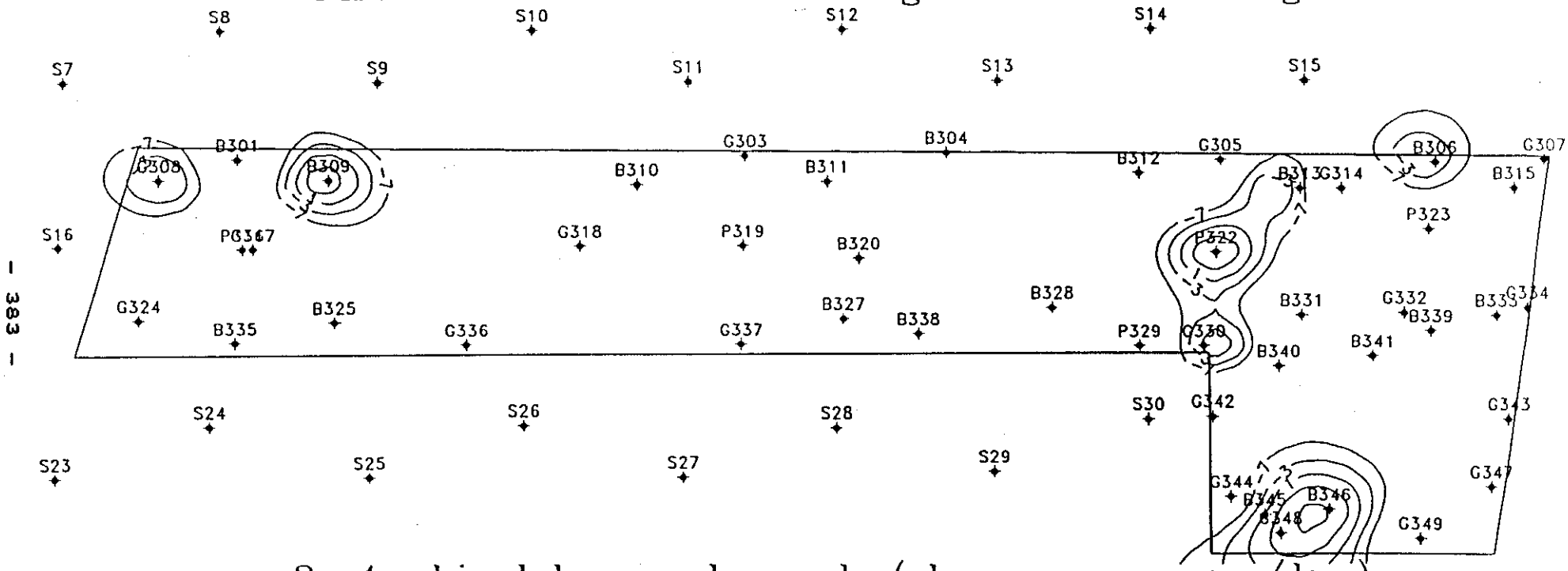


Phenol (ln concentration ug/kg)

SCALE 1 inch = 300 feet

PHASE I FILL LEVEL 1 ACIDS

Chemical Waste Management - Chicago

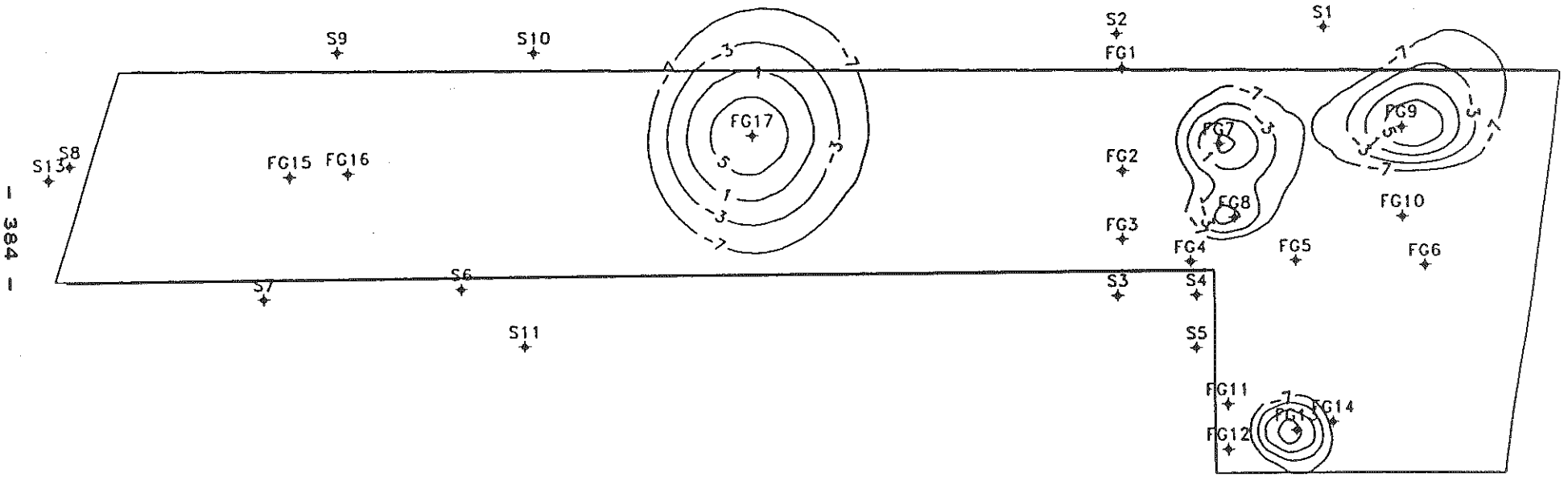


2,4-dichlorophenol (ln conc. ug/kg)

SCALE 1 inch = 300 feet

PHASE II FILL LEVEL 1 ACIDS

Chemical Waste Management-Chicago

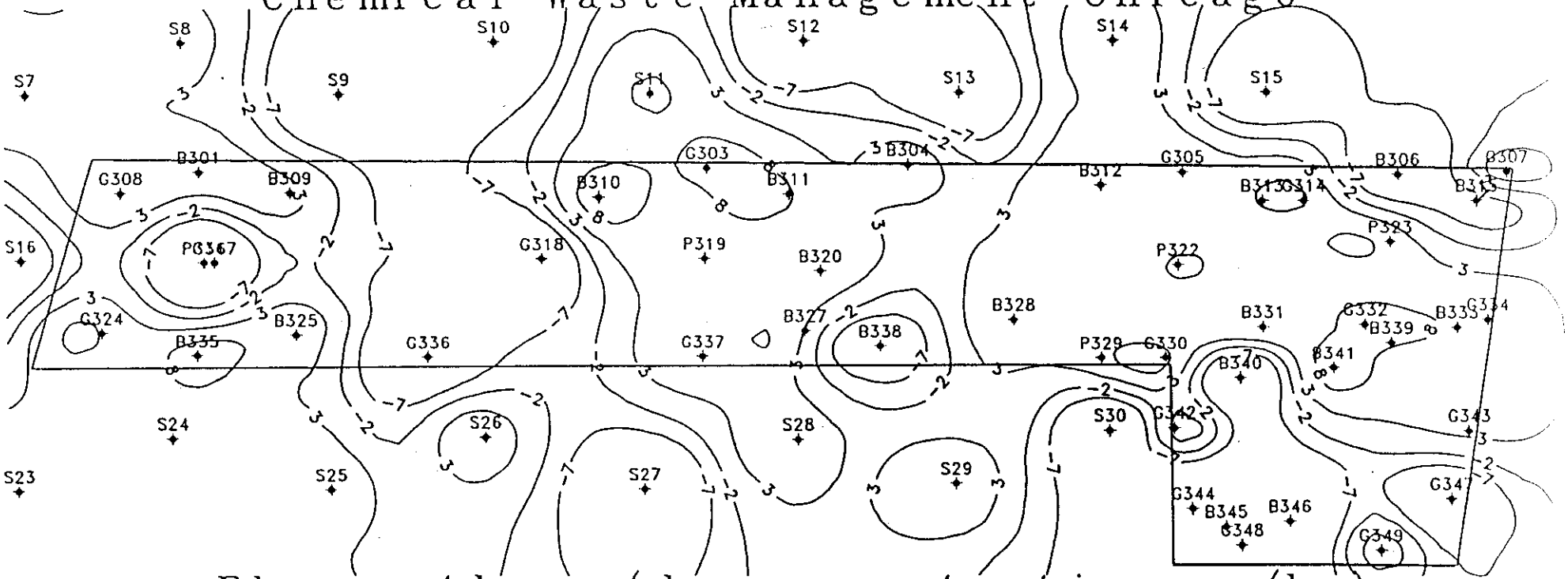


2,4-dichlorophenol (ln conc. ug/kg)

SCALE 1 inch = 300 feet

PHASE I FILL LEVEL 1 BASE NEUTRALS

Chemical Waste Management - Chicago

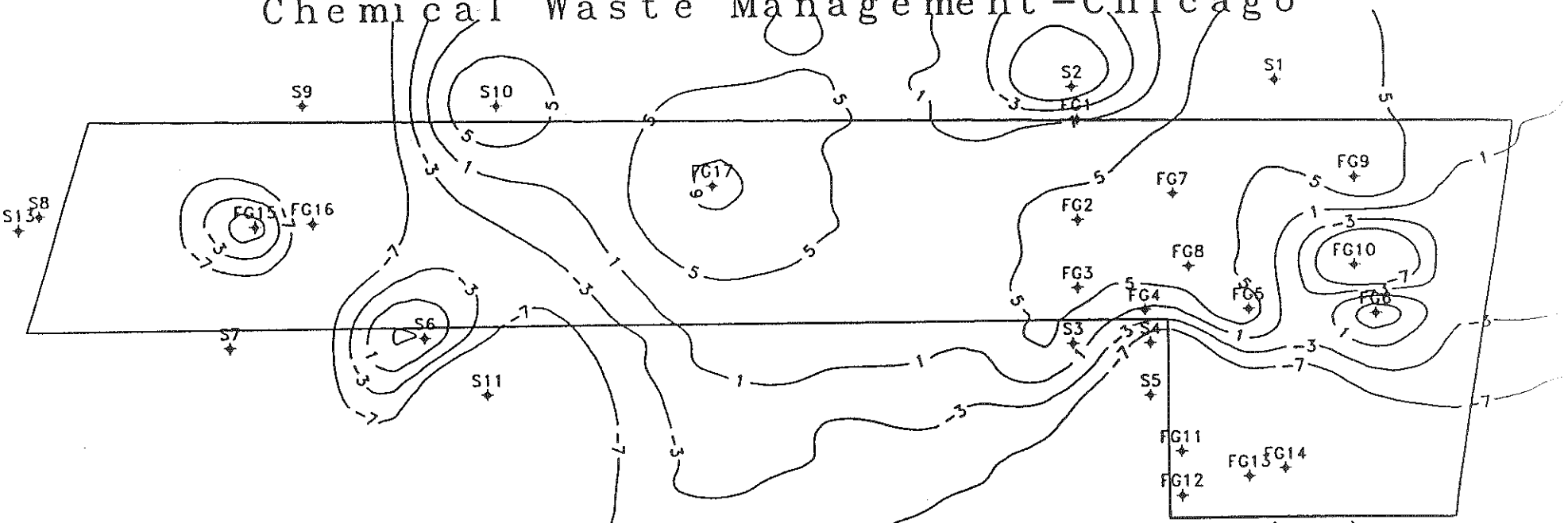


Fluoranthene (ln concentration ug/kg)

SCALE 1 inch = 300 feet

PHASE II FILL LEVEL 1 BASE NEUTRALS

Chemical Waste Management-Chicago

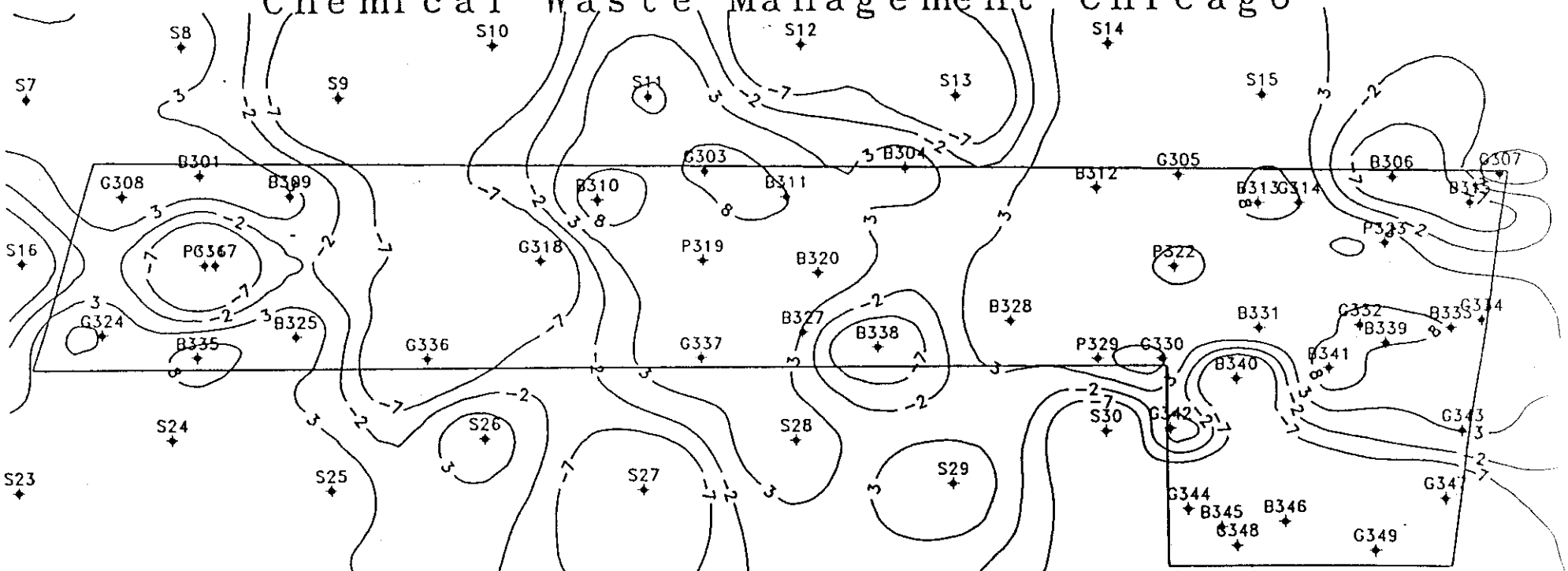


Fluoranthene (ln concentration ug/kg)

SCALE 1 inch = 300 feet

PHASE I FILL LEVEL 1 BASE NEUTRALS

Chemical Waste Management - Chicago

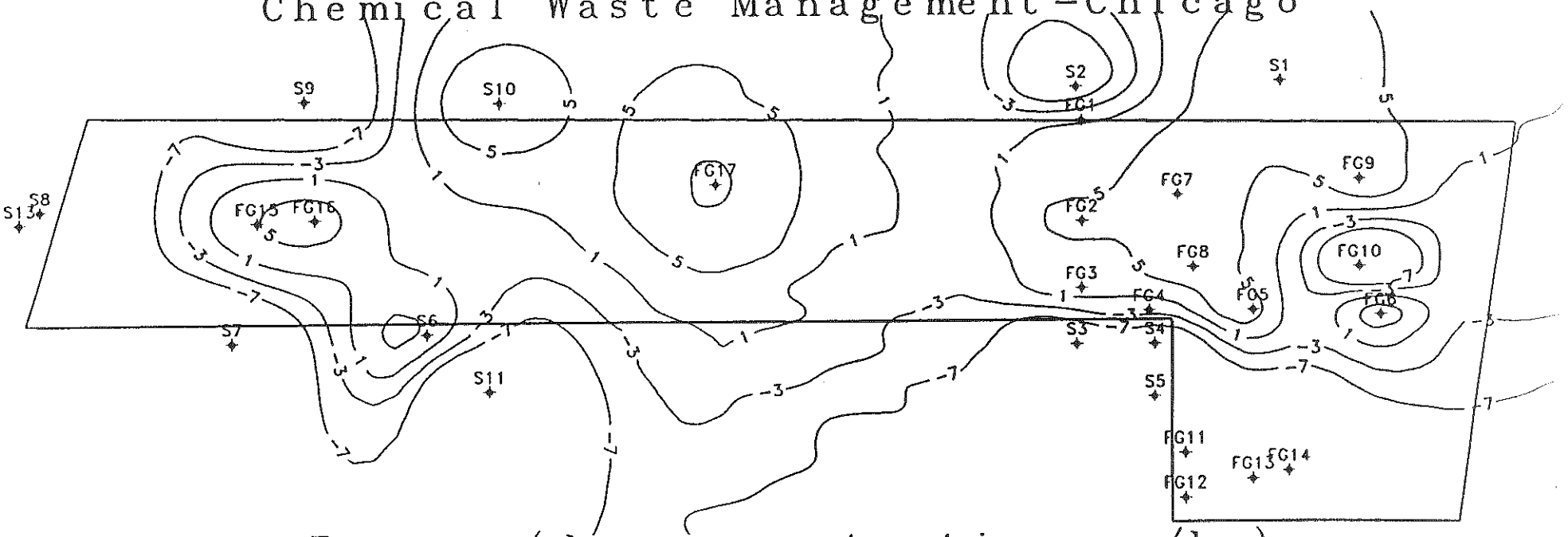


Pyrene (ln concentration ug/kg)

SCALE 1 inch = 300 feet

PHASE II FILL LEVEL 1 BASE NEUTRALS

Chemical Waste Management - Chicago

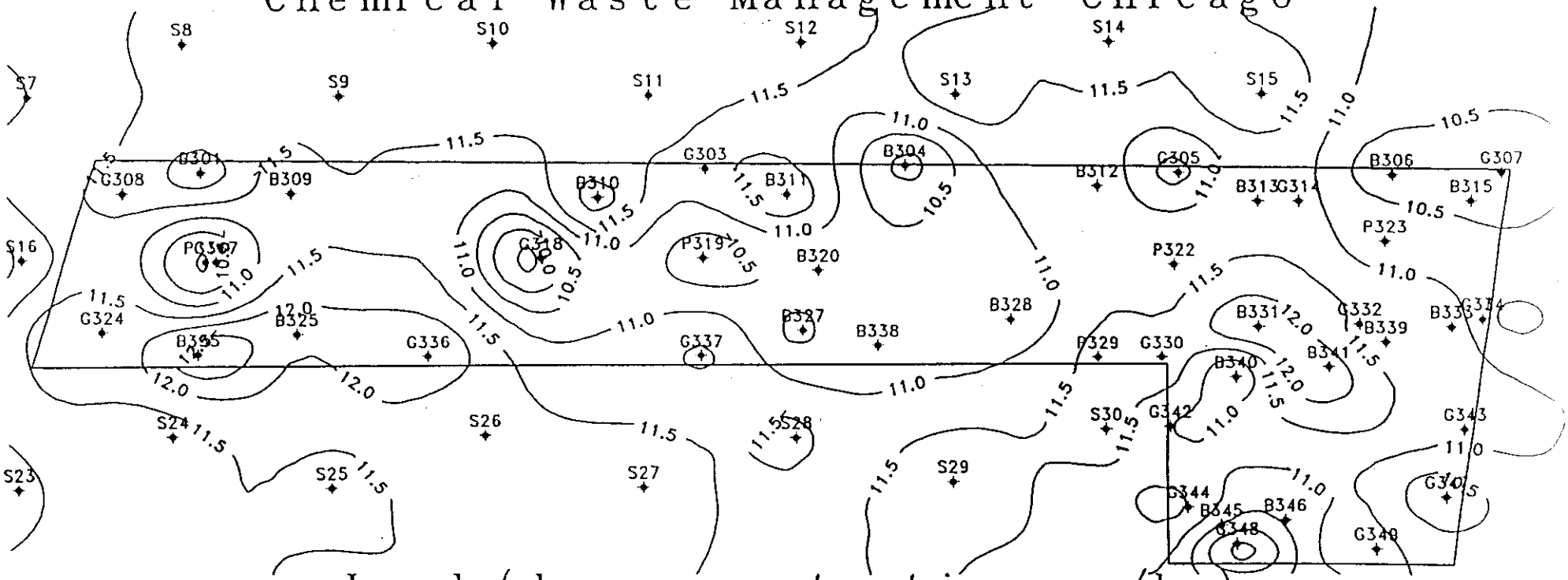


Pyrene (ln concentration ug/kg)

SCALE 1 inch = 300 feet

PHASE I FILL LEVEL 1 METALS

Chemical Waste Management - Chicago

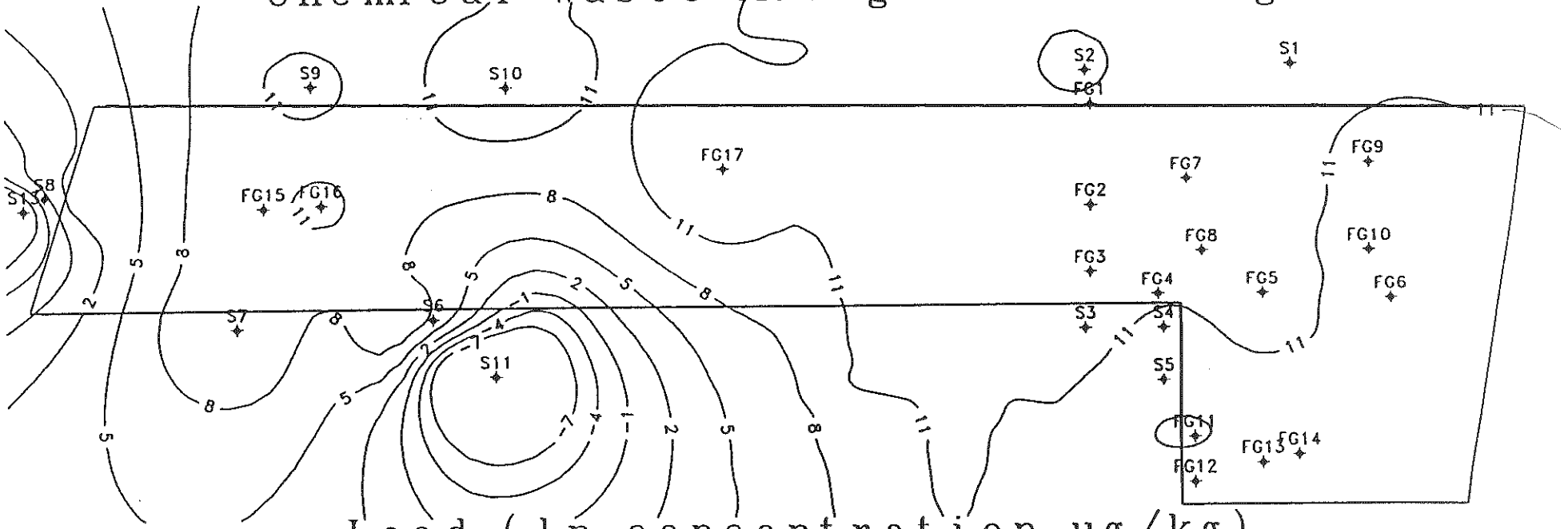


Lead (ln concentration ug/kg)

SCALE 1 inch = 300 feet

PHASE II FILL LEVEL 1 METALS

Chemical Waste Management-Chicago

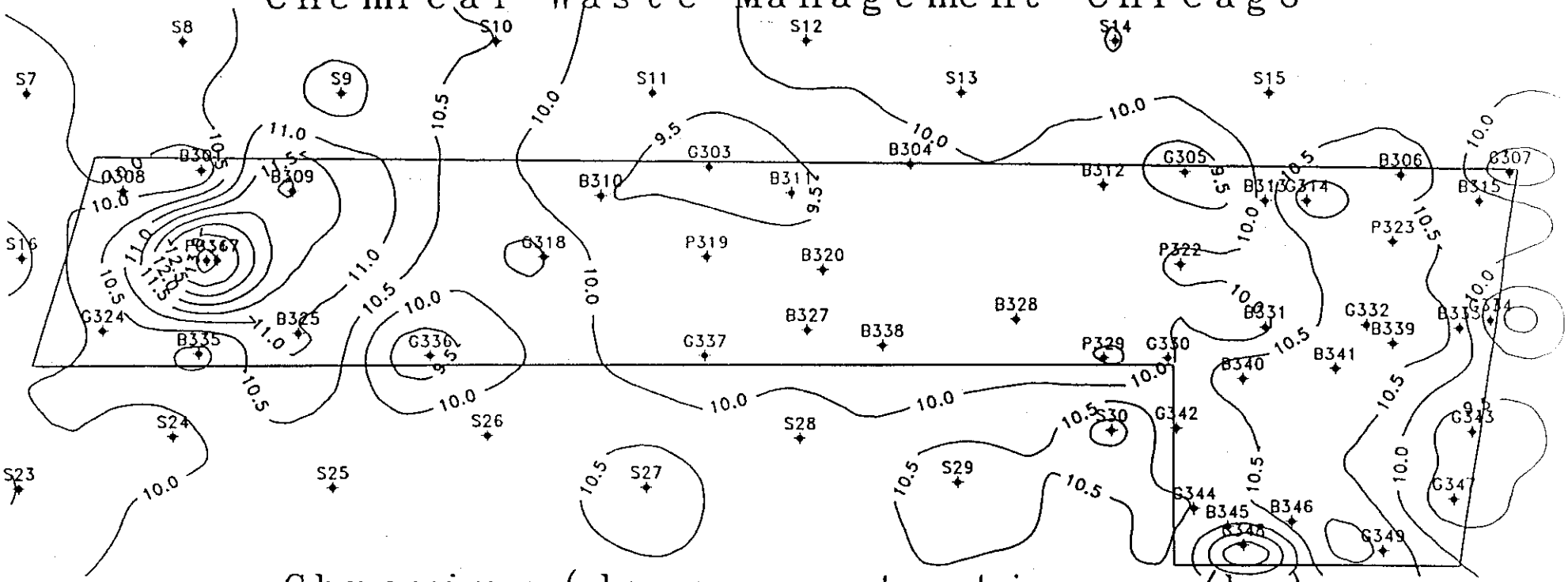


Lead (ln concentration ug/kg)

SCALE 1 inch = 300 feet

PHASE I FILL LEVEL 1 METALS

Chemical Waste Management - Chicago

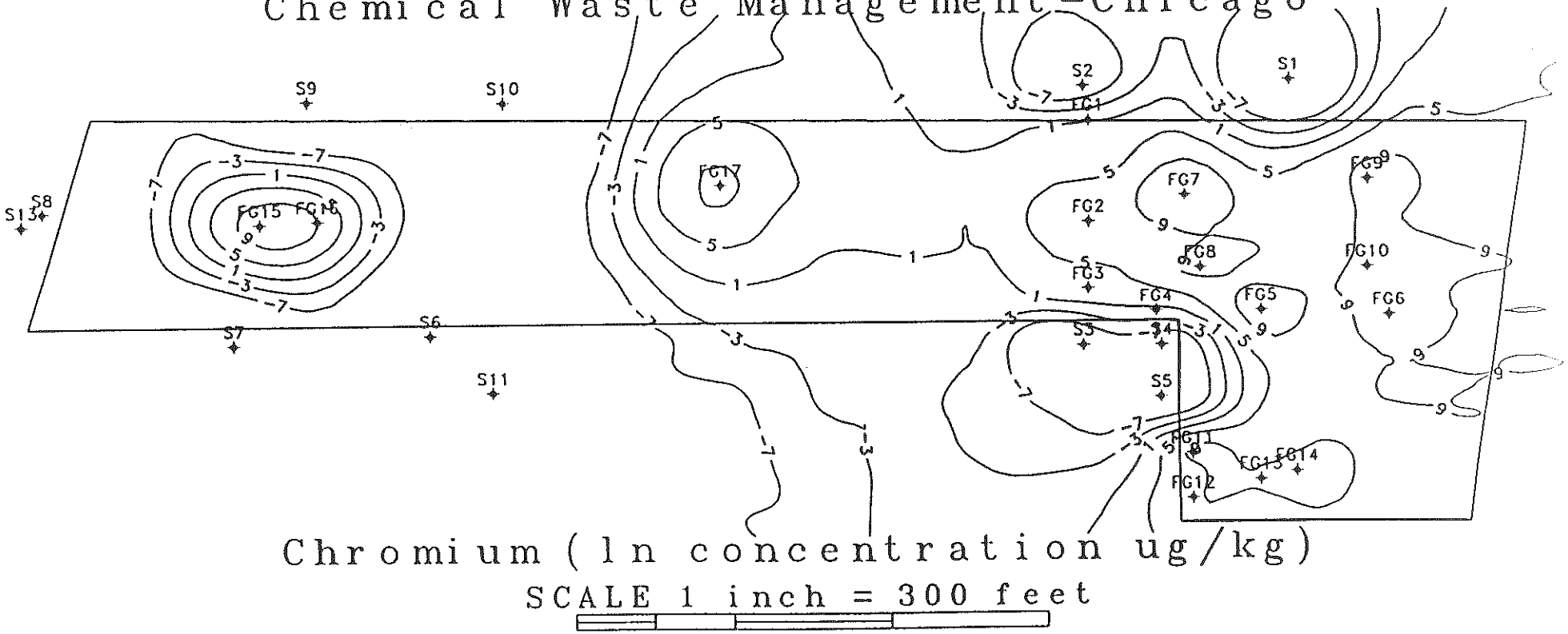


Chromium (ln concentration ug/kg)

SCALE 1 inch = 300 feet

PHASE II FILL LEVEL 1 METALS

Chemical Waste Management - Chicago



Chromium (ln concentration ug/kg)

SCALE 1 inch = 300 feet

M

Manufactured By EconoPrint, Inc., Madison, WI

Printed On Recycled Paper

APPENDIX M
MODFLOW DATA

```
CHEM WASTE MODEL NUMBER 1
OCTOBER 1993
         5           1          65           1           4
 11 00 00 00 00 00 00 00 18 19 00 00 22
         0           1
         1           1                (40I3)             2
  1  1  1  1  1  1  1  1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
  1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1  1  1  1  1  1  1  1  1
         1           1                (40I3)             2
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
         1           1                (40I3)             2
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
         1           1                (40I3)             2
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
         1           1                (40I3)             2
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
       0.0
         1          1.                (15F5.1)           8
  1.0  1.5  2.0  2.5  3.5  6.0  8.0  8.5  0.0  0.0  0.0  0.0  0.0  0.0  0.0
  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  1.0  1.5  2.0  2.5  3.5  6.0
→ 8.0  8.5  9.0  9.0  8.5  7.5  7.0  6.0  4.0  2.0  1.0  0.0  0.0  0.0  0.0
  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  1.0  1.5  2.0
  2.5  3.5  6.0  8.0  8.5
         1          1.                (15F5.1)           8
  1.0  1.5  2.0  2.5  3.5  6.0  8.0  8.5  0.0  0.0  0.0  0.0  0.0  0.0  0.0
  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  1.0  1.5  2.0  2.5  3.5  6.0
  8.0  8.5  9.0  9.0  8.5  7.5  7.0  6.0  4.0  2.0  1.0  0.0  0.0  0.0  0.0
  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  1.0  1.5  2.0
  2.5  3.5  6.0  8.0  8.5
         1          1.                (15F5.1)           8
  1.0  1.5  2.0  2.5  3.5  6.0  8.0  8.5  0.0  0.0  0.0  0.0  0.0  0.0  0.0
  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  1.0  1.5  2.0  2.5  3.5  6.0
  8.0  8.5  9.0  9.0  8.5  7.5  7.0  6.0  4.0  2.0  1.0  0.0  0.0  0.0  0.0
  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  1.0  1.5  2.0
  2.5  3.5  6.0  8.0  8.5
         1          1.                (15F5.1)           8
  1.0  1.5  2.0  2.5  3.5  6.0  8.0  8.5  0.0  0.0  0.0  0.0  0.0  0.0  0.0
  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  1.0  1.5  2.0  2.5  3.5  6.0
  8.0  8.5  9.0  9.0  8.5  7.5  7.0  6.0  4.0  2.0  1.0  0.0  0.0  0.0  0.0
  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  1.0  1.5  2.0
  2.5  3.5  6.0  8.0  8.5
```

CWM Model Basic Input Module

```
       1         1.              (15F5.1)          8
1.0  1.5  2.0  2.5  3.5  6.0  8.0  8.5  0.0  0.0  0.0  0.0  0.0  0.0  0.0
0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  1.0  1.5  2.0  2.5  3.5  6.0
8.0  8.5  9.0  9.0  8.5  7.5  7.0  6.0  4.0  2.0  1.0  0.0  0.0  0.0  0.0
0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  1.0  1.5  2.0
2.5  3.5  6.0  8.0  8.5
     365         1       1.5
```

```
CWM Model Block Centered Flow Package
        1         -1
    0 0 0
        0          1
        0       25.0       DELR
        0        1.0       DELC
        0       0.28       K(1)
        0       -7.5       BOTTOM LAYER 1
        0    6.5E-6        VCONT LAYER 1
        0       .001       T(2)
        0    6.5E-6        VCONT LAYER 2
        0    .004252       T(3)
        0    9.6E-5        VCONT LAYER 3
        0   0.05953        T(4)
        0    9.2E-5        VCONT LAYER 4
        0     0.003        T(5)
        0       15.        HTOP1
        0      22.5        DZ1
        0      17.5        DZ2
        0       5.0        DZ3
        0      30.0        DZ4
        0     200.0        DZ5
        0       0.2        PRSITY1
        0       0.2        PRSITY2
        0       0.2        PRSITY3
        0       0.2        PRSITY4
        0       0.2        PRSITY5
```

```
CWM Model Block Centered Flow Module
         1         -1
 1 0 0 0 0
         0          1
         0       25.0       DELR
         0        1.0       DELC
         0       0.28       K(1)
         0       -7.5       BOTTOM LAYER 1
         0     6.5E-6       VCONT LAYER 1
         0       .001       T(2)
         0     6.5E-6       VCONT LAYER 2
         0    .004252       T(3)
         0     9.6E-5       VCONT LAYER 3
         0    0.05953       T(4)
         0     9.2E-5       VCONT LAYER 4
         0      0.003       T(5)
         0        15.       HTOP1
         0       22.5       DZ1
         0       17.5       DZ2
         0        5.0       DZ3
         0       30.0       DZ4
         0      200.0       DZ5
         0        0.2       PRSITY1
         0        0.2       PRSITY2
         0        0.2       PRSITY3
         0        0.2       PRSITY4
         0        0.2       PRSITY5
```

```
CWM Model Recharge Module
          1          0
          0          0
          0     .00135
```

```
1                    U.S. GEOLOGICAL SURVEY MODULAR FINITE-DIFFERENCE GROUND-WATER MODEL
0CHEM WASTE MODEL NUMBER 1                                                    OCTOBER 1993

    5 LAYERS          1 ROWS         65 COLUMNS
   1 STRESS PERIOD(S) IN SIMULATION
 MODEL TIME UNIT IS DAYS
0I/O UNITS:
 ELEMENT OF IUNIT:  1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
         I/O UNIT: 11  0  0  0  0  0  0 18 19  0  0 22  0  0  0  0  0  0  0  0  0  0  0  0
0BAS1 -- BASIC MODEL PACKAGE, VERSION 1, 9/1/87 INPUT READ FROM UNIT  1
 ARRAYS RHS AND BUFF WILL SHARE MEMORY.
 START HEAD WILL BE SAVED
     3271 ELEMENTS IN X ARRAY ARE USED BY BAS
     3271 ELEMENTS OF X ARRAY USED OUT OF  600000
0BCF1 -- BLOCK-CENTERED FLOW PACKAGE, VERSION 1, 9/1/87 INPUT READ FROM UNIT 11
 STEADY-STATE SIMULATION
 CONSTANT HEAD CELL-BY-CELL FLOWS WILL BE PRINTED
      LAYER  AQUIFER TYPE
      ------------------
         1          1
         2          0
         3          0
         4          0
         5          0
      135 ELEMENTS IN X ARRAY ARE USED BY BCF
     3406 ELEMENTS OF X ARRAY USED OUT OF  600000
0RCH1 -- RECHARGE PACKAGE, VERSION 1, 9/1/87 INPUT READ FROM UNIT 18
 OPTION 1 -- RECHARGE TO TOP LAYER
       65 ELEMENTS OF X ARRAY USED FOR RECHARGE
     3471 ELEMENTS OF X ARRAY USED OUT OF  600000
0SIP1 -- STRONGLY IMPLICIT PROCEDURE SOLUTION PACKAGE, VERSION 1, 9/1/87 INPUT READ FROM UNIT 19
 MAXIMUM OF 100 ITERATIONS ALLOWED FOR CLOSURE
  5 ITERATION PARAMETERS
     1705 ELEMENTS IN X ARRAY ARE USED BY SIP
     5176 ELEMENTS OF X ARRAY USED OUT OF  600000
1CHEM WASTE MODEL NUMBER 1                                                    OCTOBER 1993

0
```

BOUNDARY ARRAY FOR LAYER 1 WILL BE READ ON UNIT 1 USING FORMAT: (40I3)

```
      1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
     41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65
 ....................................................................................................................................
0  1   1  1  1  1  1  1  1  1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
      1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1  1  1  1  1  1  1  1  1
0
```

BOUNDARY ARRAY FOR LAYER 2 WILL BE READ ON UNIT 1 USING FORMAT: (40I3)

```
      1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
     41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65
 ....................................................................................................................................
0  1   1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
      1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
0
```

BOUNDARY ARRAY FOR LAYER 3 WILL BE READ ON UNIT 1 USING FORMAT: (40I3)

```
      1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
     41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65
 ....................................................................................................................................
0  1   1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
      1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
0
```

BOUNDARY ARRAY FOR LAYER 4 WILL BE READ ON UNIT 1 USING FORMAT: (40I3)

```
      1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
     41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65
 ....................................................................................................................................
0  1   1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
      1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
0
```

BOUNDARY ARRAY FOR LAYER 5 WILL BE READ ON UNIT 1 USING FORMAT: (40I3)

```
      1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
     41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65
 ....................................................................................................................................
0  1   1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
       1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
OAQUIFER HEAD WILL BE SET TO 0.00000     AT ALL NO-FLOW NODES (IBOUND=0).
0
```

INITIAL HEAD FOR LAYER 1 WILL BE READ ON UNIT 1 USING FORMAT: (15F5.1)

```
        1     2     3     4     5     6     7     8     9    10    11    12    13    14    15    16    17    18    19    20
       21    22    23    24    25    26    27    28    29    30    31    32    33    34    35    36    37    38    39    40
       41    42    43    44    45    46    47    48    49    50    51    52    53    54    55    56    57    58    59    60
       61    62    63    64    65
 ....................................................................................................................................
0  1   1.0   1.5   2.0   2.5   3.5   6.0   8.0   8.5   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0
       0.0   0.0   0.0   0.0   1.0   1.5   2.0   2.5   3.5   6.0   8.0   8.5   9.0   9.0   8.5   7.5   7.0   6.0   4.0   2.0
       1.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   1.0   1.5   2.0
       2.5   3.5   6.0   8.0   8.5
0
```

INITIAL HEAD FOR LAYER 2 WILL BE READ ON UNIT 1 USING FORMAT: (15F5.1)

```
        1     2     3     4     5     6     7     8     9    10    11    12    13    14    15    16    17    18    19    20
       21    22    23    24    25    26    27    28    29    30    31    32    33    34    35    36    37    38    39    40
       41    42    43    44    45    46    47    48    49    50    51    52    53    54    55    56    57    58    59    60
       61    62    63    64    65
 ....................................................................................................................................
0  1   1.0   1.5   2.0   2.5   3.5   6.0   8.0   8.5   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0
       0.0   0.0   0.0   0.0   1.0   1.5   2.0   2.5   3.5   6.0   8.0   8.5   9.0   9.0   8.5   7.5   7.0   6.0   4.0   2.0
       1.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   1.0   1.5   2.0
       2.5   3.5   6.0   8.0   8.5
0
```

INITIAL HEAD FOR LAYER 3 WILL BE READ ON UNIT 1 USING FORMAT: (15F5.1)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
	61	62	63	64	65															
3 1	1.0	1.5	2.0	2.5	3.5	6.0	8.0	8.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	1.0	1.5	2.0	2.5	3.5	6.0	8.0	8.5	9.0	9.0	8.5	7.5	7.0	6.0	4.0	2.0
	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.5	2.0
	2.5	3.5	6.0	8.0	8.5															
0																				

INITIAL HEAD FOR LAYER 4 WILL BE READ ON UNIT 1 USING FORMAT: (15F5.1)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
	61	62	63	64	65															
0 1	1.0	1.5	2.0	2.5	3.5	6.0	8.0	8.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	1.0	1.5	2.0	2.5	3.5	6.0	8.0	8.5	9.0	9.0	8.5	7.5	7.0	6.0	4.0	2.0
	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.5	2.0
	2.5	3.5	6.0	8.0	8.5															
0																				

10

INITIAL HEAD FOR LAYER 5 WILL BE READ ON UNIT 1 USING FORMAT: (15F5.1)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
	61	62	63	64	65															
0 1	1.0	1.5	2.0	2.5	3.5	6.0	8.0	8.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	1.0	1.5	2.0	2.5	3.5	6.0	8.0	8.5	9.0	9.0	8.5	7.5	7.0	6.0	4.0	2.0
	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.5	2.0
	2.5	3.5	6.0	8.0	8.5															

```
OHEAD PRINT FORMAT IS FORMAT NUMBER   4     DRAWDOWN PRINT FORMAT IS FORMAT NUMBER   4
OHEADS WILL BE SAVED ON UNIT 20     DRAWDOWNS WILL BE SAVED ON UNIT  0
OOUTPUT CONTROL IS SPECIFIED EVERY TIME STEP
0                                                COLUMN TO ROW ANISOTROPY =   1.000000
0                                                             DELR =   25.00000
0                                                             DELC =   1.000000
0                                                HYD. COND. ALONG ROWS =  0.2800000      FOR LAYER  1
0                                                           BOTTOM =  -7.500000      FOR LAYER  1
0                                                VERT HYD COND /THICKNESS =  0.6500000E-05 FOR LAYER  1
0                                                    TRANSMIS. ALONG ROWS =  0.1000000E-02 FOR LAYER  2
0                                                VERT HYD COND /THICKNESS =  0.6500000E-05 FOR LAYER  2
0                                                    TRANSMIS. ALONG ROWS =  0.4252000E-02 FOR LAYER  3
0                                                VERT HYD COND /THICKNESS =  0.9600000E-04 FOR LAYER  3
0                                                    TRANSMIS. ALONG ROWS =  0.5953000E-01 FOR LAYER  4
0                                                VERT HYD COND /THICKNESS =  0.9200000E-04 FOR LAYER  4
0                                                    TRANSMIS. ALONG ROWS =  0.3000000E-02 FOR LAYER  5
0


                                                     SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
                                                     -------------------------------------------
0                                               MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =      100
                                                           ACCELERATION PARAMETER =    0.30000
                                                HEAD CHANGE CRITERION FOR CLOSURE =    0.50000E-01
                                                SIP HEAD CHANGE PRINTOUT INTERVAL =       10
0                                               CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED
1                                               STRESS PERIOD NO.    1, LENGTH =   365.0000
                                                -------------------------------------------

                                                NUMBER OF TIME STEPS =     1

                                                 MULTIPLIER FOR DELT =     1.500

                                              INITIAL TIME STEP SIZE =   365.0000
0                                                                RECHARGE =  0.1350000E-02
OAVERAGE SEED = 0.00023728
 MINIMUM SEED = 0.00005792
0
    5 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

          0.0000000E+00  0.8758879E+00  0.9845962E+00  0.9980882E+00  0.9997627E+00
0
```

21 ITERATIONS FOR TIME STEP 1 IN STRESS PERIOD 1
0MAXIMUM HEAD CHANGE FOR EACH ITERATION:
0 HEAD CHANGE LAYER,ROW,COL HEAD CHANGE LAYER,ROW,COL HEAD CHANGE LAYER,ROW,COL HEAD CHANGE LAYER,ROW,COL HEAD CHANGE LAYER,ROW,COL

```
2.418      (  1,  1,  1)   1.678      (  1,  1,  1)   1.568      (  2,  1,  1)  0.8352      (  1,  1,  1)   1.622      (  5,  1,  1)
0.4018     (  1,  1,  1) -0.3316      (  5,  1,  7) -0.4455      (  3,  1,  7)  0.3358      (  3,  1,  1) -0.3985      (  3,  1,  7)
-0.1147    (  3,  1,  7) -0.1765      (  5,  1,  7) -0.1751      (  5,  1,  7) -0.2457      (  3,  1,  7)  0.8497E-01 (  5,  1, 52)
-0.5797E-01 (  5,  1,  7) -0.7389E-01 (  3,  1,  7) -0.1038    (  5,  1,  7) -0.9593E-01 (  5,  1,  7) -0.7778E-01 (  3,  1,  7)
  -0.2679E-01 (  2,  1,  7)
```

0
0HEAD/DRAWDOWN PRINTOUT FLAG = 1 TOTAL BUDGET PRINTOUT FLAG = 1 CELL-BY-CELL FLOW TERM FLAG = 1
0OUTPUT FLAGS FOR ALL LAYERS ARE THE SAME:

HEAD PRINTOUT	DRAWDOWN PRINTOUT	HEAD SAVE	DRAWDOWN SAVE
1	1	1	0

```
0   CONSTANT HEAD   PERIOD  1   STEP  1   LAYER  1   ROW   1   COL   9   RATE  -0.2692417
0   CONSTANT HEAD   PERIOD  1   STEP  1   LAYER  1   ROW   1   COL  10   RATE  -0.2251459E-03
0   CONSTANT HEAD   PERIOD  1   STEP  1   LAYER  1   ROW   1   COL  11   RATE  -0.1952136E-03
0   CONSTANT HEAD   PERIOD  1   STEP  1   LAYER  1   ROW   1   COL  12   RATE  -0.1723992E-03
0   CONSTANT HEAD   PERIOD  1   STEP  1   LAYER  1   ROW   1   COL  13   RATE  -0.1546899E-03
0   CONSTANT HEAD   PERIOD  1   STEP  1   LAYER  1   ROW   1   COL  14   RATE  -0.1415641E-03
0   CONSTANT HEAD   PERIOD  1   STEP  1   LAYER  1   ROW   1   COL  15   RATE  -0.1327259E-03
0   CONSTANT HEAD   PERIOD  1   STEP  1   LAYER  1   ROW   1   COL  16   RATE  -0.1279827E-03
0   CONSTANT HEAD   PERIOD  1   STEP  1   LAYER  1   ROW   1   COL  17   RATE  -0.1272405E-03
0   CONSTANT HEAD   PERIOD  1   STEP  1   LAYER  1   ROW   1   COL  18   RATE  -0.1305107E-03
0   CONSTANT HEAD   PERIOD  1   STEP  1   LAYER  1   ROW   1   COL  19   RATE  -0.1379146E-03
0   CONSTANT HEAD   PERIOD  1   STEP  1   LAYER  1   ROW   1   COL  20   RATE  -0.1496922E-03
0   CONSTANT HEAD   PERIOD  1   STEP  1   LAYER  1   ROW   1   COL  21   RATE  -0.1662273E-03
0   CONSTANT HEAD   PERIOD  1   STEP  1   LAYER  1   ROW   1   COL  22   RATE  -0.1882211E-03
0   CONSTANT HEAD   PERIOD  1   STEP  1   LAYER  1   ROW   1   COL  23   RATE  -0.2182105E-03
0   CONSTANT HEAD   PERIOD  1   STEP  1   LAYER  1   ROW   1   COL  24   RATE  -0.2856787
0   CONSTANT HEAD   PERIOD  1   STEP  1   LAYER  1   ROW   1   COL  42   RATE  -0.2857846
0   CONSTANT HEAD   PERIOD  1   STEP  1   LAYER  1   ROW   1   COL  43   RATE  -0.2216635E-03
0   CONSTANT HEAD   PERIOD  1   STEP  1   LAYER  1   ROW   1   COL  44   RATE  -0.1902837E-03
0   CONSTANT HEAD   PERIOD  1   STEP  1   LAYER  1   ROW   1   COL  45   RATE  -0.1667213E-03
0   CONSTANT HEAD   PERIOD  1   STEP  1   LAYER  1   ROW   1   COL  46   RATE  -0.1485262E-03
0   CONSTANT HEAD   PERIOD  1   STEP  1   LAYER  1   ROW   1   COL  47   RATE  -0.1349959E-03
0   CONSTANT HEAD   PERIOD  1   STEP  1   LAYER  1   ROW   1   COL  48   RATE  -0.1257200E-03
0   CONSTANT HEAD   PERIOD  1   STEP  1   LAYER  1   ROW   1   COL  49   RATE  -0.1204254E-03
0   CONSTANT HEAD   PERIOD  1   STEP  1   LAYER  1   ROW   1   COL  50   RATE  -0.1189570E-03
```

```
0   CONSTANT HEAD   PERIOD  1   STEP  1   LAYER  1   ROW   1   COL  51   RATE  -0.1212742E-03
0   CONSTANT HEAD   PERIOD  1   STEP  1   LAYER  1   ROW   1   COL  52   RATE  -0.1274502E-03
0   CONSTANT HEAD   PERIOD  1   STEP  1   LAYER  1   ROW   1   COL  53   RATE  -0.1376752E-03
0   CONSTANT HEAD   PERIOD  1   STEP  1   LAYER  1   ROW   1   COL  54   RATE  -0.1522769E-03
0   CONSTANT HEAD   PERIOD  1   STEP  1   LAYER  1   ROW   1   COL  55   RATE  -0.1718832E-03
0   CONSTANT HEAD   PERIOD  1   STEP  1   LAYER  1   ROW   1   COL  56   RATE  -0.1988606E-03
0   CONSTANT HEAD   PERIOD  1   STEP  1   LAYER  1   ROW   1   COL  57   RATE  -0.2688439
1                    HEAD IN LAYER  1 AT END OF TIME STEP  1 IN STRESS PERIOD  1
           -------------------------------------------------------------------

            1       2       3       4       5       6       7       8       9      10      11      12      13      14      15
           16      17      18      19      20      21      22      23      24      25      26      27      28      29      30
           31      32      33      34      35      36      37      38      39      40      41      42      43      44      45
           46      47      48      49      50      51      52      53      54      55      56      57      58      59      60
           61      62      63      64      65
 .....................................................................................................................................
0  1     9.04    8.86    8.49    7.92    7.12    6.05    4.65    2.77    0.00    0.00    0.00    0.00    0.00    0.00    0.00
           0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    2.92    4.91    6.39    7.53    8.40    9.05
           9.50    9.76    9.84    9.76    9.50    9.05    8.40    7.53    6.39    4.91    2.92    0.00    0.00    0.00    0.00
           0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    2.77    4.65    6.05
           7.12    7.91    8.49    8.86    9.04
1                    HEAD IN LAYER  2 AT END OF TIME STEP  1 IN STRESS PERIOD  1
           -------------------------------------------------------------------

            1       2       3       4       5       6       7       8       9      10      11      12      13      14      15
           16      17      18      19      20      21      22      23      24      25      26      27      28      29      30
           31      32      33      34      35      36      37      38      39      40      41      42      43      44      45
           46      47      48      49      50      51      52      53      54      55      56      57      58      59      60
           61      62      63      64      65
 .....................................................................................................................................
0  1     7.40    7.27    7.00    6.58    6.04    5.33    4.43    3.20    1.72    1.39    1.20    1.06    0.95    0.87    0.82
           0.79    0.78    0.80    0.85    0.92    1.02    1.16    1.34    1.69    3.26    4.54    5.57    6.39    7.05    7.56
           7.93    8.15    8.23    8.18    7.97    7.63    7.13    6.47    5.63    4.59    3.29    1.72    1.36    1.17    1.03
           0.91    0.83    0.77    0.74    0.73    0.75    0.78    0.85    0.94    1.06    1.22    1.54    3.01    4.22    5.18
           5.93    6.52    6.96    7.25    7.39
```

1 HEAD IN LAYER 3 AT END OF TIME STEP 1 IN STRESS PERIOD 1

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
	61	62	63	64	65										
0 1	5.79	5.70	5.53	5.28	4.97	4.61	4.19	3.70	3.16	2.74	2.40	2.12	1.90	1.74	1.63
	1.57	1.56	1.60	1.69	1.84	2.04	2.31	2.65	3.08	3.66	4.25	4.81	5.32	5.75	6.11
	6.38	6.55	6.62	6.58	6.44	6.19	5.85	5.42	4.91	4.34	3.73	3.14	2.69	2.33	2.05
	1.82	1.66	1.54	1.48	1.46	1.49	1.56	1.69	1.87	2.11	2.41	2.80	3.33	3.86	4.36
	4.80	5.17	5.47	5.68	5.78										

1 HEAD IN LAYER 4 AT END OF TIME STEP 1 IN STRESS PERIOD 1

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
	61	62	63	64	65										
0 1	5.69	5.60	5.44	5.20	4.90	4.55	4.16	3.72	3.25	2.83	2.47	2.19	1.96	1.80	1.68
	1.62	1.61	1.65	1.75	1.90	2.11	2.38	2.73	3.16	3.69	4.23	4.77	5.25	5.67	6.02
	6.28	6.45	6.52	6.48	6.34	6.10	5.77	5.35	4.86	4.32	3.76	3.23	2.78	2.41	2.11
	1.88	1.71	1.59	1.53	1.51	1.54	1.61	1.74	1.93	2.17	2.49	2.88	3.35	3.84	4.31
	4.73	5.09	5.38	5.58	5.68										

1 HEAD IN LAYER 5 AT END OF TIME STEP 1 IN STRESS PERIOD 1

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
	61	62	63	64	65										
0 1	5.68	5.60	5.43	5.19	4.90	4.57	4.19	3.72	3.25	2.83	2.48	2.19	1.96	1.80	1.68
	1.62	1.61	1.66	1.75	1.90	2.11	2.38	2.73	3.17	3.69	4.23	4.76	5.25	5.67	6.02
	6.28	6.45	6.51	6.48	6.34	6.10	5.77	5.35	4.86	4.32	3.76	3.23	2.78	2.41	2.11
	1.88	1.71	1.59	1.53	1.51	1.54	1.62	1.75	1.93	2.18	2.49	2.88	3.35	3.84	4.31
	4.73	5.09	5.37	5.58	5.68										

OHEAD WILL BE SAVED ON UNIT 20 AT END OF TIME STEP 1, STRESS PERIOD 1

1 DRAWDOWN IN LAYER 1 AT END OF TIME STEP 1 IN STRESS PERIOD 1

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
	61	62	63	64	65										
0 1	-8.04	-7.36	-6.49	-5.42	-3.62	-0.05	3.35	5.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-1.92	-3.41	-4.39	-5.03	-4.90	-3.05
	-1.50	-1.26	-0.84	-0.76	-1.00	-1.55	-1.40	-1.53	-2.39	-2.91	-1.92	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-1.77	-3.15	-4.05
	-4.62	-4.41	-2.49	-0.86	-0.54										

1 DRAWDOWN IN LAYER 2 AT END OF TIME STEP 1 IN STRESS PERIOD 1

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
	61	62	63	64	65										
0 1	-6.40	-5.77	-5.00	-4.08	-2.54	0.67	3.57	5.30	-1.72	-1.39	-1.20	-1.06	-0.95	-0.87	-0.82
	-0.79	-0.78	-0.80	-0.85	-0.92	-1.02	-1.16	-1.34	-1.69	-2.26	-3.04	-3.57	-3.89	-3.55	-1.56
	0.07	0.35	0.77	0.82	0.53	-0.13	-0.13	-0.47	-1.63	-2.59	-2.29	-1.72	-1.36	-1.17	-1.03
	-0.91	-0.83	-0.77	-0.74	-0.73	-0.75	-0.78	-0.85	-0.94	-1.06	-1.22	-1.54	-2.01	-2.72	-3.18
	-3.43	-3.02	-0.96	0.75	1.11										

1 DRAWDOWN IN LAYER 3 AT END OF TIME STEP 1 IN STRESS PERIOD 1

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
	61	62	63	64	65										
0 1	-4.79	-4.20	-3.53	-2.78	-1.47	1.39	3.81	4.80	-3.16	-2.74	-2.40	-2.12	-1.90	-1.74	-1.63
	-1.57	-1.56	-1.60	-1.69	-1.84	-2.04	-2.31	-2.65	-3.08	-2.66	-2.75	-2.81	-2.82	-2.25	-0.11
	1.62	1.95	2.38	2.42	2.06	1.31	1.15	0.58	-0.91	-2.34	-2.73	-3.14	-2.69	-2.33	-2.05
	-1.82	-1.66	-1.54	-1.48	-1.46	-1.49	-1.56	-1.69	-1.87	-2.11	-2.41	-2.80	-2.33	-2.36	-2.36
	-2.30	-1.67	0.53	2.32	2.72										

1 DRAWDOWN IN LAYER 4 AT END OF TIME STEP 1 IN STRESS PERIOD 1

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
	61	62	63	64	65										
0 1	-4.69	-4.10	-3.44	-2.70	-1.40	1.45	3.84	4.78	-3.25	-2.83	-2.47	-2.19	-1.96	-1.80	-1.68
	-1.62	-1.61	-1.65	-1.75	-1.90	-2.11	-2.38	-2.73	-3.16	-2.69	-2.73	-2.77	-2.75	-2.17	-0.02
	1.72	2.05	2.48	2.52	2.16	1.40	1.23	0.65	-0.86	-2.32	-2.76	-3.23	-2.78	-2.41	-2.11
	-1.88	-1.71	-1.59	-1.53	-1.51	-1.54	-1.61	-1.74	-1.93	-2.17	-2.49	-2.88	-2.35	-2.34	-2.31
	-2.23	-1.59	0.62	2.42	2.82										

1 DRAWDOWN IN LAYER 5 AT END OF TIME STEP 1 IN STRESS PERIOD 1

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
	61	62	63	64	65										
0 1	-4.68	-4.10	-3.43	-2.69	-1.40	1.43	3.81	4.78	-3.25	-2.83	-2.48	-2.19	-1.96	-1.80	-1.68
	-1.62	-1.61	-1.66	-1.75	-1.90	-2.11	-2.38	-2.73	-3.17	-2.69	-2.73	-2.76	-2.75	-2.17	-0.02
	1.72	2.05	2.49	2.52	2.16	1.40	1.23	0.65	-0.86	-2.32	-2.76	-3.23	-2.78	-2.41	-2.11
	-1.88	-1.71	-1.59	-1.53	-1.51	-1.54	-1.62	-1.75	-1.93	-2.18	-2.49	-2.88	-2.35	-2.34	-2.31
	-2.23	-1.59	0.63	2.42	2.82										

VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP 1 IN STRESS PERIOD 1

CUMULATIVE VOLUMES	L**3	RATES FOR THIS TIME STEP	L**3/T
IN:		IN:	
STORAGE =	0.00000	STORAGE =	0.00000
CONSTANT HEAD =	0.00000	CONSTANT HEAD =	0.00000
RECHARGE =	406.52	RECHARGE =	1.1138
TOTAL IN =	406.52	TOTAL IN =	1.1138
OUT:		OUT:	
STORAGE =	0.00000	STORAGE =	0.00000
CONSTANT HEAD =	406.59	CONSTANT HEAD =	1.1140
RECHARGE =	0.00000	RECHARGE =	0.00000
TOTAL OUT =	406.59	TOTAL OUT =	1.1140
IN - OUT =	-0.74158E-01	IN - OUT =	-0.20313E-03
PERCENT DISCREPANCY =	-0.02	PERCENT DISCREPANCY =	-0.02

17

TIME SUMMARY AT END OF TIME STEP 1 IN STRESS PERIOD 1

	SECONDS	MINUTES	HOURS	DAYS	YEARS
TIME STEP LENGTH	0.315360E+08	525600.	8760.00	365.000	0.999316
STRESS PERIOD TIME	0.315360E+08	525600.	8760.00	365.000	0.999316
TOTAL SIMULATION TIME	0.315360E+08	525600.	8760.00	365.000	0.999316

1