REM IV

Remedial Planning Activities
at Selected Uncontrolled
Hazardous Waste Sites–Zone II

Environmental Protection Agency
Hazardous Site Control Division
Contract No. 68-01-7251

REMEDIAL INVESTIGATION REPORT
VOLUME 2--APPENDIXES
PURITY OIL SALES SITE
FRESNO, CALIFORNIA

EPA WA 3-9L21.1

OCTOBER 1988

CH2M HILL

Black & Veatch
ICF
PRC
Ecology and Environment

SFUND RECORDS CTR
1918-00148

SFUND RECORDS CTR
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REMEDIAL INVESTIGATION REPORT
VOLUME 2--APPENDIXES
PURITY OIL SALES SITE
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EPA WA 3-9L21.1

OCTOBER 1988

CONTENTS (VOLUME 2)

	Page
Appendix A--Test Pit and Boring Logs	
CH2M HILL Test Pit and Boring Logs	A-1
Harding Lawson Test Pit and Boring Logs	A-85
Appendix B--Geophysical Exploration Locations	B-1
Appendix C--Soil Sampling Chemical Results	C-1
CH2M HILL Data:	
Tank Samples	
Table C-1--EP Toxicity Results	C-3
Table C-2--Inorganic Analysis Results	C-4
Table C-3--Organic Compounds	C-6
Table C-4--Miscellaneous Parameters	C-11
Surface and Canal Samples	
Table C-5--EP Toxicity Results	C-12
Table C-6--Inorganic Analysis Results	C-13
Table C-7--Organic Compounds	C-17
Table C-8--Miscellaneous Parameters	C-29
Shallow Boring Samples	
Table C-9--EP Toxicity Results	C-30
Table C-10--Inorganic Analysis Results	C-31
Table C-11--Organic Compounds	C-39
Table C-12--Inorganic Compounds	C-69
Table C-13--Miscellaneous Parameters	C-70
Harding Lawson & Associates Data:	
Surface and Canal Samples	
Table C-14--Inorganic Analysis Results	C-71
Table C-15--Organic Analysis Results	C-77
Shallow Boring Samples	
Table C-16--Inorganic Analysis Results	C-80
Table C-17--Organic Compounds	C-89
Appendix D--Site Meterological Summaries	D-1
Appendix E--Monitoring Well Construction Logs	
EPA ERT Study Observation Well Installation Details	E-1
HLA Monitoring Well Construction Logs	E-3
CH2M HILL Monitoring Well Construction Logs	E-13
Appendix F--Groundwater Sampling Results	F-1
Table F-1--General Minerals	F-3
Table F-2--Metals	F-9
Table F-3--Volatile Organic Compounds	F-17
Table F-4--Semivolatile Compounds	F-25
Table F-5--Tentatively Identified Compounds (Semivolatiles)	F-31

CONTENTS (Continued)

	Page
Appendix F (Continued)	
Table F-6--Tentatively Identified Compounds (Volatiles)	F-41
Table F-7--EPA/ERT Study--Chemical Concentrations in Groundwater Samples from Monitoring Wells	F-43
Cations and Anions Balance	F-45
Appendix G--Water Levels in Monitoring Wells	
Groundwater Elevations	G-1
Plots of Groundwater Elevations	G-3
Appendix H--Groundwater Use Survey	H-1
Appendix I--Air Monitoring	I-1
Appendix J--Results of Hydraulic Conductivity Testing	
24-Hour Pump Test Drawdown and Recovery Plots	J-1
Slug Test Data	J-19
Plots of Slug Test Results	J-27
Individual Pump Test Drawdown and Recovery Data	J-37
Plots of Individual Pump Test Results	J-87
Plots of Jacob's Distance-Drawdown Method for 24-Hour Pump Test Results	J-93

RD/R57/010

Appendix A
TEST PIT AND BORING LOGS

CH2M HILL
TEST PIT AND BORING LOGS

SOIL BORING LOG

PROJECT NAME: PURITY OIL SALES
PROJECT NUMBER: W63320.FS

BORING NUMBER: SB1
PAGE: 1

BORING LOCATION: ONSITE, WEST END
DATE: 1-6-88
INSPECTOR: D. GREENWAY/L. KROOK

BORING ELEVATION:
START TIME: 1600
CONTRACTOR: CONTINENTAL DRILLING

BORING TYPE: HOLLOW STEM AUGER
COMPLETION: 1025, 1-7-88
CLIENT: REGION IX EPA

DRILL RIG: MOBILE B-61/JD BACKHOE
GROUNDWATER DEPTH & DATE: Not encountered

DEPTH BELOW SURFACE (feet)	SAMPLE INTERVAL (feet)	SAMPLE NUMBER & TYPE	SAMPLE RECOVERY (percent)	BLOW COUNT 6"-6"-6"	SOIL DESCRIPTION	C R	COMMENTS AND HNU READINGS
1					SILT, dry to moist, brown, with debris and gravel (ML)	1	Samples and descriptions from 0.0-8.5' taken from test pit. Refer to photographs 12 and 13.
2							
3					BLACK TAR-like material with debris (wood and rubble), 'gooey' with free oil in places	5	HNU = 2 ppm (on spoil pile)
4		01	2 sm jars 1 lg jar	-	SIMILAR	5	
5							
6		02	2 sm jars	-	SILT, dry to moist, brown, with debris, sand and gravel (ML)	1	
7							
8					CEMENTED SANDY SILT, very dense and hard, dry to moist, greenish-grey (ML)	2/3	Bottom of Test Pit at 8.5 feet
9	9.0-10.5	03	100	8-9-9	SILT with some fine sand, friable, moist, light olive-green with brown (ML)	1	HNU = 1 ppm (liners) HNU = 0.4 ppm (background)
10							
11	10.5-12.0	04	100	10-10-12	SILT with some fine sand, friable, moist, light olive-green with some brown (ML); grading to SILTY SAND, medium, dense, moist olive-green with some brown (SM); becoming SANDY SILT, firm, moist, olive-green and brown (ML)	1	HNU = 1.4 ppm (liners)
12	12.0-13.5	05	100	10-11-11	SILTY SAND and SANDY SILT, dense or firm, moist, olive-green with considerable rust-brown mottling (SM/ML)	1	HNU = 1 ppm (liners)
13							End day 1-6-88
14							
15	15.0-16.3	06					

SOIL BORING LOG

PROJECT NAME: PURITY OIL SALES
PROJECT NUMBER: W63320.FS

BORING NUMBER: SB1
PAGE: 2

BORING LOCATION: ONSITE
DATE: 1-6-88
INSPECTOR: D. GREENWAY/L. KROOK

BORING ELEVATION:
START TIME: 1600
CONTRACTOR: CONTINENTAL DRILLING

BORING TYPE: HOLLOW STEM AUGER
COMPLETION: 1025, 1-7-88
CLIENT: REGION IX EPA

DRILL RIG: MOBILE B-61/JD BACKHOE
GROUNDWATER DEPTH & DATE: Not encountered

DEPTH BELOW SURFACE (feet)	SAMPLE INTERVAL (feet)	SAMPLE NUMBER & TYPE	SAMPLE RECOVERY (percent)	BLOW COUNT 6"-6"-6"	SOIL DESCRIPTION	C R	COMMENTS AND HNU READINGS
	15.0-16.3	06 Shelby	100 (15")	-	Top: SILT with fine sand, friable, moist, olive-green with some brown (ML)	1	HNU = 0.9 ppm (background)
16					Bottom: SILT, hard, friable, moist, olive green with some brown (ML)		Pushed tube 15"
17							
18							
19							
20	20.0-21.5	07	100	21-25-24	SILTY SAND, fine to medium, dense, moist, brown (SM)	1	HNU = 0.9 ppm (liners)
21							
22							
23							
24							
25	25.0-26.5	08	100	14-20-22	SAND, with few or no fines, loose, fine to medium, moist, brown (SP)	1	HNU = 0.9 ppm (liners)
26							
27							
28							
29							
30	30.0-31.5	09					

SOIL BORING LOG

PROJECT NAME: PURITY OIL SALES
PROJECT NUMBER: W63320.FS

BORING NUMBER: SB1
PAGE: 3

BORING LOCATION: ONSITE
DATE: 1-6-88
INSPECTOR: D. GREENWAY/L. KROOK

BORING ELEVATION:
START TIME: 1600
CONTRACTOR: CONTINENTAL DRILLING

BORING TYPE: HOLLOW STEM AUGER
COMPLETION: 1025, 1-7-88
CLIENT: REGION IX EPA

DRILL RIG: MOBILE B-61/JD BACKHOE
GROUNDWATER DEPTH & DATE: Not encountered

DEPTH BELOW SURFACE (feet)	SAMPLE INTERVAL (feet)	SAMPLE NUMBER & TYPE	SAMPLE RECOVERY (percent)	BLOW COUNT 6"-6"-6"	SOIL DESCRIPTION	C R	COMMENTS AND HNU READINGS
	30.0-31.5	09 Shelby	100 (17")	-	Top and Bottom: SAND with some silt, fine to medium, loose to medium dense, moist, brown (SP-SM)	1	HNU = 0.4 ppm (background) HNU = 0.4 ppm (top of tube)
31							
32							
33							
34							
35	35.0-36.5	10	100	13-20-23	SAND, fine to medium, with few or no fines, loose, moist, 'salt and pepper' (SP)	1	HNU = 0.4 ppm (liners)
36							
37							
38							
39							
40	40.0-40.8	11	75	73-85 (3")	SILTY SAND, loose to dense, with layers of cementation, fine to medium, moist, brown (SM)	1	HNU = 0.4 ppm (liners)
41							
42							
43							
44							
45	45.0-46.5	12					

SOIL BORING LOG

PROJECT NAME: PURITY OIL SALES
PROJECT NUMBER: W63320.FS

BORING NUMBER: SB1
PAGE: 4

BORING LOCATION: ONSITE
DATE: 1-6-88
INSPECTOR: D. GREENWAY/L. KROOK

BORING ELEVATION:
START TIME: 1600
CONTRACTOR: CONTINENTAL DRILLING

BORING TYPE: HOLLOW STEM AUGER
COMPLETION: 1025, 1-7-88
CLIENT: REGION IX EPA

DRILL RIG: MOBILE B-61/JD BACKHOE
GROUNDWATER DEPTH & DATE: Not encountered

DEPTH BELOW SURFACE (feet)	SAMPLE INTERVAL (feet)	SAMPLE NUMBER & TYPE	SAMPLE RECOVERY (percent)	BLOW COUNT 6"-6"-6"	SOIL DESCRIPTION	CR	COMMENTS AND HNU READINGS
	45.0-46.5	12	100	11-12-30	SANDY SILT, fine sand, firm, wet, olive-green; grading to SILT with fine sand, firm, wet, olive-green (ML)	1	HNU = 0.4 ppm (background) HNU = 0.4 ppm (liners)
46							
					End of boring at 46.5 feet		
47							
48							
49							
50							
51							
52							
53							
54							
55							
56							
57							
58							
59							
60							

SOIL BORING LOG

PROJECT NAME: PURITY OIL SALES
PROJECT NUMBER: W63320.FS

BORING NUMBER: SB2
PAGE: 1

BORING LOCATION: ONSITE
DATE: 1-8-88
INSPECTOR: D. GREENWAY/L. KROOK

BORING ELEVATION:
START TIME: 0815
CONTRACTOR: CONTINENTAL DRILLING

BORING TYPE: HOLLOW STEM AUGER
COMPLETION: 1115
CLIENT: REGION IX EPA

DRILL RIG: MOBILE B-61/JD BACKHOE
GROUNDWATER DEPTH & DATE: Not encountered

DEPTH BELOW SURFACE (feet)	SAMPLE INTERVAL (feet)	SAMPLE NUMBER & TYPE	SAMPLE RECOVERY (percent)	BLOW COUNT 6"-6"-6"	SOIL DESCRIPTION	C R	COMMENTS AND HNU READINGS
1					CONCRETE RUBBLE, up to 4'x4'x1' sized blocks, with soil, rubber, steel, and other miscellaneous debris	1	Samples and descriptions from 0.0-7.0' taken from test pit. Refer to photograph 17
2							
3					Gravel with rubble and soil (GM)	1	
4							
5							
6	5.1-5.8	01	3 jars	-	BLACK SOIL and TAR-like material	4/5	
	5.8-7.0	02	2 jars	-	SANDY SILT, brown (ML)	2	
7	7.0-8.5	03	100	10-13-16	SANDY SILT, moist, tan-brown (ML)	1	Bottom of Test Pit at 7.0 feet HNU = 1.2 ppm (baggie) HNU = 0.4 ppm (background)
8							
9							
10	10.0-11.5	04	90	10-13-14	SANDY SILT, moist, mottled grey-brown with some black and red flecks (ML)	2/3	HNU = 1 ppm (liners)
11							
12							
13							
14							
15	15.0-16.5	05					

SOIL BORING LOG

PROJECT NAME: PURITY OIL SALES
PROJECT NUMBER: W63320.FS

BORING NUMBER: SB2
PAGE: 2

BORING LOCATION: ONSITE
DATE: 1-8-88
INSPECTOR: D. GREENWAY/L. KROOK

BORING ELEVATION:
START TIME: 0815
CONTRACTOR: CONTINENTAL DRILLING

BORING TYPE: HOLLOW STEM AUGER
COMPLETION: 1115
CLIENT: REGION IX EPA

DRILL RIG: MOBILE B-61/JD BACKHOE
GROUNDWATER DEPTH & DATE: Not encountered

DEPTH BELOW SURFACE (feet)	SAMPLE INTERVAL (feet)	SAMPLE NUMBER & TYPE	SAMPLE RECOVERY (percent)	BLOW COUNT 6"-6"-6"	SOIL DESCRIPTION	C R	COMMENTS AND HNU READINGS
	15.0-16.5	05	100	10-16-20	SANDY SILT, fine sand, soft to firm, moist to wet, olive-green with brown mottling (ML)	1	HNU = 0.4 ppm (background) HNU = 0.4 ppm (liners)
16							
17							
18							
19							
20	20.0-21.5	06	100	10-11-9	SILTY SAND, fine to medium, dense, moist, brown (SM)	1	HNU = 0.4 ppm (liners)
21							
22							
23							
24							
25	25.0-26.5	07 Shelby	83 (15")	-	Top: SILTY SAND (SM)	1	HNU = 0.4 ppm (top of tube) Pushed tube 18"
26					Bottom: SILTY SAND, fine, loose, moist, light brown (SM)		
27							
28							
29							
30	30.0-31.5	08					

SOIL BORING LOG

PROJECT NAME: PURITY OIL SALES
PROJECT NUMBER: W63320.FS

BORING NUMBER: SB2
PAGE: 3

BORING LOCATION: ONSITE
DATE: 1-8-88
INSPECTOR: D. GREENWAY/L. KROOK

BORING ELEVATION:
START TIME: 0815
CONTRACTOR: CONTINENTAL DRILLING

BORING TYPE: HOLLOW STEM AUGER
COMPLETION: 1115
CLIENT: REGION IX EPA

DRILL RIG: MOBILE B-61/JD BACKHOE
GROUNDWATER DEPTH & DATE: Not encountered

DEPTH BELOW SURFACE (feet)	SAMPLE INTERVAL (feet)	SAMPLE NUMBER & TYPE	SAMPLE RECOVERY (percent)	BLOW COUNT 6"-6"-6"	SOIL DESCRIPTION	CR	COMMENTS AND HNU READINGS
	30.0-31.5	08	100	8-11-15	SAND, fine to medium, with few or no fines, loose, moist, 'salt and pepper' coloring (SP)	1	HNU = 0.4 ppm (background) HNU = 0.4 ppm (liners)
31							
32							
33							
34							
35	35.0-36.5	09	100	9-24-88	SAND, fine to medium, with few or no fines, loose, moist, 'salt and pepper' coloring (SP); grading to SILTY SAND, fine to medium, dense, moist, dark olive-green with some black mottling (SM)	1	HNU = 0.4 ppm (liners)
36							
37							
38							
39							
40	40.0-41.4	10 Shelby	31 (5")	-	SILTY SAND, fine to medium, loose*, moist, brown (SM)	1	HNU = 0.4 ppm (top of tube)
41							*Probably disturbed
					End of boring at 41.4 feet		
42							
43							
44							
45							

SOIL BORING LOG

PROJECT NAME: PURITY OIL SALES
PROJECT NUMBER: W63320.FS

BORING NUMBER: SB3
PAGE: 1

BORING LOCATION: ONSITE
DATE: 1-7-88
INSPECTOR: L. KROOK

BORING ELEVATION:
START TIME: 1250
CONTRACTOR: CONTINENTAL DRILLING

BORING TYPE: HOLLOW STEM AUGER
COMPLETION: 1705
CLIENT: REGION IX EPA

DRILL RIG: MOBILE B-61
GROUNDWATER DEPTH & DATE: Not encountered

DEPTH BELOW SURFACE (feet)	SAMPLE INTERVAL (feet)	SAMPLE NUMBER & TYPE	SAMPLE RECOVERY (percent)	BLOW COUNT 6"-6"-6"	SOIL DESCRIPTION	C R	COMMENTS AND HNU READINGS
							Refer to Test Pit log for samples 01 and 02.
1							HNU = 0.4 ppm (background)
	1.5-3.0	03	80	9-10-16	BLACK, RUBBERY, ASPHALTIC-like material, sandy, not runny or otherwise liquid	5	HNU =2.5 ppm (liners)
2							
3	3.0-4.5	04	90	11-15-21	BLACK, RUBBERY, ASPHALTIC-like material, similar to above, but more sandy	5	HNU = 20 ppm (liners)
4							
5	4.5-6.0	05	95	7-15-12	SIMILAR, but denser; grading to a BLACK, SANDY SILT, firm, fine sand; becoming a SANDY SILT with dark mottling, loose, moist, olive-green (ML)	5 4 4	HNU = 12 ppm (liners)
6							
7							
8	7.5-9.0	06	80	3-3-2	SILTY SAND, fine to medium, very loose, moist, brown (SM)	2/3	HNU = 19 ppm (liners)
9							
10	10.0-11.8	07 Shelby	100 (22")	-	Top: SANDY SILT, soft, moist, brown (ML)	1	HNU = 1.5 ppm (top of tube)
11					Bottom: SILTY SAND, fine to medium, loose moist (SM)	1	
12	11.8-13.3	08	100	9-10-10	SILTY SAND, fine to medium, loose, brown, grading less silty with depth (SM)	1	HNU = 0.4 ppm (liners)
13							
14							
15	15.0-16.9	09					

SOIL BORING LOG

PROJECT NAME: PURITY OIL SALES
PROJECT NUMBER: W63320.FS

BORING NUMBER: SB3
PAGE: 2

BORING LOCATION: ONSITE
DATE: 1-7-88
INSPECTOR: L. KROOK

BORING ELEVATION:
START TIME: 1250
CONTRACTOR: CONTINENTAL DRILLING

BORING TYPE: HOLLOW STEM AUGER
COMPLETION: 1705
CLIENT: REGION IX EPA

DRILL RIG: MOBILE B-61
GROUNDWATER DEPTH & DATE: Not encountered

DEPTH BELOW SURFACE (feet)	SAMPLE INTERVAL (feet)	SAMPLE NUMBER & TYPE	SAMPLE RECOVERY (percent)	BLOW COUNT 6"-6"-6"	SOIL DESCRIPTION	C R	COMMENTS AND HNU READINGS
	15.0-16.9	09 Shelby	95	-	Top: SANDY SILT, firm, moist, brown (ML)	1	HNU = 0.4 ppm (background)
16							HNU = 0.4 ppm (tube)
17					Bottom: SILTY SAND, fine to medium, medium dense, moist, olive-green (SM)	1	
18							
19							
20	20.0-21.5	10	100	18-27-23	SILTY SAND, fine to medium, loose to medium dense, moist, brown (SM)	1	HNU = 0.4 ppm (liners)
21							
22							
23							
24							
25	25.0-26.5	11	100	10-16-26	SILTY SAND, fine, loose to dense, moist, brown to dark brown (SM); grading to SANDY SILT, fine sand, some cementation, moist olive-green with brown (ML)	1	HNU = 0.4 ppm (liners)
26							
27							
28							
29							
30	30.0-31.5	12					

SOIL BORING LOG

PROJECT NAME: PURITY OIL SALES
PROJECT NUMBER: W63320.FS

BORING NUMBER: SB3
PAGE: 3

BORING LOCATION: ONSITE
DATE: 1-7-88
INSPECTOR: L. KROOK

BORING ELEVATION:
START TIME: 1250
CONTRACTOR: CONTINENTAL DRILLING

BORING TYPE: HOLLOW STEM AUGER
COMPLETION: 1705
CLIENT: REGION IX EPA

DRILL RIG: MOBILE B-61
GROUNDWATER DEPTH & DATE: Not encountered

DEPTH BELOW SURFACE (feet)	SAMPLE INTERVAL (feet)	SAMPLE NUMBER & TYPE	SAMPLE RECOVERY (percent)	BLOW COUNT 6"-6"-6"	SOIL DESCRIPTION	C R	COMMENTS AND HNU READINGS
	30.0-31.5	12	100	16-20-23	SANDY SILT, *firm, fine sand, moist, olive-* green with some rust mottling (ML); grading to SILTY SAND, fine to medium, medium dense, moist, olive-green and light brown (SM)	1	HNU = 0.4 ppm (background) HNU = 0.4 ppm (liners)
31							
32							
33							
34							
35	35.0-36.5	13	100	12-13-17	SAND, fine to medium, with few or no fines, loose, moist, 'salt and pepper' coloring (SP)	1	HNU = 0.4 ppm (liners)
36							
37							
38							
39							
40	40.0-41.5	14	100	15-23-23	SILTY SAND, fine to medium, loose to medium dense, moist, brown (SM)	1	
41							
					End of boring at 41.5 feet		
42							
43							
44							
45							

SOIL BORING LOG

PROJECT NAME: PURITY OIL SALES
PROJECT NUMBER: W63320.FS

BORING NUMBER: SB4
PAGE: 1

BORING LOCATION: ONSITE
DATE: 1-8-88
INSPECTOR: D. GREENWAY/L. KROOK

BORING ELEVATION:
START TIME: 1230
CONTRACTOR: CONTINENTAL DRILLING

BORING TYPE: HOLLOW STEM AUGER
COMPLETION: 1605
CLIENT: REGION IX EPA

DRILL RIG: MOBILE B-61
GROUNDWATER DEPTH & DATE: Not encountered

DEPTH BELOW SURFACE (feet)	SAMPLE INTERVAL (feet)	SAMPLE NUMBER & TYPE	SAMPLE RECOVERY (percent)	BLOW COUNT 6"-6"-6"	SOIL DESCRIPTION	C R	COMMENTS AND HNU READINGS
							Samples and descriptions from 0.0-9.0' taken from test pit.
1							
2							
3					CONCRETE RUBBLE, up to 3'x3'x2' sized chunks, with steel debris and dry to moist soil	1	Refer to photographs 18 and 19
4							
5	5.0-7.5	01	3 jars	-	BLACK TAR-like material, stiff, with wood debris	5	Refer to photograph 20 of pile
6							
7							
8					SANDY SILT, with gravel and debris, brown (ML)	3/2	
9							Bottom of Test Pit at 9.0 feet
10	9.0-10.5	02	100	3-4-4	SANDY SILT, dark grey-black(ML); grading to SILTY SAND, fine to medium, loose, moist, dark brown, becoming less dark with depth (SM)	4 3	HNU = 0.4 ppm (background) HNU = 10 ppm (liners)
11	10.5-12.0	03	100	5-6-6	SIMILAR, but becoming less dark with depth	3	HNU = 3.5 ppm (liners)
12							
13							
14							
15	15.0-16.5	04					

SOIL BORING LOG

PROJECT NAME: PURITY OIL SALES
PROJECT NUMBER: W63320.FS

BORING NUMBER: SB4
PAGE: 2

BORING LOCATION: ONSITE
DATE: 1-8-88
INSPECTOR: D. GREENWAY/L. KROOK

BORING ELEVATION:
START TIME: 1230
CONTRACTOR: CONTINENTAL DRILLING

BORING TYPE: HOLLOW STEM AUGER
COMPLETION: 1605
CLIENT: REGION IX EPA

DRILL RIG: MOBILE B-61
GROUNDWATER DEPTH & DATE: Not encountered

DEPTH BELOW SURFACE (feet)	SAMPLE INTERVAL (feet)	SAMPLE NUMBER & TYPE	SAMPLE RECOVERY (percent)	BLOW COUNT 6"-6"-6"	SOIL DESCRIPTION	C R	COMMENTS AND HNU READINGS
	15.0-16.5	04	95	66-67-69	CEMENTED SAND, fine to medium, very hard, olive-green, moist*; becoming SILT and SANDY SILT, hard and very dense, light grey, with pockets of fine sand (SP/ML)	3/4	HNU = 0.4 ppm (background) HNU = 0.8 ppm (liners) *First attempted Shelby tube---met refusal after ~1" penetration. HNU = 5 ppm (baggie sample of material in Shelby tube tip)
16						1	
17							
18							
19							
20	20.0-20.5	05 Shelby	18 (4")	-	SILTY SAND, fine to medium, moderately cemented, moist, brown (SM)	1	HNU = 0.4 ppm (bottom of tube) Shelby tube collapsed after pushing ~6"
	20.5-22.0	06	100	25-25-107	SILTY SAND, fine to medium, dense, with some moderate cementation, brown, becoming denser with depth and color changing to light grey with olive-green (SM)	1	HNU = 0.4 ppm (liners)
21							
22							Driller reports very hard material at ~22.5'. Gravel-like cemented particles in cuttings.
23							
24							
25	25.0-26.5	07	100	11-17-23	SILTY SAND, fine, loose to medium dense, moist, olive-green (SM)	1	HNU = 0.4 ppm (liners) Driller reports easier drilling
26							
27							
28							
29							
30	30.0-31.8	08					

SOIL BORING LOG

PROJECT NAME: PURITY OIL SALES
PROJECT NUMBER: W63320.FS

BORING NUMBER: SB4
PAGE: 3

BORING LOCATION: ONSITE
DATE: 1-8-88
INSPECTOR: D. GREENWAY/L. KROOK

BORING ELEVATION:
START TIME: 1230
CONTRACTOR: CONTINENTAL DRILLING

BORING TYPE: HOLLOW STEM AUGER
COMPLETION: 1605
CLIENT: REGION IX EPA

DRILL RIG: MOBILE B-61
GROUNDWATER DEPTH & DATE: Not encountered

DEPTH BELOW SURFACE (feet)	SAMPLE INTERVAL (feet)	SAMPLE NUMBER & TYPE	SAMPLE RECOVERY (percent)	BLOW COUNT 6"-6"-6"	SOIL DESCRIPTION	C R	COMMENTS AND HNU READINGS
	30.0-31.8	08 Shelby	100 (22")	-	Top: SILTY SAND, fine, loose, moist, brown (SM)	1	HNU = 0.4 ppm (background) HNU = 0.4 ppm (top of tube)
31							
					Bottom: SILTY SAND, fine to medium, loose, brown, with pockets of hard, grey SILT with some fine sand, moist (SM/ML)	1	
32							
33							
34							
35	35.0-36.5	09	100	12-16-17	SILTY SAND and SAND with some silt, fine to medium sand, loose to medium dense, moist, brown (SM and SP-SM)	1	HNU = 0.4 ppm (liners)
36							
37							
38							
39							
40	40.0-41.5	10	100	16-41-53	SILTY SAND, fine to medium, dense to very dense, moist, olive-green with brown mottling (SM)	1	HNU = 0.4 ppm (liners)
41							
					End of boring at 41.5 feet		
42							
43							
44							
45							

SOIL BORING LOG

PROJECT NAME: PURITY OIL SALES
PROJECT NUMBER: W63320.FS

BORING NUMBER: SB5
PAGE: 1

BORING LOCATION: ONSITE
DATE: 1-9-88
INSPECTOR: R. QUINE/L. KROOK

BORING ELEVATION:
START TIME: 0850
CONTRACTOR: CONTINENTAL DRILLING

BORING TYPE: HOLLOW STEM AUGER
COMPLETION: 1300
CLIENT: REGION IX EPA

DRILL RIG: MOBILE B-61
GROUNDWATER DEPTH & DATE: Not encountered

DEPTH BELOW SURFACE (feet)	SAMPLE INTERVAL (feet)	SAMPLE NUMBER & TYPE	SAMPLE RECOVERY (percent)	BLOW COUNT 6"-6"-6"	SOIL DESCRIPTION	C R	COMMENTS AND HNU READINGS
1					Brick, concrete, and wood debris in fine silty sand		Samples and descriptions from 0.0-8.5' taken from test pit.
2					BLACK SLUDGE in mostly wood debris (6" layer)	5	
3							
4					Wood debris in silty fine sand and sludge (~3-6')	4	
5	5.0-6.0	01 02	3 jars 3 jars	- -	BLACK SLUDGE, greasy, oily, with wood debris	5	HNU = 7 ppm (pile)
6							
7	7.0-8.0	03	2 jars	-	SILTY SAND, fine, moist, light (SM)	2	HNU = 0.4 ppm (background)
8							
9	8.5-10.0	04	100	7-10-10	SILTY SAND, fine, moist, loose, brown with some black seams grading to brown with depth (SM)	4	HNU = 2.5 ppm (liners) Bottom of Test Pit at ~9.5 feet
10	10.0-11.5	05	100	10-16-18	SILTY SAND, fine, soft to medium dense, moist, light olive-green with some subtle black mottling (SM)	2/3	HNU = 0.4 ppm (liners)
11							
12							
13							
14							
15	15.0-16.5	06					

SOIL BORING LOG

PROJECT NAME: PURITY OIL SALES
PROJECT NUMBER: W63320.FS

BORING NUMBER: SB5
PAGE: 2

BORING LOCATION: ONSITE
DATE: 1-9-88
INSPECTOR: R. QUINE/L. KROOK

BORING ELEVATION:
START TIME: 0850
CONTRACTOR: CONTINENTAL DRILLING

BORING TYPE: HOLLOW STEM AUGER
COMPLETION: 1300
CLIENT: REGION IX EPA

DRILL RIG: MOBILE B-61
GROUNDWATER DEPTH & DATE: Not encountered

DEPTH BELOW SURFACE (feet)	SAMPLE INTERVAL (feet)	SAMPLE NUMBER & TYPE	SAMPLE RECOVERY (percent)	BLOW COUNT 6"-6"-6"	SOIL DESCRIPTION	C R	COMMENTS AND HNU READINGS
	15.0-16.5	06	100	15-27-34	SILT with fine sand and SANDY SILT, fine sand, dense, moist, light olive-green with some rust mottling (ML)	1	HNU = 0.4 ppm (background) HNU = 0.4 ppm (liners)
16							
17							
18							Gravel-like cemented sand particles in cuttings.
19							Driller reports hard drilling at ~19'
20		07 Shelby	9* (~2")	-	CEMENTED SAND, very hard and dense, strongly cemented, fine to medium, olive-brown (SP)		*Refusal after ~2" penetration, took baggie sample of tip
	20.2-21.8	08	100	19-35-47	SILTY SAND, fine, low to moderate cementation, hard and dense, moist, brown (SM)	1	HNU = 0.4 ppm (liners)
21							
22							
23							
24							
25	25.0-26.5	09 Shelby	60 (13")	-	Top: SILTY SAND and SANDY SILT, fine, loose, moist, olive-green with brown (SM & ML)	1	Pushed tube 19"
26					Bottom: SAND, fine to medium, with few or no fines, loose, brown (SP)	1	HNU = 0.4 ppm (bottom of tube)
27							
28							
29							
30	30.0-31.5	10					

SOIL BORING LOG

PROJECT NAME: PURITY OIL SALES
PROJECT NUMBER: W63320.FS

BORING NUMBER: SB5
PAGE: 3

BORING LOCATION: ONSITE
DATE: 1-9-88
INSPECTOR: R. QUINE/L. KROOK

BORING ELEVATION:
START TIME: 0850
CONTRACTOR: CONTINENTAL DRILLING

BORING TYPE: HOLLOW STEM AUGER
COMPLETION: 1300
CLIENT: REGION IX EPA

DRILL RIG: MOBILE B-61
GROUNDWATER DEPTH & DATE: Not encountered

DEPTH BELOW SURFACE (feet)	SAMPLE INTERVAL (feet)	SAMPLE NUMBER & TYPE	SAMPLE RECOVERY (percent)	BLOW COUNT 6"-6"-6"	SOIL DESCRIPTION	C R	COMMENTS AND HNU READINGS
	30.0-31.5	10	100	18-22-23	SANDY SILT, fine sand, medium firm, moist, olive-green with grey and rust mottling (ML); grading to SILTY SAND, fine, loose, grey with rust mottling, (SM); grading back to SANDY SILT, as above	1	HNU = 0.4 ppm (background) HNU = 0.4 ppm (liners)
31							
32							
33							
34							
35	35.0-36.5	11 Shelby	100 (17")	-	Top: SAND with some silt, fine to medium, loose, moist, light brown (SP-SM)	1	
36					Bottom: SAND with few or no fines, loose, fine to medium, light brown (SP)	1	HNU = 0.4 ppm (bottom of tube)
37							
38							
39							
40	40.0-41.5	12	100	15-40-37	SAND with some silt, fine to medium, dense, moist, olive-green and brown (SP-SM)	1	HNU = 0.4 ppm (bottom of tube)
41							
					End of boring at 41.5 feet		
42							
43							
44							
45							

SOIL BORING LOG

PROJECT NAME: PURITY OIL SALES
PROJECT NUMBER: W63320.FS

BORING NUMBER: SB6
PAGE: 1

BORING LOCATION: ONSITE
DATE: 1-9-88
INSPECTOR: R. QUINE/L. KROOK

BORING ELEVATION:
START TIME: 1345
CONTRACTOR: CONTINENTAL DRILLING

BORING TYPE: HOLLOW STEM AUGER
COMPLETION: 0915, 1-10-88
CLIENT: REGION IX EPA

DRILL RIG: MOBILE B-61
GROUNDWATER DEPTH & DATE: Not encountered

DEPTH BELOW SURFACE (feet)	SAMPLE INTERVAL (feet)	SAMPLE NUMBER & TYPE	SAMPLE RECOVERY (percent)	BLOW COUNT 6"-6"-6"	SOIL DESCRIPTION	C R	COMMENTS AND HNU READINGS
					SILTY, GRAVELLY SAND, a few cobbles, debris, bricks, clay pipe (SW)	1	Samples and descriptions from 0.0-10.0'-taken from test pit.
1							
2					SILTY SAND, medium, with some brick and clay pipe debris (SM)	1	
3							
4							
5							
6	6.0-6.5	01			SILTY SAND, medium, with some gravel and with brick debris, very slightly discolored (SM)	2	HNU = 2-3 ppm (pile)
7							
8	8.0-9.0	02			BLACK SAND, greasy and oily, and dried pit-residue; grading to:	5	
9					SAND, medium, grey (SP)		
10	10.0-11.5	03	100	5-8-10	SANDY SILT, fine sand, soft, moist, dark grey-black; grading to less dark with depth (ML)	4	Bottom of Test Pit at 10.0 feet HNU = 0.4 ppm (background) HNU = 14 ppm (liners)
11							
12	11.5-13.0	04	90	9-12-13	SANDY SILT, fine sand, loose, moist, dark grey; and SILT with some fine sand, hard, friable, moist, olive-green (ML)	3	HNU = 2 ppm (liners)
13							
14							
15	15.0-16.6	05					

SOIL BORING LOG

PROJECT NAME: PURITY OIL SALES
PROJECT NUMBER: W63320.FS

BORING NUMBER: SB6
PAGE: 2

BORING LOCATION: ONSITE
DATE: 1-9-88
INSPECTOR: R. QUINE/L. KROOK

BORING ELEVATION:
START TIME: 1345
CONTRACTOR: CONTINENTAL DRILLING

BORING TYPE: HOLLOW STEM AUGER
COMPLETION: 0915, 1-10-88
CLIENT: REGION IX EPA

DRILL RIG: MOBILE B-61
GROUNDWATER DEPTH & DATE: Not encountered

DEPTH BELOW SURFACE (feet)	SAMPLE INTERVAL (feet)	SAMPLE NUMBER & TYPE	SAMPLE RECOVERY (percent)	BLOW COUNT 6"-6"-6"	SOIL DESCRIPTION	CR	COMMENTS AND HNU READINGS
	15.0-16.6	05 Shelby	95 (19")	-	Top and Bottom: SANDY SILT, fine sand, dense, moist, dark grey (ML)	3	HNU = 0.4 ppm (background) HNU = 2 ppm (top of tube)
16							
17							
18							
19							
20	20.0-21.5	06	100	30-38-32	SILTY SAND, fine to medium, dense and hard, moist, olive-green with some black mottling which decreases with depth (SM)	2	HNU = 0.4 ppm (liners)
21							
22							
23							
24							
25	25.0-26.5	07 Shelby	72 (13")	-	Top: SILTY SAND, fine to medium, loose, moist, olive-green (SM)	1	HNU = 0.4 ppm (top of tube) Pushed tube 18"
26					Bottom: SAND with some silt, fine to medium, loose, moist, light olive-green (SP-SM)	1	
27							
28							
29							
30	30.0-31.5	08					

SOIL BORING LOG

PROJECT NAME: PURITY OIL SALES
PROJECT NUMBER: W63320.FS

BORING NUMBER: SB6
PAGE: 3

BORING LOCATION: ONSITE
DATE: 1-9-88
INSPECTOR: R. QUINE/L. KROOK

BORING ELEVATION:
START TIME: 1345
CONTRACTOR: CONTINENTAL DRILLING

BORING TYPE: HOLLOW STEM AUGER
COMPLETION: 0915, 1-10-88
CLIENT: REGION IX EPA

DRILL RIG: MOBILE B-61
GROUNDWATER DEPTH & DATE: Not encountered

DEPTH BELOW SURFACE (feet)	SAMPLE INTERVAL (feet)	SAMPLE NUMBER & TYPE	SAMPLE RECOVERY (percent)	BLOW COUNT 6"-6"-6"	SOIL DESCRIPTION	C R	COMMENTS AND HNU READINGS
31	30.0-31.5	08	100	13-20-28	SAND with some silt, fine, loose, grey (SP-SM); grading to SAND, with few or no fines, fine to medium, loose, moist, 'salt and pepper' coloring (SP)	1	HNU = 0.4 ppm (background) HNU = 0.4 ppm (liners)
32							
33							
34							
35	35.0-36.5	09	100	21-28-32	SAND, fine to medium, with few or no fines, loose, moist, light olive-green (SP)	1	HNU = 0.4 ppm (liners)
36							
37							
38							
39							
40	40.0-41.5	10	100	26-36-32	SILTY SAND with some clay, fine to medium, dense, moist, olive-green (SM)	1	HNU = 0.4 ppm (liners)
41							
42							
43							
44							
45	45.0-46.5	11					

SOIL BORING LOG

PROJECT NAME: PURITY OIL SALES
PROJECT NUMBER: W63320.FS

BORING NUMBER: SB6
PAGE: 4

BORING LOCATION: ONSITE
DATE: 1-9-88
INSPECTOR: R. QUINE/L. KROOK

BORING ELEVATION:
START TIME: 1345
CONTRACTOR: CONTINENTAL DRILLING

BORING TYPE: HOLLOW STEM AUGER
COMPLETION: 0915, 1-10-88
CLIENT: REGION IX EPA

DRILL RIG: MOBILE B-61
GROUNDWATER DEPTH & DATE: Not encountered

DEPTH BELOW SURFACE (feet)	SAMPLE INTERVAL (feet)	SAMPLE NUMBER & TYPE	SAMPLE RECOVERY (percent)	BLOW COUNT 6"-6"-6"	SOIL DESCRIPTION	CR	COMMENTS AND HNU READINGS
	45.0-46.5	11	100	49-33-45	SILTY SAND, fine, dense, moist, olive-green with rust mottling (SM)	1	HNU = 0.4 ppm (background) HNU = 0.4 ppm (liners)
46							
					End of boring at 46.5 feet		
47							
48							
49							
50							
51							
52							
53							
54							
55							
56							
57							
58							
59							
60							

SOIL BORING LOG

PROJECT NAME: PURITY OIL SALES
PROJECT NUMBER: W63320.FS

BORING NUMBER: SB7
PAGE: 1

BORING LOCATION: ONSITE
DATE: 1-11-88
INSPECTOR: R. QUINE/L. KROOK

BORING ELEVATION:
START TIME: 0730
CONTRACTOR: CONTINENTAL DRILLING

BORING TYPE: HOLLOW STEM AUGER
COMPLETION: 1100
CLIENT: REGION IX EPA

DRILL RIG: MOBILE B-61
GROUNDWATER DEPTH & DATE: Not encountered

DEPTH BELOW SURFACE (feet)	SAMPLE INTERVAL (feet)	SAMPLE NUMBER & TYPE	SAMPLE RECOVERY (percent)	BLOW COUNT 6"-6"-6"	SOIL DESCRIPTION	C R	COMMENTS AND HNU READINGS
1					GRAVELLY SAND, slightly silty, well-graded, with concrete, wood, and pipe debris, minor amount of bricks, some BLACK MATERIAL mixed into soil (SW)	2	Samples and descriptions from 0.0-9.0' taken from test pit. HNU = background Slight odor near excavated material
2							
3	2.5-3.0	01	3 jars	-	GRAVELLY SAND, discolored grey	3	
4							
5					SIMILAR, with concrete and brick debris up to 2'x2'x1' sized chunks, progressively more BLACK, OILY MATERIAL in debris and gravelly, sandy soil	4	
6							
7							
8	8.0-8.5	02	3 jars	-	BLACK GRAVELLY SAND, very black below 8' (SW)	5	Bottom of Test Pit at 9' HNU = 0.4 ppm (background)
9							
10	9.5-11.0	03	100	7-7-5	SILTY SAND, fine, soft, moist, dark black-olive-green, color remaining relatively constant throughout sample (SM)	4	HNU = 35 ppm (liners)
11	11.0-12.5	04	100	5-6-9	SIMILAR, but with some black mottling	4	HNU = 8 ppm (liners)
12							
13							
14							
15	15.0-16.5	05					

SOIL BORING LOG

PROJECT NAME: PURITY OIL SALES
PROJECT NUMBER: W63320.FS

BORING NUMBER: SB7
PAGE: 2

BORING LOCATION: ONSITE
DATE: 1-11-88
INSPECTOR: R. QUINE/L. KROOK

BORING ELEVATION:
START TIME: 0730
CONTRACTOR: CONTINENTAL DRILLING

BORING TYPE: HOLLOW STEM AUGER
COMPLETION: 1100
CLIENT: REGION IX EPA

DRILL RIG: MOBILE B-61
GROUNDWATER DEPTH & DATE: Not encountered

DEPTH BELOW SURFACE (feet)	SAMPLE INTERVAL (feet)	SAMPLE NUMBER & TYPE	SAMPLE RECOVERY (percent)	BLOW COUNT 6"-6"-6"	SOIL DESCRIPTION	C R	COMMENTS AND HNU READINGS
	15.0-16.5	05	100	6-8-9	SILT with fine sand, medium dense, moist, light olive-green with some black mottling, mottling decreasing with depth (ML)	3 2	HNU = 0.4 ppm (background) HNU = 1.2 ppm (liners)
16							
17							
18							
19							
20	20.0-21.5	06	100	27-52-67	SILTY SAND, fine with some medium, dense, moist, olive-green (SM)	2	HNU = 1 ppm (liners)
21							
22							
23							
24							
25	25.0-26.5	07	100	13-17-18	SILTY SAND, fine, loose to medium dense, moist, olive-green (SM); with a few pockets of hard, grey SILT (ML)	2	HNU = 1 ppm (liners)
26							
27							
28							
29							
30	30.0-31.5	08					

SOIL BORING LOG

PROJECT NAME: PURITY OIL SALES
PROJECT NUMBER: W63320.FS

BORING NUMBER: SB7
PAGE: 3

BORING LOCATION: ONSITE
DATE: 1-11-88
INSPECTOR: R. QUINE/L. KROOK

BORING ELEVATION:
START TIME: 0730
CONTRACTOR: CONTINENTAL DRILLING

BORING TYPE: HOLLOW STEM AUGER
COMPLETION: 1100
CLIENT: REGION IX EPA

DRILL RIG: MOBILE B-61
GROUNDWATER DEPTH & DATE: Not encountered

DEPTH BELOW SURFACE (feet)	SAMPLE INTERVAL (feet)	SAMPLE NUMBER & TYPE	SAMPLE RECOVERY (percent)	BLOW COUNT 6"-6"-6"	SOIL DESCRIPTION	C R	COMMENTS AND HNU READINGS
31	30.0-31.5	08	100	15-21-29	SAND, fine, with few or no fines, loose to medium dense, moist, 'salt and pepper' coloring (SP)	2	HNU = 0.4 ppm (background) HNU = 2.4 ppm (liners)
32							
33							
34							
35	35.0-36.5	09	95	12-17-17	SAND, with few or no fines, fine grading to fine with some medium, loose, moist, grey (SP)	2	HNU = 1.4-2.4 ppm (liners)
36							
37							
38							
39							
40	40.0-41.5	10	100	9-18-33	SILTY SAND, fine to medium, dense, moist, olive-green (SM)	2	HNU = 2.2-4.4 ppm (liners)
41							
42							
43							
44							
45	45.0-46.5	11					

SOIL BORING LOG

PROJECT NAME: PURITY OIL SALES
PROJECT NUMBER: W63320.FS

BORING NUMBER: SB7
PAGE: 4

BORING LOCATION: ONSITE
DATE: 1-11-88
INSPECTOR: R. QUINE/L. KROOK

BORING ELEVATION:
START TIME: 0730
CONTRACTOR: CONTINENTAL DRILLING

BORING TYPE: HOLLOW STEM AUGER
COMPLETION: 1100
CLIENT: REGION IX EPA

DRILL RIG: MOBILE B-61
GROUNDWATER DEPTH & DATE: Not encountered

DEPTH BELOW SURFACE (feet)	SAMPLE INTERVAL (feet)	SAMPLE NUMBER & TYPE	SAMPLE RECOVERY (percent)	BLOW COUNT 6"-6"-6"	SOIL DESCRIPTION	C R	COMMENTS AND HNU READINGS
	45.0-46.5	11	100	16-24-28	SAND, fine to medium, with few or no fines, very loose, moist, 'salt and pepper' coloring (SP)	2	HNU = 0.4 ppm (background) HNU = 40 ppm (liners)
46							
					End of boring at 46.5 feet		
47							
48							
49							
50							
51							
52							
53							
54							
55							
56							
57							
58							
59							
60							

SOIL BORING LOG

PROJECT NAME: PURITY OIL SALES
PROJECT NUMBER: W63320.FS

BORING NUMBER: SB8
PAGE: 1

BORING LOCATION: ONSITE
DATE: 12-18-87
INSPECTOR: DARYL GREENWAY

BORING ELEVATION:
START TIME: 1500
CONTRACTOR: CONTINENTAL DRILLING

BORING TYPE: HOLLOW STEM AUGER
COMPLETION: 12-19-87, 0930
CLIENT: REGION IX EPA

DRILL RIG: MOBILE B-61
GROUNDWATER DEPTH & DATE: None encountered

DEPTH BELOW SURFACE (feet)	SAMPLE INTERVAL (feet)	SAMPLE NUMBER & TYPE	SAMPLE RECOVERY (percent)	BLOW COUNT 6"-6"-6"	SOIL DESCRIPTION	C R	COMMENTS AND HNU READINGS
					Black SILTY GRAVELLY SAND with debris (SW)	4	HNU = 0.2 ppm (background)
1	1.0-2.5	01	40	18 (~9")	Black SILTY GRAVELLY SAND with debris	4	HNU = 0.8 ppm(liners)
2							
3	2.5-4.0	02	90	14-31-42	Black SILTY GRAVELLY SAND with wood debris (SW)	4	HNU = 0.2 ppm(liners)
4							
5	4.5-6.0	03	40	38-40-12	Similar, with considerable black wood debris	4	HNU = 1.5 ppm(liners)
6							
7	6.5-8.0	04	90	3-8-9	BLACK TAR-like material with some free oil and some black sand/silt	5	HNU = 24 ppm(liners)
8							
9							
10	10.0-12.0	05 Shelby	62	-	Top: BLACK TAR-like material and soil	5	HNU = 20 ppm
11					Bottom: SAND, cemented, very hard (SP)		
12							
13	13.0-14.5	06	100	15-16-14	Blue-grey SILT with brown SAND and TAR-like balls mixture; grading to a blue-grey and brown SILT (ML & SP)	4	HNU = 55 ppm(liners)
14							
15	15.0-17.0	07 Shelby					

SOIL BORING LOG

PROJECT NAME: PURITY OIL SALES
PROJECT NUMBER: W63320.FS

BORING NUMBER: SB8
PAGE: 2

BORING LOCATION: ONSITE
DATE: 12-18-87
INSPECTOR: DARYL GREENWAY

BORING ELEVATION:
START TIME: 1500
CONTRACTOR: CONTINENTAL DRILLING

BORING TYPE: HOLLOW STEM AUGER
COMPLETION: 12-19-87, 0930
CLIENT: REGION IX EPA

DRILL RIG: MOBILE B-61
GROUNDWATER DEPTH & DATE: None encountered

DEPTH BELOW SURFACE (feet)	SAMPLE INTERVAL (feet)	SAMPLE NUMBER & TYPE	SAMPLE RECOVERY (percent)	BLOW COUNT 6"-6"-6"	SOIL DESCRIPTION	C R	COMMENTS AND HNU READINGS
16	15.0-17.0	07 Shelby	100	-	Top: Brown SILT and CLAY with black tar-like balls (ML/CL)	4	HNU = 25 ppm HNU background reading = 0.2 ppm
17					Bottom: Cemented SAND, greenish with black tar-like lense (SP)	3/4	
18							
19							
20	20.0-21.5	08	100	12-31-25	SILTY SAND, loose to dense, with some cementation, moist, greenish-grey with some black staining (SM)	3	Begin day, 12-19-87 HNU = 3 ppm(liners
21							
22	21.5-23.0	09	100	13-18-20	Similar, but less silty and less dense, becoming less greenish	3	HNU = 6ppm(liners)
23							
24							
25	25.0-26.5	10	100	10-15-20	SAND, with little or no silt, fine, poorly graded, loose, moist, grey (SP)	2	HNU = 3 ppm(liners
26							
27							
28							
29							
30	30.0-31.5	11					

SOIL BORING LOG

PROJECT NAME: PURITY OIL SALES
PROJECT NUMBER: W63320.FS

BORING NUMBER: SB8
PAGE: 3

BORING LOCATION: ONSITE
DATE: 12-18-87
INSPECTOR: DARYL GREENWAY

BORING ELEVATION:
START TIME: 1500
CONTRACTOR: CONTINENTAL DRILLING

BORING TYPE: HOLLOW STEM AUGER
COMPLETION: 12-19-87, 0930
CLIENT: REGION IX EPA

DRILL RIG: MOBILE B-61
GROUNDWATER DEPTH & DATE: None encountered

DEPTH BELOW SURFACE (feet)	SAMPLE INTERVAL (feet)	SAMPLE NUMBER & TYPE	SAMPLE RECOVERY (percent)	BLOW COUNT 6"-6"-6"	SOIL DESCRIPTION	C R	COMMENTS AND HNU READINGS
	30.0-31.5	11	100	12-17-22	SAND, fine, poorly graded, loose, moist, grey with black streaks (SP)	3	HNU = 1-2ppm(liners) HNU background reading = 0.2 ppm
31							
32							
33							
34							
35	35.0-36.5	12	100	15-18-23	SAND, fine, poorly graded, loose, moist, color grading from grey to grey with black streaks to black (SP)	2	HNU = 1.5 ppm(liners)
36						3	
						4	
37							
38							
39							
40	40.0-41.5	13	100	22-32-49	SILTY SAND, loose, moist, grey with some black, becoming less black with depth (SM)	2	HNU = 0.8 ppm(liners)
41							
					End of boring at 41.5 feet		
42							
43							
44							
45							

SOIL BORING LOG

PROJECT NAME: PURITY OIL SALES
PROJECT NUMBER: W63320.FS

BORING NUMBER: SB9
PAGE: 1

BORING LOCATION: ONSITE
DATE: 12-19-87
INSPECTOR: D. GREENWAY/L. KROOK

BORING ELEVATION:
START TIME: 1030
CONTRACTOR: CONTINENTAL DRILLING

BORING TYPE: HOLLOW STEM AUGER
COMPLETION: 1400
CLIENT: REGION IX EPA

DRILL RIG: MOBILE B-61
GROUNDWATER DEPTH & DATE: Not encountered

DEPTH BELOW SURFACE (feet)	SAMPLE INTERVAL (feet)	SAMPLE NUMBER & TYPE	SAMPLE RECOVERY (percent)	BLOW COUNT 6"-6"-6"	SOIL DESCRIPTION	C R	COMMENTS AND HNU READINGS
					0.0-2.0': Black sand and gravel (SM/GM)		HNU = 0.2 ppm (background)
1							
2	2.0-3.5	01	80	4-10-25	BLACK TAR-like material with brown silt	5	HNU = 4 ppm(liners)
3							
4	3.5-5.0	02	40	33-33-16	BLACK TAR-like material with brown silt	5	HNU = 4 ppm(liners)
5	5.0-6.5	03	90	9-15-15	BLACK TAR-like material with black silt grading to a grey SANDY SILT at ~6'	4/5	HNU = 7 ppm(liners)
6							
7							
8							
9	8.5-10.0	04	90	9-12-18	Greenish, SANDY SILT with some grey mottling (ML)	4	HNU = 7-8ppm(liners)
10	10.0-11.5	05	100	16-27-27	Grey SAND grading to greenish-grey SILT (SP/ML)	3/4	HNU = 1-7ppm(liners)
11							
12							
13							
14							
15	15.0-16.5	06					

SOIL BORING LOG

PROJECT NAME: PURITY OIL SALES
PROJECT NUMBER: W63320.FS

BORING NUMBER: SB9
PAGE: 2

BORING LOCATION: ONSITE
DATE: 12-19-87
INSPECTOR: D. GREENWAY/L. KROOK

BORING ELEVATION:
START TIME: 1030
CONTRACTOR: CONTINENTAL DRILLING

BORING TYPE: HOLLOW STEM AUGER
COMPLETION: 1400
CLIENT: REGION IX EPA

DRILL RIG: MOBILE B-61
GROUNDWATER DEPTH & DATE: Not encountered

DEPTH BELOW SURFACE (feet)	SAMPLE INTERVAL (feet)	SAMPLE NUMBER & TYPE	SAMPLE RECOVERY (percent)	BLOW COUNT 6"-6"-6"	SOIL DESCRIPTION	C R	COMMENTS AND HNU READINGS
	15.0-16.5	06	100	10-24-54	SILT and SILTY SAND, medium dense, poorly graded sand, dark grey with some black mottling becoming dark grey (ML/SM)	3/4	HNU = 6-14ppm(liners) HNU = 0.2 ppm (background)
16							
17							
18							
19							
20	20.0-21.4	07 Shelby	71	-	Top: SILTY SAND, poorly graded, moist, grey (SM)	2	HNU = 2.6 ppm (top of tube)
21					Bottom: SAND, poorly graded, loose (SP)	1/2	
22							
23							
24							
25	25.0-26.5	08	100	11-19-24	SAND, with few or no fines, poorly graded, loose, "salt and pepper" coloring (SP)	2	HNU = 4-6.5 ppm (liners)
26							
27							
28							
29							
30	30.0-32.0	09 Shelby					

SOIL BORING LOG

PROJECT NAME: PURITY OIL SALES
PROJECT NUMBER: W63320.FS

BORING NUMBER: SB9
PAGE: 3

BORING LOCATION: ONSITE
DATE: 12-19-87
INSPECTOR: D. GREENWAY/L. KROOK

BORING ELEVATION:
START TIME: 1030
CONTRACTOR: CONTINENTAL DRILLING

BORING TYPE: HOLLOW STEM AUGER
COMPLETION: 1400
CLIENT: REGION IX EPA

DRILL RIG: MOBILE B-61
GROUNDWATER DEPTH & DATE: Not encountered

DEPTH BELOW SURFACE (feet)	SAMPLE INTERVAL (feet)	SAMPLE NUMBER & TYPE	SAMPLE RECOVERY (percent)	BLOW COUNT 6"-6"-6"	SOIL DESCRIPTION	C R	COMMENTS AND HNU READINGS
	30.0-32.0	09 Shelby	87	-	Top: SAND, poorly graded, loose, moist, light brown (SP)	2	HNU = 3.5 ppm (top of tube) HNU = 0.2 ppm (background)
31							
					Bottom: Similar	2	
32							
33							
34							
35	35.0-36.5	10	100	17-53-39	SILTY SAND, poorly graded, medium dense, moist, olive-green with rust mottling (SM)	1	HNU = 0.5-1 ppm (liners)
36							
37							
38							
39							
40	40.0-41.5	11	95	9-14-21	SANDY SILT and SILT with some fine sand, medium dense, moist, light olive-green (SM/ML)	1	HNU = 1 ppm (liners)
41							
					End of boring at 41.5 feet		
42							
43							
44							
45							

SOIL BORING LOG

PROJECT NAME: PURITY OIL SALES
PROJECT NUMBER: W63320.FS

BORING NUMBER: SB11
PAGE: 1

BORING LOCATION: ONSITE
DATE: 12-16-87
INSPECTOR: DARYL GREENWAY

BORING ELEVATION:
START TIME: 1030
CONTRACTOR: CONTINENTAL DRILLING

BORING TYPE: HOLLOW STEM AUGER
COMPLETION: 1530
CLIENT: REGION IX EPA

DRILL RIG: MOBILE B-61
GROUNDWATER DEPTH & DATE: Not encountered

DEPTH BELOW SURFACE (feet)	SAMPLE INTERVAL (feet)	SAMPLE NUMBER & TYPE	RECOVERY (percent)	BLOW COUNT 6"-6"-6"	SOIL DESCRIPTION	C R	COMMENTS AND HNU READINGS
					0.0-1.0': SANDY GRAVEL, black, dry (GM)	4	Background HNU = 0.2 ppm
1					1.0-2.0': Brown GRAVELLY SILT (ML)	3	
2	2.0-3.5	01	50	6-7-7	Black SANDY GRAVEL grading to brown SILTY SAND at ~3' (GM/SM)	4	HNU > 2000ppm (liners)
3							
	3.5-5.0	02	100	8-9-11	SILTY SAND, moist, brown (SM)	3	HNU = 80 ppm(liners)
4							
5	5.0-6.5	03	100	12-15-15	Similar	3	HNU > 2000 ppm (liners)
6							
7	7.0-9.0	04 Shelby	100	-	Top: SILTY SAND, moist, brown (SM)	2	
8							
9					Bottom: SILT, moist, grey with slight brown mottling (ML)	2	HNU = 175 ppm (baggie)
10	10.0-11.5	05	100	12-21-20	SILTY SAND, grey (SM) grading to SILT, moist, grey with slight brown mottling and some red streaks (ML)	2	HNU = 1100 ppm (liners)
11							
12							
13							
14							
							Hard driving at 15', may be caliche layer?
15	15.0-16.5	06					

SOIL BORING LOG

PROJECT NAME: PURITY OIL SALES
PROJECT NUMBER: W63320.FS

BORING NUMBER: SB11
PAGE: 2

BORING LOCATION: ONSITE
DATE: 12-16-87
INSPECTOR: DARYL GREENWAY

BORING ELEVATION:
START TIME: 1030
CONTRACTOR: CONTINENTAL DRILLING

BORING TYPE: HOLLOW STEM AUGER
COMPLETION: 1530
CLIENT: REGION IX EPA

DRILL RIG: MOBILE B-61
GROUNDWATER DEPTH & DATE: Not encountered

DEPTH BELOW SURFACE (feet)	SAMPLE INTERVAL (feet)	SAMPLE NUMBER & TYPE	SAMPLE RECOVERY (percent)	BLOW COUNT 6"-6"-6"	SOIL DESCRIPTION	C R	COMMENTS AND HNU READINGS
	15.0-16.5	06	100	31-18-16	SILTY SAND, moist, grey-brown (SM)	2	HNU = 70 ppm(liners) Background HNU = 0.2-ppm
16							
17							
18							
19							
20	20.0-21.5	07	100	8-11-14	SAND, well graded fine and medium, few or no fines, moist, grey to whitish-grey (SW)	2	HNU = 200 ppm(liners)
21							
22							
23							
24							
25	25.0-26.5	08	100	16-18-21	SAND, medium, with some silt; grading to fine to medium with few or no fines, moist, grey to whitish-grey with some red stains and mottling (SP)	1	HNU charging
26							
27							
28							
29							
30	30.0-31.0	09 Shelby					

SOIL BORING LOG

PROJECT NAME: PURITY OIL SALES
PROJECT NUMBER: W63320.FS

BORING NUMBER: SB11
PAGE: 3

BORING LOCATION: ONSITE
DATE: 12-16-87
INSPECTOR: DARYL GREENWAY

BORING ELEVATION:
START TIME: 1030
CONTRACTOR: CONTINENTAL DRILLING

BORING TYPE: HOLLOW STEM AUGER
COMPLETION: 1530
CLIENT: REGION IX EPA

DRILL RIG: MOBILE B-61
GROUNDWATER DEPTH & DATE: Not encountered

DEPTH BELOW SURFACE (feet)	SAMPLE INTERVAL (feet)	SAMPLE NUMBER & TYPE	SAMPLE RECOVERY (percent)	BLOW COUNT 6"-6"-6"	SOIL DESCRIPTION	C R	COMMENTS AND HNU READINGS
	30.0-31.0	09 Shelby	50	-			
31					SAND, medium, few or no fines, moist, light grey (SP)	1	Refusal after 1' penetration
32							
33							
34							
35	35.0-36.5	10	100	20-26-29	SAND, uniform, few or no fines, moist, whitish (SP)	1	
36							
37							
38							
39							
40	39.5-41.0	11	100	21-21-21	SAND, uniform fine to medium, few or no fines, moist, light grey with some rust red mottling (SP)	1	
41					End of boring at 41.0 feet		
42							
43							
44							
45							

SOIL BORING LOG

PROJECT NAME: PURITY OIL SALES
PROJECT NUMBER: W63320.FS

BORING NUMBER: SB12
PAGE: 1

BORING LOCATION: ONSITE
DATE: 12-18-87
INSPECTOR: DARYL GREENWAY

BORING ELEVATION:
START TIME: 0830
CONTRACTOR: CONTINENTAL DRILLING

BORING TYPE: HOLLOW STEM AUGER
COMPLETION: 1200
CLIENT: REGION IX EPA

DRILL RIG: MOBILE B-61
GROUNDWATER DEPTH & DATE: Not encountered

DEPTH BELOW SURFACE (feet)	SAMPLE INTERVAL (feet)	SAMPLE NUMBER & TYPE	SAMPLE RECOVERY (percent)	BLOW COUNT 6"-6"-6"	SOIL DESCRIPTION	CR	COMMENTS AND HNU READINGS
1					0.0-2.0': SILTY SAND and SANDY SILT, moist, brown (SM/ML)	1	Background HNU = 0.5 ppm
2	2.0-3.5	01	95	5-5-7	SANDY SILT, moist, with some roots, brown (ML)	1	HNU = 0.5 ppm(liners)
3	3.5-5.0	02	100	6-10-10	SANDY SILT, moist, grey and brown stained (ML)	1	HNU = 0.5 ppm(liners)
4							
5	5.0-7.0	03 Shelby	100	-	SILTY SAND, moist, brown with grey mottling at 7' (SM)	1	HNU = 0.5 ppm
6							
7	7.0-8.5	04	100	7-8-13	SAND, poorly graded, fine, few or no fines, moist, grey (SP) With some SILT at ~7.5' ~8.5', grey (ML)	1	HNU = 0.5 ppm(liners)
8							
9							
10	10.0-12.0	05 Shelby	100	-	SILTY SAND, moist, brownish-grey (SM)	2	HNU = 70 ppm (top)
11							
12							HNU = 3 ppm (bottom)
13							
14							
15	15.0-16.5	06					

SOIL BORING LOG

PROJECT NAME: PURITY OIL SALES
PROJECT NUMBER: W63320.FS

BORING NUMBER: SB12
PAGE: 2

BORING LOCATION: ONSITE
DATE: 12-18-87
INSPECTOR: DARYL GREENWAY

BORING ELEVATION:
START TIME: 0830
CONTRACTOR: CONTINENTAL DRILLING

BORING TYPE: HOLLOW STEM AUGER
COMPLETION: 1200
CLIENT: REGION IX EPA

DRILL RIG: MOBILE B-61
GROUNDWATER DEPTH & DATE: Not encountered

DEPTH BELOW SURFACE (feet)	SAMPLE INTERVAL (feet)	SAMPLE NUMBER & TYPE	SAMPLE RECOVERY (percent)	BLOW COUNT 6"-6"-6"	SOIL DESCRIPTION	C R	COMMENTS AND HNU READINGS
	15.0-16.5	06	100	10-18-17	SILTY SAND, moist, brown with grey stains (SM)	2	HNU = 110 ppm(liners) Background HNU = 0.5 ppm
16							
17							
18							Switched from HNU #897259 to #897258 at 1010 hours
19							Background HNU = 0.3 ppm
20	20.0-21.5	07	90	8-12-18	SAND, uniform, few or no fines, moist, whitish-grey with some faint grey areas (SP)	1	HNU = 0.3 ppm(liners)
21							
22							
23							
24							
25	25.0-26.5	08	100	19-22-28	SILTY SAND, moist, brown (SM)	1	HNU = 0.2 ppm(liners)
26							
27							
28							
29							
30	30.0-31.5	09					

SOIL BORING LOG

PROJECT NAME: PURITY OIL SALES
PROJECT NUMBER: W63320.FS

BORING NUMBER: SB12
PAGE: 3

BORING LOCATION: ONSITE
DATE: 12-18-87
INSPECTOR: DARYL GREENWAY

BORING ELEVATION:
START TIME: 0830
CONTRACTOR: CONTINENTAL DRILLING

BORING TYPE: HOLLOW STEM AUGER
COMPLETION: 1200
CLIENT: REGION IX EPA

DRILL RIG: MOBILE B-61
GROUNDWATER DEPTH & DATE: Not encountered

DEPTH BELOW SURFACE (feet)	SAMPLE INTERVAL (feet)	SAMPLE NUMBER & TYPE	SAMPLE RECOVERY (percent)	BLOW COUNT 6"-6"-6"	SOIL DESCRIPTION	C R	COMMENTS AND HNU READINGS
	30.0-31.5	09	100	15-21-24	SAND, uniform medium, moist, whitish-grey (SP)	1	HNU = 0.2 ppm(liners) Background HNU = 0.3-ppm
31							
32							
33							
34							
35	35.0-36.5	10	100	12-21-23	Similar	1	HNU = 0.2 ppm(liners)
36							
37							
38							
39							
40	40.0-41.5	11	90	7-10-16	SAND, moist, brownish-grey; grading to SILTY SAND, wet, brown (SP/SM)	1	HNU = 0.2 ppm(liners)
41							
					End of boring at 41.5 feet		
42							
43							
44							
45							

SOIL BORING LOG

PROJECT NAME: PURITY OIL SALES
PROJECT NUMBER: W63320.FS

BORING NUMBER: SB13
PAGE: 1

BORING LOCATION: CONCRETE TANK, NORTH
DATE: 12-15-87
INSPECTOR: DARYL GREENWAY

BORING ELEVATION:
START TIME: 1330
CONTRACTOR: CONTINENTAL DRILLING

BORING TYPE: HOLLOW STEM AUGER
COMPLETION: 12-16-87, 0900
CLIENT: REGION IX EPA

DRILL RIG: MOBILE B-61
GROUNDWATER DEPTH & DATE: Not encountered

DEPTH BELOW SURFACE (feet)	SAMPLE INTERVAL (feet)	SAMPLE NUMBER & TYPE	SAMPLE RECOVERY (percent)	BLOW COUNT 6"-6"-6"	SOIL DESCRIPTION	CR	COMMENTS AND HNU READINGS
							Background HNU = 0.2 ppm
1							
2							
3							
4							
5					IMPORTED FILL: Brown SANDY SILT or SILTY SAND, dry to moist (ML or SM)	1	
6							
7							
8							
9							
10	10.0-11.5	01	100	4-9-14	Brown SILT mixed with a BLACK TAR-like material; grading to a mixed grey, CLAYEY SILT at ~10.5' (ML)	4	HNU = 60 ppm(liners) medium concentration
11							
12	12.0-13.5	02	100	7-10-14	BLACK SILT with grey mottling (ML)	4	HNU > 20 ppm(liners)
13							
14							
15	14.5-16.0	03	20	32 - 50 (2.5")	SILT, moist, uniform grey color (ML)	3	HNU = 30 ppm(liners)

SOIL BORING LOG

PROJECT NAME: PURITY OIL SALES
PROJECT NUMBER: W63320.FS

BORING NUMBER: SB13
PAGE: 2

BORING LOCATION: CONCRETE TANK, NORTH
DATE: 12-15-87
INSPECTOR: DARYL GREENWAY

BORING ELEVATION:
START TIME: 1330
CONTRACTOR: CONTINENTAL DRILLING

BORING TYPE: HOLLOW STEM AUGER
COMPLETION: 12-16-87, 0900
CLIENT: REGION IX EPA

DRILL RIG: MOBILE B-61
GROUNDWATER DEPTH & DATE: Not encountered

DEPTH BELOW SURFACE (feet)	SAMPLE INTERVAL (feet)	SAMPLE NUMBER & TYPE	SAMPLE RECOVERY (percent)	BLOW COUNT 6"-6"-6"	SOIL DESCRIPTION	C R	COMMENTS AND HNU READINGS
	14.5-16.0	03	20	32 - 50 (2.5")	SILT, moist, uniform grey color (ML)	3	Background HNU = 0.2 ppm HNU = 30 ppm(liners)
16							
17	17.0-18.5	04	100	15-17-20	SILTY SAND, moist, grey-brown (SM)	3	HNU = 6 ppm(liners)
18							
19							
20	20.0-21.5	05	40	10-11-14	Grey SILTY SAND with BLACK TAR-like mottling, moist (SM)	3	HNU = 2 ppm(liners)
21							
22							
23							
24							Easier drilling from 24-25'
25	25.0-26.5	06	100	15-20-20	SAND, medium, well graded, few or no fines, 'salt and pepper' coloring (SW)	2	HNU = 6-10 ppm (liners)
26							HNU readings drop off quickly
27							
28							
29							
30	30.0-31.5	07					

SOIL BORING LOG

PROJECT NAME: PURITY OIL SALES
PROJECT NUMBER: W63320.FS

BORING NUMBER: SB13
PAGE: 3

BORING LOCATION: CONCRETE TANK, NORTH
DATE: 12-15-87
INSPECTOR: DARYL GREENWAY

BORING ELEVATION:
START TIME: 1330
CONTRACTOR: CONTINENTAL DRILLING

BORING TYPE: HOLLOW STEM AUGER
COMPLETION: 12-16-87, 0900
CLIENT: REGION IX EPA

DRILL RIG: MOBILE B-61
GROUNDWATER DEPTH & DATE: Not encountered

DEPTH BELOW SURFACE (feet)	SAMPLE INTERVAL (feet)	SAMPLE NUMBER & TYPE	SAMPLE RECOVERY (percent)	BLOW COUNT 6"-6"-6"	SOIL DESCRIPTION	C R	COMMENTS AND HNU READINGS
	30.0-31.5	07	100	15-19-22	SAND, well graded fine to medium, few or no fines, moist, black and white speckled with some brown mottling (SW)	2	HNU = 160-800 ppm (liners) Background HNU = 0.2 ppm
31							
					End of boring at 31.5 feet		
32							
33							
34							
35							
36							
37							
38							
39							
40							
41							
42							
43							
44							
45							

SOIL BORING LOG

PROJECT NAME: PURITY OIL SALES
PROJECT NUMBER: W63320.FS

BORING NUMBER: SB14
PAGE: 1

BORING LOCATION: CONCRETE TANK, SOUTH
DATE: 12-14-87
INSPECTOR: DARYL GREENWAY

BORING ELEVATION:
START TIME: 1300
CONTRACTOR: CONTINENTAL DRILLING

BORING TYPE: HOLLOW STEM AUGER
COMPLETION: 12-15-87, 1200
CLIENT: REGION IX EPA

DRILL RIG: MOBILE B-61
GROUNDWATER DEPTH & DATE: Not encountered

DEPTH BELOW SURFACE (feet)	SAMPLE INTERVAL (feet)	SAMPLE NUMBER & TYPE	SAMPLE RECOVERY (percent)	BLOW COUNT 6"-6"-6"	SOIL DESCRIPTION	C R	COMMENTS AND HNU READINGS
1							
2							
3							
4							Background HNU = 0.2 ppm
5					IMPORTED FILL: SANDY SILT, moist, brown (ML)	1	
6							
7							
8							
9							
10							
11	11.0-11.2	-	-	-	~2 inch layer of BLACK TAR-like material, "gooey" consistency	5	HNU = 3 ppm (cuttings)
12					SILT, moist, grey (ML)	4	
13							
14					SIMILAR, but with some clay, brown	4	
15							

SOIL BORING LOG

PROJECT NAME: PURITY OIL SALES
PROJECT NUMBER: W63320.FS

BORING NUMBER: SB14
PAGE: 2

BORING LOCATION: CONCRETE TANK, SOUTH
DATE: 12-14-87
INSPECTOR: DARYL GREENWAY

BORING ELEVATION:
START TIME: 1300
CONTRACTOR: CONTINENTAL DRILLING

BORING TYPE: HOLLOW STEM AUGER
COMPLETION: 12-15-87, 1200
CLIENT: REGION IX EPA

DRILL RIG: MOBILE B-61
GROUNDWATER DEPTH & DATE: Not encountered

DEPTH BELOW SURFACE (feet)	SAMPLE INTERVAL (feet)	SAMPLE NUMBER & TYPE	SAMPLE RECOVERY (percent)	BLOW COUNT 6"-6"-6"	SOIL DESCRIPTION	C R	COMMENTS AND HNU READINGS
16							
17	17.0-18.5	01	100	13-23-35	Fine SILTY SAND with gravel and some BLACK-TAR-like material, moist; at 17.3' grades moist, grey CLAYEY SILT; then grades to a brown, cemented SILTY SAND at ~17.8'	3/4	HNU = 11 ppm (baggie sample)
18							
19	18.5-20.0	02	45	8-21-28	SILTY SAND, cemented, brown to slightly grey mottled; grades to a grey SILTY SAND with a BLACK TAR-like lense at ~19.0'. From 19.5-20.0' becomes a brown SILTY SAND with slight grey mottling (SM)	4	HNU > 2000 ppm (baggie sample)
20					End of boring at 20.0 feet		
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							

SOIL BORING LOG

PROJECT NAME: PURITY OIL SALES
PROJECT NUMBER: W63320.FS

BORING NUMBER: ABP1
PAGE: 1

BORING LOCATION: TRAILER PARK, OPPOSITE N-NW CORNER OF SITE
BORING ELEVATION:
BORING TYPE: HAND AUGER
DRILL RIG: NA

DATE: 1-9-88
START TIME: 1545
COMPLETION: 1555
GROUNDWATER DEPTH & DATE: Not encountered

INSPECTOR: RICK QUINE
CONTRACTOR: NA
CLIENT: REGION IX EPA

DEPTH BELOW SURFACE (feet)	SAMPLE INTERVAL (feet)	SAMPLE NUMBER & TYPE	SAMPLE RECOVERY (percent)	BLOW COUNT 6"-6"-6"	SOIL DESCRIPTION	CR	COMMENTS AND HNU READINGS
					SANDY SILT, nearly dry, appears visually uncontaminated (ML)	1	HNU = background
1							
2	2.0-2.5	S1		-	SIMILAR	1	
					Bottom of hole at 2.5 feet		Refusal on buried object at 2.5 feet
3							Two supplementary borings, 25 feet and 50 feet north of ABP1 revealed visually uncontaminated soils with no HNU readings above background to a depth of 5 feet.

SOIL BORING LOG

PROJECT NAME: PURITY OIL SALES
PROJECT NUMBER: W63320.FS

BORING NUMBER: ABP2
PAGE: 1

BORING LOCATION: TRAILER PARK, OPPOSITE SB7
BORING ELEVATION:
BORING TYPE: HAND AUGER
DRILL RIG: NA

DATE: 1-9-88
START TIME: 1600
COMPLETION: 1620
GROUNDWATER DEPTH & DATE: Not encountered

INSPECTOR: RICK QUINE
CONTRACTOR: NA
CLIENT: REGION IX EPA

DEPTH BELOW SURFACE (feet)	SAMPLE INTERVAL (feet)	SAMPLE NUMBER & TYPE	SAMPLE RECOVERY (percent)	BLOW COUNT 6"-6"-6"	SOIL DESCRIPTION	CR	COMMENTS AND HNU READINGS
					SILTY SAND, fine, moist, brown (SM)	1	HNU = background throughout boring
1							
	1.5-2.5	S1		-	SIMILAR	1	
2							
					SIMILAR	1	
3							
					SIMILAR	1	
4							
					SILTY SAND, moist, tan (SM)	1	
5					Bottom of hole at 5.0 feet		

SOIL BORING LOG

PROJECT NAME: PURITY OIL SALES
PROJECT NUMBER: W63320.FS

BORING NUMBER: ABP3
PAGE: 1

BORING LOCATION: BRUNO'S (EAST)
DATE: 1-11-88
INSPECTOR: DARYL GREENWAY

BORING ELEVATION:
START TIME: 0900
CONTRACTOR: NA

BORING TYPE: HAND AUGER
COMPLETION: 0930
CLIENT: REGION IX EPA

DRILL RIG: NA
GROUNDWATER DEPTH & DATE: Not encountered

DEPTH BELOW SURFACE (feet)	SAMPLE INTERVAL (feet)	SAMPLE NUMBER & TYPE	SAMPLE RECOVERY (percent)	BLOW COUNT 6"-6"-6"	SOIL DESCRIPTION	C R	COMMENTS AND HNU READINGS
							HNU = 0.4 ppm (background)
					SILTY SAND, moist, brown with slight red-brown staining or mottling (SM)	1	
1							
2							HNU = 0.4 ppm (hole)
3							HNU = 0.4 ppm (hole)
					SIMILAR, becoming more silty and with a light grey color at 3.5'		
4	4.0-5.0	01	100	-	SIMILAR	1	
5							HNU = 1.0 ppm (hole)
					SILTY SAND, moist, brown (SM)	1	HNU = 1.1 ppm (hole)
					Bottom of hole at 5.5 feet		
6							

SOIL BORING LOG

PROJECT NAME: PURITY OIL SALES
PROJECT NUMBER: W63320.FS

BORING NUMBER: ABP4
PAGE: 1

BORING LOCATION: BRUNO'S, WEST
DATE: 1-11-88
INSPECTOR: DARYL GREENWAY

BORING ELEVATION:
START TIME: 0940
CONTRACTOR: NA

BORING TYPE: HAND AUGER
COMPLETION: 1020
CLIENT: REGION IX EPA

DRILL RIG: NA
GROUNDWATER DEPTH & DATE: Not encountered

DEPTH BELOW SURFACE (feet)	SAMPLE INTERVAL (feet)	SAMPLE NUMBER & TYPE	SAMPLE RECOVERY (percent)	BLOW COUNT 6"-6"-6"	SOIL DESCRIPTION	C R	COMMENTS AND HNU READINGS
					SILTY SAND, cemented, moist, brown (SM)	1	HNU = 0.4 ppm (background)
					SILTY SAND, moist, light brown (SM)	1	
1							
2	2.0-3.0	01	100	-	SIMILAR	1	HNU = 0.4 ppm (in hole) HNU = 0.4 ppm (sample)
3					SILTY SAND, fine, moist (SM)	1	
4	4.0-5.0	02	100	-	SIMILAR	1	HNU = 0.4 ppm (in hole)
5							HNU = 0.4 ppm (in hole)
					Bottom of hole at 5.5 feet		
6							

SOIL BORING LOG

PROJECT NAME: PURITY OIL SALES
PROJECT NUMBER: W63320.FS

BORING NUMBER: ABP5
PAGE: 1

BORING LOCATION: BESIDE CANAL
DATE: 1-10-88
INSPECTOR: RICK QUINE

BORING ELEVATION: ~4.5 FEET BELOW ADJACENT SITE ELEVATION
START TIME: 1130
CONTRACTOR: NA

BORING TYPE: HAND AUGER
COMPLETION: 1200
CLIENT: REGION IX EPA

DRILL RIG: MOBILE B-61
GROUNDWATER DEPTH & DATE: Not encountered

DEPTH BELOW SURFACE (feet)	SAMPLE INTERVAL (feet)	SAMPLE NUMBER & TYPE	SAMPLE RECOVERY (percent)	BLOW COUNT 6"-6"-6"	SOIL DESCRIPTION	CR	COMMENTS AND HNU READINGS
					SILTY SAND, fine, moist, brown (SM)	1	
1							
2	2.0-3.0	S1		-	SIMILAR	1	HNU = background
3					SAND, moist, red-brown (SW)	1	
4							
5	4.7-5.5	S2		-	SIMILAR	1	HNU = background
					Bottom of hole at 5.5 feet		
6							

SOIL BORING LOG

PROJECT NAME: PURITY OIL SALES
PROJECT NUMBER: W63320.FS

BORING NUMBER: ABP6
PAGE: 1

BORING LOCATION: BENCH ALONG CANAL
DATE: 1-10-88
INSPECTOR: RICK QUINE

BORING ELEVATION:
START TIME: 1040
CONTRACTOR: NA

BORING TYPE: HAND AUGER
COMPLETION: 1120
CLIENT: REGION IX EPA

DRILL RIG: NA
GROUNDWATER DEPTH & DATE: Not encountered

DEPTH BELOW SURFACE (feet)	SAMPLE INTERVAL (feet)	SAMPLE NUMBER & TYPE	SAMPLE RECOVERY (percent)	BLOW COUNT 6"-6"-6"	SOIL DESCRIPTION	C R	COMMENTS AND HNU READINGS
					SILTY SAND, fine, slightly moist, brown (SM); grading to SILTY SAND, medium, moist, red-brown (SM)	1	
1							
2							
3	2.8-3.6	S1		-	SIMILAR, grading to SAND, fine to medium, moist, red-brown (SW)	1	HNU = background (in hole and on cuttings)
4							
5							
	5.6-6.3	S2		-	SAND, fine to medium, moist, red-brown (SW)	1	
6					Bottom of hole at 6.3 feet		HNU = background (in hole and on cuttings)

SOIL BORING LOG

PROJECT NAME: PURITY OIL SALES
PROJECT NUMBER: W63320.FS

BORING NUMBER: ABP7
PAGE: 1

BORING LOCATION: BESIDE CANAL
DATE: 1-10-88
INSPECTOR: RICK QUINE

BORING ELEVATION:
START TIME: 0900
CONTRACTOR: NA

BORING TYPE: HAND AUGER
COMPLETION: 0940
CLIENT: REGION IX EPA

DRILL RIG: NA
GROUNDWATER DEPTH & DATE: Not encountered

DEPTH BELOW SURFACE (feet)	SAMPLE INTERVAL (feet)	SAMPLE NUMBER & TYPE	SAMPLE RECOVERY (percent)	BLOW COUNT 6"-6"-6"	SOIL DESCRIPTION	C R	COMMENTS AND HNU READINGS
					SILTY SAND, fine to medium, slightly moist, brown (SM)	1	
1					SILTY SAND, fine, moist (SM)	1	HNU = background
2	2.0-2.7	S1		-	SIMILAR	1	
3					SIMILAR, grading to tan-grey color	1	HNU = background
4					SIMILAR, with minor rust mottling	1	
5	5.0-5.7	S2		-	SIMILAR, grading to: SILTY SAND, fine, brown (SM)	1	HNU = background
6					Bottom of hole at 6.0 feet		

SOIL BORING LOG

PROJECT NAME: PURITY OIL SALES
PROJECT NUMBER: W63320.FS

BORING NUMBER: ABP8
PAGE: 1

BORING LOCATION: CANAL BOTTOM
BORING ELEVATION: ~14' BELOW ADJACENT SITE
BORING TYPE: HAND AUGER
DRILL RIG: NA

DATE: 1-10-88
START TIME: 0950
COMPLETION: 1030
GROUNDWATER DEPTH & DATE: Not encountered

INSPECTOR: RICK QUINE
CONTRACTOR: NA
CLIENT: REGION IX EPA

DEPTH BELOW SURFACE (feet)	SAMPLE INTERVAL (feet)	SAMPLE NUMBER & TYPE	SAMPLE RECOVERY (percent)	BLOW COUNT 6"-6"-6"	SOIL DESCRIPTION	CR	COMMENTS AND HNU READINGS
					0-2.5': SILTY SAND, fine, moist, mottled grey and brown with slightly over-consolidated grey SILT (SM and ML)	1	THIS HOLE REPLACES SBP5 (Refer to Drg.2)
1							
2							
					2.5'-3.5': SAND, fine, wet, grey (SP)	1	
3							
4	4.0-4.7	S1		-	3.5'-4.0': SILTY SAND, fine (SM)	1	HNU = background (in hole)
5					SIMILAR, but becoming slightly clayey	1	
6							
7							HNU = background (in hole and on cuttings)
8	8.0-8.8	S2		-	SIMILAR, grading to: SILTY SAND, wet, tan (SM)	1	
9					Bottom of hole at 8.8 feet		
10							
11							
12							
13							
14							
15							

SOIL BORING LOG

PROJECT NAME: PURITY OIL SALES
PROJECT NUMBER: W63320.FS

BORING NUMBER: ABP9
PAGE: 1

BORING LOCATION: BRUNO'S, MIDDLE
DATE: 1-9-88
INSPECTOR: RICK QUINE

BORING ELEVATION:
START TIME: 1400
CONTRACTOR: NA

BORING TYPE: HAND AUGER
COMPLETION: 1450
CLIENT: REGION IX EPA

DRILL RIG: NA
GROUNDWATER DEPTH & DATE: Not encountered

DEPTH BELOW SURFACE (feet)	SAMPLE INTERVAL (feet)	SAMPLE NUMBER & TYPE	SAMPLE RECOVERY (percent)	BLOW COUNT 6"-6"-6"	SOIL DESCRIPTION	C R	COMMENTS AND HNU READINGS
					0-3': SILTY SAND, very fine, dry, brown (SM)	1	THIS HOLE REPLACES SBP3
1	1.0-1.8	S1		-	SIMILAR	1	HNU = background
2							
3					3'-5': SIMILAR, with some minor gray caliche, hard, dry	1	
4	4.0-4.8	S2		-	SIMILAR	1	HNU = background
5					SIMILAR, but with more caliche	1	
6					SILTY SAND, very fine (SM)	1	
7							
8	7.5-8.2	S3		-	SIMILAR	1	HNU = background
					Bottom of hole at 8.2 feet		
9							
10							
11							
12							
13							
14							
15							

SOIL BORING LOG

PROJECT NAME: PURITY OIL SALES
PROJECT NUMBER: W63320.FS

BORING NUMBER: ABP10
PAGE: 1

BORING LOCATION: LOT BEHIND STORE
DATE: 1-9-88
INSPECTOR: RICK QUINE

BORING ELEVATION:
START TIME: 1000
CONTRACTOR: NA

BORING TYPE: HAND AUGER
COMPLETION: 1200
CLIENT: REGION IX EPA

DRILL RIG: NA
GROUNDWATER DEPTH & DATE: Not encountered

DEPTH BELOW SURFACE (feet)	SAMPLE INTERVAL (feet)	SAMPLE NUMBER & TYPE	SAMPLE RECOVERY (percent)	BLOW COUNT 6"-6"-6"	SOIL DESCRIPTION	CR	COMMENTS AND HNU READINGS
					0-4": SANDY SILT, dry, tan, with a thin turf at the surface (shovel cut)	1	Auger hole located 45' north and 22' east of the intersection of the Purity site perimeter fence and the trailer court fence.
					4"-10": SANDY SILT, dry, tan	1	
	0.8-1.4	S1* S3*	2 liners 2 liners		10"-22": BLACK SLUDGE-like material, dry	5	*Side by side duplicates.
1							HNU = 17 ppm (in hole at 16")
	1.4-2.0	S2* S4*	2 liners 2 liners				*Side by side duplicates.
					SIMILAR, grading to at approximately 22"-24": Soil with BLACK blobs or mottles of WASTE	4	HNU = 35 ppm (in hole at 24")
2							
3	3.0-4.0	S5			SILTY SAND, dense, tan (SM)	2	
4					Bottom of hole at 4.0 feet		
5							

SOIL BORING LOG

PROJECT NAME: PURITY OIL SALES
PROJECT NUMBER: W63320.FS

BORING NUMBER: ABP1DA
PAGE: 1

BORING LOCATION: LOT BEHIND STORE
DATE: 1-9-88
INSPECTOR: RICK QUINE

BORING ELEVATION:
START TIME: 0900
CONTRACTOR: NA .

BORING TYPE: HAND AUGER
COMPLETION: 0930
CLIENT: REGION IX EPA

DRILL RIG: NA
GROUNDWATER DEPTH & DATE: Not encountered

DEPTH BELOW SURFACE (feet)	SAMPLE INTERVAL (feet)	SAMPLE NUMBER & TYPE	SAMPLE RECOVERY (percent)	BLOW COUNT 6"-6"-6"	SOIL DESCRIPTION	C R	COMMENTS AND HNU READINGS
					0-2": Turf		SUPPLEMENTAL BORING
					2"-12": SILTY SAND, very fine, dry, tan (SM)	1	Auger hole located 32'north and 22'east of the intersection of the Purity site perimeter fence and the trailer court fence.
1					12": SILTY SAND, fine, mixed with about 25% dry, BLACK PIT WASTE	4	
					SIMILAR		
					24": SIMILAR, with the soil changing to a red-brown, fine to medium SAND at ~24"	3	
2					Bottom of hole at 2.0 feet		
3							

SOIL BORING LOG

PROJECT NAME: PURITY OIL SALES
PROJECT NUMBER: W63320.FS

BORING NUMBER: ABP10B
PAGE: 1

BORING LOCATION: LOT BEHIND STORE
DATE: 1-9-88
INSPECTOR: RICK QUINE

BORING ELEVATION:
START TIME: 1000
CONTRACTOR: NA

BORING TYPE: HAND AUGER
COMPLETION: 1030
CLIENT: REGION IX EPA

DRILL RIG: NA
GROUNDWATER DEPTH & DATE: Not encountered

DEPTH BELOW SURFACE (feet)	SAMPLE INTERVAL (feet)	SAMPLE NUMBER & TYPE	SAMPLE RECOVERY (percent)	BLOW COUNT 6"-6"-6"	SOIL DESCRIPTION	CR	COMMENTS AND HNU READINGS
					0-12": SANDY SILT, dry, brown (ML)	1	SUPPLEMENTAL BORING
					6"-8": Layer of BLACK PIT WASTE *	5	Auger hole located 62' north and 22' east of the intersection of the Purity site perimeter fence and the trailer court fence.
					8"-16": SILTY SAND, dense, mottled tan and brown, with no obvious contamination (native) (SM)	1	* Appears to be pit overflow or edge of pit.
					Bottom of hole at 1.3 feet		

SOIL BORING LOG

PROJECT NAME: PURITY OIL SALES
PROJECT NUMBER: W63320.FS

BORING NUMBER: ABP10C
PAGE: 1

BORING LOCATION: LOT BEHIND STORE
DATE: 1-9-88
INSPECTOR: RICK QUINE

BORING ELEVATION:
START TIME: 1300
CONTRACTOR: NA

BORING TYPE: HAND AUGER
COMPLETION: 1330
CLIENT: REGION IX EPA

DRILL RIG: NA
GROUNDWATER DEPTH & DATE: Not encountered

DEPTH BELOW SURFACE (feet)	SAMPLE INTERVAL (feet)	SAMPLE NUMBER & TYPE	SAMPLE RECOVERY (percent)	BLOW COUNT 6"-6"-6"	SOIL DESCRIPTION	CR	COMMENTS AND HNU READINGS
					0-6": SANDY SILT, dry, brown (ML)	1	SUPPLEMENTAL BORING
					6"-16": WASTE PIT MATERIAL, dry, black	5	Auger hole located 58' north and 22' east of the intersection of the Purity site perimeter fence and the trailer court fence.
1							Boring on side of pit
					Bottom of hole at 1.3 feet		Hole ended in waste material
2							

SOIL BORING LOG

PROJECT NAME: PURITY OIL SALES
PROJECT NUMBER: W63320.FS

BORING NUMBER: ABP11
PAGE: 1

BORING LOCATION: SW CORNER, NEAR FARM AND CANAL
BORING ELEVATION:
BORING TYPE: HAND AUGER
DRILL RIG: NA

DATE: 1-8-88
START TIME: 1300
COMPLETION: 1400
GROUNDWATER DEPTH & DATE: Not encountered

INSPECTOR: RICK QUINE
CONTRACTOR: NA
CLIENT: REGION IX EPA

DEPTH BELOW SURFACE (feet)	SAMPLE INTERVAL (feet)	SAMPLE NUMBER & TYPE	SAMPLE RECOVERY (percent)	BLOW COUNT 6"-6"-6"	SOIL DESCRIPTION	C R	COMMENTS AND HNU READINGS
					SILTY SAND, fine, nearly dry, brown, with abundant roots in the top 4" (SM)	1	SUPPLEMENT TO SBP6 (Refer to Drg. 2)
1	1.0-2.0	S1		-	SIMILAR	1	
2							
3	3.0-4.0	S2		-	SIMILAR	1	
4					SAND, fine, reddish-brown (SP)	1	
5	5.0-6.0	S3		-	SIMILAR	1	
6					Bottom of hole at 6.0 feet		

SOIL BORING LOG

PROJECT NAME: PURITY OIL SALES
PROJECT NUMBER: W63320.FS

BORING NUMBER: ABP12
PAGE: 1

BORING LOCATION: BESIDE CONCRETE TANK
DATE: 1-8-88
INSPECTOR: RICK QUINE

BORING ELEVATION:
START TIME: 1400
CONTRACTOR: NA

BORING TYPE: HAND AUGER
COMPLETION: 1715
CLIENT: REGION IX EPA

DRILL RIG: NA
GROUNDWATER DEPTH & DATE: Not encountered

DEPTH BELOW SURFACE (feet)	SAMPLE INTERVAL (feet)	SAMPLE NUMBER & TYPE	SAMPLE RECOVERY (percent)	BLOW COUNT 6"-6"-6"	SOIL DESCRIPTION	C R	COMMENTS AND HNU READINGS
					0-1': Backhoe cut		Auger hole located 4' out from the middle east side of the concrete tank.
1					1'-3': Backhoe test pit backfill: SILTY SAND, fine, slightly moist, brown (SM)	1	
2							
3	3.0-4.0	S1		-	SILTY SAND, grey, strong odor, apparently contaminated (SM)	4	HNU = 14 ppm (in hole at 3') HNU = 5 ppm (cuttings)
4							
5					SIMILAR	4	
6	6.0-7.0	S2		-	SIMILAR	4	HNU = 25-30 ppm (in hole and on cuttings from 5'-6')
7							
8					SIMILAR	4	HNU = 25 ppm (in hole between 7'-8')
9							
10	9.5-10.5	S-3		-	SIMILAR	4	HNU = 6 ppm (liners)
					Bottom of hole at 10.5 feet		
11							
12							
13							
14							
15							

SOIL BORING LOG

PROJECT NAME: PURITY OIL SALES
PROJECT NUMBER: W63320.FS

BORING NUMBER: SBB1
PAGE: 1

BORING LOCATION: TRAILER SPACE #41
DATE: 1-6-88
INSPECTOR: L. KROOK

BORING ELEVATION:
START TIME: 0840
CONTRACTOR: CONTINENTAL DRILLING

BORING TYPE: HOLLOW STEM AUGER
COMPLETION: 1200
CLIENT: REGION IX EPA

DRILL RIG: MOBILE B-61
GROUNDWATER DEPTH & DATE: Not encountered

DEPTH BELOW SURFACE (feet)	SAMPLE INTERVAL (feet)	SAMPLE NUMBER & TYPE	SAMPLE RECOVERY (percent)	BLOW COUNT 6"-6"-6"	SOIL DESCRIPTION	C R	COMMENTS AND HNU READINGS
							HNU = 0.2 ppm (background)
1							
2					SILTY SAND, fine to medium, loose, moist, brown (SM) (from cuttings)	1	
3							
4							
5	5.0-6.5	01	100	10-10-9	SILTY SAND, fine to medium, loose, moist, brown and grey (SM); grading to a SANDY SILT and SILT with some fine sand, stiff, friable, moist, grey (ML)	1	HNU = 0.2 ppm (liners)
6							
7							
8							
9							
10	10.0-11.5	02	100	23-36-(57) 3"	SILTY SAND, fine to medium, medium dense with some cementation in thin layer, moist to wet, brown (SM)	1	HNU = 0.2 ppm (liners)
11							Possible zone of perched water above cemented sands.
12							Driller reports some auger chatter and harder sands before drilling through to softer material.
13							
14							
15	15.0-16.5	03					

SOIL BORING LOG

PROJECT NAME: PURITY OIL SALES
PROJECT NUMBER: W63320.FS

BORING NUMBER: SBB1
PAGE: 2

BORING LOCATION: TRAILER SPACE #41
DATE: 1-6-88
INSPECTOR: L. KROOK

BORING ELEVATION:
START TIME: 0840
CONTRACTOR: CONTINENTAL DRILLING

BORING TYPE: HOLLOW STEM AUGER
COMPLETION: 1200
CLIENT: REGION IX EPA

DRILL RIG: MOBILE B-61
GROUNDWATER DEPTH & DATE: Not encountered

DEPTH BELOW SURFACE (feet)	SAMPLE INTERVAL (feet)	SAMPLE NUMBER & TYPE	SAMPLE RECOVERY (percent)	BLOW COUNT 6"-6"-6"	SOIL DESCRIPTION	C R	COMMENTS AND HNU READINGS
16	15.0-16.5	03	100	18-17-15	SILTY SAND, fine to medium, moderately cemented, moist, brown (SM); grading to SANDY SILT, firm to hard, fine sand, moist, olive-green with some rust mottling (ML)	1	HNU = 0.2 ppm (background) HNU = 0.2 ppm (liners)
17							
18							
19							
20	20.0-21.5	04	100	12-16-15	SILTY SAND, fine, medium dense to dense, moist, olive-green with some rust mottling (SM)	1	HNU = 0.2 ppm (liners)
21							
22							
23							
24							
25	25.0-26.5	05	100	14-17-20	SANDY SILT, firm, fine sand, wet, olive-green with some rust mottling (ML); grading to SILTY SAND, medium, loose, wet, olive-green (SM)	1	HNU = 0.2 ppm (liners)
26							
27							
28							
29							
30	30.0-31.5	06					

SOIL BORING LOG

PROJECT NAME: PURITY OIL SALES
PROJECT NUMBER: W63320.FS

BORING NUMBER: SBB1
PAGE: 3

BORING LOCATION: TRAILER SPACE #41
DATE: 1-6-88
INSPECTOR: L. KROOK

BORING ELEVATION:
START TIME: 0840
CONTRACTOR: CONTINENTAL DRILLING

BORING TYPE: HOLLOW STEM AUGER
COMPLETION: 1200
CLIENT: REGION IX EPA

DRILL RIG: MOBILE B-61
GROUNDWATER DEPTH & DATE: Not encountered

DEPTH BELOW SURFACE (feet)	SAMPLE INTERVAL (feet)	SAMPLE NUMBER & TYPE	SAMPLE RECOVERY (percent)	BLOW COUNT 6"-6"-6"	SOIL DESCRIPTION	C R	COMMENTS AND HNU READINGS
31	30.0-31.5	06	100	13-16-21	SAND, fine to medium, with few or no fines, loose, moist, 'salt and pepper' coloring (SP)	1	HNU = 0.2 ppm (background) HNU = 0.2 ppm (liners)
32							
33							
34							
35	35.0-36.5	07	100	33-51-38	SILTY SAND, fine to medium, olive-green with brown mottling, grading browner and less dense with depth (SM)	1	HNU = 0.2 ppm (liners)
36							
37							
38							
39							
40	40.0-41.5	08	100	24-27-27	SILTY SAND, fine, loose, moist, brown (SM)	1	HNU = 0.2 ppm (liners)
41							
42					End of boring at 41.5 feet		
43							
44							
45							

SOIL BORING LOG

PROJECT NAME: PURITY OIL SALES
PROJECT NUMBER: W63320.FS

BORING NUMBER: SBB2
PAGE: 1

BORING LOCATION: Bob Rhodes farm
DATE: 1-10-88
INSPECTOR: L. KROOK

BORING ELEVATION:
START TIME: 1355
CONTRACTOR: CONTINENTAL DRILLING

BORING TYPE: HOLLOW STEM AUGER
COMPLETION: 1615
CLIENT: REGION IX EPA

DRILL RIG: MOBILE B-61
GROUNDWATER DEPTH & DATE: Not encountered

DEPTH BELOW SURFACE (feet)	SAMPLE INTERVAL (feet)	SAMPLE NUMBER & TYPE	SAMPLE RECOVERY (percent)	BLOW COUNT 6"-6"-6"	SOIL DESCRIPTION	C R	COMMENTS AND HNU READINGS
							HNU = 0.4 ppm (background)
1							
2							
3					SILTY SAND, moist, brown (SM) (from cuttings)	1	
4							
5	5.0-6.5	01	100	6-9-8	SILTY SAND, fine to medium, medium dense, moist, brown (SM)	1	HNU = 0.4 ppm (liners)
6							
7							
8							
9							
10	10.0-11.5	02	100	9-17-12	SILTY SAND, fine to medium, loose to dense, moist, olive-green with some rust mottling, with some pockets of SILT with fine sand, moist, grey (SM)	1	HNU = 0.4 ppm (liners)
11							
12							
13							
14							
15	15.0-16.5	03					

SOIL BORING LOG

PROJECT NAME: PURITY OIL SALES
PROJECT NUMBER: W63320.FS

BORING NUMBER: SB82
PAGE: 2

BORING LOCATION: Bob Rhodes farm
DATE: 1-10-88
INSPECTOR: L. KROOK

BORING ELEVATION:
START TIME: 1355
CONTRACTOR: CONTINENTAL DRILLING

BORING TYPE: HOLLOW STEM AUGER
COMPLETION: 1615
CLIENT: REGION IX EPA

DRILL RIG: MOBILE B-61
GROUNDWATER DEPTH & DATE: Not encountered

DEPTH BELOW SURFACE (feet)	SAMPLE INTERVAL (feet)	SAMPLE NUMBER & TYPE	SAMPLE RECOVERY (percent)	BLOW COUNT 6"-6"-6"	SOIL DESCRIPTION	CR	COMMENTS AND HNU READINGS
	15.0-16.5	03	100	12-28-27	SILTY SAND, fine, loose, moist, olive-green with rust mottling; interbedded with SILT, hard, dense, moist, olive-green with rust spotting (SM and ML)	1	HNU = 0.4 ppm (background) HNU = 0.4 ppm (liners)
16							
17							
18							
19							
20	20.0-21.5	04	100	15-31-35	SILTY SAND, fine, dense, moist, with some small areas of cementation, olive-green with some rust mottling (SM)	1	HNU = 0.4 ppm (liners)
21							
22							
23							
24							
25	25.0-26.5	05	100	9-17-21	SILTY SAND, fine to medium, dense, moist, olive-green (SM); grading to SAND with few fines, fine to medium, loose, moist, olive-green (SP)	1	HNU = 0.4 ppm (liners)
26							
27							
28							
29							
30	30.0-31.5	06					

SOIL BORING LOG

PROJECT NAME: PURITY OIL SALES
PROJECT NUMBER: W63320.FS

BORING NUMBER: SBB2
PAGE: 3

BORING LOCATION: Bob Rhodes farm
DATE: 1-10-88
INSPECTOR: L. KROOK

BORING ELEVATION:
START TIME: 1355
CONTRACTOR: CONTINENTAL DRILLING

BORING TYPE: HOLLOW STEM AUGER
COMPLETION: 1615
CLIENT: REGION IX EPA

DRILL RIG: MOBILE B-61
GROUNDWATER DEPTH & DATE: Not encountered

DEPTH BELOW SURFACE (feet)	SAMPLE INTERVAL (feet)	SAMPLE NUMBER & TYPE	SAMPLE RECOVERY (percent)	BLOW COUNT 6"-6"-6"	SOIL DESCRIPTION	C R	COMMENTS AND HNU READINGS
	30.0-31.5	06	100	13-19-19	SAND, fine to medium, with few or no fines, loose, moist, light olive-green (SP)	1	HNU = 0.4 ppm (background) HNU = 0.4 ppm (liners)
31							
32							
33							
34							
35	35.0-36.5	07	100	12-19-23	SAND, fine to medium, with few or no fines, loose, moist, 'salt and pepper' coloring, grading darker black with depth (SP)	1	HNU = 0.4 ppm (liners)
36							
37							
38							
39							
40	40.0-41.5	08	100	10-13-19	SANDY SILT, soft to firm, wet, olive-green (ML); grading to SILTY SAND, fine to medium, loose to medium dense, wet, brown (SM)	1	HNU = 0.4 ppm (liners)
41							
					End of boring at 41.5 feet		
42							
43							
44							
45							

SOIL BORING LOG

PROJECT NAME: PURITY OIL SALES
PROJECT NUMBER: W63320.FS

BORING NUMBER: SBB3
PAGE: 1

BORING LOCATION: FIELD W. OF R.R. TRACKS
DATE: 1-10-88
INSPECTOR: L. KROOK

BORING ELEVATION:
START TIME: 1010
CONTRACTOR: CONTINENTAL DRILLING

BORING TYPE: HOLLOW STEM AUGER
COMPLETION: 1210
CLIENT: REGION IX EPA

DRILL RIG: MOBILE B-61
GROUNDWATER DEPTH & DATE: Not encountered

DEPTH BELOW SURFACE (feet)	SAMPLE INTERVAL (feet)	SAMPLE NUMBER & TYPE	SAMPLE RECOVERY (percent)	BLOW COUNT 6"-6"-6"	SOIL DESCRIPTION	C R	COMMENTS AND HNU READINGS
							HNU = 0.4 ppm (background)
1							
2					SANDY SILT, fine sand, loose, dry to moist, light and dark brown (ML) (from cuttings)	1	
3							
4							
5	5.0-6.5	01	100	7-14-12	SILTY SAND, fine, medium dense, moist, light brown (SM)	1	HNU = 0.4 ppm (liners)
6							
7							
8							
9							
10	10.0-11.5	02	100	4-4-6	SAND, fine, with few fines, moist, light brown (SP-SM)	1	HNU = 0.4 ppm (liners)
11							
12							
13							
14							
15	15.0-16.5	03					

SOIL BORING LOG

PROJECT NAME: PURITY OIL SALES
PROJECT NUMBER: W63320.FS

BORING NUMBER: SBB3
PAGE: 2

BORING LOCATION: FIELD W. OF R.R. TRACKS
DATE: 1-10-88
INSPECTOR: L. KROOK

BORING ELEVATION:
START TIME: 1010
CONTRACTOR: CONTINENTAL DRILLING

BORING TYPE: HOLLOW STEM AUGER
COMPLETION: 1210
CLIENT: REGION IX EPA

DRILL RIG: MOBILE B-61
GROUNDWATER DEPTH & DATE: Not encountered

DEPTH BELOW SURFACE (feet)	SAMPLE INTERVAL (feet)	SAMPLE NUMBER & TYPE	SAMPLE RECOVERY (percent)	BLOW COUNT 6"-6"-6"	SOIL DESCRIPTION	CR	COMMENTS AND HNU READINGS
	15.0-16.5	03	100	12-25-30	SILTY SAND, fine to medium, dense, moist, olive-green to brown (SM)	1	HNU = 0.4 ppm (background) HNU = 0.4 ppm (liners)
16							
17							
18							
19							
20	20.0-21.5	04	100	14-17-20	SAND, fine to medium, with few or no fines, loose to medium dense, moist, light brown (SP)	1	HNU = 0.4 ppm (liners)
21							
22							
23							
24							
25	25.0-26.5	05	100	12-13-20	SAND, fine to medium, with few or no fines, loose, moist, light olive-green to brown (SP)	1	HNU = 0.4 ppm (liners)
26							
27							
28							
29							
30	30.0-31.5	06					

SOIL BORING LOG

PROJECT NAME: PURITY OIL SALES
PROJECT NUMBER: W63320.FS

BORING NUMBER: SBB3
PAGE: 3

BORING LOCATION: FIELD W. OF R.R. TRACKS
DATE: 1-10-88
INSPECTOR: L. KROOK

BORING ELEVATION:
START TIME: 1010
CONTRACTOR: CONTINENTAL DRILLING

BORING TYPE: HOLLOW STEM AUGER
COMPLETION: 1210
CLIENT: REGION IX EPA

DRILL RIG: MOBILE B-61
GROUNDWATER DEPTH & DATE: Not encountered

DEPTH BELOW SURFACE (feet)	SAMPLE INTERVAL (feet)	SAMPLE NUMBER & TYPE	SAMPLE RECOVERY (percent)	BLOW COUNT 6"-6"-6"	SOIL DESCRIPTION	C R	COMMENTS AND HNU READINGS
	30.0-31.5	06	100	20-20-19	SILTY SAND, fine to medium, dense, moist, olive-green (SM)	1	HNU = 0.4 ppm (background) HNU = 0.4 ppm (liners)
31							
32							
33							
34							
35	35.0-36.5	07	100	27-32-30	SILTY SAND, fine, dense, moist, olive-green (SM)	1	HNU = 0.4 ppm (liners)
36							
37							
38							
39							
40	40.0-41.5	08	100	7-13-16	SILTY SAND, fine, loose to medium dense, wet, olive-green (SM)	1	HNU = 0.4 ppm (liners)
41							
					End of boring at 41.5 feet		
42							
43							
44							
45							

SOIL BORING LOG

PROJECT NAME: PURITY OIL SALES
PROJECT NUMBER: W63320.FS

BORING NUMBER: SBP1
PAGE: 1

BORING LOCATION: LOT BEHIND STORE
DATE: 1-4-88
INSPECTOR: D. GREENWAY/L. KROOK

BORING ELEVATION:
START TIME: 1145
CONTRACTOR: CONTINENTAL DRILLING

BORING TYPE: HOLLOW STEM AUGER
COMPLETION: 0800, 1-5-88
CLIENT: REGION IX EPA

DRILL RIG: MOBILE B-61
GROUNDWATER DEPTH & DATE: Not encountered

DEPTH BELOW SURFACE (feet)	SAMPLE INTERVAL (feet)	SAMPLE NUMBER & TYPE	SAMPLE RECOVERY (percent)	BLOW COUNT 6"-6"-6"	SOIL DESCRIPTION	C R	COMMENTS AND HNU READINGS
1	0.0-1.5	01	95	3-7-9	SILT, dry, tan, mixed with BLACK TAR-like material (ML)	1/5	HNU = 0.9 ppm (background) HNU = 0.9 ppm (liners)
2	1.5-3.0	02	50	6-8-14	SILT, dry, tan, mixed with BLACK TAR-like material (ML)	1/5	Raining
3 4	3.0-4.5	03	20	6-9-11	SILT, dry, tan, with a BLACK TAR-like material; grading to a SILT, brown, moist, stained(?) (ML)	1/5 3	
5 6							
7 8	7.0-8.5	04	40	8-12-12	SILT, moist, mottled grey (ML)	4	HNU = 2.5 ppm (liners)
9							
10 11	10.0-11.5	05	100	4-9-21	SIMILAR, grading to a SILTY SAND, grey-black (SM)	4	HNU = 15 ppm (liners)
12 13 14							
15	15.0-16.5	06					

SOIL BORING LOG

PROJECT NAME: PURITY OIL SALES
PROJECT NUMBER: W63320.FS

BORING NUMBER: SBP1
PAGE: 2

BORING LOCATION: LOT BEHIND STORE
DATE: 1-4-88
INSPECTOR: D. GREENWAY/L. KROOK

BORING ELEVATION:
START TIME: 1145
CONTRACTOR: CONTINENTAL DRILLING

BORING TYPE: HOLLOW STEM AUGER
COMPLETION: 0800, 1-5-88
CLIENT: REGION IX EPA

DRILL RIG: MOBILE B-61
GROUNDWATER DEPTH & DATE: Not encountered

DEPTH BELOW SURFACE (feet)	SAMPLE INTERVAL (feet)	SAMPLE NUMBER & TYPE	SAMPLE RECOVERY (percent)	BLOW COUNT 6"-6"-6"	SOIL DESCRIPTION	C R	COMMENTS AND HNU READINGS
	15.0-16.5	06	100	13-16-24	SILTY SAND, moist, grey (SM)	4	HNU = 0.9 ppm (background) HNU = 3 ppm (liners)
16							
17							
18							Raining
19							
20	20.0-21.5	07	100	8-18-37	SAND, medium, with few fines, 'salt and pepper' coloring (SP); grading siltier and darker with depth; further grading to a SAND, with some silt fines, dark black (SP-SM); becoming a SILT, friable, moist, olive-green (ML)	4	HNU = 40 ppm (liners)
21						4 3	
22							
23							
24							
25	25.0-26.5	08	100	7-15-39	SAND, medium, loose, moist, 'salt and pepper' coloring, with few or no fines; grading into a SAND with some silt; becoming a SILT, friable, moist, grey (SP-SM) to (ML)	2	HNU = 9 ppm (liners)
26							
27							
28							
29							
30	30.0-31.5	09					

SOIL BORING LOG

PROJECT NAME: PURITY OIL SALES
PROJECT NUMBER: W63320.FS

BORING NUMBER: SBP1
PAGE: 3

BORING LOCATION: LOT BEHIND STORE
DATE: 1-4-88
INSPECTOR: D. GREENWAY/L. KROOK

BORING ELEVATION:
START TIME: 1145
CONTRACTOR: CONTINENTAL DRILLING

BORING TYPE: HOLLOW STEM AUGER
COMPLETION: 0800, 1-5-88
CLIENT: REGION IX EPA

DRILL RIG: MOBILE B-61
GROUNDWATER DEPTH & DATE: Not encountered

DEPTH BELOW SURFACE (feet)	SAMPLE INTERVAL (feet)	SAMPLE NUMBER & TYPE	SAMPLE RECOVERY (percent)	BLOW COUNT 6"-6"-6"	SOIL DESCRIPTION	C R	COMMENTS AND HNU READINGS
	30.0-31.5	09	100	9-13-18	SAND, medium, loose, with few or no fines, moist, 'salt and pepper' coloring, grading to a finer sand with depth (SP)	2	HNU = 0.9 ppm (background)
31							
32							Raining
33							
34							
35	35.0-36.5	10	100	15-17-22	SILTY SAND, medium, medium dense, moist, olive-green (SM)	2	End day 1-4-88
36							
37							
38							
39							
40	40.0-41.5	11	100	12-18-49	SILTY SAND, medium, medium dense, olive-green, saturated* (SM)	2	*Auger left in ground overnight during rainstorm--saturation probably due to water from surface running down auger flights.
41							
					End of boring at 41.5 feet		
42							
43							
44							
45							

SOIL BORING LOG

PROJECT NAME: PURITY OIL SALES
PROJECT NUMBER: W63320.FS

BORING NUMBER: SBP2
PAGE: 1

BORING LOCATION: TRAILER SPACE #13
DATE: 1-5-88
INSPECTOR: L. KROOK

BORING ELEVATION:
START TIME: 1000
CONTRACTOR: CONTINENTAL DRILLING

BORING TYPE: HOLLOW STEM AUGER
COMPLETION: 1530
CLIENT: REGION IX EPA

DRILL RIG: MOBILE 8-61
GROUNDWATER DEPTH & DATE: Not encountered

DEPTH BELOW SURFACE (feet)	SAMPLE INTERVAL (feet)	SAMPLE NUMBER & TYPE	SAMPLE RECOVERY (percent)	BLOW COUNT 6"-6"-6"	SOIL DESCRIPTION	CR	COMMENTS AND HNU READINGS
							HNU = 0.8 ppm (background)
1							
2	1.5-3.0	01	95	3-4-4	SILTY SAND, fine to medium, with some roots, loose, wet, brown (SM)	1	HNU = 0.8 ppm (liners)
3	3.0-4.5	02	100	8-10-22	SILTY SAND, fine, loose to dense, moist, grey-brown (SM); grading to SILT with some fine sand, hard, friable, moist, grey with some brown streaks (ML)	1	HNU = 0.8 ppm (liners)
4							
5	5.0-6.5	03	100	22-30-28	SANDY SILT grading to SILT with some fine sand, loose to medium dense, friable, moist, grading brown to grey with some brown-red mottling (ML)	1	HNU = 0.8 ppm (liners)
6							
7							
8	7.5-9.0	04	100	10-20-31	SANDY SILT and SILT with some fine sand, medium dense, friable, moist, olive-grey (ML)	1	HNU = 0.8 ppm (liners)
9							
10	10.0-11.5	05	100	25-20-22	SILT with some fine sand, medium dense, moist to wet, olive-grey with some brown mottling (ML)	1	HNU = 0.8 ppm (liners)
11							
12							
13							
14							
15	15.0-16.5	06					

SOIL BORING LOG

PROJECT NAME: PURITY OIL SALES
PROJECT NUMBER: W63320.FS

BORING NUMBER: SBP2
PAGE: 2

BORING LOCATION: TRAILER SPACE #13
DATE: 1-5-88
INSPECTOR: L. KROOK

BORING ELEVATION:
START TIME: 1000
CONTRACTOR: CONTINENTAL DRILLING

BORING TYPE: HOLLOW STEM AUGER
COMPLETION: 1530
CLIENT: REGION IX EPA

DRILL RIG: MOBILE B-61
GROUNDWATER DEPTH & DATE: Not encountered

DEPTH BELOW SURFACE (feet)	SAMPLE INTERVAL (feet)	SAMPLE NUMBER & TYPE	SAMPLE RECOVERY (percent)	BLOW COUNT 6"-6"-6"	SOIL DESCRIPTION	C R	COMMENTS AND HNU READINGS
	15.0-16.5	06	100	10-13-14	SILTY SAND, medium, loose to medium dense, olive-grey with some white mottling (ML)	2	HNU = 0.8 ppm (background) HNU = 17 ppm (liners)
16							
17							
18							
19							
20	20.0-21.5	07	100	22-33-37	SILTY SAND, loose to medium dense, moist, grey (SM); grading to SANDY SILT and SILT with some fine sand, medium dense, moist, olive-green (ML)	2	HNU = 0.8 ppm (liners)
21							
22							
23							
24							
25	25.0-26.5	08	100	25-57-66	SAND, medium, with few or no fines, loose, moist, 'salt and pepper' coloring (SP); grading to SILT with some fine sand, medium dense, wet to saturated (ML)	2	HNU = 2.5 ppm (liners)
26							
27							
28							
29							
30	30.0-31.5	09					

SOIL BORING LOG

PROJECT NAME: PURITY OIL SALES
PROJECT NUMBER: W63320.FS

BORING NUMBER: SBP2
PAGE: 3

BORING LOCATION: TRAILER SPACE #13
DATE: 1-5-88
INSPECTOR: L. KROOK

BORING ELEVATION:
START TIME: 1000
CONTRACTOR: CONTINENTAL DRILLING

BORING TYPE: HOLLOW STEM AUGER
COMPLETION: 1530
CLIENT: REGION IX EPA

DRILL RIG: MOBILE B-61
GROUNDWATER DEPTH & DATE: Not encountered

DEPTH BELOW SURFACE (feet)	SAMPLE INTERVAL (feet)	SAMPLE NUMBER & TYPE	SAMPLE RECOVERY (percent)	BLOW COUNT 6"-6"-6"	SOIL DESCRIPTION	C R	COMMENTS AND HNU READINGS
	30.0-31.5	09	100	13-15-18	SAND, medium, with few or no fines, loose, moist, 'salt and pepper' coloring (SP)	2	HNU = 0.8 ppm (background) HNU = 2 ppm (liners)
31							
32							
33							
34							
35	35.5-36.5	10	100	13-15-19	SILT with some fine sand, medium dense, moist, olive-green; grading to SANDY SILT, medium dense, moist, olive-green (ML)	1	HNU = 0.8 ppm (background) HNU = 0.8 ppm (liners)
36							
37							
38							
39					End of boring at 39.0 feet		
40							
41							
42							
43							
44							
45							

SOIL BORING LOG

PROJECT NAME: PURITY OIL SALES
PROJECT NUMBER: W63320.FS

BORING NUMBER: SBP3
PAGE: 1

BORING LOCATION: NEAR RR TRACK
BORING ELEVATION: 89.84 FT
BORING TYPE: HOLLOW STEM AUGER
DRILL RIG: MOBILE B-61

DATE: 3-4-88
START TIME: 1430
COMPLETION: 1800
GROUNDWATER DEPTH & DATE: Not encountered

INSPECTOR: P. LANE/R. QUINE
CONTRACTOR: CONTINENTAL DRILLING
CLIENT: REGION IX EPA

DEPTH BELOW SURFACE (feet)	SAMPLE INTERVAL (feet)	SAMPLE NUMBER & TYPE	SAMPLE RECOVERY (percent)	BLOW COUNT 6"-6"-6"	SOIL DESCRIPTION	C R	COMMENTS AND HNU READINGS
					SILTY SAND, fine to medium, moist, brown (SM) (cuttings)		HNU = 0.0 ppm (all baggie samples)
1							
2							
3							
4							
5							
6							
7							
8	8.0-9.5	01		6-7-9	SILTY SAND, fine, medium dense, dry to moist, light brown (SM)	1	
9							
10							
11							
12							
13	12.5-14.0	02		11-17-50 (3")	SIMILAR, grading to a hard SILT or CLAYEY SILT, slightly moist, grey (SM) to (ML) or (CL/ML)	1	
14							
15							

SOIL BORING LOG

PROJECT NAME: PURITY OIL SALES
PROJECT NUMBER: W63320.FS

BORING NUMBER: SBP3
PAGE: 2

BORING LOCATION: NEAR RR TRACK
DATE: 3-4-88
INSPECTOR: P. LANE/R. DUINE

BORING ELEVATION: 89.84 FT
START TIME: 1430
CONTRACTOR: CONTINENTAL DRILLING

BORING TYPE: HOLLOW STEM AUGER
COMPLETION: 1800
CLIENT: REGION IX EPA

DRILL RIG: MOBILE B-61
GROUNDWATER DEPTH & DATE: Not encountered

DEPTH BELOW SURFACE (feet)	SAMPLE INTERVAL (feet)	SAMPLE NUMBER & TYPE	SAMPLE RECOVERY (percent)	BLOW COUNT 6"-6"-6"	SOIL DESCRIPTION	C R	COMMENTS AND HNU READINGS
16					SILT, moist, grey-brown; becoming SAND, rust-brown; becoming stiffer material again at 17 feet (from cuttings)		
17							
18	17.5-19.0	03		22-38-46	SIMILAR, changing to a SAND, weakly cemented, fine to coarse, with some gravel, at 18 feet (SW)	1	
19							
20							
21							
22							
23	22.5-24.0	04		12-19-24	SAND, fine to medium, grey (SW)	1	
24							
25							
26							
27							
28	27.5-29.0	05		13-25-25	SIMILAR		
29							
30							

SOIL BORING LOG

PROJECT NAME: PURITY OIL SALES
PROJECT NUMBER: W63320.FS

BORING NUMBER: SBP3
PAGE: 3

BORING LOCATION: NEAR RR TRACK
DATE: 3-4-88
INSPECTOR: P. LANE/R. QUINE

BORING ELEVATION: 89.84 FT
START TIME: 1430
CONTRACTOR: CONTINENTAL DRILLING

BORING TYPE: HOLLOW STEM AUGER
COMPLETION: 1800
CLIENT: REGION IX EPA

DRILL RIG: MOBILE B-61
GROUNDWATER DEPTH & DATE: Not encountered

DEPTH BELOW SURFACE (feet)	SAMPLE INTERVAL (feet)	SAMPLE NUMBER & TYPE	SAMPLE RECOVERY (percent)	BLOW COUNT 6"-6"-6"	SOIL DESCRIPTION	C R	COMMENTS AND HNU READINGS
31							
32							
33	32.5-34.0	06		13-20-22	SIMILAR		
34					End of boring at 34.0 feet		
35							
36							
37							
38							
39							
40							
41							
42							
43							
44							
45							

SOIL BORING LOG

PROJECT NAME: PURITY OIL SALES
PROJECT NUMBER: W63320.FS

BORING NUMBER: SBP4
PAGE: 1

BORING LOCATION: BRUNO'S
DATE: 3-3-88
INSPECTOR: P. LANE

BORING ELEVATION:
START TIME: 1300
CONTRACTOR: CONTINENTAL DRILLING

BORING TYPE: HOLLOW STEM AUGER
COMPLETION: 0825, 3-4-88
CLIENT: REGION IX EPA

DRILL RIG: MOBILE B-61
Not encountered

DEPTH BELOW SURFACE (feet)	SAMPLE INTERVAL (feet)	SAMPLE NUMBER & TYPE	SAMPLE RECOVERY (percent)	BLOW COUNT 6"-6"-6"	SOIL DESCRIPTION	C R	COMMENTS AND HNU READINGS
					SILTY SAND, fine, loose, slightly moist, grey-brown (SM)		HNU = 0.0 ppm (all baggie samples
1							
2							
3	2.5-4.0	01	83	10-20-16	SILTY SAND, fine, loose, moist, light brown (SM)	1	
4							
5							
6							
7							
8	7.5-9.0	02	93	6-8-11	SIMILAR, with slightly more silt	1	
9							
10							
11							
12							
13		03	15	10 - 40 (3") (0")	SAND, fine, slightly silty, dense, moist, light brown (SP)	1	Driller reports penetration of hard layer after ~1 ft
14	13.5-15.0	04	87	23-37-27	SAND, fine, slightly silty, dense, moist, light brown (SP)	1	
15							

SOIL BORING LOG

PROJECT NAME: PURITY OIL SALES
PROJECT NUMBER: W63320.FS

BORING NUMBER: SBP4
PAGE: 2

BORING LOCATION: BRUNO'S
DATE: 3-3-88
INSPECTOR: P. LANE

BORING ELEVATION:
START TIME: 1300
CONTRACTOR: CONTINENTAL DRILLING

BORING TYPE: HOLLOW STEM AUGER
COMPLETION: 0825, 3-4-88
CLIENT: REGION IX EPA

DRILL RIG: MOBILE B-61
Not encountered

DEPTH BELOW SURFACE (feet)	SAMPLE INTERVAL (feet)	SAMPLE NUMBER & TYPE	SAMPLE RECOVERY (percent)	BLOW COUNT 6"-6"-6"	SOIL DESCRIPTION	C R	COMMENTS AND HNU READINGS
16							
	16.5-18.0	05	95	6-9-12	SAND, fine, very slightly silty, medium dense, moist, brown (SP)	1	
17							
18							
19							
20							
21							
	21.5-23.0	06	95	12-28-37	SIMILAR, grading to SAND, fine to medium, medium dense, moist "salt and pepper" coloring (SP)	1	
22							End of drilling 1650, 3-3-88
23							
24							
25							
26							
27							
28							
29							
30							

SOIL BORING LOG

PROJECT NAME: PURITY OIL SALES
PROJECT NUMBER: W63320.FS

BORING NUMBER: SBP4
PAGE: 3

BORING LOCATION: BRUNO'S
DATE: 3-3-88
INSPECTOR: P. LANE

BORING ELEVATION:
START TIME: 1300
CONTRACTOR: CONTINENTAL DRILLING

BORING TYPE: HOLLOW STEM AUGER
COMPLETION: 0825, 3-4-88
CLIENT: REGION IX EPA

DRILL RIG: MOBILE B-61
Not encountered

DEPTH BELOW SURFACE (feet)	SAMPLE INTERVAL (feet)	SAMPLE NUMBER & TYPE	SAMPLE RECOVERY (percent)	BLOW COUNT 6"-6"-6"	SOIL DESCRIPTION	C R	COMMENTS AND HNU READINGS
31							
32	31.5-33.0	07	95	14-22-18	SAND, fine, dense, moist, "salt and pepper" coloring (SP)	1	
33							
34							
35							
36							
37	36.5-38.0	08	90	13-21-29	SAND, fine to medium, dense, moist, "salt and pepper", with some brown coloring (SP)	1	
38					End of boring at 38.0 feet		
39							
40							
41							
42							
43							
44							
45							

SOIL BORING LOG

PROJECT NAME: PURITY OIL SALES
PROJECT NUMBER: W63320.FS

BORING NUMBER: SBP6
PAGE: 1

BORING LOCATION: ONSITE
DATE: 12-17-87
INSPECTOR: DARYL GREENWAY

BORING ELEVATION:
START TIME: 0800
CONTRACTOR: CONTINENTAL DRILLING

BORING TYPE: HOLLOW STEM AUGER
COMPLETION: 1515
CLIENT: REGION IX EPA

DRILL RIG: MOBILE B-61
GROUNDWATER DEPTH & DATE: Not Encountered

DEPTH BELOW SURFACE (feet)	SAMPLE INTERVAL (feet)	SAMPLE NUMBER & TYPE	SAMPLE RECOVERY (percent)	BLOW COUNT 6"-6"-6"	SOIL DESCRIPTION	C R	COMMENTS AND HNU READINGS
1					SILTY SAND, brown, mixed with solid lumps of BLACK TAR-like material	5	HNU = 0.2 ppm (background)
2	2.0-3.5	01	90	2-3-5	Brown SAND mixed with a BLACK TAR-like material with some wooden debris; grades to entirely BLACK TAR-like material at ~3'	5	HNU = 4 ppm (liners)
3							
4	3.5-5.0	02	60	5-7-6	BLACK TAR-like material; grades to a BLACK-SAND with some tar-like material at ~4 ft	5/4	HNU = 1.5 ppm(liners)
5	5.0-7.5	03	100	4-4-5	BLACK TARRY SAND with some gravel; grading to a moist, grey-green SAND at ~5.5 ft (SP)	4	HNU = 2.5 ppm(liners)
6							
7							
8							
9	8.5-10.0	04	60	10-11-16	Greenish SAND with BLACK TAR-like material grading to a grey-green SAND at ~9 ft (SP)	4	HNU = 2.5 ppm(liners)
10	10.0-11.5	05	100	33-55-53	Green, moist, cemented SAND and SILTY SAND with some red and black streaks; grading to a green SILT with black mottling at ~11 ft (SP/SM grading to ML)	4	HNU = 1 ppm (liners)
11							
12							
13							
14							
15	15.0-16.5	06					

SOIL BORING LOG

PROJECT NAME: PURITY OIL SALES
PROJECT NUMBER: W63320.FS

BORING NUMBER: SBP6
PAGE: 2

BORING LOCATION: ONSITE
DATE: 12-17-87
INSPECTOR: DARYL GREENWAY

BORING ELEVATION:
START TIME: 0800
CONTRACTOR: CONTINENTAL DRILLING

BORING TYPE: HOLLOW STEM AUGER
COMPLETION: 1515
CLIENT: REGION IX EPA

DRILL RIG: MOBILE B-61
GROUNDWATER DEPTH & DATE: Not Encountered

DEPTH BELOW SURFACE (feet)	SAMPLE INTERVAL (feet)	SAMPLE NUMBER & TYPE	SAMPLE RECOVERY (percent)	BLOW COUNT 6"-6"-6"	SOIL DESCRIPTION	CR	COMMENTS AND HNU READINGS
	15.0-16.5	06	100	20-26-25	Grey-brown SILTY SAND and blue-grey mottled SILT (SM/ML); grading to a brown, moist, SILTY SAND at ~15.3 ft (SM)	4	HNU = 35 ppm(liners) HNU = 0.2 ppm (background)
16							
17							
18							
19							
20	20.0-21.5	07	100	10-14-16	Poorly graded brown SAND with some silt, loose, moist (SP-SM)	2	HNU fogged up
21							
22							
23							
24							
25	25.0-26.5	08	100	13-21-26	Fine to medium SAND, few or no fines, uniform, whitish-grey, moist to wet (SP)	2	
26							
27							
28							
29							
30	30.0-31.5	09					

SOIL BORING LOG

PROJECT NAME: PURITY OIL SALES
PROJECT NUMBER: W63320.FS

BORING NUMBER: SBP6
PAGE: 3

BORING LOCATION: ONSITE
DATE: 12-17-87
INSPECTOR: DARYL GREENWAY

BORING ELEVATION:
START TIME: 0800
CONTRACTOR: CONTINENTAL DRILLING

BORING TYPE: HOLLOW STEM AUGER
COMPLETION: 1515
CLIENT: REGION IX EPA

DRILL RIG: MOBILE B-61
GROUNDWATER DEPTH & DATE: Not Encountered

DEPTH BELOW SURFACE (feet)	SAMPLE INTERVAL (feet)	SAMPLE NUMBER & TYPE	SAMPLE RECOVERY (percent)	BLOW COUNT 6"-6"-6"	SOIL DESCRIPTION	C R	COMMENTS AND HNU READINGS
	30.0-31.5	09	100	12-19-18	Uniform SAND, few or no fines, moist, brown with red stains (SP)	2	HNU = 300 ppm(liners) HNU = 0.2 ppm (background)
31							
32							
33							
34							
35	35.0-36.5	10	100	15-20-25	Uniform medium SAND, few or no fines, whitish-grey, wet (SP)	2	HNU = >130 ppm (liners)
36							
37							
38							
39							
40	40.0-41.5	11	100	9-16-16	Similar (SP)	2	HNU = 300 ppm(liners
41							
					End of boring at 41.5 feet		
42							
43							
44							
45							

TEST PIT LOG

PROJECT NAME: PURITY OIL SALES
PROJECT NUMBER: W63320.FS

TEST PIT NUMBER: TP-T1

DATE: 1-4-88

LOCATION: CONCRETE TANK, NW CORNER

START TIME: 1600

BACKHOE TYPE: JOHN DEERE

COMPLETION: 0930, 1-5-8

BUCKET WIDTH: 2'

ELEVATION:

CONTRACTOR: CONTINENTAL DRILLING

GROUNDWATER LEVEL & DATE: Not encountered

INSPECTOR: D. GREENWAY

DEPTH BELOW SURFACE (feet)	SAMPLE INTERVAL (feet)	SAMPLE TYPE & NUMBER	SOIL DESCRIPTION	CR	COMMENTS
1			FILL: SANDY SILT, dry to moist, light reddish-brown (ML)	1	
2			Top of CONCRETE TANK WALL		
3					
4					
5					
6			CONCRETE TANK WALL, tank backfilled as above, and with some wood and pipes		Refer to photographs 6-11
7					
8					
9			AT 11.0': ~2" thick tank bottom. Concrete extends only 6" from wall. Beyond 6" the tank bottom is a dense, tarry gravel and soil.		
10					
11		Conc. chunks	SILT, clayey, moist, light to dark grey (ML-MH)	4	
12			Bottom of test pit at 13.0'		

TEST PIT LOG

PROJECT NAME: PURITY OIL SALES
PROJECT NUMBER: W63320.FS

TEST PIT NUMBER: TP-SB3

DATE: 1-5-88

LOCATION: SB3

START TIME: 1110

BACKHOE TYPE: JD 410B

COMPLETION: 1200

BUCKET WIDTH: 2'

ELEVATION:

CONTRACTOR: CONTINENTAL DRILLING

GROUNDWATER LEVEL & DATE: Not encountered

INSPECTOR: D. GREENWAY

DEPTH BELOW SURFACE (feet)	SAMPLE INTERVAL (feet)	SAMPLE TYPE & NUMBER	SOIL DESCRIPTION	CR	COMMENTS
1			SANDY SILT, brown, with concrete rubble up to 2'(ML)	1	
2					HNU = 1 ppm (on spoil)
3	2.8-3.2	01 2 sm. jars	SANDY SILT, with some tar-like material and rubble, black (ML)	4	
4					
5					
6	5.8-6.2	02 2 sm. jars	SILT, moist, tannish-brown (ML)	1	
7			SANDY SILT, moist, reddish-brown (ML)	1	
8					
9					Refer to photographs 14,15,16
10			Bottom of test pit at 10.0 feet		
11					
12					

HARDING LAWSON
TEST PIT AND BORING LOGS

MAJOR DIVISIONS				TYPICAL NAMES
COARSE - GRAINED SOILS MORE THAN HALF IS LARGER THAN No. 200 SIEVE	GRAVELS MORE THAN HALF COARSE FRACTION IS LARGER THAN No. 4 SIEVE SIZE	CLEAN GRAVELS WITH LITTLE OR NO FINES	GW	WELL-GRADED GRAVELS, GRAVEL-SAND MIXTURES
			GP	POORLY GRADED GRAVELS, GRAVEL-SAND MIXTURES
		GRAVELS WITH OVER 12% FINES	GM	SILTY GRAVELS, POORLY GRADED GRAVEL-SAND-SILT MIXTURES
			GC	CLAYEY GRAVELS, POORLY GRADED GRAVEL-SAND-CLAY MIXTURES
	SANDS MORE THAN HALF COARSE FRACTION IS SMALLER THAN No. 4 SIEVE SIZE	CLEAN SANDS WITH LITTLE OR NO FINES	SW	WELL-GRADED SANDS, GRAVELLY SANDS
			SP	POORLY GRADED SANDS, GRAVELLY SANDS
		SANDS WITH OVER 12% FINES	SM	SILTY SANDS, POORLY GRADED SAND-SILT MIXTURES
			SC	CLAYEY SANDS, POORLY GRADED SAND-CLAY MIXTURES
FINE - GRAINED SOILS MORE THAN HALF IS SMALLER THAN No. 200 SIEVE	SILTS AND CLAYS LIQUID LIMIT 50% OR LESS		ML	INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS, OR CLAYEY SILTS WITH SLIGHT PLASTICITY
			CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
			OL	ORGANIC CLAYS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
	SILTS AND CLAYS LIQUID LIMIT GREATER THAN 50%		MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SANDY OR SILTY SOILS, ELASTIC SILTS
			CH	INORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS
			OH	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS
HIGHLY ORGANIC SOILS			Pt	PEAT AND OTHER HIGHLY ORGANIC SOILS

UNIFIED SOIL CLASSIFICATION SYSTEM

Harding Lawson Associates
Engineers, Geologists
& Geophysicists

Soil Classification Chart
Purity Oil Sales Remedial Investigation
Fresno, California

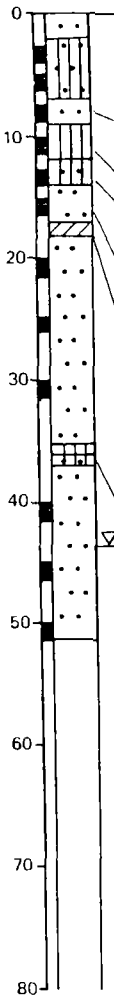
PLATE
A1

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED	DATE
PM	919,032.01	JW	4/86		

4125

Equipment 12" Hollow Stem Auger

Elevation 292.1 Date 6/20/84



Blows/foot	Depth (ft) Sample		LEVEL A pH	LEVEL A Conductivity (µmhos)	LEVEL A Volatiles Peak (ppm)	DOWNHOLE FLUX CHAMBER Total Hydrocarbon Peak (ppm)	DOWNHOLE FLUX CHAMBER Benzene Peak (ppm)	DOWNHOLE FLUX CHAMBER SO_2 Peak (ppm)	LEVEL B Oil and Grease (µg/g)	LEVEL B Lead (µg/g)	LEVEL B Total Phenolics (µg/g)	LEVEL B Percent Carbon	LEVEL B Percent Hydrogen	LEVEL B Percent Oxygen	LEVEL B Percent Nitrogen	LEVEL B Percent Sulfur	LEVEL B Percent Volatile Matter	Depth (ft)
5		BROWN GRAVELLY SAND (SP)(10 YR 5/2) dry	5.9	425	10				34000	5.2	< 0.05	2.78	0.73	3.7	0.05	< 0.1	3.25	
3		YELLOW-BROWN SILTY SAND (SM)(10 YR 6/6) loose, dry, fine grained	3.6	1100	15	200	460	0	27000	8.4	< 0.05	1.84	0.49	3.64	0.02	0.1	2.08	
11		GRAY AND YELLOW-BROWN SAND (SP)(10 YR 5/6) loose, dry, fine grained, laminated	4.0	500	0.3				—	—	—	—	—	—	—	—	—	
19	10		3.8	950	1.0	15	19	0	920	14.0	< 0.05	0.05	2.38	19.51	0.05	0.21	1.5	10
18		GRAY SILT (ML)(5 Y 6/2) stiff, dry	5.8	450	0.7				—	—	—	—	—	—	—	—	—	
26		YELLOW-BROWN SILTY SAND (SM)(10 YR 5/4) dense, dry, fine	7.8	425	1.0	18	25	0	3500	12.0	< 0.05	0.32	0.65	7.41	0.03	< 0.1	1.27	
10	20	YELLOW-BROWN SAND (SP)(10 YR 5/4) dense, moist, fine grained	8.4	190	0.3				3200	3.2	< 0.05	0.03	0.13	0.59	0.02	< 0.1	0.04	20
12		GRAY SILTY CLAY (CL) (2.5 YR 6/2) hard, dry	8.0	125	0.3				24000	5.3	< 0.05	0.07	0.22	1.5	0.01	< 0.1	< 0.01	
12	30	GRAY SAND (SP)(10 YR 7/2) medium dense, slightly moist color changing to LIGHT GRAY(10 YR 7/2) medium grained	7.9	190	0.1				1100	3.0	< 0.05	0.05	0.2	2.77	0.03	< 0.1	0.11	30
—		GRAY SILT (ML) (2.5 Y 6.5/2) stiff, moist	8.2	500	0.3				1900	4.6	< 0.05	0.07	1.47	13.95	0.02	< 0.1	< 0.01	
24	40	GRAY SILTY SAND (SM) (10 YR 4.5/1) dense, slightly moist	8.2	350	0.5				3600	7.1	< 0.05	0.1	0.45	4.45	0.03	< 0.1	< 0.01	40
25		LIGHT GRAY SAND (SP) (7.5 YR 4/0) dense, moist, fine grained color changing to MEDIUM GRAY (2.5 Y 4/2), saturated	7.4	450	0				9300	7.1	< 0.05	0.63	1.06	11.66	0.02	< 0.1	0.99	
18	50																	50

Harding Lawson Associates
Engineers, Geologists & Geophysicists

Log of Boring 1
Purity Oil Sales Remedial Investigation
Fresno, California

PLATE **A2**

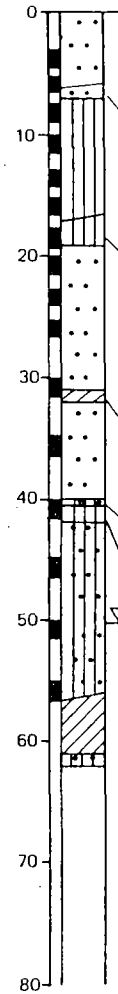
DRAWN	JOB NUMBER	APPROVED	DATE	REVISED	DATE
JGL	919 032.01		10/84		

919 032 0002

4126

Equipment 12" Hollow Stem Auger

Elevation 297.0 Date 6/22/84



Blows/foot	Depth (ft)	Sample	Description	pH	Conductivity (μmhos)	Volatiles Peak (ppm)	Total Hydrocarbon Peak (ppm)	Benzene Peak (ppm)	SO_2 Peak (ppm)	Oil and Grease (μg/g)	Lead (μg/g)	Total Phenolics (μg/g)	Percent Carbon	Percent Hydrogen	Percent Oxygen	Percent Nitrogen	Percent Sulfur	Percent Volatile Matter	Depth (ft)
				LEVEL A			DOWNHOLE FLUX CHAMBER			LEVEL B									
	0																		
24			BROWN GRAVELLY SAND (SP)(10 YR 5/2) dense, dry color changing to GRAY (10 YR 6/2)	6.2	4000	2.4				----	---	---	---	---	---	---	---	---	
18				4.0	5250	10	170	66	87	180000	330	0.67	15.93	3.17	16.7	0.1	1.31	20.61	
6			BLACK SAND (2.5 Y 2/0) saturated with oil	8.1	210	27.5				----	---	---	---	---	---	---	---	---	
11	10		MEDIUM GRAY SILT (ML) (5 Y 3/1) medium stiff, slightly moist	8.3	200	35	2200	94	11	67000	82	4.5	6.04	1.35	4.44	0.02	0.11	5.01	10
9				8.3	100	85				----	---	---	---	---	---	---	---	---	
13			color changing to MEDIUM GRAY (5 Y 3/2),	8.3	400	34	2600	73	8	19000	56	4.1	1.48	2.36	19.91	0.01	< 0.1	2.61	
---			some black laminations	8.4	350	10				----	---	---	---	---	---	---	---	---	
33	20		MEDIUM GRAY SANDY SILT (ML)(5 Y 4/1) hard, slightly moist	8.6	300	7.9	600	97	8	----	---	---	---	---	---	---	---	---	20
---				8.6	350	1.2				----	---	---	---	---	---	---	---	---	
13			GRAY SAND (SP)(5 Y 5/1) dense, slightly moist, fine grained, cemented @ 22 ft. color changing to BROWN (2.5 Y 4/2)	9.2	220	2.4	6000	11.7	3	930	33	< 0.05	0.1	0.37	3.56	< 0.01	< 0.1	< 0.01	
21	30			8.7	225	12.9				----	---	---	---	---	---	---	---	---	30
12			LIGHT GRAY SILTY CLAY (CL)(2.5 Y 5/0) hard, dry, cemented	8.4	90	1.8				3600	9.2	0.14	0.09	0.21	2.85	< 0.01	< 0.1	< 0.01	
9	40		LIGHT GRAY SAND (SP) (5 Y 6/1) dense, moist, fine grained	8.1	290	0.9				----	---	---	---	---	---	---	---	---	40
34			LIGHT GRAY SILTY SAND (SM)(5 Y 6/1) medium dense, slightly moist, very fine grained	8.1	150	5.8				1000	7.2	< 0.05	0.3	0.9	8.25	0.01	< 0.1	0.3	
24	50		MEDIUM GRAY SILT (ML)(5 Y 4.5/1) stiff, slightly moist	8.1	390	65				----	---	---	---	---	---	---	---	---	50
19			LIGHT GREEN-GRAY SILTY SAND (SM)(5 Y 5/2) dense, slightly moist saturated	8.2	150	10				----	---	---	---	---	---	---	---	---	
	60		GRAY-GREEN SILTY CLAY (CL)(5 Y 5/1) dense, wet																60
			GREEN-GRAY SILTY SAND (SM)(5 Y 4/2) saturated																
	70																		
	80																		

A-87

Harding Lawson Associates
Engineers Geologists & Geophysicists

Log of Boring 2
Purity Oil Sales Remedial Investigation
Fresno, California

PLATE **A3**

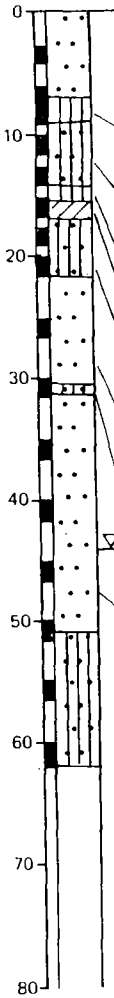
DRAWN	JOB NUMBER	APPROVED	DATE	REVISED	DATE
JGL	919.032 01		10/84		

919 032 0003

4124

Equipment 12" Hollow Stem Auger

Elevation 296.2 Date 6/23/84



BROWN GRAVELLY SAND (SP)(5 Y 3/3) dense, moist, color changing to BROWN-BLACK (2.5 Y 3/0)

BLACK SANDY SILT (ML) (2.5 Y 20) waste sludge, moist

LIGHT BROWN SILTY SAND (SM)(10 YR 5/4) dry, dense, fine grained, color changing to GREEN-GRAY (5 Y 5/1)

GREEN-GRAY SANDY SILT (ML)(5 Y 3/2) dense, dry

GREEN-GRAY SILTY CLAY (CL)(5 Y 5/2) dense, dry

BROWN-GRAY SILTY SAND (SM)(5 Y 4/2) dense, dry, cemented @ 17.5 ft., color changing to GREEN-BROWN (5 Y 5/3)

LIGHT BROWN SAND (SP)(2.5 Y 5/4) dense, dry, medium grained, color changing to GREEN-GRAY SAND (52 5 Y 6/2), very fine grained

GREEN GRAY SILTY SAND (SM)(2.5 Y 4/2) dry, dense, very fine grained

GREEN-BROWN SAND (SP)(2 5 Y 5/2) dry, dense, medium grained

GREEN-BROWN SILTY SAND (SM)(5 Y 4/2) dense, saturated, very fine grained

color changing to BROWN (10 Y 9/4)

Blows/foot	Depth (ft) Sample	LEVEL A pH	LEVEL A Conductivity (µmhos)	LEVEL A Volatiles Peak (ppm)	DOWNHOLE FLUX CHAMBER Total Hydrocarbon Peak (ppm)	DOWNHOLE FLUX CHAMBER Benzene Peak (ppm)	DOWNHOLE FLUX CHAMBER SO_2 Peak (ppm)	LEVEL B Oil and Grease (µg/g)	LEVEL B Lead (µg/g)	LEVEL B Total Phenolics (µg/g)	LEVEL B Percent Carbon	LEVEL B Percent Hydrogen	LEVEL B Percent Oxygen	LEVEL B Percent Nitrogen	LEVEL B Percent Sulfur	LEVEL B Percent Volatile Matter	Depth (ft)
--		7.2	2500	2.5				----	---	---	---	---	---	---	---	----	
7		1.4	24000	2.5	100	103	3	----	---	---	---	---	---	---	---	----	
22		3.1	7000	14.7				26500	250	1.2	27.99	5.34	13.33	0.07	1.74	33.7	
15	10	3.3	3500	6				81000	35	2.2	5.49	1.17	5.26	0.01	0.36	7.64	10
16		6.1	1650	1	19	9.6	2.5	6900	22	< 0.05	0.28	0.62	7.01	0.01	0.24	0.11	
28		7.3	2000	0.6	14	10.3	2	----	---	---	---	---	---	---	---	----	
--		7.4	900	0.5				860	18	< 0.05	0.16	0.6	7.62	0.01	< 0.1	1.54	
19	20	8.4	410	0.2	32	13.8	2	----	---	---	---	---	---	---	---	----	20
18		8.6	375	0.3	6.5	1.6	2	2600	5.6	< 0.05	0.1	0.17	1.61	0.02	< 0.1	0.02	
28	30	8.3	700	0.3				----	---	---	---	---	---	---	---	----	30
14		8.3	258	0				2400	9.9	< 0.05	0.11	0.23	1.65	0.02	< 0.1	0.61	
32	40	8.0	250	0				----	---	---	---	---	---	---	---	----	40
13		8.0	750	0.4				24000	4.7	0.08	0.16	0.93	7.99	0.02	< 0.1	< 0.01	
20	50	7.7	650	0				----	---	---	---	---	---	---	---	----	50
--		8.4	250	0				----	---	---	---	---	---	---	---	----	
--	60																60

Harding Lawson Associates
Engineers Geologists & Geophysicists

Log of Boring 3
Purity Oil Sales Remedial Investigation
Fresno, California

PLATE **A4**

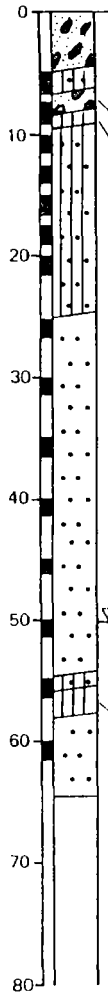
DRAWN	JOB NUMBER	APPROVED	DATE	REVISED	DATE
JGL	919.032.01		10/84		

919 032 no04

4123

Equipment 12" Hollow Stem Auger

Elevation 296.3 Date 6/26/84



Blows/foot	Depth (ft) Sample	Description	LEVEL A pH	LEVEL A Conductivity (µmhos)	LEVEL A Volatiles Peak (ppm)	DOWNHOLE FLUX CHAMBER Total Hydrocarbon Peak (ppm)	DOWNHOLE FLUX CHAMBER Benzene Peak (ppm)	DOWNHOLE FLUX CHAMBER SO_2 Peak (ppm)	LEVEL B Oil and Grease (µg/g)	LEVEL B Lead (µg/g)	LEVEL B Total Phenolics (µg/g)	LEVEL B Percent Carbon	LEVEL B Percent Hydrogen	LEVEL B Percent Oxygen	LEVEL B Percent Nitrogen	LEVEL B Percent Sulfur	LEVEL B Percent Volatile Matter	Depth (ft)
	0	BROWN SANDY GRAVEL (GP) AND RUBBLE																
11		BROWN GRAVELLY SAND (SP) dense, slightly moist, medium grained	10	2250	0.02	18	2.2	0	----	---	---	---	---	---	---	---	---	
19			3.1	2500	20				97000	160	2.8	17.98	3.39	10.15	0.07	1.57	23.57	
40	10	BLACK SANDY GRAVEL (GP) (5 Y 2.5/1) moist, dense	6.2	2100	0	700	4	5	43000	31	< 0.05	1.03	1.23	10.36	0.02	0.42	0.74	10
15		BLACK SANDY SILT (ML) (5 Y 2.5/1) dense, moist	8.3	900	0				----	---	---	---	---	---	---	---	---	
12			8.4	850	0.04	16	1.5	0	3100	6.1	< 0.05	0.22	1.9	16.69	0.02	< 0.1	0.54	
--		BROWN SILTY SAND (SM) (10 YR 4/4) dense, dry, very fine grained, black laminations color changing to GRAY (10 YR 6/1) and BROWN GRAY (5 Y 5/2) and BROWN (10 YR 4/4)	8.2	700	0.5				----	---	---	---	---	---	---	---	---	
--	20		8.2	575	0	10	1.8	0	----	---	---	---	---	---	---	---	---	20
23			8.4	140	0				3500	5.1	0.07	0.1	0.26	2.67	0.05	< 0.1	< 0.01	
22	30		8.4	250	3.3				----	---	---	---	---	---	---	---	---	30
26		LIGHT BROWN SAND (SP) (10 YR 5/3) dense, dry changing to LIGHT BROWN (10 YR 5/4) slightly moist, fine grained, and BROWN (10 YR 4/6) dense, saturated	8.0	135	--				1300	4.0	0.1	0.01	0.42	2.28	0.04	< 0.1	< 0.01	
17	40		8.1	210	40				----	---	---	---	---	---	---	---	---	40
25			8.1	300	140				2100	4.3	0.37	0.04	0.28	2.09	0.03	< 0.1	< 0.01	
26	50	▽	7.6	950	2				----	---	---	---	---	---	---	---	---	50
41		BROWN SILTY SAND (SM) (5 Y 5/3) dense, saturated																
15	60	BROWN SANDY SILT (ML) (5 Y 4/2) dense, wet, saturated																
		BROWN SAND (SP)(10 Y 4/4) dense, saturated, fine grained																
	70																	
	80																	

Harding Lawson Associates
Engineers, Geologists & Geophysicists

Log of Boring 4
Purity Oil Sales Remedial Investigation
Fresno, California

PLATE **A5**

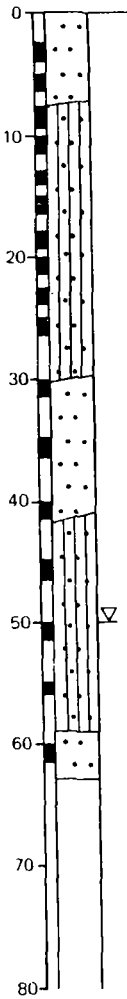
DRAWN	JOB NUMBER	APPROVED	DATE	REVISED	DATE
JGL	919.032.01		10/84		

919 032 0005

4122

Equipment 12" Hollow Stem Auger

Elevation 296.6 Date 7/3/84



Blows/foot	Depth (ft) Sample	Description	LEVEL A pH	LEVEL A Conductivity (µmhos)	LEVEL A Volatiles Peak (ppm)	DOWNHOLE FLUX CHAMBER Total Hydrocarbon Peak (ppm)	DOWNHOLE FLUX CHAMBER Benzene Peak (ppm)	DOWNHOLE FLUX CHAMBER SO_2 Peak (ppm)	LEVEL B Oil and Grease (µg/g)	LEVEL B Lead (µg/g)	LEVEL B Total Phenolics (µg/g)	LEVEL B Percent Carbon	LEVEL B Percent Hydrogen	LEVEL B Percent Oxygen	LEVEL B Percent Nitrogen	LEVEL B Percent Sulfur	LEVEL B Percent Volatile Matter	Depth (ft)
	0	BROWN SILTY GRAVELLY SAND (SP) AND RUBBLE (10 YR 4/4) dense, dry, fine grained																
14			7.8	500	6				----	---	----	---	---	---	---	---	----	
29			1.6	15000	2	18	15.5	100	----	---	----	---	---	---	---	---	----	
23		color changing to BLACK-BROWN (10 YR 2/1)	1.4	25000	11				39000	980	0.3	4.11	1.66	13.05	0.07	6.21	19.13	
15	10		5.7	130	16	1800	56	3500	20000	55	1.6	1.38	0.75	6.47	0.04	1.54	4.62	10
9		BLACK SILTY SAND (SM) (10 YR 2/1) dense, moist	2.3	9000	14				----	---	----	---	---	---	---	---	----	
--			5.6	425	17	6000	90	100	6800	25	1.2	0.03	2.43	19.58	0.03	<0.1	<0.01	
--		GRAY SILTY SAND (SM) (5 Y 6/1) dense, dry, black laminations	6.2	70	1				----	---	----	---	---	---	---	--	----	
23	20		5.8	150	22	4300	59	18	3400	18	<0.05	0.02	0.7	6.21	0.02	<0.1	0.99	20
22		color changing to GREEN-GRAY (5 Y 3/2) and GRAY GREEN (5 Y 4/2)	6.6	55	50				----	---	----	---	---	---	---	---	----	
25			5.7	110	--	4500	54	20	810	5.6	<0.05	0.01	0.55	4.87	0.02	<0.1	0.14	
13	30	GREEN-GRAY SAND (SP) (5 Y 6/1) dense, dry, fine grained	6.9	0.3	--				----	---	----	---	---	---	---	---	----	30
15		color change to GRAY-GREEN (5 Y 4/2) dense, dry	7.4	35	0.5				1900	8.1	<0.05	<0.01	0.27	1.13	0.03	<0.1	<0.01	
37	40		8.2	125	--				----	---	----	---	---	---	---	---	----	40
17		GREEN SILTY SAND (SM) (5 Y 3/2) dense, moist	7.9	23	0.3				6500	13	<0.05	0.06	1.63	15.44	0.01	<0.1	0.93	
4	50		8	225	--				----	---	----	---	---	---	---	---	----	50
16		changing to DARK GREEN CLAYEY SILTY SAND (5 Y 4/2) dense, saturated																
--	60	BROWN SAND (SP) (10 YR 4/4) dense, saturated																
	70																	
	80																	

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Log of Boring 5
Purity Oil Sales Remedial Investigation
Fresno, California

PLATE **A6**

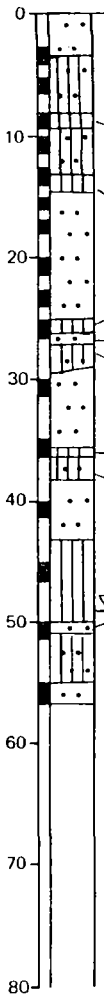
DRAWN	JOB NUMBER	APPROVED	DATE	REVISED	DATE
JGL	919,032.01		10/84		

919 032 0006

4121

Equipment 12" Hollow Stem Auger

Elevation 292.1 Date 7/3/84



Blows/foot	Depth (ft) Sample	Description	LEVEL A pH	LEVEL A Conductivity (µmhos)	LEVEL A Volatiles Peak (ppm)	DOWNHOLE FLUX CHAMBER Total Hydrocarbon Peak (ppm)	DOWNHOLE FLUX CHAMBER Benzene Peak (ppm)	DOWNHOLE FLUX CHAMBER SO_2 Peak (ppm)	LEVEL B Oil and Grease (µg/g)	LEVEL B Lead (µg/g)	LEVEL B Total Phenolics (µg/g)	LEVEL B Percent Carbon	LEVEL B Percent Hydrogen	LEVEL B Percent Oxygen	LEVEL B Percent Nitrogen	LEVEL B Percent Sulfur	LEVEL B Percent Volatile Matter	Depth (ft)
	0																	
22		BLACK GRAVELLY SAND (SP) (2.5 Y 2/0) dense, dry	8.4	450	5.5				72000	140	0.72	6.64	1.35	3.6	0.04	0.15	7.13	
12		GRAY SILTY SAND (SM)(5 Y 4.5/1) very fine grained, color changing to GREEN-GRAY (5 Y 5/2) dense, slightly moist	8.2	80	2	> 10,000	16	2	1800	13	< 0.05	0.09	0.58	5.42	< 0.01	< 0.1	< 0.01	
6			8.4	450	2				----	---	----	---	---	---	---	---	----	
8	10	GRAY SILTY (ML)(5 Y 6/1) stiff, dry																10
12		GREEN SILTY SAND (SM) (5 Y 5.5/3) medium dense, slightly moist, color changing to GREEN-GRAY (5 Y 6/3)	8.7	400	7.3	> 10,000	> 2000	2	2900	40	< 0.05	0.07	0.61	4.67	0.03	< 0.1	< 0.01	
--			8.7	950	0.8				680	13	< 0.05	0.06	2.23	18.12	0.01	< 0.1	0.07	
--		GRAY CLAYEY SILT (ML)(5 Y 5.5/3) stiff, slightly moist				> 10,000	30	3										
12	20	YELLOW-BROWN SAND (SP) (2.5 Y 5/4) hard, slightly moist, fine grained, cemented	8.9	60	0.2				----	---	----	---	---	---	---	---	----	
16		MEDIUM GRAY SILT (ML) (5 Y 4/1)	8.7	60	0	> 10,000	26	2	2200	16	< 0.05	0.88	0.79	9.64	0.02	< 0.1	2.75	20
17		LIGHT GRAY SAND (SP)(5 Y 6/1) dense, slightly moist	8.1	150	0.3				----	---	----	---	---	---	---	---	----	
11	30	MEDIUM GRAY SILTY SAND (SM)(5 Y 5/1) dense, slightly moist, very fine grained	8.7	300	1	4,000	12.5	2	2500	6.2	< 0.05	0.21	1.09	8.75	0.01	< 0.1	< 0.01	
		LIGHT GRAY SAND (SP) (5 Y 6/1) dense, slightly moist	8.8	35	1				6000	23	< 0.05	0.19	0.43	3.81	0.04	< 0.1	0.01	30
14		GREEN-GRAY SILT (ML) (5 Y 4/1) stiff, saturated	8.4	900	--				4100	34	< 0.05	0.23	2.12	19.27	0.04	< 0.1	0.47	
11	40	GREEN-GRAY SILTY SAND (SM)(5 Y 5/3) dense, moist	8.9	0.8	--				3300	8.5	< 0.05	0.19	0.33	1.62	0.01	< 0.1	< 0.01	40
		GREEN-GRAY SAND (SP) (5 Y 6/2) dense, moist																
17		GREEN-GRAY SANDY SILT (ML)(5 Y 4/3) stiff, wet, very fine grained	7.9	1100	0.1				3100	5.2	< 0.05	0.37	1.64	16.2	0.09	< 0.1	1.41	
15	50	GREEN-GRAY SAND (SP) (5 Y 5/3) dense, saturated																50
		GREEN-GRAY SILTY SAND (SM)(2.5 Y 5/2) dense, saturated, fine grained																
21		BROWN SAND (SP)(2.5 Y 6/4) dense, saturated																
	60																	
	70																	
	80																	

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Log of Boring 6
Purity Oil Sales Remedial Investigation
Fresno, California

PLATE **A7**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED	DATE
JGL	919 032 01		10/84		

919 032 0007

4120

Equipment 12" Hollow Stem Auger

Elevation 292.5 Date 7/3/84

Blows/foot	Depth (ft) Sample	Description	LEVEL A pH	LEVEL A Conductivity (µmhos)	LEVEL A Volatiles Peak (ppm)	DOWNHOLE FLUX CHAMBER Total Hydrocarbon Peak (ppm)	DOWNHOLE FLUX CHAMBER Benzene Peak (ppm)	DOWNHOLE FLUX CHAMBER SO_2 Peak (ppm)	LEVEL B Oil and Grease (µg/g)	LEVEL B Lead (µg/g)	LEVEL B Total Phenolics (µg/g)	LEVEL B Percent Carbon	LEVEL B Percent Hydrogen	LEVEL B Percent Oxygen	LEVEL B Percent Nitrogen	LEVEL B Percent Sulfur	LEVEL B Percent Volatile Matter	Depth (ft)
	0	DARK BROWN SILT (ML) (10 YR 2/1) loose, moist																
14		DARK BROWN SILTY SAND (SM)(10 YR 2/1) dense, slightly moist, very fine grained color changing to GREEN-GRAY	6.9	20	3		NONE		90000	845	0.41	8.21	1.37	2.9	0.1	< 0.1	9.66	
9	5		8.4	225	--				----	---	---	---	---	---	---	---	----	5
--			9.1	600	--				2700	20	0.26	0.15	0.88	5.51	0.03	< 0.1	< 0.01	
9	10		9.4	65	0.2				----	---	---	---	---	---	---	---	----	10
--	15	cemented @ 15 ft.	9.1	300	--				----	---	---	---	---	---	---	---	----	15
	20																	20
	25																	
	30																	
	35																	
	40																	

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Log of Boring 7
Purity Oil Sales Remedial Investigation
Fresno, California

PLATE **A8**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED	DATE
JGL	919,032 01		10/84		

919 032 0008

4119

Equipment 12" Hollow Stem Auger

Elevation 291.1 Date 7/4/84

Blows/foot	Depth (ft) Sample	Description	LEVEL A pH	LEVEL A Conductivity (µmhos)	LEVEL A Volatiles Peak (ppm)	DOWNHOLE FLUX CHAMBER Total Hydrocarbon Peak (ppm)	DOWNHOLE FLUX CHAMBER Benzene Peak (ppm)	DOWNHOLE FLUX CHAMBER SO_2 Peak (ppm)	LEVEL B Oil and Grease (µg/g)	LEVEL B Lead (µg/g)	LEVEL B Total Phenolics (µg/g)	LEVEL B Percent Carbon	LEVEL B Percent Hydrogen	LEVEL B Percent Oxygen	LEVEL B Percent Nitrogen	LEVEL B Percent Sulfur	LEVEL B Percent Volatile Matter	Depth (ft)
	0	BROWN SAND (SP) (2.5 Y 5/2) loose, dry																
3		BLACK SANDY SILT (ML) (2.5 Y 2/0) soft, moist, waste	7.7	450	--		NONE		----	---	---	---	---	---	---	---	----	
	5																	5
17			8.1	190	3.4				51000	660	0.31	4.82	1.55	12.46	0.06	0.12	8.53	
12		GRAY AND BLACK SILTY SAND (SM)(5 Y 4/1) (5 Y 2.5/1) dense, moist, waste	8.9	200	5.2				----	---	---	---	---	---	---	---	----	
	10	DARK GRAY SILT (ML)(5 Y 4/1) stiff, slightly moist																10
14			8.4	400	9.7				----	---	---	---	---	---	---	---	----	
		LIGHT GRAY SAND (SP) (5 Y 5.5/1) dense, slightly moist, very fine grained																
	15	DARK GRAY SILT (ML) (5 Y 4/1) stiff, slightly moist																15
17		GRAY SAND (SP)(5 Y 5/2) loose, slightly moist	9.1	750	--				80	43	4.3	0.15	0.29	3.01	0.02	<0.1	<0.01	
	20																	20
	25																	
	30																	
	35																	
	40																	

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Log of Boring 8
Purity Oil Sales Remedial Investigation
Fresno, California

PLATE A9

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED	DATE
JGL	919,032.01		10/84		

919 032 0009

4118

Equipment 12" Hollow Stem Auger

Elevation 291.4 Date 7/5/84

Blows/foot	Depth (ft) Sample		LEVEL A pH	LEVEL A Conductivity (µmhos)	LEVEL A Volatiles Peak (ppm)	DOWNHOLE FLUX CHAMBER Total Hydrocarbon Peak (ppm)	DOWNHOLE FLUX CHAMBER Benzene Peak (ppm)	DOWNHOLE FLUX CHAMBER SO_2 Peak (ppm)	LEVEL B Oil and Grease (µg/g)	LEVEL B Lead (µg/g)	LEVEL B Total Phenolics (µg/g)	LEVEL B Percent Carbon	LEVEL B Percent Hydrogen	LEVEL B Percent Oxygen	LEVEL B Percent Nitrogen	LEVEL B Percent Sulfur	LEVEL B Percent Volatile Matter	Depth (ft)
3	0	BROWN GRAVELLY SAND (SP) (10 YR 3/4) loose, dry, color changing to BLACK GRAVELLY SAND (10 YR 2/2) slightly moist, waste	5.6	350	4.4		NONE		46000	75	0.19	5.58	1.15	4.76	0.07	0.1	6.88	
3	5	BROWN SILTY SAND (SM) (2.5 Y 3/2) soft, slightly moist, very fine grained, waste	8.2	200	4.6				---	---	---	---	---	---	---	---	---	5
9		LIGHT GRAY SAND (SP) (2.5 Y 6/2) dense, slightly moist	7.7	700	1				10000	9.9	0.12	0.25	0.85	8.57	0.02	< 0.1	< 0.01	
21	10	GREEN-GRAY SILTY SAND (SM) (5 Y 5/2) dense, slightly moist, very fine grained	8.0	225	0.2				---	---	---							10
21	15	YELLOW-BROWN SAND (SP) (2.5 Y 5/2) dense, slightly moist, fine to very fine grained	8.2	175	0.2				---	---	---							

Depth (ft): 0, 5, 10, 15, 20, 25, 30, 35, 40

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Log of Boring 9
Purity Oil Sales Remedial Investigation
Fresno, California

PLATE **A10**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED	DATE
JGL	919.032.01		10/84		

919 032 0010

A-04

4117

Equipment 12" Hollow Stem Auger

Elevation 292.6 Date 7/6/84

Blows/foot	Depth (ft) Sample	Description	LEVEL A pH	LEVEL A Conductivity (µmhos)	LEVEL A Volatiles Peak (ppm)	DOWNHOLE FLUX CHAMBER Total Hydrocarbon Peak (ppm)	DOWNHOLE FLUX CHAMBER Benzene Peak (ppm)	DOWNHOLE FLUX CHAMBER SO_2 Peak (ppm)	LEVEL B Oil and Grease (µg/g)	LEVEL B Lead (µg/g)	LEVEL B Total Phenolics (µg/g)	LEVEL B Percent Carbon	LEVEL B Percent Hydrogen	LEVEL B Percent Oxygen	LEVEL B Percent Nitrogen	LEVEL B Percent Sulfur	LEVEL B Percent Volatile Matter	Depth (ft)
	0	BROWN GRAVELLY SAND (SP) (10 YR 5/4) loose, dry																
9		DARK BROWN SILTY SAND (SM) (10 YR 2/2) medium dense, moist, fine, waste	3.5	400	9.8		NONE		150000	11000	42	34.15	5.49	13.48	0.35	2.03	39.77	
	5																	5
4			4.1	2000	5.1				----	---	---	---	---	---	---	---	----	
7		BROWN SAND (SP)(10 YR 3/3) medium dense, moist, fine grained	4.6	750	4.1				----	---	---	---	---	---	---	---	----	
	10																	10
66		LIGHT GREEN-GRAY SILT (ML) (5 Y 6/2) stiff, slightly moist changing to MEDIUM GRAY CLAYEY SILT (ML)(2.5 Y 4.50)	4.7	1250	1.6				11000	11	< 0.05	0.19	1.84	16.34	0.03	0.13	0.06	
	15																	15
33		GREEN-GRAY SAND (SP) (2.5 Y 5/2) dense, slightly moist, fine grained; YELLOW-BROWN SILTY SAND (SM)(10 YR 6/6) hard, slightly moist, cemented	6.9	550	0.8				4700	8.2	< 0.05	0.07	0.91	6.55	0.02	< 0.1	0.08	
	20																	
	25																	
	30																	
	35																	
	40																	

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Log of Boring 10
Purity Oil Sales Remedial Investigation
Fresno, California

PLATE **A11**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED	DATE
JGL	919.032.01		10/84		

919 032 0011

4116

Equipment 12" Hollow Stem Auger

Elevation 293.0 Date 7/5/84

Blows/foot	Depth (ft)	Sample	Description	LEVEL A pH	LEVEL A Conductivity (µmhos)	LEVEL A Volatiles Peak (ppm)	DOWNHOLE FLUX CHAMBER Total Hydrocarbon Peak (ppm)	DOWNHOLE FLUX CHAMBER Benzene Peak (ppm)	DOWNHOLE FLUX CHAMBER SO_2 Peak (ppm)	LEVEL B Oil and Grease (µg/g)	LEVEL B Lead (µg/g)	LEVEL B Total Phenolics (µg/g)	LEVEL B Percent Carbon	LEVEL B Percent Hydrogen	LEVEL B Percent Oxygen	LEVEL B Percent Nitrogen	LEVEL B Percent Sulfur	LEVEL B Percent Volatile Matter	Depth (ft)
	0		BROWN GRAVELLY SAND (SP) (10 YR 5/4) loose, dry																
6			BLACK TAR (2.5 Y 2/0)	6.6	1050	9.1		NONE		43000	39	0.16	3.29	0.63	3.33	0.08	0.1	2.59	
			DARK BROWN SAND (SP) (10 YR 3/2) medium dense, slightly moist, fine grained, waste color changing to DARK GREEN-GRAY SAND (5 Y 3/2)																
6	5			7.8	300	11				----	---	---	---	---	---	---	---	---	5
5				7.5	340	10.2				----	---	---	---	---	---	---	---	---	
15	10		GRAY CLAYEY SILT (ML) (5 Y 5/1) stiff, slightly moist	6.9	100	9.1				----	---	---	---	---	---	---	---	---	10
			GREEN-GRAY SAND (SP) (5 Y 4.5/1) dense, moist, fine grained																
15	15			7.6	80	16.6				21500	4.1	0.16	1.69	1.05	7.07	< 0.01	< 0.1	2.49	15
	20																		
	25																		
	30																		
	35																		
	40																		

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Log of Boring 11
Purity Oil Sales Remedial Investigation
Fresno, California

PLATE A12

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED	DATE
JGL	919 032 01		10/84		

919 032 0012

4115

Equipment 12" Hollow Stem Auger

Elevation 292.6 Date 7/6/84

Blows/foot	Depth (ft) Sample	Description	LEVEL A pH	LEVEL A Conductivity (µmhos)	LEVEL A Volatiles Peak (ppm)	DOWNHOLE FLUX CHAMBER Total Hydrocarbon Peak (ppm)	DOWNHOLE FLUX CHAMBER Benzene Peak (ppm)	DOWNHOLE FLUX CHAMBER SO_2 Peak (ppm)	LEVEL B Oil and Grease (µg/g)	LEVEL B Lead (µg/g)	LEVEL B Total Phenolics (µg/g)	LEVEL B Percent Carbon	LEVEL B Percent Hydrogen	LEVEL B Percent Oxygen	LEVEL B Percent Nitrogen	LEVEL B Percent Sulfur	LEVEL B Percent Volatile Matter	Depth (ft)
	0	BROWN GRAVELLY SAND (SP)(10 YR 3/2) loose, dry																
16		BLACK TARRY WASTE (2.5 Y 2/0) soft, moist	3.15	3000	7.9		NONE		77000	1300	3	6.96	1.26	5.67	0.06	0.36	9.24	
	5	DARK BROWN SAND (SP) (10 YR 2/2) loose, slightly moist, waste, changing color to BROWN SAND (10 YR 4/2) very fine grained																5
6			4	3000	12				----	---	---	---	---	---	---	---	---	
11		OLIVE GRAY SILTY SAND (SM)(5 Y 4.5/2) soft, slightly moist, very fine, waste	5.6	2250	28				----	---	---	---	---	---	---	---	---	
	10	BLACK SILT (ML)(5 Y 2.5/1) stiff, moist, waste color changing to OLIVE-GRAY (5 Y 5/2)																10
14			6.1	1400	50				84000	25	0.19	6.67	1.85	10.27	0.05	0.31	6.54	
	15	OLIVE-BROWN AND BLACK SAND (SP)(5 Y 3/0) very dense, moist, waste, some cemented sand																15
--			5.5	1150	23				----	---	---	---	---	---	---	---	---	
	20	color changing to OLIVE GRAY (5 Y 4.5/1) fine grained																20
30			7.3	500	20.2				18000	3.8	< 0.05	0.96	0.51	3.79	0.04	0.12	1.08	
	25																	
	30																	
	35																	
	40																	

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Log of Boring 12
Purity Oil Sales Remedial Investigation
Fresno, California

PLATE **A13**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED	DATE
JGL	919.032.01		10/84		

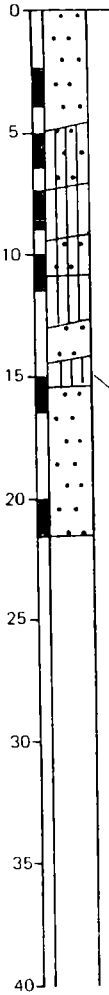
919.032.001

4114

B13

Equipment 12" Hollow Stem Auger

Elevation 295.0 Date 7/6/84



Blows/foot	Depth (ft) Sample	Description	LEVEL A pH	LEVEL A Conductivity (µmhos)	LEVEL A Volatiles Peak (ppm)	DOWNHOLE FLUX CHAMBER Total Hydrocarbon Peak (ppm)	DOWNHOLE FLUX CHAMBER Benzene Peak (ppm)	DOWNHOLE FLUX CHAMBER SO_2 Peak (ppm)	LEVEL B Oil and Grease (µg/g)	LEVEL B Lead (µg/g)	LEVEL B Total Phenolics (µg/g)	LEVEL B Percent Carbon	LEVEL B Percent Hydrogen	LEVEL B Percent Oxygen	LEVEL B Percent Nitrogen	LEVEL B Percent Sulfur	LEVEL B Percent Volatile Matter	Depth (ft)
17	0	BROWN GRAVELLY SAND (SP)(10 YR 3/3) loose, moist changing to VERY DARK GRAY BROWN (2.5 Y 3/2) saturated, waste	3.9	3000	20.6		NONE		---	---	---	---	---	---	---	---	---	
7	5	YELLOW-BROWN SILTY SAND (SM)(10 YR 5/4) loose, saturated, waste	1.4	20000	12.8				44000	2300	5.2	13.52	2.91	18.71	0.1	1.11	13.72	5
5		BLACK TARRY SILT (ML) (2.5 Y 2/0) very soft, saturated, waste	1.7	12000	66				---	---	---	---	---	---	---	---	---	
107	10	OLIVE BROWN SILTY SAND (SM)(2.5 Y 4/4) dense, moist, waste	4.4	3000	21				46000	100	16	3.59	1.56	7.31	0.05	0.34	4.69	10
		OLIVE SILT (ML)(5 Y 5/3) hard, moist																
		OLIVE GRAY SAND (SP) (5 Y 4/2) very dense, slightly moist, very fine																
11	15	OLIVE GRAY SILT (ML) (5 Y 5/2) stiff, slightly moist	8.3	350	39				---	---	---	---	---	---	---	---	---	15
		BLACK SAND (SP)(2.5 Y 2/0) medium dense, slightly moist, fine grained																
75	20	color changing to OLIVE GRAY (5 Y 5/2) to VERY DARK GRAY (5 Y 3/1) and to OLIVE GRAY (5 Y 5/2) cemented @ 20.5 ft.	8.9 9	500 860	24 25				46000 ---	17 ---	12 ---	2.53 ---	0.8 ---	2.51 ---	0.04 ---	<0.1 ---	1.78 -	20
	25																	
	30																	
	35																	
	40																	

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Log of Boring 13
Purity Oil Sales Remedial Investigation
Fresno, California

PLATE **A14**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED	DATE
JGL	919,032.01		10/84		

919 032 0014

A-98

4113

Equipment 12" Hollow Stem Auger

Elevation 296.8 Date 7/7/84

Blows/foot	Depth (ft) Sample	Description	LEVEL A pH	LEVEL A Conductivity (µmhos)	LEVEL A Volatiles Peak (ppm)	DOWNHOLE FLUX CHAMBER Total Hydrocarbon Peak (ppm)	DOWNHOLE FLUX CHAMBER Benzene Peak (ppm)	DOWNHOLE FLUX CHAMBER SO_2 Peak (ppm)	LEVEL B Oil and Grease (µg/g)	LEVEL B Lead (µg/g)	LEVEL B Total Phenolics (µg/g)	LEVEL B Percent Carbon	LEVEL B Percent Hydrogen	LEVEL B Percent Oxygen	LEVEL B Percent Nitrogen	LEVEL B Percent Sulfur	LEVEL B Percent Volatile Matter	Depth (ft)
	0	VERY DARK BROWN GRAVELLY SAND (SP)(10 YR 2/2) loose, slightly moist, waste																
--			7.1	240	2.5		NONE		---	---	---	---	---	---	---	---	---	
		BLACK SILT (ML)(2.5 Y 2/0) soft to medium stiff, moist, waste, concrete																
	5																	5
11			1.8	11000	7				270000	6500	49	27.02	5.19	36.9	0.11	2.26	49.2	
4			2.6	4500	13.6				---	---	---	---	---	---	---	---	---	
	10	BLACK SILTY CLAY (CL) (2.5 Y 2/0) medium stiff, moist, waste																10
9			5.1	2500	17.5				58000	170	4.8	5.93	2.66	17.19	0.09	0.47	7.93	
9		BLACK SAND (SP)(2.5 Y 2/0) loose, slightly moist, waste	8.2	1500	26				---	---	---	---	---	---	---	---	---	
	15																	15
55		GRAY AND BLACK SILT (ML)(5 Y 5/1) hard, slightly moist, waste	7	850	20				---	---	---	---	---	---	---	---	---	
22		GRAY SAND (SP)(5 Y 5/1) medium dense, slightly moist changing to BLACK (2.5 Y 2/0)	5.7	750	5.9				3400	14	0.1	0.1	0.25	3.11	0.05	< 0.1	0.17	
	20																	20
--		very dense, slightly moist, cemented @ 20 ft.	7	550	38				---	---	---	---	---	---	---	---	---	
	25																	
	30																	
	35																	
	40																	

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Log of Boring 14
Purity Oil Sales Remedial Investigation
Fresno, California

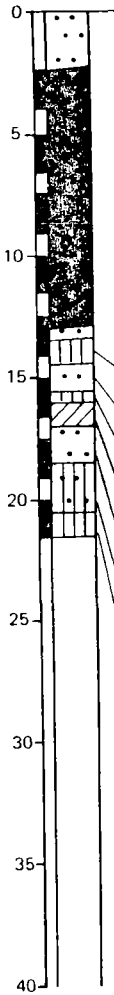
HLA PLATE **A15**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED	DATE
JGL	919,032.01		10/84		

919 032 0015

Equipment 12" Hollow Stem Auger

Elevation 295.3 Date 7/7/84



Blows/foot	Depth (ft) Sample	LEVEL A pH	Conductivity (µmhos)	Volatiles Peak (ppm)	DOWNHOLE FLUX CHAMBER Total Hydrocarbon Peak (ppm)	Benzene Peak (ppm)	SO_2 Peak (ppm)	LEVEL B Oil and Grease (µg/g)	Lead (µg/g)	Total Phenolics (µg/g)	Percent Carbon	Percent Hydrogen	Percent Oxygen	Percent Nitrogen	Percent Sulfur	Percent Volatile Matter	Depth (ft)
9		7.4	500	0.8		NONE		----	---	---	---	---	---	---	---	---	
5	5	3.8	300	1.4				370000	3870	1.8	38.39	6.91	0.09	0.11	0.98	39.89	5
9		6.3	250	0.3				----	---	---	---	---	---	---	---	---	
4	10	2.2	350	14.3				210000	11000	7.6	25.63	4.78	31.98	0.1	2.83	20.49	10
41		3.4	125	8.6				----	---	---	---	---	---	---	---	---	
34	15	3.7	90	4.5				65000	6.2	0.4	4.32	1.56	9.43	0.02	0.2	5.52	15
44		5.8	50	4.1				----	---	---	---	---	---	---	---	---	
25	20	7.7	80	0.9				----	---	---	---	---	---	---	---	---	20

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Log of Boring 15
Purity Oil Sales Remedial Investigation
Fresno, California

PLATE **A16**

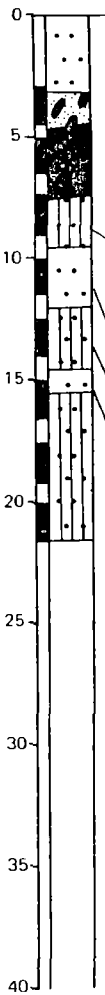
DRAWN	JOB NUMBER	APPROVED	DATE	REVISED	DATE
JGL	919 032 01		10/84		

919 032 0016

4112

Equipment 12" Hollow Stem Auger

Elevation 296.1 Date 7/7/84



Blows/foot	Depth (ft) Sample	Description	LEVEL A pH	LEVEL A Conductivity (µmhos)	LEVEL A Volatiles Peak (ppm)	DOWNHOLE FLUX CHAMBER Total Hydrocarbon Peak (ppm)	DOWNHOLE FLUX CHAMBER Benzene Peak (ppm)	DOWNHOLE FLUX CHAMBER SO_2 Peak (ppm)	LEVEL B Oil and Grease (µg/g)	LEVEL B Lead (µg/g)	LEVEL B Total Phenolics (µg/g)	LEVEL B Percent Carbon	LEVEL B Percent Hydrogen	LEVEL B Percent Oxygen	LEVEL B Percent Nitrogen	LEVEL B Percent Sulfur	LEVEL B Percent Volatile Matter	Depth (ft)
	0	LIGHT YELLOW BROWN GRAVELLY SAND (SP) (10 YR 6/4) medium dense, dry, fill, concrete																
32		DARK BROWN AND BLACK SANDY GRAVEL (GP) (2 5 YR 2/0) dense, moist, fill, oil stained	2.5	200	0.3		NONE		----	---	---	---	---	---	---	---	---	
28	5		1.9	700	5.3				210000	10000	0.86	34.95	6.74	29.69	0.25	2.7	65.31	5
8		BLACK TARRY SLUDGE (2.5 Y 2/0) stiff, moist, wood, rubble	4	150	28				----	---	---	---	---	---	---	---	---	
5	10	BLACK SILTY SAND (SM) (5 Y 5/1) changing color to DARK GRAY BROWN (2.5 Y 3/2) medium dense, slightly moist very fine grained	5.6	75	21				10000	55	2.2	1 07	0.62	6.03	0.03	0.95	3 02	10
11			5.7	100	5.3				----	---	---	---	---	---	---	---	---	
26	15	VERY DARK GRAY SAND (SP) (5 Y 2.5/1) loose, slightly moist	5.3	60	39				----	---	---	---	---	---	---	---	---	15
49		DARK GRAY SILTY SAND (SM) (5 Y 4/1) loose, slightly moist	5.5	50	17				----	---	---	---	---	---	---	---	---	
30	20	DARK GRAY SAND (SP) (2 5 Y 3/0) medium dense, slightly moist, cemented	5.8	35	13.2				5800	3	0.16	0.28	0.36	4.8	0 01	<0.1	0.13	20
	25	OLIVE GRAY SILTY SAND (SM) (5 Y 4/2) medium-very dense, slightly moist																
	30																	
	35																	
	40																	

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Log of Boring 16
Purity Oil Sales Remedial Investigation
Fresno, California

PLATE **A17**

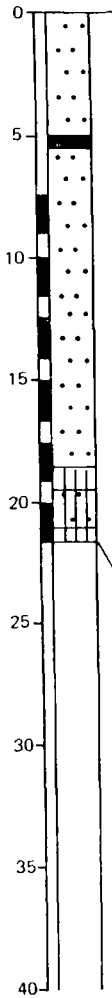
DRAWN	JOB NUMBER	APPROVED	DATE	REVISED	DATE
JGL	919,032.01		10/84		

919 032 0017

4111

Equipment 12" Hollow Stem Auger

Elevation 296.3 Date 7/9/84



Blows/foot	Depth (ft) Sample	Description	LEVEL A pH	LEVEL A Conductivity (µmhos)	LEVEL A Volatiles Peak (ppm)	DOWNHOLE FLUX CHAMBER Total Hydrocarbon Peak (ppm)	DOWNHOLE FLUX CHAMBER Benzene Peak (ppm)	DOWNHOLE FLUX CHAMBER SO_2 Peak (ppm)	LEVEL B Oil and Grease (µg/g)	LEVEL B Lead (µg/g)	LEVEL B Total Phenolics (µg/g)	LEVEL B Percent Carbon	LEVEL B Percent Hydrogen	LEVEL B Percent Oxygen	LEVEL B Percent Nitrogen	LEVEL B Percent Sulfur	LEVEL B Percent Volatile Matter	Depth (ft)
	0	YELLOW BROWN GRAVELLY SAND (SP)(10 YR 5/4) loose, dry concrete, wood																
	5	BLACK TARRY SLUDGE concrete, rubble																5
17		DARK BROWN SAND (SP) (10 YR 3/3) medium dense, slightly moist	3.3	140	6.7		NONE		45000	6.4	0.49	3.88	0.97	4.62	0.02	0.72	5.92	
	10	color changing to DARK YELLOW-BROWN (10 YR 5/4)																10
7			3.4	75	3.1				----	---	---	---	---	---	---	---	---	
8			3.4	140	1				----	---	---	---	---	---	---	---	---	
	15																	15
9		PALE BROWN SAND (SP) (10 YR 5/3) cemented	4.4	125	0.6				2700	11000	0.08	0.05	0.18	2.41	0.01	< 0.1	0.04	
50		GRAY-BROWN CLAYEY SILT (ML)(2.5 Y 5/2) hard, slightly moist	4.6	49	0.6				----	---	---	---	---	---	---	---	---	
	20																	20
44		YELLOW-BROWN SILTY SAND (SM)(10 YR 5/6) very dense, slightly moist, cemented 20.8–21.0'	6.3	75	0.5				----	---	---	---	---	---	---	---	---	
		GRAY BROWN CLAYEY SILT (ML)(2.5 Y 5/2) hard, dry																
	25																	
	30																	
	35																	
	40																	

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Log of Boring 17
Purity Oil Sales Remedial Investigation
Fresno, California

PLATE **A18**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED	DATE
JGL	919.032.01		10/84		

919 032 0018

A-102

4110

Equipment 12" Hollow Stem Auger

Elevation 294.7 Date 7/10/84

Blows/foot	Depth (ft) Sample		LEVEL A pH	LEVEL A Conductivity (µmhos)	LEVEL A Volatiles Peak (ppm)	DOWNHOLE FLUX CHAMBER Total Hydrocarbon Peak (ppm)	DOWNHOLE FLUX CHAMBER Benzene Peak (ppm)	DOWNHOLE FLUX CHAMBER SO_2 Peak (ppm)	LEVEL B Oil and Grease (µg/g)	LEVEL B Lead (µg/g)	LEVEL B Total Phenolics (µg/g)	LEVEL B Percent Carbon	LEVEL B Percent Hydrogen	LEVEL B Percent Oxygen	LEVEL B Percent Nitrogen	LEVEL B Percent Sulfur	LEVEL B Percent Volatile Matter	Depth (ft)
	0	BROWN GRAVELLY SAND (SP) loose, dry wood and concrete																
--		BLACK TARRY SLUDGE very soft, flows	1.5	2200	9.0			NONE	----	---	---	---	---	---	---	---	----	
4	5		1.1	40000	7.2				770000	17000	12	42.78	7.92	30.15	0.21	6.18	63.03	5
13		YELLOW-BROWN SAND (SP) (10 YR 5/4) medium dense, slightly moist, very fine grained changing to LIGHT OLIVE-BROWN (2.5 Y 5/4) and to BROWN (10 YR 5/3)	3.2	1500	8.0				----	---	---	---	---	---	---	---	----	
28	10		4.2	800	10.1				44000	3.2	< 0.05	3.36	1.17	4.96	0.01	0.47	2.99	10
23		LIGHT BROWN-GRAY CLAYEY SILT (ML)(2.5 Y 6/2) hard, slightly moist	3.7	700	1.2				----	---	---	---	---	---	---	---	---	
21	15	OLIVE SAND (SP)(5 Y 5.5/6) medium dense, slightly moist	4.4	700	0.6				----	---	---	---	---	---	---	---	---	15
66		GRAY SILT (ML)(5 Y 5/1) very stiff, slightly moist, cemented 15.5 to 16.0	3.8	800	0.5				4400	3.3	< 0.05	0.05	0.78	5.33	< 0.01	< 0.1	< 0.01	
58	20	YELLOW-BROWN SILTY SAND (SM)(10 YR 5/6) very dense, slightly moist, fine grained	4.1	775	1.1				----	---	---	---	---	---	---	---	---	20
		YELLOW-BROWN SAND (SP) (10 YR 5/6) very dense, slightly moist, cemented																
	25																	
	30																	
	35																	
	40																	

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Log of Boring 18
Purity Oil Sales Remedial Investigation
Fresno, California

PLATE **A19**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED	DATE
JGL	919.032.01		10/84		

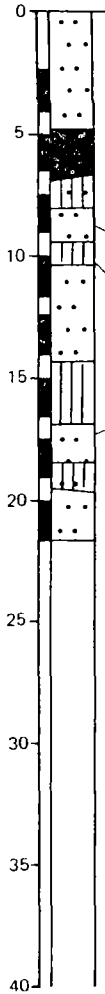
919 032 0019

A-102

4109

Equipment 12" Hollow Stem Auger

Elevation 295.7 Date 7/10/84



Blows/foot	Depth (ft) Sample	Description	LEVEL A pH	LEVEL A Conductivity (µmhos)	LEVEL A Volatiles Peak (ppm)	DOWNHOLE FLUX CHAMBER Total Hydrocarbon Peak (ppm)	DOWNHOLE FLUX CHAMBER Benzene Peak (ppm)	DOWNHOLE FLUX CHAMBER SO_2 Peak (ppm)	LEVEL B Oil and Grease (µg/g)	LEVEL B Lead (µg/g)	LEVEL B Total Phenolics (µg/g)	LEVEL B Percent Carbon	LEVEL B Percent Hydrogen	LEVEL B Percent Oxygen	LEVEL B Percent Nitrogen	LEVEL B Percent Sulfur	LEVEL B Percent Volatile Matter	Depth (ft)
10	0	BROWN GRAVELLY SAND (SP)(10 YR 5/3) dense, dry, concrete rubble	7.1	1700	4		NONE		----	---	---	---	---	---	---	---	---	
--	5	BLACK TARRY SLUDGE (2.5 YR 2/0) soft, wet	0.7	9000	17				410000	70	5.7	39.41	7.58	31.02	0.24	4.45	59.07	5
8		DARK BROWN SILTY SAND (SM)(7.5 YR 3/2) medium dense, slightly moist, waste	2.9	560	10				----	---	---	---	---	---	---	---	---	
10	10	BROWN SAND (SP)(10 YR 5/3) medium dense, slightly moist, very fine	6.7	650	1.7				4000	2.1	0.09	0.41	0.73	9.29	0.02	0.26	< 0.01	10
8		OLIVE GRAY CLAYEY SILT (ML)(5 Y 5/2) stiff, dry																
9	15	BROWN SAND (SP)(10 YR 5/3) medium dense, slightly moist color changing to LIGHT BROWN-GRAY (2.5 Y 6/2)	7.7	460	1				----	---	---	---	---	---	---	---	---	15
38		GRAY-BROWN CLAYEY SILT (ML)(2.5 Y 5/2) stiff, moist	7.7	900	0.9				----	---	---	---	---	---	---	---	---	
--	20	YELLOW-BROWN SAND (SP) (10 YR 5/4) dense, moist, fine grained	7.7	560	0.9				----	---	---	---	---	---	---	---	---	
		DARK YELLOW-BROWN SILTY SAND (SM)(10 YR 4/6) dense, moist, fine sand																
		YELLOW-BROWN SAND (SP) (10 YR 5/4) very dense, slightly moist, cemented	7.8	450	0.9				2700	3.2	< 0.05	0.06	0.32	4.42	0.01	< 0.1	0.78	20

25

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35

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Log of Boring 19
Purity Oil Sales Remedial Investigation
Fresno, California

PLATE **A20**

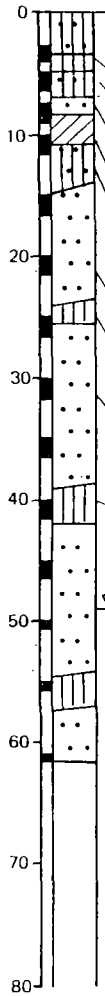
DRAWN	JOB NUMBER	APPROVED	DATE	REVISED	DATE
JGL	919.032.01		10/84		

919 032 0020

4108

Equipment 12" Hollow Stem Auger

Elevation 291.5 Date 7/12/84



Blows/foot	Depth (ft) Sample	Description	LEVEL A pH	LEVEL A Conductivity (µmhos)	LEVEL A Volatiles Peak (ppm)	DOWNHOLE FLUX CHAMBER Total Hydrocarbon Peak (ppm)	DOWNHOLE FLUX CHAMBER Benzene Peak (ppm)	DOWNHOLE FLUX CHAMBER SO_2 Peak (ppm)	LEVEL B Oil and Grease (µg/g)	LEVEL B Lead (µg/g)	LEVEL B Total Phenolics (µg/g)	LEVEL B Percent Carbon	LEVEL B Percent Hydrogen	LEVEL B Percent Oxygen	LEVEL B Percent Nitrogen	LEVEL B Percent Sulfur	LEVEL B Percent Volatile Matter	Depth (ft)
20	0	DARK BROWN SILTY SAND (SM)(10 Y 3/1) loose, dry, moist below 1.5'	9	850	32		NONE		71000	70	0.26	4.33	0.8	5.87	0.06	0.1	5.71	
10		DARK GRAY-BROWN SILT (ML)(2.5 R 4/2) moist	9.1	140	17				----	---	----	---	---	---	---	---	----	
16		OLIVE BROWN SILTY SAND (SM)(2.5 Y 4/4) medium dense, moist	4.5	50	34				----	---	----	---	---	---	---	---	---	
41	10	GRAY-BROWN SAND (SP) (2.5 Y 5/2) medium dense, slightly moist	4.0	65	31.3				30000	3.7	0.28	1.54	1.47	11.8	0.01	0.46	3.92	10
16		LIGHT OLIVE GRAY SILTY CLAY (CL)(5 Y 6/2) stiff, dry	8.8	125	4.1				----	---	----	---	---	---	---	---	----	
22	20	YELLOW-BROWN SILTY SAND (SM)(10 YR 5/6) medium dense, slightly moist	4.8	240	1.6				2400	6.7	0.07	0.11	0.31	3.15	0.01	< 0.1	< 0.01	20
40		LIGHT BROWN-GRAY SAND (SP)(2.5 Y 6/2) medium dense, slightly moist, fine grained	4	310	2.9				----	---	----	---	---	---	---	---	----	
20	30	GRAY-BROWN CLAYEY SILT (ML)(2.5 Y 5/2) very stiff, slightly moist, fine grained	4.4	500	1.9				1600	2.7	< 0.05	0.08	0.53	7.18	0.01	< 0.1	0.92	30
29		GRAY SAND (SP)(5 Y 6/1) very dense, slightly moist, fine to medium grained color changing to LIGHT YELLOW-BROWN	4.1	500	2.7				----	---	----	---	---	---	---	---	----	
32	40	GRAY-BROWN SANDY SILT (ML) (2.5 Y 5/2) very stiff, slightly moist	3.8	1000	11.9				1400	1.2	< 0.09	0.11	1.49	13.94	0.01	0.13	1.[illegible]	40
28		LIGHT OLIVE BROWN SAND (SP)(2.5 Y 5/4) dense, saturated, fine grained, color changing to OLIVE GRAY (SP)	3.6	1300	14				440	1.8	0.16	0.06	1.35	13.08	0.01	< 0.1	< 0.01	
--	50																	50
--		BROWN SANDY SILT (ML) (10 YR 5/3) very stiff, saturated																
--	60	GRAY SAND (SP)(5 Y 5/1) loose, saturated, fine grained																
	70																	
	80																	

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Log of Boring 20
Purity Oil Sales Remedial Investigation
Fresno, California

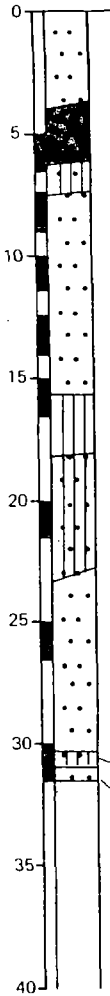
PLATE **A21**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED	DATE
JGL	919.032.01		10/84		

4107

Equipment 12" Hollow Stem Auger

Elevation 296.6 Date 7/18/84



Blows/foot	Depth (ft) Sample	Description	LEVEL A pH	LEVEL A Conductivity (µmhos)	LEVEL A Volatiles Peak (ppm)	DOWNHOLE FLUX CHAMBER Total Hydrocarbon Peak (ppm)	DOWNHOLE FLUX CHAMBER Benzene Peak (ppm)	DOWNHOLE FLUX CHAMBER SO_2 Peak (ppm)	LEVEL B Oil and Grease (µg/g)	LEVEL B Lead (µg/g)	LEVEL B Total Phenolics (µg/g)	LEVEL B Percent Carbon	LEVEL B Percent Hydrogen	LEVEL B Percent Oxygen	LEVEL B Percent Nitrogen	LEVEL B Percent Sulfur	LEVEL B Percent Volatile Matter	Depth (ft)
	0	DARK BROWN GRAVELLY SAND (SP)(10 Y 3/3) dense, slightly moist, concrete																
	5	BLACK TARRY SLUDGE (2.5 Y 2/0) soft, moist																5
5		DARK BROWN SILTY SAND (SP)(10 Y 3/3)	4.5	2000	1.2			NONE	170000	1900	2.1	9.89	2.01	14.6	0.09	0.91	16.04	
48		DARK BROWN SAND (SP)(10 Y 3/1) very dense, slightly moist	1.2	525	26				55000	970	2.3	5.16	2.24	19.72	0.08	5.16	18.61	
	10	color changing to LIGHT BROWN GRAY (2.5 Y 6/2) dense, dry, cemented																10
7			4.9	140	31				15000	< 10	1.5	---	---	---	---	---	---	
8		VERY DARK GRAY (5 Y 3/1) loose, slightly moist	5.5	70	24				11000	< 10	0.47	---	---	---	---	---	---	
	15	GRAY (5 Y 5/1) VERY DARK GRAY SAND (5 Y 3/1), medium dense																15
29			5.8	110	11.8				15000	< 10	1.0	---	---	---	---	---	---	
		GRAY CLAYEY SILT (ML) (5 Y 5/1) very stiff, slightly moist, black laminations																
	20	GRAY-BROWN SILTY SAND (SM)(2.5 Y 5/2) medium dense, moist, fine grained																20
18			6.6	45	5.1				6800	< 10	0.15	---	---	---	---	---	---	
		OLIVE GRAY SAND (SP) (5 Y 5/2) medium dense, moist, fine grained																
	25																	25
12			6.6	32	9.2				11000	< 10	0.24	---	---	---	---	---	---	
	30	color changing to LIGHT GRAY (5 Y 6/1)																30
18		DARK GRAY SILTY SAND (SM)(SM) (5 Y 4/1) cemented	6.2	26	0.5				< 100	< 10	< 0.05	---	---	---	---	---	---	
		LIGHT GRAY SAND (SP) (5 Y 6/1) medium dense, slightly moist, fine grained																
	35																	
	40																	

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Log of Boring 21
Purity Oil Sales Remedial Investigation
Fresno, California

PLATE **A22**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED	DATE
JGL	919.032.01		10/84		

919 032 0022

4106

Equipment 12" Hollow Stem Auger

Elevation 297.0 Date 7/20/84

Blows/foot	Depth (ft) Sample	Description	LEVEL A pH	LEVEL A Conductivity (µmhos)	LEVEL A Volatiles Peak (ppm)	DOWNHOLE FLUX CHAMBER Total Hydrocarbon Peak (ppm)	DOWNHOLE FLUX CHAMBER Benzene Peak (ppm)	DOWNHOLE FLUX CHAMBER SO_2 Peak (ppm)	LEVEL B Oil and Grease (µg/g)	LEVEL B Lead (µg/g)	LEVEL B Total Phenolics (µg/g)	LEVEL B Percent Carbon	LEVEL B Percent Hydrogen	LEVEL B Percent Oxygen	LEVEL B Percent Nitrogen	LEVEL B Percent Sulfur	LEVEL B Percent Volatile Matter	Depth (ft)
	0																	
33		DARK BROWN GRAVELLY SAND (SP)(10 Y 4/3) dense, dry, color changing to DARK GRAY-BROWN (2.5 Y 2/0), slightly moist, waste, bricks, concrete	8.3	350	2.8		NONE		25000	450	0.4	---	---	---	---	---	---	
	5																	5
28		BLACK TARRY SLUDGE (2.5 Y 2/0) medium stiff, moist, rubble to 6.7 feet, waste	2.5	460	7.7				100000	7440	6.0	10.18	3.2	19.6	0.09	1.31	13.88	
18			6.8	425	26				160000	10000	49	---	---	---	---	---	---	
	10																	10
8		BLACK SAND (SP)(2.5 Y 2/0) loose, slightly moist, waste	8.3	80	48				8300	160	1.3	---	---	---	---	---	---	
11		color changing to DARK OLIVE GRAY (5 Y 3/2), medium dense, slightly moist, fine grained and OLIVE GRAY (2.5 Y 5/2)	8.2	100	9.1				< 100	< 10	0.27	---	---	---	---	---	---	
	15																	15
19		OLIVE GRAY CLAYEY SILT (ML)(5 Y 5/2) very stiff, slightly moist	7.4	125	17.9				1500	< 10	0.14	---	---	---	---	---	---	
	20																	20
35		DARK OLIVE GRAY SAND (SP)(5 Y 3/2) dense, slightly moist	6.5	55	19.3				22000	< 10	0.79	---	---	---	---	---	---	
	25																	25
20		color changing to OLIVE GRAY (5 Y 5/2)	8.1	75	9.7				< 100	< 10	0.26	---	---	---	---	---	---	
		OLIVE GRAY CLAYEY SILT (ML)(5 Y 5/2) hard, dry																
		OLIVE GRAY SAND (SP)(5 Y 5/2) medium dense, slightly moist, color changing to LIGHT GRAY (5 Y 6/1) medium dense, slightly moist, fine grained																
	30																	30
18			8	30	19.5				1100	< 10	< 0.05	---	---	---	---	---	---	
	35																	
	40																	

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Log of Boring 22
Purity Oil Sales Remedial Investigation
Fresno, California

PLATE **A23**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED	DATE
JGL	919,032.01		10/84		

919 032 0023

4105

B23

Equipment 12" Hollow Stem Auger

Elevation 294.0 Date 7/20/84

Blows/foot	Depth (ft) Sample	Description	LEVEL A pH	LEVEL A Conductivity (µmhos)	LEVEL A Volatiles Peak (ppm)	DOWNHOLE FLUX CHAMBER Total Hydrocarbon Peak (ppm)	DOWNHOLE FLUX CHAMBER Benzene Peak (ppm)	DOWNHOLE FLUX CHAMBER SO_2 Peak (ppm)	LEVEL B Oil and Grease (µg/g)	LEVEL B Lead (µg/g)	LEVEL B Total Phenolics (µg/g)	LEVEL B Percent Carbon	LEVEL B Percent Hydrogen	LEVEL B Percent Oxygen	LEVEL B Percent Nitrogen	LEVEL B Percent Sulfur	LEVEL B Percent Volatile Matter	Depth (ft)
	0	DARK BROWN GRAVELLY SAND (SP)(10 Y 3/3) dense, dry																
15		BLACK SILTY SAND (SM) (2.5 Y 2/0) medium dense, moist, waste, bricks, wood, plastic hose	8.1	200	6.4		NONE		12000	< 10	0.15	---	---	---	---	---	---	
57	5	BLACK TARRY SLUDGE (2.5 Y 2/0) soft to stiff, saturated, flows, rubble	1.6	225	49				100000	10000	2.4	9.89	1.61	6.07	0.11	0.27	12.14	5
5		BLACK TARRY SLUDGE AND DARK OLIVE GRAY SILTY SAND (SM) soft, wet	4.2	110	20				320000	930	1.7	9.03	1.95	8.38	0.09	0.4	14.11	
60	10	DARK BROWN CLAYEY SILT (ML)(10 Y 4/3) hard, dry, color changing to OLIVE GRAY and DARK GRAY BROWN	2.3	110	10				33500	1700	0.79	5.39	1.81	27.38	0.07	5.37	21.05	10
30			1.5	120	26				93000	87	15	---	---	---	---	---	---	
16	15	LIGHT BROWN-GRAY SAND (SP)(2.5 Y 6/2)	8.9	110	13				21000	< 10	3.6	---	---	---	---	---	---	15
		DARK OLIVE GRAY SILT (ML) (5 Y 5/2) slightly moist, very fine grained																
30	20	VERY DARK GRAY-BROWN SAND (SP)(2.5 Y 3/2) dense, slightly moist, cemented color changing to OLIVE GRAY (5 Y 4/2) fine grained	8.1	100	21				16000	< 10	3.3	---	---	---	---	---	---	20
15	25		8.9	120	2				500	< 10	1.6	---	---	---	---	---	---	25
15	30	color changing to DARK GRAY (2.5 Y 4/0)	9	100	2.3				1400	< 10	1.1	---	---	---	---	---	---	30
	35																	
	40																	

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Log of Boring 23
Purity Oil Sales Remedial Investigation
Fresno, California

PLATE A24

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED	DATE
JGL	919.032.01		10/84		

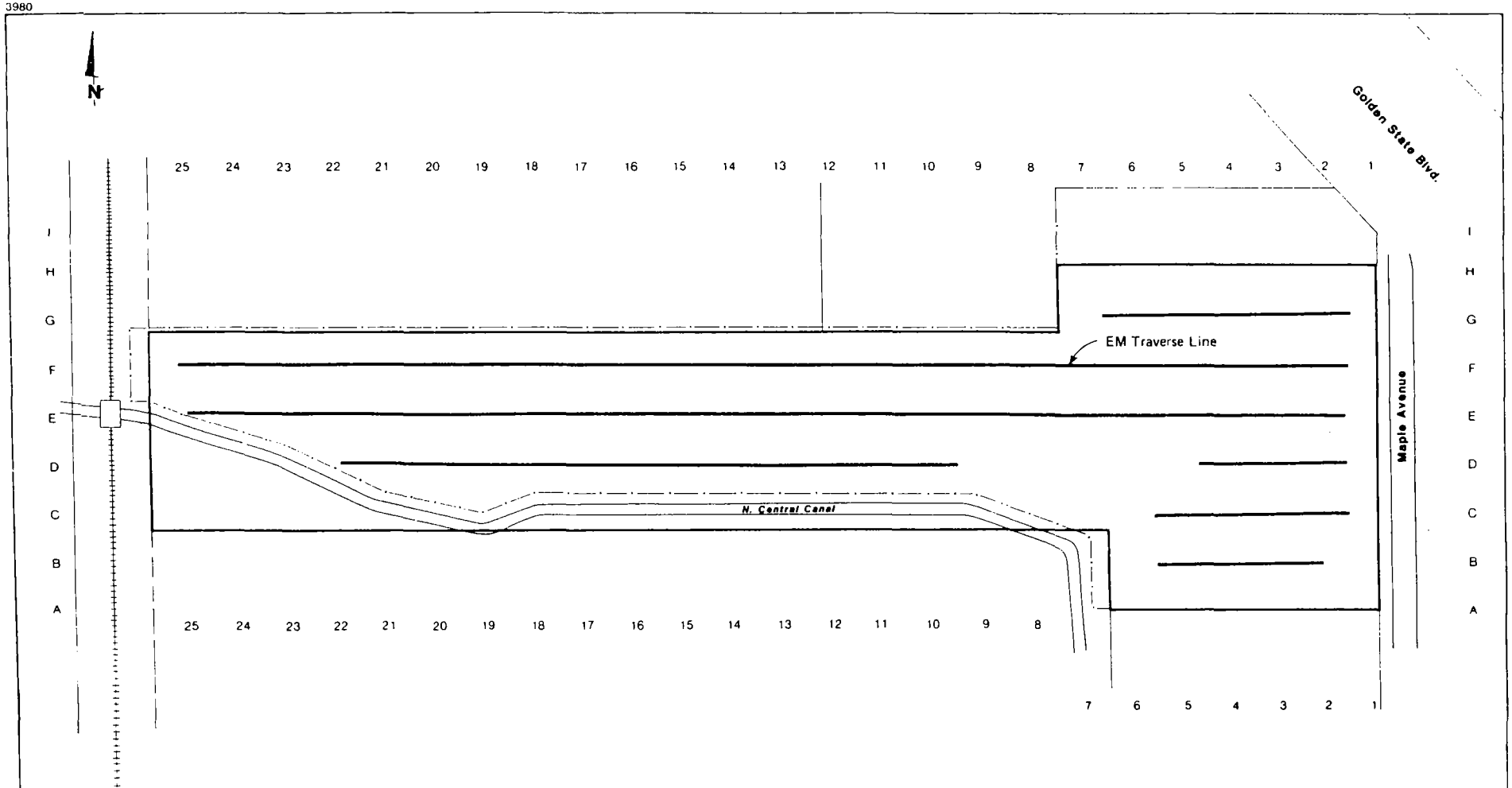
919 032 0024

Appendix B
GEOPHYSICAL EXPLORATION LOCATIONS

Appendix B
GEOPHYSICAL EXPLORATION LOCATIONS

This appendix contains the geophysical survey location and result figures. The geophysical surveys were conducted by HLA during the 1984 remedial investigation. A discussion of the survey methods and results is included in Volume 1, Sections 3 and 4, respectively. Figures in this appendix were taken from HLA's 1984 RI Report.

3980



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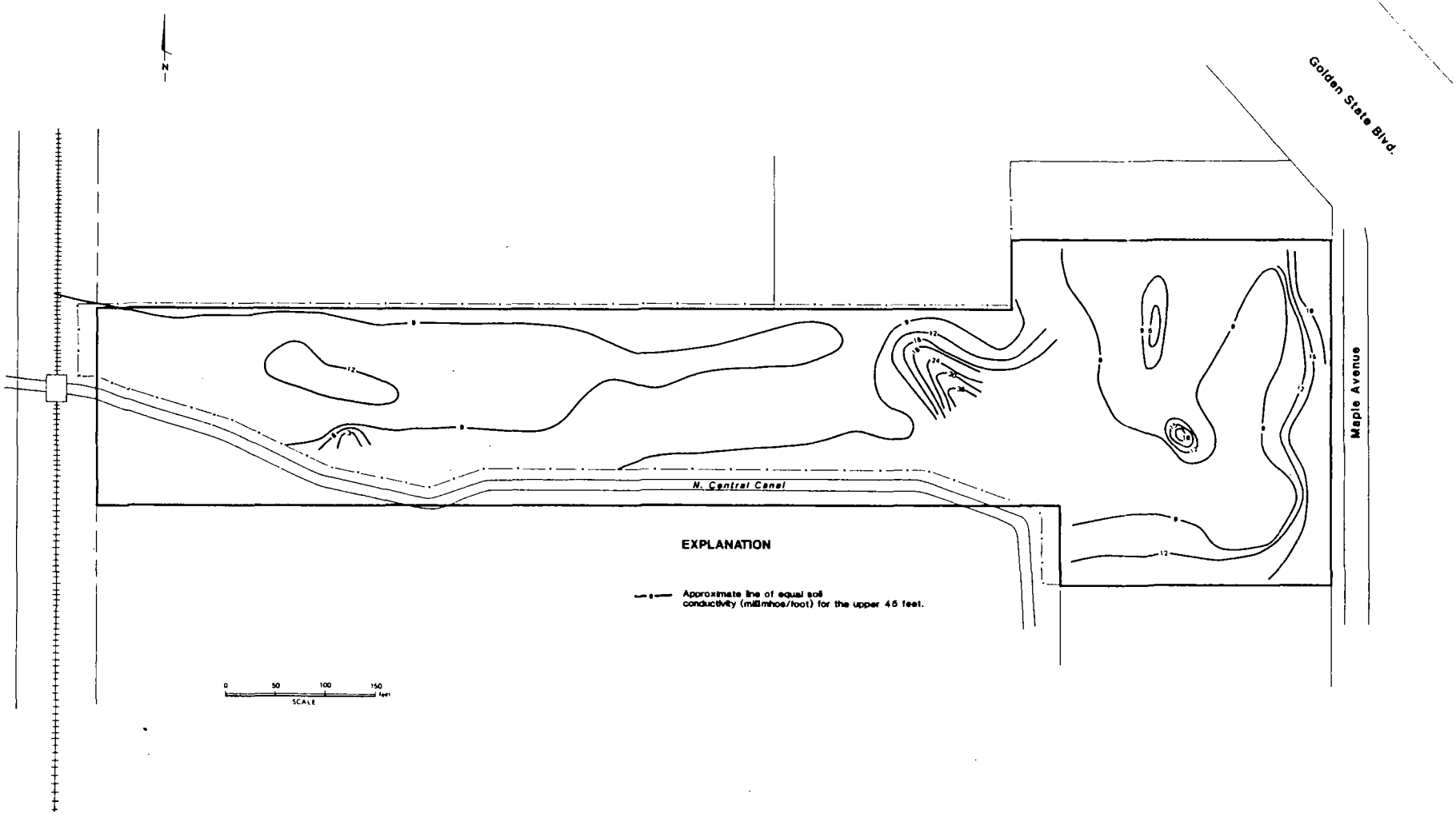
Electromagnetic Conductivity Survey Lines
Purity Oil Sales Remedial Investigation
Fresno, California

PLATE **2.13-2**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED	DATE
PM	919.032 01		3/86		

3914



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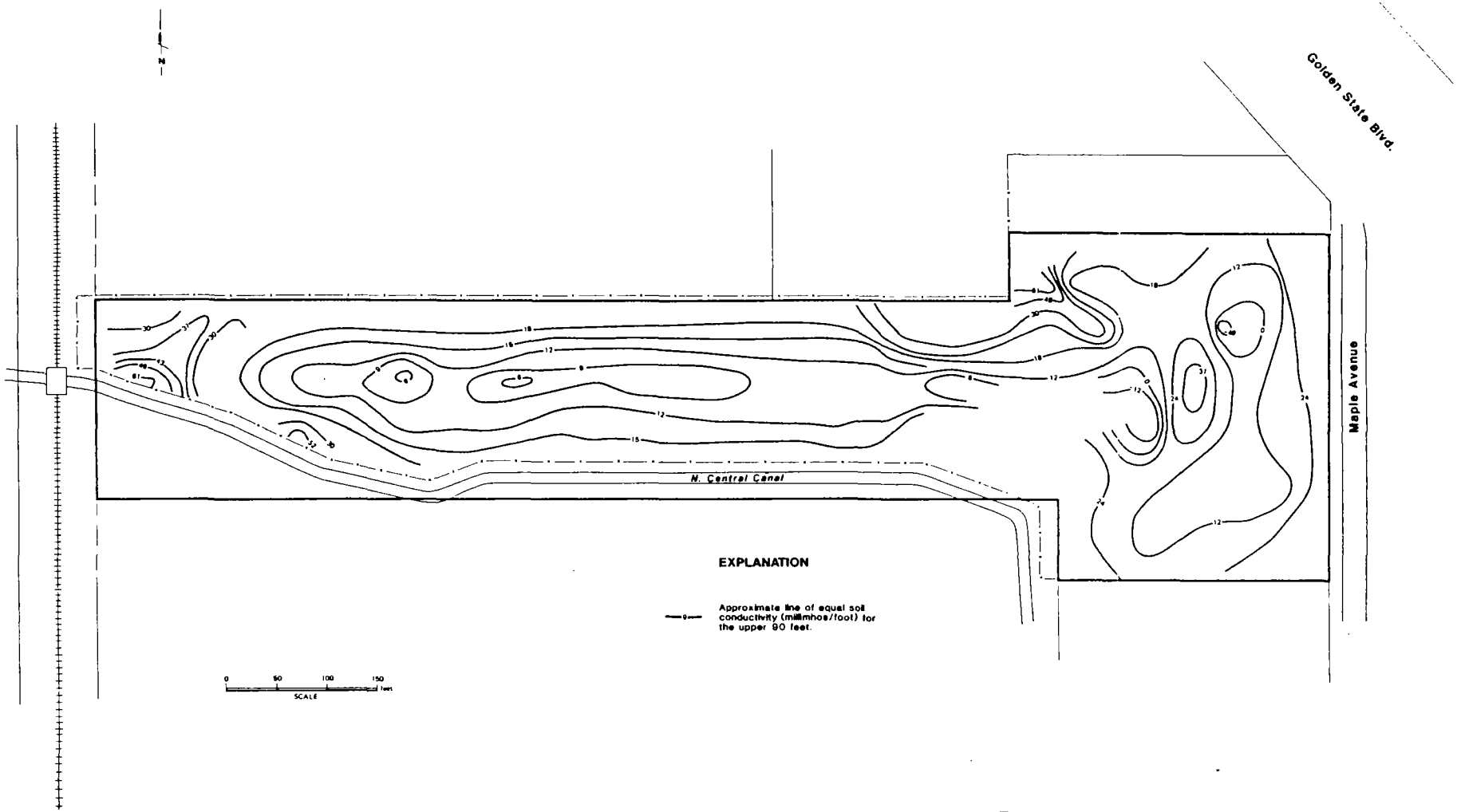
EM Results - Horizontal Dipole
Purity Oil Sales Remedial Investigation
Fresno, California

PLATE **6.7-3**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED	DATE
JLB	919,032.01	JDW	9/84		

3915



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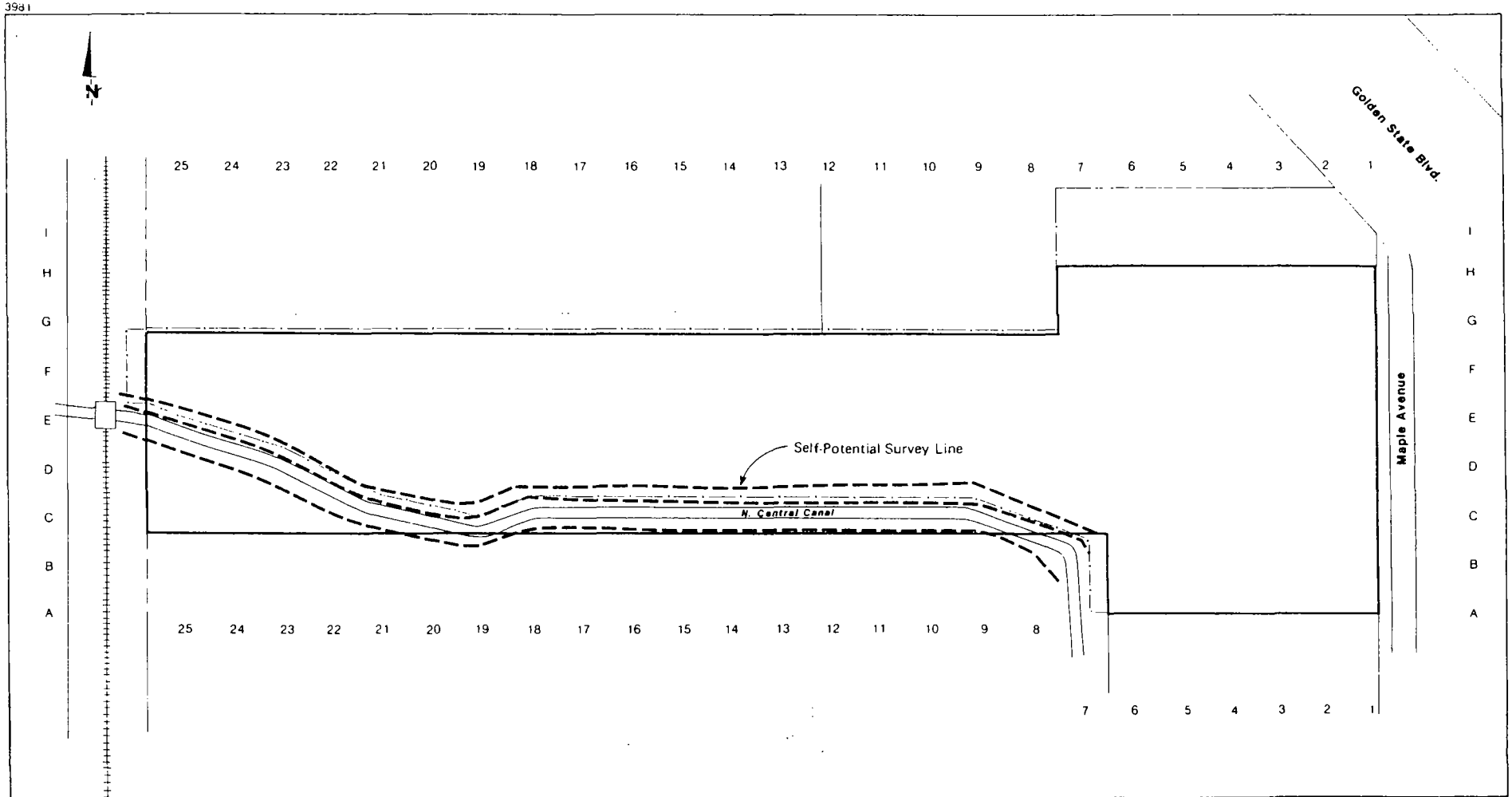
EM Results - Vertical Dipole
Purity Oil Sales Remedial Investigation
Fresno, California

PLATE **6.7-4**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED	DATE
JLB	919,032.01		9/84		

3981



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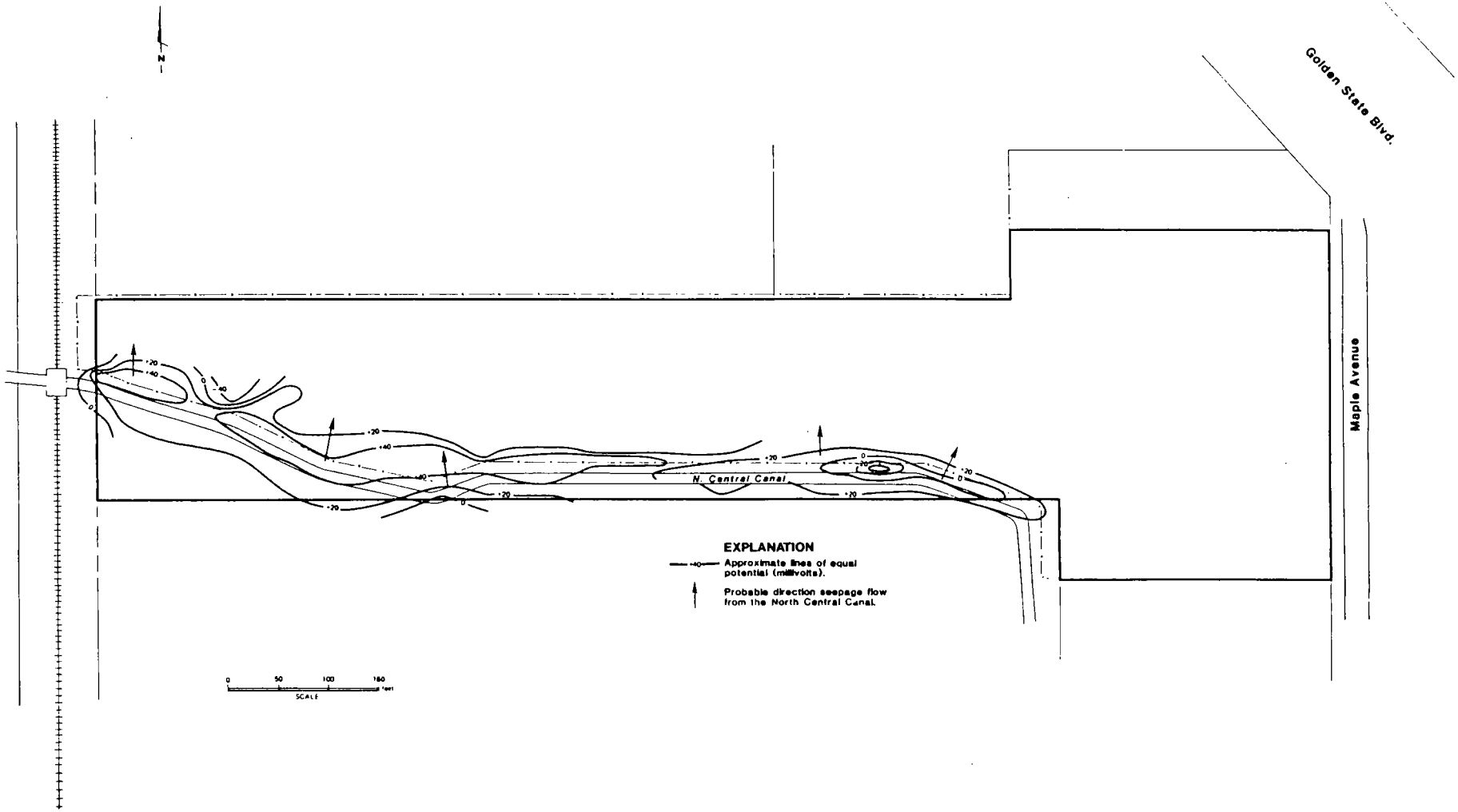
Self-Potential Survey Lines
Purity Oil Sales Remedial Investigation
Fresno, California

PLATE **2.13-3**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED	DATE
PM	919.032.01	JBW	3/86		

3916



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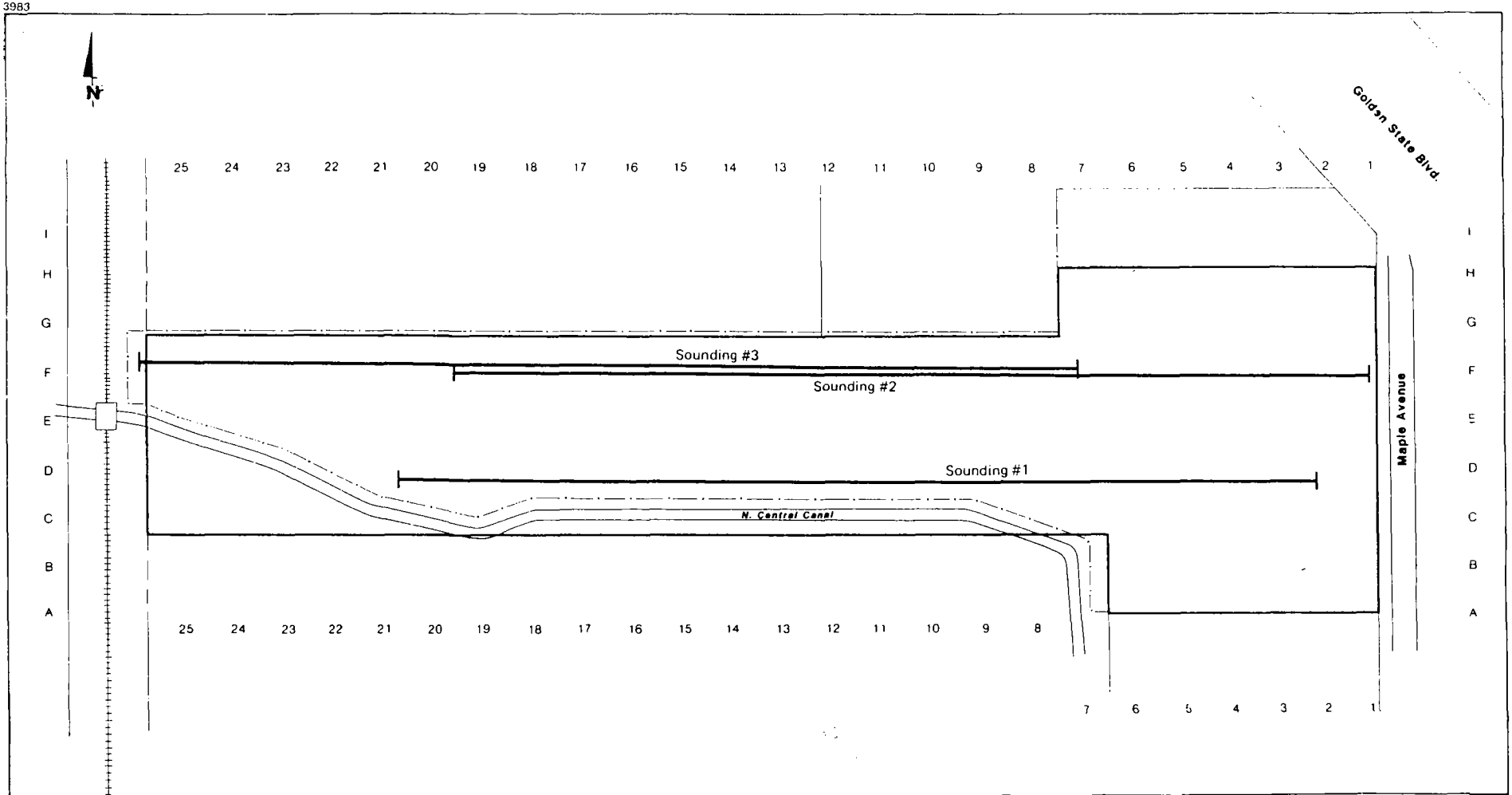
Self - Potential Contour Map
Purity Oil Sales Remedial Investigation
Fresno, California

PLATE **6.7-5**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED	DATE
JLB	919,032.01	JSW	9/84		

3983



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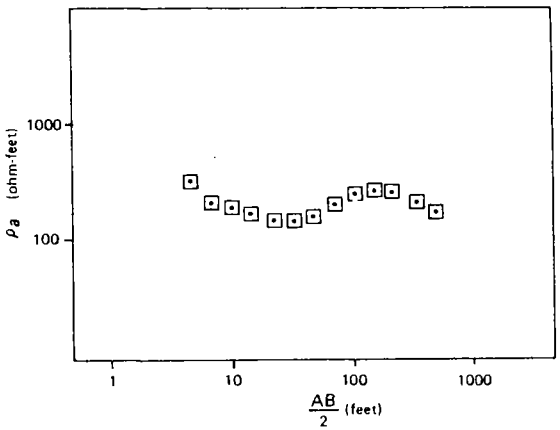
Location of Vertical Electric Sounding Lines
Purity Oil Sales Remedial Investigation
Fresno, California

PLATE **2.13-4**

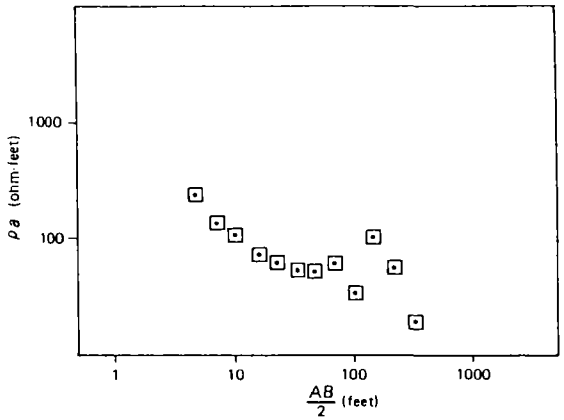
DRAWN	JOB NUMBER	APPROVED	DATE	REVISED	DATE
PM	919,032.01		3/86		

4082

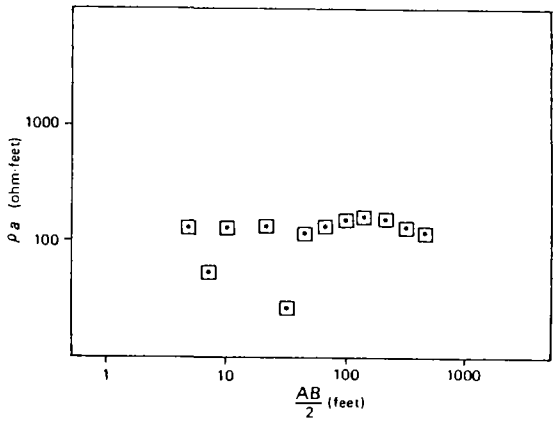
SOUNDING 1



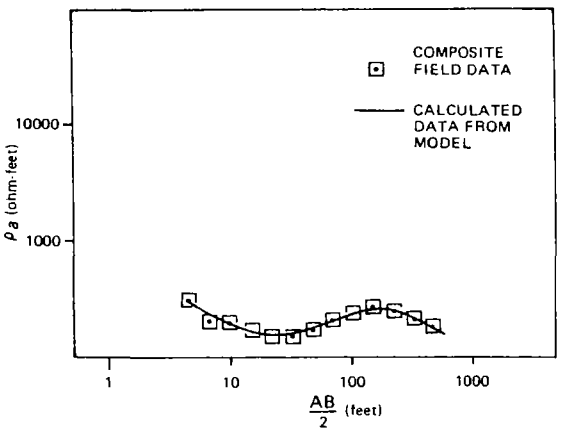
SOUNDING 2



SOUNDING 3



SCHLUMBERGER INVERSION RESULTS
COMPOSITE SOUNDING



GENERALIZED GEOLOGIC INTERPRETATION

DESCRIPTION	RESISTIVITY	DEPTH	RANGE
Dry surface soil	431	2.5	---
Waste/contaminated soil	147	42	40 44
Saturated soil	654	99	66 107
Conductive layer (High clay content and/or water quality variation)	113	150	

Not to scale

EXPLANATION

Soundings 1–3	Graphical results of VES soundings using a Schlumberger array.
Composite Sounding	Graphical result of a composite (Soundings 1–3) VES sounding.
AB	Current electrode spacing
ρa	Apparent resistivity

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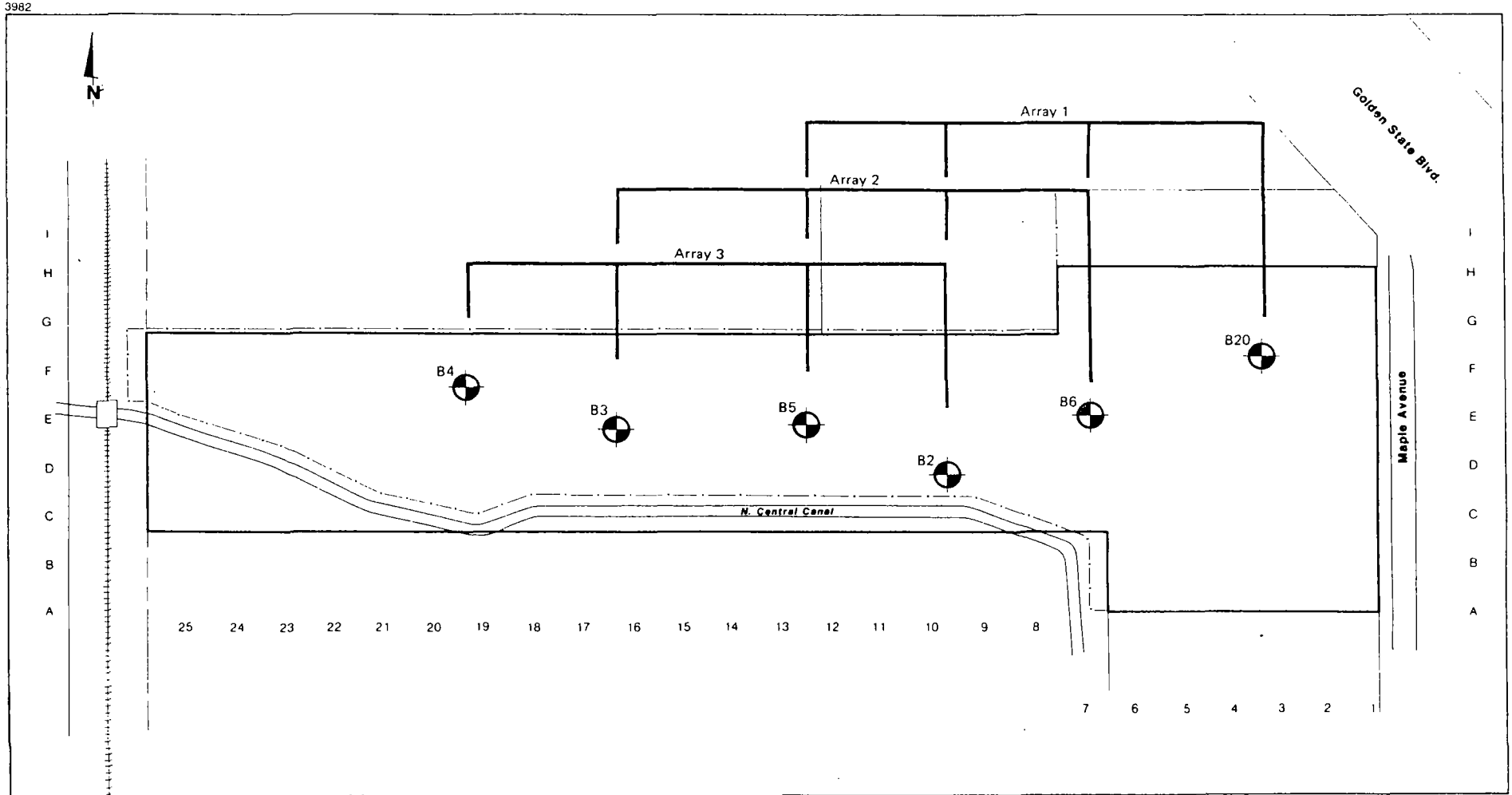
Vertical Electric Sounding Data
Purity Oil Sales Remedial Investigation
Fresno, California

PLATE 6.7-6

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED	DATE
JLB	919,032.01		9/84		

919.032.0040

3982



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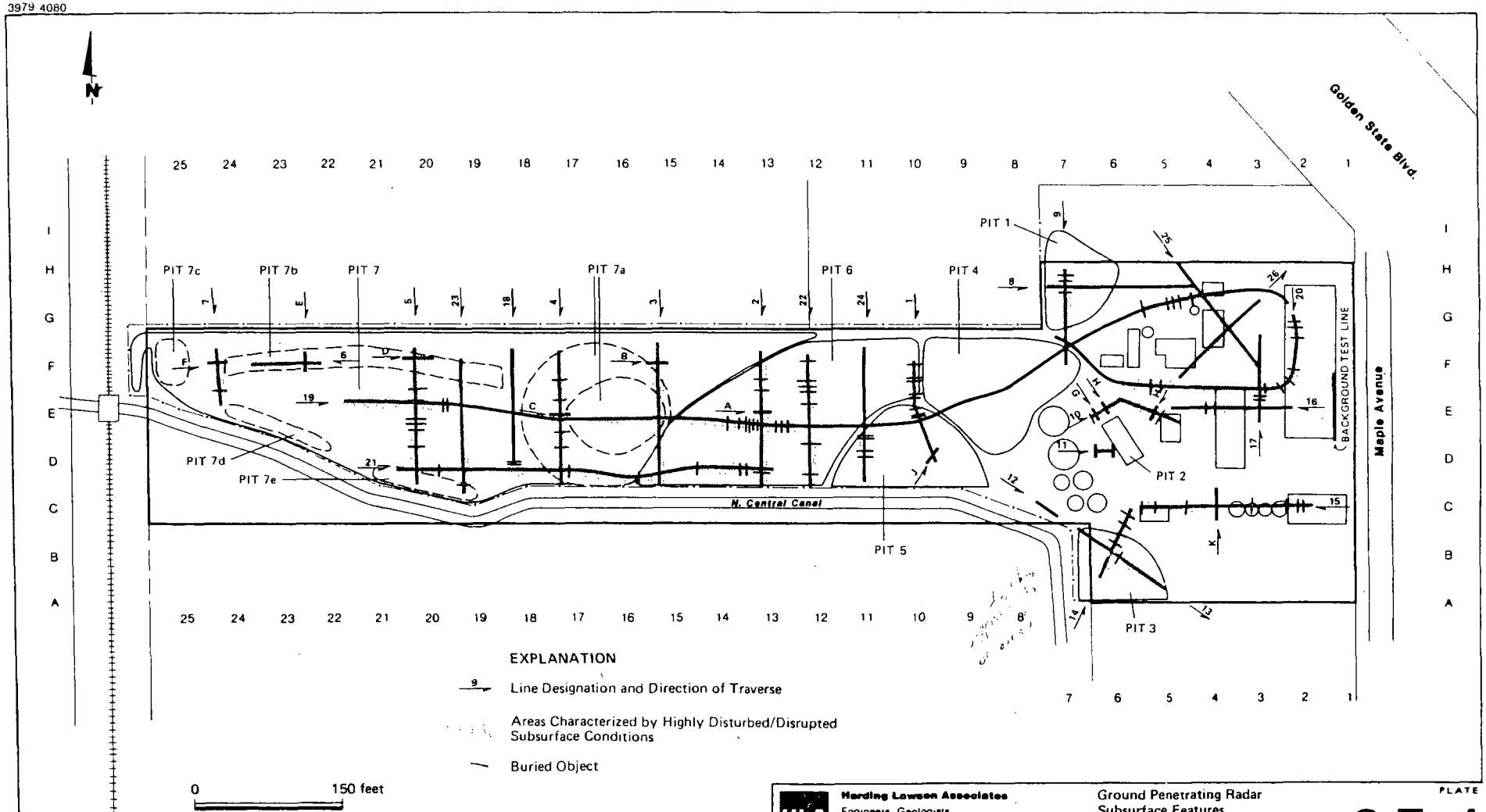
Borehole and Cross-Hole Resistivity Locations
Purity Oil Sales Remedial Investigation
Fresno, California

PLATE **2.13-5**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED	DATE
PM	919,032.01		3/86		

3979 4080



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Ground Penetrating Radar Subsurface Features
Purity Oil Sales Remedial Investigation
Fresno, California

PLATE **6.7-1**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED	DATE
PM	919,032.01		3/86		

Appendix C
SOIL SAMPLING CHEMICAL RESULTS

Appendix C
SOIL SAMPLING CHEMICAL RESULTS

The data in this appendix have been sorted by their source--CH2M HILL or Harding Lawson, and tables are presented corresponding to sample source and analysis procedure as follows:

CH2M HILL Data:

- o Tank Samples
  - Table C-1--EP Toxicity Results
  - Table C-2--Inorganic Analysis Results
  - Table C-3--HSL Organic Compounds
  - Table C-4--Miscellaneous Parameters
- o Surface and Canal Samples
  - Table C-5--EP Toxicity Results
  - Table C-6--Inorganic Analysis Results
  - Table C-7--HSL Organic Compounds
  - Table C-8--Miscellaneous Parameters
- o Shallow Boring Samples
  - Table C-9--EP Toxicity Results
  - Table C-10--Inorganic Analysis Results
  - Table C-11--HSL Organic Compounds
  - Table C-12--HSL Inorganic Compounds
  - Table C-13--Miscellaneous Parameters

Harding Lawson Data:

- o Surface and Canal Samples
  - Table C-14--Inorganic Analysis Results
  - Table C-15--Organic Analysis Results
- o Shallow Boring Samples
  - Table C-16--Inorganic Analysis Results
  - Table C-17--Organic Compounds

Figures showing sampling locations are found in Figures 3-1 through 3-5 in Volume 1. The location labeling has been organized as follows:

CH2M HILL DATA

T = tank samples
SS = surface sample
CS = canal sample
SB = shallow boring
SBB = shallow boring background sample
SBP = shallow boring perimeter sample
ABP = auger boring perimeter sample
D = duplicate sample
CRQL = contract requires quantitation limit
CRDL = contract required detection limit
IDL = instrument detection limit
MDL = method detection limit
HSL = Hazardous Substance List

HARDING LAWSON DATA

C = canal samples
B = shallow soil borings
HLA = surface samples

Qualifiers and validity parameters are given by analytical labs and by data reviewers. The parameters are listed along with the data and may be interpreted as follows:

Qualifiers:

U = The parameter was analyzed for but not detected above the concentration listed.

P = Value above method detection limit but below contract required quantitation limit.

g = Value adjusted by reviewer after reevaluation of raw data.

B = Level B analysis for Harding Lawson data

C = Level C analysis for Harding Lawson data

* = Backup documentation was not on file for Harding Lawson data at time of Harding Lawson report.

Validity of Data:

No flag is used when the value is considered valid for all purposes.

J = The value listed is considered usable for limited purposes.

UJ = Due to blank contamination or other deficiencies, adjustment of sample quantitation limit was necessary.

CH2M HILL DATA

Table C-1
PURITY OIL--CH2M HILL DATA
TANK SAMPLES: EP TOXICITY RESULTS
units are in mg/l (ppm)

Location	Arsensic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver	Cyanide
TS5-01 (D1)	0.007 U	0.090 P	0.040	0.009 U J	1.900 J	0.0002 U	0.003 U	0.007 U	---
TS5-01 (D1)	0.007 U	0.060 P	0.090	0.009 U J	25.800 J	0.0002 U	0.003 U	0.007 U	---
TS6-01	0.007 U	0.040 U	0.004 U	0.009 U J	0.136 J	0.0002 U	0.003 U	0.007 U	---
TS7-01	0.007 U	0.155 P	0.004 U	0.050 J	14.700 J	0.0002 U	0.003 U	0.007 U	---
MDL-01	0.006	0.040	0.004	0.009	0.002	0.0002	0.003	0.007	---
CRQL-01	0.010	0.200	0.005	0.010	0.005	0.0002	0.005	0.010	---
BLANK-01	0.007 U	0.040 U	0.004	0.009 U J	0.002 U J	0.0002 U	0.003 U	0.007 U	---

Notes: MDL-01 is associated with TS5-01(D1), TS7-01, TS5-01(D1), and TS6-01.
CRQL-01 is associated with TS5-01(D1), TS7-01, TS5-01(D1), and TS6-01.
BLANK-01 is associated with TS5-01(D1), TS7-01, TS5-01(D1), and TS6-01.

Table C-2
PURITY OIL--CH2M HILL DATA
TANK SAMPLES: INORGANIC ANALYSIS RESULTS
units are in mg/kg (ppm)

Location	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt
TP1-01 (D2)	55.9 U	18.4 U	3.4 U	162.0	2.20 U	4.90	1100 P	14.0	3.90 U
TP1-01 (D2)	208.0	18.5 U	3.4 U	452.0	2.20 U	11.40	1260 P	32.6	3.90 U
TP2-01	380.0	18.2 P	2.0 U	125.0	1.40 U	2.50	1860	64.2	2.40 U
TP3-01	197.0	9.9 P	5.9	125.0	16.60	4.60	745 P	66.6	2.80 P
TP4-01	23.0 U	7.7 U	1.4 U	20.9 P	20.90 P	0.90 U	351 P	4.2	1.60 U
TS5-01 (D1)	3290.0	6.7 U	13.0 J	2320.0 J	0.80 U	14.40	9820	90.8 J	1.40 U
TS5-01 (D1)	3420.0	6.8 U	10.9 J	2480.0 J	0.80 U	6.70	8690	62.4 J	1.40 U
TS6-01	2490.0	6.8 U	1.2 U J	844.0 J	0.80 U	15.60	6000	63.7 J	6.20 P
TS7-01	2320.0	6.9 U	9.2 J	1380.0 J	19.60	18.40	9030	160.0 J	3.10 P
MDL-01	20.0	7.0	0.4	8.0	0.80	0.80	148	1.8	1.40
CRQL-01	40.0	12.0	2.0	40.0	1.00	1.00	1000	2.0	10.00
BLANK-01	20.0 U	6.6 U	1.2 U	8.0 U	0.80 U	0.80 U	148 U	1.8 U	1.40 U

Location	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Molybdenum	Nickel	Potassium
TP1-01 (D2)	25.2	792.0	2470.0	192.0 U	9.1	0.28 U	---	10.7 P	279 U
TP1-01 (D2)	55.3	1460.0	7110.0	193.0 U	13.9	0.36	---	23.5	281 U
TP2-01	14.0	2120.0	472.0	328.0 P	26.8	0.17 U	---	24.3	169 U
TP3-01	61.9	4480.0	4040.0	74.0 U	28.0	0.11 U	---	40.6	107 U
TP4-01	9.1	325.0	509.0	114.0 P	3.4 P	0.12 U	---	9.5	116 U
TS5-01 (D1)	1180.0	10900.0	41800.0	2130.0	70.5	0.10 U	---	21.7	625 P
TS5-01 (D1)	640.0	4840.0	46000.0	1730.0	42.6	0.30	---	10.8	550 P
TS6-01	210.0	40300.0	23400.0	1990.0	163.0	0.20	---	30.0	427 P
TS7-01	500.0	13500.0	44200.0	1710.0	85.7	0.10 U	---	31.1	725 P
MDL-01	3.4	20.0	4.0	67.0	1.2	0.04	---	1.2	100
CRQL-01	5.0	20.0	1.0	1000.0	3.0	0.04	---	8.0	1000
BLANK-01	3.4 U	20.0 U	4.0 U	69.0 U	1.2 U	0.10 U	---	1.2 U	100 U

Table C-2
(Continued)

Location	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Cyanide	Percent Solids
TP1-01 (D2)	11.2 U J	3.9 U	1240 P	4.5 U	17.6 P	708.0	0.70 U	35.8
TP1-01 (D2)	11.2 U	3.9 U	1150 P	4.5 U	34.3	846.0	0.70 U	35.6
TP2-01	6.8 U	2.4 U	757 P	2.7 U	4.0 U	167.0	5.20	59.2
TP3-01	0.4 U	1.5 U	358 P	1.7 U	29.6	880.0	0.27 U	93.2
TP4-01	4.6 U	1.6 U	528 P	1.9 U J	32.0	100.0	0.30 U	86.0
TS5-01 (D1)	4.1 U	2.5	879 P	1.6 U	3.9 P	4400.0	0.26 U	98.0
TS5-01 (D1)	4.1 U	1.4 U	741 P	1.6 U J	2.5 U	2450.0	0.26 U	97.1
TS6-01	4.1 U	1.4 U	956 P	1.6 U	5.1 P	3620.0	0.26 U	96.6
TS7-01	4.2 U	1.5 U	1400	1.7 U J	4.9 P	5740.0	0.26 U	95.8
MDL-01	0.4	1.4	209	0.6	2.4	---	---	---
CRQL-01	1.0	2.0	1000	2.0	10.0	4.0	2.00	---
BLANK-01	0.4 U	1.4 U	209 U	1.6 U	2.4 U	1.0 U	4.00 U	---

Note: MDL-01 is associated with TS5-01(D1), TS7-01, TS5-01(D1), TS6-01, TP1-01(D2), TP1-01(D2), TP2-01, TP3-01, and TP4-01.
CRQL-01 is associated with TS5-01(D1), TS7-01, TS5-01(D1), TS6-01, TP1-01(D2), TP1-01(D2), TP2-01, TP3-01, and TP4-01.
BLANK-01 is associated with TS5-01(D1), TS7-01, TS5-01(D1), TS6-01, TP1-01(D2), TP1-01(D2), TP2-01, TP3-01, and TP4-01.

Table C-3
PURITY OIL--CH2M HILL DATA
TANK SAMPLES: HSL ORGANIC COMPOUNDS
units are in µg/kg (ppb)

Location	Bromoethane	Chlorethane	Methylene Chloride	Acetone	Carbon Disulfide	1,1-Dichloro-ethane	1,2-Dichloro-ethane
TP1-01 (D2)	---	---	110000.0 J	230000.0 J	---	130000.0 U	10.0 U
TP1-01 (D2)	---	---	16000.0 J	72000.0	---	25000.0 U	10.0 U
TP2-01	---	---	1100.0 U J	32000.0	---	2500.0 U	10.0 U
TP3-01	---	---	7400.0	5300.0 U J	---	9600.0 J	10.0 U
TP4-01	---	---	4700.0 U J	170000.0	---	10000.0 U	10.0 U
TS5-01 (D1)	---	---	380.0	650.0	---	26.0 U	10.0 U
TS5-01 (D1)	---	---	190.0 J	320.0	---	27.0 U	10.0 U
TS6-01	---	---	630.0	280.0	---	26.0 U	10.0 U
TS7-01	---	---	99.0 J	220.0	---	23.0 U	10.0 U
BLANK-01	---	---	1100.0 J	2900.0 J	---	2500.0 U	10.0 U
BLANK-02	---	---	3700.0	4700.0	---	2500.0 U	10.0 U
BLANK-03	---	---	2800.0	5000.0 U	---	2500.0 U	10.0 U
BLANK-04	---	---	2400.0 J	5300.0	---	2500.0 U	10.0 U
BLANK-05	---	---	8.0	14.0	---	5.0 U	10.0 U
BLANK-06	---	---	23.0	23.0	---	5.0 U	10.0 U
BLANK-07	---	---	10.0 U	---	---	---	10.0 U
BLANK-08	---	---	10.0 U	---	---	---	10.0 U
BLANK-09	---	---	10.0 U	---	---	---	10.0 U
BLANK-10	---	---	10.0 U	---	---	---	10.0 U

Location	Chloroform	2-Butanone	1,1,1-Tri-chloroethane	Trichloro-ethane	Benzene	4-Methyl-2-Pentanone	2-Hexanone	Tetra-chlorene	1,1,2,2-Tetrachloro-ethane
TP1-01 (D2)	10.0 U	250000.0 U J	130000.0 U	130000.0 U	130000.0 U	250000.0 U	---	130000.0 U	---
TP1-01 (D2)	10.0 U	50000.0 U J	25000.0 U	25000.0 U	25000.0 U	50000.0 U	---	25000.0 U	---
TP2-01	10.0 U	5000.0 U J	2500.0 U	2500.0 U	2500.0 U	5000.0 U	---	2500.0 U	---
TP3-01	10.0 U	3200.0 J	2000.0 J	10000.0	1400.0 J	4500.0 J	---	23000.0	---
TP4-01	10.0 U	5000.0 U J	41000.0	5000.0 U	10000.0 U	10000.0 U	---	14000.0	---
TS5-01 (D1)	10.0 U	52.0 U J	26.0 U	12.0 J	26.0 U	52.0 U	---	26.0 U	---
TS5-01 (D1)	10.0 U	140.0 J	27.0 U	27.0 U	27.0 U	53.0 U	---	6.0 J	---
TS6-01	10.0 U	52.0 U J	26.0 U	26.0 U	26.0 U	52.0 U	---	26.0 U	---
TS7-01	10.0 U	45.0 J	23.0 U	23.0 U	23.0 U	46.0 U	---	23.0 U	---
BLANK-01	10.0 U	5000.0 U	2500.0 U	2500.0 U	2500.0 U	5000.0 U	---	5000.0 U	---
BLANK-02	10.0 U	5000.0 U	2500.0 U	2500.0 U	2500.0 U	5000.0 U	---	5000.0 U	---
BLANK-03	10.0 U	5000.0 U	2500.0 U	2500.0 U	2500.0 U	5000.0 U	---	5000.0 U	---
BLANK-04	10.0 U	5000.0 U	2500.0 U	2500.0 U	2500.0 U	5000.0 U	---	5000.0 U	---
BLANK-05	10.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10.0 U	---	5.0 U	---
BLANK-06	10.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10.0 U	---	5.0 U	---
BLANK-07	10.0 U	---	10.0 U	---	---	---	---	---	---
BLANK-08	10.0 U	---	10.0 U	---	---	---	---	---	---
BLANK-09	10.0 U	---	10.0 U	---	---	---	---	---	---
BLANK-10	10.0 U	---	10.0 U	---	---	---	---	---	---

Table C-3
(Continued)

Location	Toluene	Ethylbenzene	Total Xylenes	Phenol	2-Methylphenol	4-Methylphenol	Isophorone	2,4-Dimethyl-phenol	Benzoic Acid
TP1-01 (D2)	130000.0 U	890000.0	---	20000.0 U	20000.0 U	20000.0 U	20000.0 U	20000.0 U	---
TP1-01 (D2)	39000.0	84000.0	---	11000.0 J	20000.0 U	20000.0 U	20000.0 U	20000.0 U	---
TP2-01	2500.0 U	2500.0 U	---	20000.0 U	20000.0 U	20000.0 U	20000.0 U	20000.0 U	---
TP3-01	39000.0	9700.0	---	93000.0	13000.0 J	63000.0	31000.0	7300.0 J	---
TP4-01	4600.0 J	53000.0	---	76000.0	20000.0 U	20000.0 U	7300.0 J	20000.0 U	---
TS5-01 (D1)	40.0	11.0 J	---	7900.0 J	21000.0 U	21000.0 U	21000.0 U	21000.0 U	---
TS5-01 (D1)	30.0	8.0 J	---	21000.0 U	21000.0 U	21000.0 U	21000.0 U	21000.0 U	---
TS6-01	26.0	26.0 U	---	22000.0 U	22000.0 U	22000.0 U	22000.0 U	22000.0 U	---
TS7-01	5.0 J	23.0 U	---	9600.0 J	22000.0 U	22000.0 U	22000.0 U	22000.0 U	---
BLANK-01	2500.0 U	2500.0 U	---	---	---	---	---	---	---
BLANK-02	2500.0 U	2500.0 U	---	---	---	---	---	---	---
BLANK-03	2500.0 U	2500.0 U	---	---	---	---	---	---	---
BLANK-04	2500.0 U	2500.0 U	---	---	---	---	---	---	---
BLANK-05	5.0 U	5.0 U	---	---	---	---	---	---	---
BLANK-06	5.0 U	5.0 U	---	---	---	---	---	---	---
BLANK-07	10.0 U	10.0 U	---	20000.0 U	20000.0 U	20000.0 U	20000.0 U	20000.0 U	---
BLANK-08	10.0 U	10.0 U	---	20000.0 U	20000.0 U	20000.0 U	20000.0 U	20000.0 U	---
BLANK-09	10.0 U	10.0 U	---	20000.0 U	20000.0 U	20000.0 U	20000.0 U	20000.0 U	---
BLANK-10	10.0 U	10.0 U	---	---	---	---	---	---	---

Location	Naphthalene	2-Methyl-naphthalene	Acenaphthene	Fluorene	N-Nitrosodi-phenylamine	Phenanthrene	Anthracene	Di-N-Butyl-phthalate
TP1-01 (D2)	47000.0	290000.0	20000.0 U	63000.0	20000.0 U	440000.0	20000.0 U	20000.0 U
TP1-01 (D2)	50000.0	210000.0	14000.0 U J	22000.0	20000.0 U	120000.0	12000.0 J	20000.0 U
TP2-01	20000.0 U	20000.0 U	20000.0 U	20000.0 U	20000.0 U	20000.0 U	20000.0 U	20000.0 U
TP3-01	21000.0	20000.0 U	20000.0 U	20000.0 U	7300.0 J	34000.0	20000.0 U	10000.0 J
TP4-01	20000.0 U	20000.0 U	20000.0 U	20000.0 U	7100.0 J	20000.0 U	20000.0 U	20000.0 U
TS5-01 (D1)	20000.0 J	58000.0	21000.0 U	21000.0 U	21000.0 U	39000.0	21000.0 U	21000.0 U
TS5-01 (D1)	21000.0 U	19000.0 J	21000.0 U	21000.0 U	21000.0 U	44000.0	21000.0 U	12000.0 J
TS6-01	22000.0 U	22000.0 U	22000.0 U	22000.0 U	22000.0 U	22000.0 U	22000.0 U	22000.0 U
TS7-01	21000.0 J	63000.0	22000.0 U	22000.0 U	22000.0 U	58000.0	22000.0 U	22000.0 U
BLANK-01	10000.0 U	---	---	---	---	10000.0 U	10000.0 U	---
BLANK-02	10000.0 U	---	---	---	---	10000.0 U	10000.0 U	---
BLANK-03	10000.0 U	---	---	---	---	10000.0 U	10000.0 U	---
BLANK-04	10000.0 U	---	---	---	---	10000.0 U	10000.0 U	---
BLANK-05	10000.0 U	---	---	---	---	10000.0 U	10000.0 U	---
BLANK-06	10000.0 U	---	---	---	---	10000.0 U	10000.0 U	---
BLANK-07	20000.0 U	20000.0 U	20000.0 U	20000.0 U	20000.0 U	20000.0 U	20000.0 U	20000.0 U
BLANK-08	20000.0 U	20000.0 U	20000.0 U	20000.0 U	20000.0 U	20000.0 U	20000.0 U	20000.0 U
BLANK-09	20000.0 U	20000.0 U	20000.0 U	20000.0 U	20000.0 U	20000.0 U	20000.0 U	20000.0 U
BLANK-10	10000.0 U	---	---	---	---	10000.0 U	10000.0 U	---

Table C-3
(Continued)

Location	Fluoranthene	Benzo(a) Pyrene	Anthracene	Chrysene	Bis(2-Ethyl-hexyl) Phthalate	Benzo(k) Fluoranthane	Benzo(a) Pyrene	Chlorobenzene	Dibenzofuran
TP1-01 (D2)	10000.0 J	51000.0	53000.0	20000.0 U	20000.0 U	20000.0 U	5500.0 J	130000.0 U	---
TP1-01 (D2)	4600.0 J	20000.0	8300.0 J	16000.0 J	20000.0 U	20000.0 U	20000.0 U	10000.0 J	---
TP2-01	20000.0 U	20000.0 U	20000.0 U	20000.0 U	20000.0 U	20000.0 U	20000.0 U	2500.0 U	---
TP3-01	10000.0 J	16000.0 J	20000.0 U	20000.0 U	20000.0 U	20000.0 U	20000.0 U	3000.0 J	---
TP4-01	20000.0 U	20000.0 U	20000.0 U	20000.0 U	20000.0 U	20000.0 U	20000.0 U	5000.0 U	---
TS5-01 (D1)	9200.0 J	17000.0 J	21000.0 U	21000.0 U	21000.0 U	21000.0 U	21000.0 U	26.0 U	---
TS5-01 (D1)	11000.0 J	16000.0 J	21000.0 U	21000.0 U	69000.0	21000.0 U	21000.0 U	9.0 J	---
TS6-01	22000.0 U	22000.0 U	22000.0 U	22000.0 U	22000.0 U	7800.0 J	22000.0 U	26.0 U	---
TS7-01	21000.0 J	24000.0	16000.0 J	22000.0 U	22000.0 U	22000.0 U	22000.0 U	23.0 U	---
BLANK-01	---	---	10000.0 U	---	---	---	---	2500.0 U	---
BLANK-02	---	---	10000.0 U	---	---	---	---	2500.0 U	---
BLANK-03	---	---	10000.0 U	---	---	---	---	2500.0 U	---
BLANK-04	---	---	10000.0 U	---	---	---	---	2500.0 U	---
BLANK-05	---	---	10000.0 U	---	---	---	---	5.0 U	---
BLANK-06	---	---	10000.0 U	---	---	---	---	5.0 U	---
BLANK-07	20000.0 U	20000.0 U	20000.0 U	20000.0 U	20000.0 U	20000.0 U	20000.0 U	10.0 U	---
BLANK-08	20000.0 U	20000.0 U	20000.0 U	20000.0 U	20000.0 U	20000.0 U	20000.0 U	10.0 U	---
BLANK-09	20000.0 U	20000.0 U	20000.0 U	20000.0 U	20000.0 U	20000.0 U	20000.0 U	10.0 U	---
BLANK-10	---	---	10000.0 U	---	---	---	---	10.0 U	---

Location	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	4,4'-DDD	4,4'-DDE	4,4'-DDT	ENDOSULFAN I	ENDOSULFAN II
TP1-01 (D2)	100000.0 U	---	---	---	64000.0	---	---	---	---
TP1-01 (D2)	100000.0 U	---	---	---	64000.0	---	---	---	---
TP2-01	100000.0 U	---	---	---	64000.0	---	---	---	---
TP3-01	100000.0 U	---	---	---	40000.0 U	---	---	---	---
TP4-01	100000.0 U	---	---	---	28000.0 J	---	---	---	---
TS5-01 (D1)	72000.0	---	---	---	5100.0 U	---	---	---	---
TS5-01 (D1)	36000.0	---	---	---	5200.0 U	---	---	---	---
TS6-01	1900.0 J	---	---	---	5200.0 U	---	---	---	---
TS7-01	28000.0	---	---	---	5200.0 U	---	---	---	---
BLANK-01	---	---	---	---	---	---	---	---	---
BLANK-02	---	---	---	---	---	---	---	---	---
BLANK-03	---	---	---	---	---	---	---	---	---
BLANK-04	---	---	---	---	---	---	---	---	---
BLANK-05	---	---	---	---	---	---	---	---	---
BLANK-06	---	---	---	---	---	---	---	---	---
BLANK-07	100000.0 U	---	---	---	50000.0 U	---	---	---	---
BLANK-08	100000.0 U	---	---	---	50000.0 U	---	---	---	---
BLANK-09	100000.0 U	---	---	---	50000.0 U	---	---	---	---
BLANK-10	1300.0 U	---	---	---	260.0 U	---	---	---	---

Table C-3
(Continued)

Location	1,1 Dichloro-ethene	trans-1,2-Di-chloroethene	cis-1,2-Di-chloroethene	1,2-Dichloro-propane	1,1,2-Trichloro-propane	1,2-Dichloro-benzene	Di-n-Octyl phthalate	Beta-BHC	Gamma-BHC (Lindane)
TP1-01 (D2)	---	---	---	10.0 U	---	---	10000.0 U	---	---
TP1-01 (D2)	---	---	---	10.0 U	---	---	10000.0 U	---	---
TP2-01	---	---	---	10.0 U	---	---	10000.0 U	---	---
TP3-01	---	---	---	10.0 U	---	---	10000.0 U	---	---
TP4-01	---	---	---	10.0 U	---	---	10000.0 U	---	---
TS5-01 (D1)	---	---	---	10.0 U	---	---	10000.0 U	---	---
TS5-01 (D1)	---	---	---	10.0 U	---	---	10000.0 U	---	---
TS6-01	---	---	---	10.0 U	---	---	10000.0 U	---	---
TS7-01	---	---	---	10.0 U	---	---	10000.0 U	---	---
BLANK-01	---	---	---	10.0 U	---	---	10000.0 U	---	---
BLANK-02	---	---	---	10.0 U	---	---	10000.0 U	---	---
BLANK-03	---	---	---	10.0 U	---	---	10000.0 U	---	---
BLANK-04	---	---	---	10.0 U	---	---	10000.0 U	---	---
BLANK-05	---	---	---	10.0 U	---	---	10000.0 U	---	---
BLANK-06	---	---	---	10.0 U	---	---	10000.0 U	---	---
BLANK-07	---	---	---	10.0 U	---	---	10000.0 U	---	---
BLANK-08	---	---	---	10.0 U	---	---	10000.0 U	---	---
BLANK-09	---	---	---	10.0 U	---	---	10000.0 U	---	---
BLANK-10	---	---	---	10.0 U	---	---	10000.0 U	---	---

Location	Heptachlor	Aldrin	Heptachlor Epoxide	Butylbenzyl phthalate	Diethyl phthalate	Dieldrin	Trichloro-ethylene	1,2-Trans chloroethylene	Tetrachloro-ethylene
TP1-01 (D2)	---	---	---	---	---	---	10.0 U	---	---
TP1-01 (D2)	---	---	---	---	---	---	10.0 U	---	---
TP2-01	---	---	---	---	---	---	10.0 U	---	---
TP3-01	---	---	---	---	---	---	10.0 U	---	---
TP4-01	---	---	---	---	---	---	10.0 U	---	---
TS5-01 (D1)	---	---	---	---	---	---	10.0 U	---	---
TS5-01 (D1)	---	---	---	---	---	---	10.0 U	---	---
TS6-01	---	---	---	---	---	---	10.0 U	---	---
TS7-01	---	---	---	---	---	---	10.0 U	---	---
BLANK-01	---	---	---	---	---	---	10.0 U	---	---
BLANK-02	---	---	---	---	---	---	10.0 U	---	---
BLANK-03	---	---	---	---	---	---	10.0 U	---	---
BLANK-04	---	---	---	---	---	---	10.0 U	---	---
BLANK-05	---	---	---	---	---	---	10.0 U	---	---
BLANK-06	---	---	---	---	---	---	10.0 U	---	---
BLANK-07	---	---	---	---	---	---	10.0 U	---	---
BLANK-08	---	---	---	---	---	---	10.0 U	---	---
BLANK-09	---	---	---	---	---	---	10.0 U	---	---
BLANK-10	---	---	---	---	---	---	10.0 U	---	---

Table C-3
(Continued)

Location	Tetrachloro-ethene	Pentachloro-phenol	1,2-Dichloro-ethene	Chrysene	Chloro-methane	1,4-Dichloro-benzene	1,2,4 Tri-chlorobenzene	Benzo(g,h,i) Perylene	Benzo(b) Fluoranthene
TP1-01 (D2)	10.0 U	---	10.0 U	---	---	---	---	---	---
TP1-01 (D2)	10.0 U	---	10.0 U	---	---	---	---	---	---
TP2-01	10.0 U	---	10.0 U	---	---	---	---	---	---
TP3-01	10.0 U	---	10.0 U	---	---	---	---	---	---
TP4-01	10.0 U	---	10.0 U	---	---	---	---	---	---
TS5-01 (D1)	10.0 U	---	10.0 U	---	---	---	---	---	---
TS5-01 (D1)	10.0 U	---	10.0 U	---	---	---	---	---	---
TS6-01	10.0 U	---	10.0 U	---	---	---	---	---	---
TS7-01	10.0 U	---	10.0 U	---	---	---	---	---	---
BLANK-01	10.0 U	---	10.0 U	---	---	---	---	---	---
BLANK-02	10.0 U	---	10.0 U	---	---	---	---	---	---
BLANK-03	10.0 U	---	10.0 U	---	---	---	---	---	---
BLANK-04	10.0 U	---	10.0 U	---	---	---	---	---	---
BLANK-05	10.0 U	---	10.0 U	---	---	---	---	---	---
BLANK-06	10.0 U	---	10.0 U	---	---	---	---	---	---
BLANK-07	10.0 U	---	10.0 U	---	---	---	---	---	---
BLANK-08	10.0 U	---	10.0 U	---	---	---	---	---	---
BLANK-09	10.0 U	---	10.0 U	---	---	---	---	---	---
BLANK-10	10.0 U	---	10.0 U	---	---	---	---	---	---

Notes: BLANK-01--High-level VOA blank associated with TP2-01.
BLANK-02--High-level VOA blank associated with TP1-01.
BLANK-03--High-level VOA blank associated with TP1-01.
BLANK-04--High-level VOA blank associated with TP3-01 and TP4-01.
BLANK-05--Low-level VOA blank associated with TS5-01 and TS7-01.
BLANK-06--Low-level VOA blank associated with TS5-01 and TS6-01
BLANK-07--Medium-level VOA blank associated with TS5-01, TS6-01, and TS7-01.
BLANK-08--High-level VOA blank associated with TP2-01.
BLANK-09--High-level VOA blank associated with TP1-01, TP3-01, and TP4-01.

Table C-4
PURITY OIL--CH2M HILL DATA
TANK SAMPLES: MISCELLANEOUS PARAMETERS

Location	Chrysotile	Amosite	Total Percent Asbestos	Non Asbestos Fiber Content
T4-01	20 to 25%	20 to 25%	40 to 50%	45 to 50%

Location	Ignitability	pH	Paint Filter	Corrosivity (millimeters/year)	Sulfide mg/l	Water Reaction	Heat Reaction	Flame Reaction
TP1-01 (D1)	NI > 98 deg C	5.40	NR	6.35 U	NR	Neg	VIO	VIO
TP1-01 (D1)	NI > 98 deg C	5.45	NR	6.35 U	NR	Neg	VIO	VIO
TP2-01	NI >101 deg C	5.70	NR	6.35 U	NR	Neg	VIO	VIO
TP3-01	NI > 98 deg C	6.15	NR	6,35 U	NR	Neg	VIO	VIO
TP4-01	NI > 98 deg C	6.45	NR	6.35 U	NR	Neg	VIO	VIO
TS5-01	NR	5.15	Neg	6.35 U	1.00 U	Neg	Neg	Neg
TS5-01	NR	4.55	Neg	6.35 U	1.00 U	Neg	Neg	VIO
TS6-01	NR	2.25	Neg	6.35 U	1.00 U	Neg	VIO	VIO
TS7-01	NR	3.15	Neg	6.35 U	1.00 U	Neg	VIO	VIO

Note: NI = Not ignitable.
NR = Parameter not required by contract.
Neg = Negative.
VIO = Violent.

Table C-5
PURITY OIL--CH2M HILL DATA
SURFACE AND CANAL SAMPLES: EP TOXICITY RESULTS
units are in mg/l (ppm)

Location	Arsensic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver
CS04(D3)	0.026 U	0.061 P	0.011 P	0.008 U	0.552	0.0020 U	0.032 U J	0.011 P
CS05	0.047 J	0.009 U	0.054 P	0.808	2.360	0.0020 P	0.025 U	0.009 U
CS06	0.042 U J	0.009 U	0.121	1.130	2.390	0.0020 P	0.025 U	0.009 U
CS11(D3)	0.026 U	0.065 P	0.008 P	0.008 U	0.571	0.0020 U	0.025 U	0.010 P
SS09(D2)	0.062 U J	0.009 U	0.029 P	0.530	2.510	0.0020 U	0.025 U	0.009 U
SS14	0.219 U J	0.012 P	0.093 P	0.732	2.120	0.0020 P	0.025 U	0.009 U
SS18	0.026 U	0.067 P	0.011 P	0.008 U	1.670	0.0020 U	0.025 U	0.009 U
SS20	0.081 U J	0.023 P	0.179	0.880	2.890	0.0020 U	0.025 U	0.009 U
SS21(D1)	0.131 U J	0.009 U	0.044 P	0.707	2.620	0.0020 U	0.025 U	0.009 U
SS23	0.026 U	0.031 P	0.052 P	0.334 P	2.050	0.0020 U	0.025 U	0.009 U
SS30	0.230 U J	0.094 P	0.007 P	0.008 U	0.874 J	0.0020 U	0.064 U J	0.009 U
SS32(D1)	0.115 U J	0.014 P	0.029 P	0.510	2.360	0.0020 U	0.025 U	0.009 U
SS33(D2)	0.026 U	0.009 U	0.024 P	0.788	2.500	0.0020 U	0.025 U	0.009 U
BLANK-02	0.055	0.009 U	0.004 U	0.008 U	0.050 U	0.0020 U	0.063	0.009 U

Note: BLANK-02 is associated with SS30, SS20, SS18, SS32(D1), SS21(D1), SS14, SS33(D2), SS09(D2), SS23, CS06, CS04(D3), CS11(D3), and CS05.

Table C-6
PURITY OIL--CH2M HILL DATA
SURFACE AND CANAL SAMPLES: INORGANIC ANALYSIS RESULTS
units are in mg/kg (ppm)

Location	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt
CS01	6550.0 J	6.0 U	9.4 J	47.0	1.10 U	2.50 J	56100	25.0	5.60 P
CS02	16200.0 J	7.3 U	18.0 J	122.0	1.40 U	4.80 J	3470	68.0	16.00
CS03	2480.0 J	5.8 U	4.1 J	1050.0	1.10 U	1.50 J	1570	13.0	1.90 U
CS04	6320.0 J	5.6 U	8.9 J	488.0	1.00 U	2.30 J	2600	17.0	2.30 P
CS05	1140.0 J	7.0 U	3.6 J	1770.0	1.30 U	5.70 J	3230	17.0	2.30 U
CS06	800.0 J	7.2 U	1.9 U J	847.0	1.30 U	3.20 J	1390	23.0	2.40 U
CS07	3780.0 J	5.6 U	4.6 J	49.0	1.00 U	0.80 U J	2160	10.0	3.40 P
CS08	3510.0 J	5.5 U	7.7 J	1490.0	1.00 U	2.40 J	3870	21.0	1.80 U
CS09	15800.0 J	6.7 U	16.0 J	109.0	1.30	5.40 J	2930	60.0	13.00
CS10	12600.0 J	6.8 U	7.8 J	89.0	1.20 U	4.40 J	2830	55.0	13.00
CS11	4620.0 J	5.6 U	13.0 J	478.0	1.00 U	2.30 J	2810	12.0	2.10 P
SS01	5090.0 J	5.7 U	4.6 J	62.0 J	1.10 U	2.20 J	1810	14.0	4.90 P
SS02	4760.0 J	5.6 U	2.2 J	43.0 J	1.00 U	1.70 J	2270	12.0	4.90 P
SS04	8610.0 J	6.6 U	3.2 J	101.0	1.20 U	3.50 J	3750	28.0	7.50 P
SS05	11000.0 J	6.5 U	11.0 J	145.0	1.20 U	3.60 J	3020	43.0	10.00
SS06	5800.0 J	5.8 U	19.0 J	270.0	1.10 U	3.20 J	7560	11.0	3.00 P
SS07	12500.0 J	5.8 U	12.0 J	142.0 J	1.50	4.60 J	2400	12.0	8.50 P
SS08	7020.0 J	5.7 U	4.4 J	95.0 J	1.00 U	2.40 J	3690	12.0	4.50 P
SS09	965.0 J	6.5 U	4.6 J	434.0	1.20 U	3.30 J	2310	15.0	2.20 U
SS10	4200.0 J	5.6 U	4.8 J	70.0 J	1.00 U	9.00	2120	14.0	7.00 P
SS11	8620.0 J	5.7 U	22.0 J	99.0 J	1.00 U	3.00	4350	20.0	3.50 P
SS12	5430.0 J	6.1 U	12.0 J	128.0	1.10 U	2.20	12100	12.0	4.50 P
SS13	5010.0 J	5.7 U	4.0 J	80.0 J	1.10 U	1.70 J	3440	12.0	4.80 P
SS14	4550.0 J	6.1 U J	15.0 J	1120.0	1.10 U	4.50	12000	18.0	2.00 P
SS15	4730.0 J	5.7 U J	13.0 J	292.0	1.10 U	3.00	6020	18.0	2.70 P
SS16	3710.0 J	5.6 U	3.4 J	90.0 J	1.00 U	1.20	1880	9.0	3.50 P
SS17	4580.0 J	5.5 U J	8.1 J	174.0	1.00 U	1.40	16000	14.0	4.20 P
SS18	1200.0 J	8.4 J	5.7 J	84.0	1.20	2.20	2450	5.3	2.80 P
SS19	4300.0 J	5.6 U	6.6 J	57.0 J	1.00 U	1.20	1930	9.4	4.10 P
SS20	1780.0 J	6.9 U J	4.4 J	522.0	1.30 U	17.00	4920	36.0	2.30 U
SS21(D2)	668.0 J	6.2 U J	1.6 U J	1760.0	1.10 U	8.60	4880	43.0	2.10 U
SS22	3920.0 J	5.9 U J	4.0 J	157.0	1.10 U	2.50	9500	11.0	3.30 P
SS23(D3)	1800.0 J	6.4 U	1.7 U J	609.0 J	1.20 U	2.20	2560	16.0	2.10 U
SS24	7350.0 J	5.4 U	10.0 J	776.0 J	1.00 U	4.50	2230	24.0	2.40 P
SS25	11400.0 J	5.8 U	16.0 J	193.0 J	1.10 U	9.30	3170	30.0	8.30 P
SS26	5580.0 J	5.7 U	7.1 J	54.0 J	1.00 U	1.40	1390	12.0	4.20 P
SS27	5580.0 J	5.7 U J	6.9 J	192.0	1.10 U	2.90	2360	13.0	4.50 P
SS28	4880.0 J	5.8 U J	5.7 J	172.0	1.10 U	3.00	5510	15.0	3.40 P
SS29(D1)	2470.0 J	5.7 U J	3.4 J	174.0	1.10 U	2.60	1400	11.0	1.90 U
SS30	5840.0 J	6.0 U J	19.0 J	523.0	1.10	1.00 P	13900	5.7	2.00 U
SS31(D1)	2530.0 J	5.7 U J	2.1 J	175.0	1.00 U	3.50	1410	11.0	1.90 U
SS32(D2)	1560.0 J	5.8 U J	7.4 J	488.0	1.10 U	3.90	1920	20.0	1.90 U
SS33(D3)	1600.0 J	6.7 U	4.4 J	633.0 J	1.20 U	5.30 J	3400	20.0	2.20 U
MDL-02	10.0 J	5.4 J	1.4 J	5.6 J	1.00	0.80	149	1.8	1.80
CRQL-02	40.0	12.0	2.0	40.0	1.00 U	1.00	1000	2.0	10.00
BLANK-02	10.0 U	5.4 U	1.4 U	5.6 U	1.00 U	0.80 U	149 U	1.8 U	1.80 U

RD/R61/004-2

Table C-6
(Continued)

Location	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Molybdenum	Nickel	Potassium
CS01	17.0	11100.0 g	48.0	26300.0	246.0	0.11 U J	---	41.0	1450
CS02	40.0	22400.0	66.0	7860.0	463.0	0.14 U J	---	120.0	3640
CS03	24.0	5750.0	3740.0	708.0 P	29.0	0.11 U J	---	11.0	917 P
CS04	33.0	10100.0	1210.0	2320.0	74.0	0.10 U J	---	17.0	1550
CS05	133.0	1190.0	13200.0	302.0 P	16.0	0.13 U J	---	7.1 P	130 U
CS06	112.0	1850.0	7470.0	195.0 P	25.0	0.20 J	---	5.0 P	133 U
CS07	15.0	6010.0	52.0	1420.0	128.0	0.10 U J	---	14.0	1310
CS08	39.0	8250.0	11200.0	1140.0	55.0	0.10 U J	---	8.8	1400
CS09	47.0	21300.0	96.0	7450.0	308.0	0.12 U J	---	98.0	3590
CS10	31.0	19000.0	28.0	6040.0	333.0	0.12 U J	---	96.0	2710
CS11	61.0	9000.0	1070.0	1820.0	74.0	0.10 U J	---	13.0	1530
SS01	10.0	11100.0	17.0	2520.0	212.0	0.16 J	---	24.0	2060
SS02	8.8	9700.0	6.0 P	2620.0	203.0	0.16 J	---	22.0	1850
SS04	23.0	13900.0	55.0	4230.0	276.0	0.12 U J	---	46.0	3180
SS05	233.0	17600.0	389.0	5390.0	287.0	0.12 U J	---	74.0	4380 P
SS06	36.0	11700.0	763.0	2020.0	106.0	0.11 U J	---	8.6	2160
SS07	8.4	18200.0	12.0	5570.0	336.0	0.19 J	---	9.6	6100
SS08	23.0	9450.0	28.0	2150.0	189.0	0.49 J	---	12.0	8510
SS09	55.0	1970.0	6540.0	490.0 P	18.0	0.18 J	---	6.7 P	234 P
SS10	115.0	37200.0	84.0	1630.0	245.0	0.10 U	---	38.0	1760
SS11	52.0	8120.0	252.0	2020.0	98.0	0.10 U	---	16.0	1770
SS12	16.0	9150.0	275.0	2830.0	162.0	0.11 U	---	14.0	2130
SS13	19.0	7820.0	95.0	1740.0	171.0	0.90 J	---	14.0	1830
SS14	94.0	6550.0	6820.0	1360.0	127.0	0.11 U	---	16.0	929 P
SS15	30.0	9250.0	4620.0	1670.0	95.0	0.11	---	10.0	1680
SS16	24.0	6210.0	28.0	1410.0	156.0	0.18 J	---	9.8	1860
SS17	18.0	6340.0	603.0	1960.0	126.0	0.10	---	16.0	1710
SS18	7.8	1770.0	242.0	552.0 P	24.0	0.10 U	---	4.8 P	1150
SS19	16.0	6350.0	18.0	1370.0	168.0	0.10 U J	---	9.4	1570
SS20	140.0	6000.0	14300.0	599.0 P	42.0	0.13	---	12.0	413 P
SS21(D2)	136.0	1380.0	27200.0	231.0 P	17.0	0.11 U	---	7.5 P	138 P
SS22	30.0	8940.0	872.0	1910.0	147.0	0.16	---	13.0	1510
SS23(D3)	101.0	1870.0	5640.0	385.0 P	17.0	0.12 U J	---	7.4 P	196 P
SS24	137.0	13500.0	5680.0	2950.0	108.0	0.18 J	---	12.0	2250
SS25	953.0	24900.0	550.0	4560.0	332.0	0.70	---	27.0	4120 P
SS26	14.0	7530.0	73.0	1720.0	164.0	0.10 U	---	19.0	1420
SS27	26.0	10100.0	265.0	2150.0	161.0	0.11	---	17.0	1740
SS28	38.0	10600.0	729.0	1790.0	101.0	0.11	---	12.0	1680
SS29(D1)	50.0	10700.0	531.0	775.0 P	58.0	0.16	---	7.3 P	1050 P
SS30	12.0	3810.0	788.0	2720.0	46.0	0.11 U	---	6.0 P	753 P
SS31(D1)	57.0	13700.0	519.0	740.0 P	67.0	0.16	---	9.1	893 P
SS32(D2)	63.0	3520.0	8940.0	574.0 P	39.0	0.11	---	6.8 P	494 P
SS33(D3)	70.0	2550.0	9840.0	465.0 P	23.0	0.62 J	---	7.3 P	395 P
MDL-02	5.0	20.0	4.0	58.0 U	1.2	0.10 J	---	2.4	100
CRQL-02	5.0	20.0	--- NA	1000.0	3.0	0.10	---	8.0	1000
BLANK-02	5.0 U	20.0 U	4.0 U	58.0 U	1.2 U	0.10 U	---	2.4 U	100 U

Table C-6
(Continued)

Location	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Cyanide
CS01	0.7 U J	1.6 U J	223 U	1.6 U	28.0	39.0	1.10
CS02	0.8 U J	1.9 U J	271 U	1.9 U	54.0	102.0	0.84
CS03	0.7 UgJ	1.5 U J	215 U	1.5 U	10.0 P	21.0	0.54
CS04	0.6 U J	1.4 U J	496 P	1.4 U	18.0	46.0	0.64
CS05	0.8 U J	1.8 U J	260 U	1.8 U	2.7 P	850.0	4.40
CS06	0.8 U J	1.9 U J	267 U	1.9 U	2.4 U	1260.0	1.00
CS07	0.6 U J	1.4 U J	206 U	1.4 U	16.0	37.0	1.00
CS08	0.6 U J	1.4 U J	204 U	1.4 U	14.0	88.0	1.40
CS09	0.7 U J	1.7 U J	247 U	1.7 U	55.0	128.0	1.10
CS10	0.8 U J	1.8 U J	250 U	1.8 U	45.0	81.0	1.25
CS11	0.6 U J	1.4 U J	656 P	1.4 U	15.0	53.0	1.20
SS01	0.6 U J	1.5 U J	213 U	1.5 U	25.0	40.0 J	0.26 U
SS02	0.6 U J	1.4 U J	209 U	1.4 U	23.0	42.0 J	0.26
SS04	0.7 U J	1.7 U J	244 U	1.7 U	32.0	81.0	0.76
SS05	0.7 U J	1.7 U J	241 U	1.7 U	42.0	85.0	0.45
SS06	0.6 U J	1.5 U J	215 U	1.5 U	28.0	54.0	0.81
SS07	0.6 U J	1.5 U J	215 U	1.5 U	45.0	54.0 J	0.27 J
SS08	0.6 U J	1.5 U J	211 U	1.5 U	25.0	48.0 J	0.26 U
SS09	0.7 U J	1.7 U J	424 P	1.7 U	3.5 P	800.0	1.00
SS10	0.6 U	1.4 U J	209 U	1.4 U	20.0	205.0 J	0.26
SS11	0.6 U	1.5 U J	840 P	1.5 U	20.0	397.0 J	0.39
SS12	0.7 U	1.6 U J	883 P	1.6 U	23.0	131.0	0.56
SS13	0.6 U J	1.5 U J	213 U	1.5 U	20.0	96.0 J	0.40
SS14	6.7 U	1.6 U J	225 U	1.6 U	15.0	516.0	0.42
SS15	6.4 U	1.5 U J	213 U	1.5 U	20.0	316.0	0.26 U
SS16	0.6 U J	1.4 U J	206 U	1.4 U	17.0	36.0 J	0.52
SS17	0.6 U	1.4 U J	204 U	1.4 U	17.0	114.0	0.26 U
SS18	0.6 U	2.4 J	209 U	1.4 U	5.9 P	42.0	0.26 U
SS19	0.2 U J	1.4 U J	206 U	1.4 U	16.0	68.0 J	0.39
SS20	7.7 U	1.8 U J	472 P	1.8 U	8.0 P	1410.0	0.32 U
SS21(D2)	6.9 U	1.6 U J	351 P	1.6 U	2.1 P	2010.0	0.29 U
SS22	0.7 U	1.5 U J	242 P	1.5 U	19.0	120.0	0.27 U
SS23(D3)	0.7 U J	1.7 U J	238 U	1.7 U	5.2 P	298.0 J	0.03 U
SS24	0.6 U J	1.4 U J	202 U	1.4 U	27.0	207.0 J	0.25
SS25	0.6 U J	1.5 U J	257 P	1.5 U	38.0	1030.0 J	0.67
SS26	0.6 U J	1.5 U J	211 U	1.5 U	20.0	87.0 J	0.26
SS27	0.6 U	1.5 U J	213 U	1.5 U	20.0	532.0	0.26
SS28	6.4 U	1.5 U J	215 U	1.5 U	20.0	471.0	0.27 U
SS29(D1)	0.6 U	1.5 U J	213 U	1.5 U	12.0	109.0	0.26 U
SS30	6.7 U	1.6 U J	223 U	1.6 U	8.3 P	86.0	0.28 U
SS31(D1)	0.6 U	1.5 U J	211 U	1.5 U	12.0	108.0	0.53
SS32(D2)	6.4 U	1.5 U J	215 U	1.5 U	6.2 P	972.0	0.27 U
SS33(D3)	0.7 U J	1.7 U J	322 P	1.7 U	5.6 P	968.0 J	1.10

Table C-6
(Continued)

Location	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Cyanide
MDL-02	0.6 J	1.4 J	200	1.4	1.8	4.0 U J	0.25
CRQL-02	1.0	2.0	1000	2.0	10.0	4.0	0.25
BLANK-02	0.6 U	1.4 U	200 U	1.4 U	1.8 U	4.0 U	0.25 U

Notes: MDL-02 is associated with SS28, SS30, SS27, SS31(D1), SS29(D1), SS22, SS20, SS18, SS17, SS15, SS32(D2), SS21(D2), SS14, SS12, SS11, SS10, SS26, SS25, SS24, SS33(D3), SS23(D3), SS09, SS19, SS16, SS13, SS07, SS02, SS01, SS08, CS02, CS10, CS09, SS06, SS05, SS04, CS07, CS08, CS01, CS06, CS03, CS04, CS05, and CS11.

CRQL-02 is associated with SS28, SS30, SS27, SS31(D1), SS29(D1), SS22, SS20, SS18, SS17, SS15, SS32(D2), SS21(D2), SS14, SS12, SS11, SS10, SS26, SS25, SS24, SS33(D3), SS23(D3), SS09, SS19, SS16, SS13, SS07, SS02, SS01, SS08, CS02, CS10, CS09, SS06, SS05, SS04, CS07, CS08, CS01, CS06, CS03, CS04, CS05, and CS11.

BLANK-02 is associated with SS28, SS30, SS27, SS31(D1), SS29(D1), SS22, SS20, SS18, SS17, SS15, SS32(D2), SS21(D2), SS14, SS12, SS11, SS10, SS26, SS25, SS24, SS33(D3), SS23(D3), SS09, SS19, SS16, SS13, SS07, SS02, SS01, SS08, CS02, CS10, CS09, SS06, SS05, SS04, CS07, CS08, CS01, CS06, CS03, CS04, CS05, and CS11.

Table C-7
PURITY OIL--CH2M HILL DATA
SURFACE AND CANAL SAMPLES: HSL ORGANIC COMPOUNDS
units are in µg/kg (ppb)

Location	Bromoethane	Chlorethane	Methylene Chloride	Acetone	Carbon Disulfide	1,1-Dichloro-ethane	1,2-Dichloro-ethane
CS01	---	---	10.0 U	---	---	---	10.0 U
CS02	---	---	10.0 U	---	---	---	10.0 U
CS03	---	---	10.0 U	---	---	---	10.0 U
CS04	---	---	10.0 U	---	---	---	10.0 U
CS05	---	---	10.0 U	---	---	---	10.0 U
CS06	---	---	10.0 U	---	---	---	10.0 U
CS07	---	---	10.0 U	---	---	---	10.0 U
CS08	---	---	10.0 U	---	---	---	10.0 U
CS09	---	---	10.0 U	---	---	---	10.0 U
CS10	---	---	10.0 U	---	---	---	10.0 U
CS11	---	---	10.0 U	---	---	---	10.0 U
SS01	---	---	10.0 U	---	---	---	10.0 U
SS02	---	---	10.0 U	---	---	---	10.0 U
SS04	---	---	10.0 U	---	---	---	10.0 U
SS05	---	---	10.0 U	---	---	---	10.0 U
SS06	---	---	10.0 U	---	---	---	10.0 U
SS07	---	---	10.0 U	---	---	---	10.0 U
SS08	---	---	10.0 U	---	---	---	10.0 U
SS09	---	---	10.0 U	---	---	---	10.0 U
SS10	---	---	10.0 U	---	---	---	10.0 U
SS11	---	---	10.0 U	---	---	---	10.0 U
SS12	---	---	10.0 U	---	---	---	10.0 U
SS13	---	---	10.0 U	---	---	---	10.0 U
SS14	---	---	10.0 U	---	---	---	10.0 U
SS15	---	---	10.0 U	---	---	---	10.0 U
SS16	---	---	10.0 U	---	---	---	10.0 U
SS17	---	---	10.0 U	---	---	---	10.0 U
SS18	---	---	10.0 U	---	---	---	10.0 U
SS19	---	---	10.0 U	---	---	---	10.0 U
SS20	---	---	10.0 U	---	---	---	10.0 U
SS21 (D2)	---	---	10.0 U	---	---	---	10.0 U
SS22	---	---	10.0 U	---	---	---	10.0 U
SS23	---	---	10.0 U	---	---	---	10.0 U
SS24	---	---	10.0 U	---	---	---	10.0 U
SS25	---	---	10.0 U	---	---	---	10.0 U
SS26	---	---	10.0 U	---	---	---	10.0 U
SS27	---	---	10.0 U	---	---	---	10.0 U
SS28	---	---	10.0 U	---	---	---	10.0 U
SS29 (D1)	---	---	10.0 U	---	---	---	10.0 U
SS30	---	---	10.0 U	---	---	---	10.0 U
SS31 (D1)	---	---	10.0 U	---	---	---	10.0 U
SS32 (D2)	---	---	10.0 U	---	---	---	10.0 U
SS33	---	---	10.0 U	---	---	---	10.0 U

Table C-7
(Continued)

Location	Bromoethane	Chlorethane	Methylene Chloride	Acetone	Carbon Disulfide	1,1-Dichloro-ethane	1,2-Dichloro-ethane
BLANK-27	---	---	10.0 U	---	---	---	10.0 U
BLANK-28	---	---	10.0 U	---	---	---	10.0 U
BLANK-29	---	---	10.0 U	---	---	---	10.0 U
BLANK-30	---	---	10.0 U	---	---	---	10.0 U
BLANK-31	---	---	10.0 U	---	---	---	10.0 U
BLANK-32	---	---	10.0 U	---	---	---	10.0 U
BLANK-33	---	---	10.0 U	---	---	---	10.0 U
BLANK-34	---	---	10.0 U	---	---	---	10.0 U
BLANK-35	---	---	10.0 U	---	---	---	10.0 U

Location	Chloroform	2-Butanone	1,1,1-Tri-chloroethane	Trichloro-ethane	Benzene	4-Methyl-2-Pentanone	2-Hexanone	Tetra-chlorene	1,1,2,2-Tetra-chloroethane
CS01	10.0 U	---	10.0 U	---	---	---	---	---	---
CS02	10.0 U	---	10.0 U	---	---	---	---	---	---
CS03	10.0 U	---	10.0 U	---	---	---	---	---	---
CS04	10.0 U	---	10.0 U	---	---	---	---	---	---
CS05	10.0 U	---	10.0 U	---	---	---	---	---	---
CS06	10.0 U	---	10.0 U	---	---	---	---	---	---
CS07	10.0 U	---	10.0 U	---	---	---	---	---	---
CS08	10.0 U	---	10.0 U	---	---	---	---	---	---
CS09	10.0 U	---	10.0 U	---	---	---	---	---	---
CS10	10.0 U	---	10.0 U	---	---	---	---	---	---
CS11	10.0 U	---	10.0 U	---	---	---	---	---	---
SS01	10.0 U	---	10.0 U	---	---	---	---	---	---
SS02	10.0 U	---	10.0 U	---	---	---	---	---	---
SS04	10.0 U	---	10.0 U	---	---	---	---	---	---
SS05	10.0 U	---	10.0 U	---	---	---	---	---	---
SS06	10.0 U	---	10.0 U	---	---	---	---	---	---
SS07	10.0 U	---	10.0 U	---	---	---	---	---	---
SS08	10.0 U	---	10.0 U	---	---	---	---	---	---
SS09	10.0 U	---	10.0 U	---	---	---	---	---	---
SS10	10.0 U	---	10.0 U	---	---	---	---	---	---
SS11	10.0 U	---	10.0 U	---	---	---	---	---	---
SS12	10.0 U	---	10.0 U	---	---	---	---	---	---
SS13	10.0 U	---	10.0 U	---	---	---	---	---	---
SS14	10.0 U	---	10.0 U	---	---	---	---	---	---
SS15	10.0 U	---	10.0 U	---	---	---	---	---	---
SS16	10.0 U	---	10.0 U	---	---	---	---	---	---
SS17	10.0 U	---	10.0 U	---	---	---	---	---	---
SS18	10.0 U	---	10.0 U	---	---	---	---	---	---
SS19	10.0 U	---	10.0 U	---	---	---	---	---	---
SS20	10.0 U	---	10.0 U	---	---	---	---	---	---

Table C-7
(Continued)

Location	Chloroform	2-Butanone	1,1,1-Tri-chloroethane	Trichloro-ethane	Benzene	4-Methyl-2-Pentanone	2-Hexanone	Tetra-chlorene	1,1,2,2-Tetra-chloroethane
SS21 (D2)	10.0 U	---	10.0 U	---	---	---	---	---	---
SS22	10.0 U	---	10.0 U	---	---	---	---	---	---
SS23	10.0 U	---	10.0 U	---	---	---	---	---	---
SS24	10.0 U	---	10.0 U	---	---	---	---	---	---
SS25	10.0 U	---	10.0 U	---	---	---	---	---	---
SS26	10.0 U	---	10.0 U	---	---	---	---	---	---
SS27	10.0 U	---	10.0 U	---	---	---	---	---	---
SS28	10.0 U	---	10.0 U	---	---	---	---	---	---
SS29 (D1)	10.0 U	---	10.0 U	---	---	---	---	---	---
SS30	10.0 U	---	10.0 U	---	---	---	---	---	---
SS31 (D1)	10.0 U	---	10.0 U	---	---	---	---	---	---
SS32 (D2)	10.0 U	---	10.0 U	---	---	---	---	---	---
SS33	10.0 U	---	10.0 U	---	---	---	---	---	---
BLANK-27	10.0 U	---	10.0 U	---	---	---	---	---	---
BLANK-28	10.0 U	---	10.0 U	---	---	---	---	---	---
BLANK-29	10.0 U	---	10.0 U	---	---	---	---	---	---
BLANK-30	10.0 U	---	10.0 U	---	---	---	---	---	---
BLANK-31	10.0 U	---	10.0 U	---	---	---	---	---	---
BLANK-32	10.0 U	---	10.0 U	---	---	---	---	---	---
BLANK-33	10.0 U	---	10.0 U	---	---	---	---	---	---
BLANK-34	10.0 U	---	10.0 U	---	---	---	---	---	---
BLANK-35	10.0 U	---	10.0 U	---	---	---	---	---	---

Location	Toluene	Ethylbenzene	Total Xylenes	Phenol	2-Methylphenol	4-Methylphenol	Isophorone	2,4-Dimethyl-phenol	Benzoic Acid
CS01	10.0 U	10.0 U	---	2900.0 U	---	---	---	---	---
CS02	10.0 U	10.0 U	---	670.0 U	---	---	---	---	---
CS03	10.0 U	10.0 U	---	81000.0 U	---	---	---	---	---
CS04	10.0 U	10.0 U	---	100000.0 U	---	---	---	---	---
CS05	10.0 U	10.0 U	---	140000.0 U	---	---	---	---	---
CS06	10.0 U	10.0 U	---	150000.0 U	---	---	---	---	---
CS07	10.0 U	10.0 U	---	21000.0 U	---	---	---	---	---
CS08	10.0 U	10.0 U	---	110000.0 U	---	---	---	---	---
CS09	10.0 U	10.0 U	---	1300.0 U	---	---	---	---	---
CS10	10.0 U	10.0 U	---	3300.0 U	---	---	---	---	---
CS11	10.0 U	10.0 U	---	100000.0 U	---	---	---	---	---
SS01	10.0 U	10.0 U	---	520.0 U	---	---	---	---	---
SS02	10.0 U	10.0 U	---	510.0 U	---	---	---	---	---
SS04	10.0 U	10.0 U	---	600.0 U	---	---	---	---	---
SS05	10.0 U	10.0 U	---	1800.0 U	---	---	---	---	---

Table C-7
(Continued)

Location	Toluene	Ethylbenzene	Total Xylenes	Phenol	2-Methylphenol	4-Methylphenol	Isophorone	2,4-Dimethyl-phenol	Benzoic Acid
SS06	10.0 U	10.0 U	---	21000.0 U	---	---	---	---	---
SS07	10.0 U	10.0 U	---	530.0 U	---	---	---	---	---
SS08	10.0 U	10.0 U	---	520.0 U	---	---	---	---	---
SS09	10.0 U	10.0 U	---	130000.0 U	---	---	---	---	---
SS10	10.0 U	10.0 U	---	510.0 U	---	---	---	---	---
SS11	10.0 U	10.0 U	---	6900.0 U	---	---	---	---	---
SS12	10.0 U	10.0 U	---	1600.0 U	---	---	---	---	---
SS13	10.0 U	10.0 U	---	1000.0 U	---	---	---	---	---
SS14	10.0 U	10.0 U	---	170000.0 U	---	---	---	---	---
SS15	10.0 U	10.0 U	---	130000.0 U	---	---	---	---	---
SS16	10.0 U	10.0 U	---	1500.0 U	---	---	---	---	---
SS17	10.0 U	10.0 U	---	5000.0 U	---	---	---	---	---
SS18	10.0 U	10.0 U	---	110000.0 U	---	---	---	---	---
SS19	10.0 U	10.0 U	---	510.0 U	---	---	---	---	---
SS20	10.0 U	10.0 U	---	59000.0 U	---	---	---	---	---
SS21 (D2)	10.0 U	10.0 U	---	130000.0 U	---	---	---	---	---
SS22	10.0 U	10.0 U	---	44000.0 U	---	---	---	---	---
SS23	10.0 U	10.0 U	---	130000.0 U	---	---	---	---	---
SS24	10.0 U	10.0 U	---	100000.0 U	---	---	---	---	---
SS25	10.0 U	10.0 U	---	5300.0 U	---	---	---	---	---
SS26	10.0 U	10.0 U	---	520.0 U	---	---	---	---	---
SS27	10.0 U	10.0 U	---	1000.0 U	---	---	---	---	---
SS28	10.0 U	10.0 U	---	44000.0 U	---	---	---	---	---
SS29 (D1)	10.0 U	10.0 U	---	21000.0 U	---	---	---	---	---
SS30	10.0 U	10.0 U	---	21000.0 U	---	---	---	---	---
SS31 (D1)	10.0 U	10.0 U	---	110000.0 U	---	---	---	---	---
SS32 (D2)	10.0 U	10.0 U	---	50000.0 J	---	---	---	---	---
SS33	10.0 U	10.0 U	---	140000.0 U	---	---	---	---	---
BLANK-27	10.0 U	10.0 U	---	500.0 U	---	---	---	---	---
BLANK-28	10.0 U	10.0 U	---	500.0 U	---	---	---	---	---
BLANK-29	10.0 U	10.0 U	---	20000.0 U	---	---	---	---	---
BLANK-30	10.0 U	10.0 U	---	20000.0 U	---	---	---	---	---
BLANK-31	10.0 U	10.0 U	---	20000.0 U	---	---	---	---	---
BLANK-32	10.0 U	10.0 U	---	---	---	---	---	---	---
BLANK-33	10.0 U	10.0 U	---	---	---	---	---	---	---
BLANK-34	10.0 U	10.0 U	---	---	---	---	---	---	---
BLANK-35	10.0 U	10.0 U	---	---	---	---	---	---	---

Table C-7
(Continued)

Location	Naphthalene	2-Methyl naphthalene	Acenaphthene	Fluorene	N-Nitrosodi-phenylamine	Phenanthrene	Anthracene	Di-N-Butyl phthalate
CS01	2900.0 U	2900.0 U	---	---	---	2900.0 U	10000.0 U	2900.0 U
CS02	670.0 U	670.0 U	---	---	---	670.0 U	10000.0 U	670.0 U
CS03	81000.0 U	81000.0 U	---	---	---	81000.0 U	10000.0 U	81000.0 U
CS04	100000.0 U	100000.0 U	---	---	---	100000.0 U	10000.0 U	100000.0 U
CS05	33000.0 J	53000.0 J	---	---	---	18000.0 J	10000.0 U	140000.0 U
CS06	54000.0 J	79000.0 J	---	---	---	35000.0 J	10000.0 U	150000.0 U
CS07	21000.0 U	21000.0 U	---	---	---	21000.0 U	10000.0 U	21000.0 U
CS08	110000.0 U	110000.0 U	---	---	---	110000.0 U	10000.0 U	110000.0 U
CS09	1300.0 U	1300.0 U	---	---	---	1300.0 U	10000.0 U	1300.0 U
CS10	3300.0 U	3300.0 U	---	---	---	3300.0 U	10000.0 U	3300.0 U
CS11	100000.0 U	100000.0 U	---	---	---	100000.0 U	10000.0 U	100000.0 U
SS01	520.0 U	520.0 U	---	---	---	520.0 U	10000.0 U	520.0 U
SS02	510.0 U	510.0 U	---	---	---	510.0 U	10000.0 U	52.0 J
SS04	600.0 U	600.0 U	---	---	---	600.0 U	10000.0 U	600.0 U
SS05	1800.0 U	1800.0 U	---	---	---	1800.0 U	10000.0 U	1800.0 U
SS06	21000.0 U	21000.0 U	---	---	---	21000.0 U	10000.0 U	21000.0 U
SS07	530.0 U	530.0 U	---	---	---	530.0 U	10000.0 U	530.0 U
SS08	520.0 U	520.0 U	---	---	---	520.0 U	10000.0 U	110.0 J
SS09	130000.0 U	23000.0 J	---	---	---	18000.0 J	10000.0 U	130000.0 U
SS10	510.0 U	510.0 U	---	---	---	510.0 U	10000.0 U	510.0 U
SS11	6900.0 U	6900.0 U	---	---	---	6900.0 U	10000.0 U	6900.0 U
SS12	1600.0 U	1600.0 U	---	---	---	1600.0 U	10000.0 U	1600.0 U
SS13	1000.0 U	1000.0 U	---	---	---	1000.0 U	10000.0 U	1000.0 U
SS14	270000.0 U	270000.0 U	---	---	---	270000.0 U	10000.0 U	270000.0 U
SS15	130000.0 U	130000.0 U	---	---	---	130000.0 U	10000.0 U	130000.0 U
SS16	1500.0 U	1500.0 U	---	---	---	1500.0 U	10000.0 U	150.0 J
SS17	5000.0 U	5000.0 U	---	---	---	5000.0 U	10000.0 U	5000.0 U
SS18	110000.0 U	110000.0 U	---	---	---	110000.0 U	10000.0 U	110000.0 U
SS19	510.0 U	510.0 U	---	---	---	510.0 U	10000.0 U	100.0 J
SS20	59000.0 U	59000.0 U	---	---	---	12000.0 J	10000.0 U	59000.0 U
SS21 (D2)	130000.0 U	130000.0 U	---	---	---	130000.0 U	10000.0 U	130000.0 U
SS22	44000.0 U	44000.0 U	---	---	---	44000.0 U	10000.0 U	44000.0 U
SS23	130000.0 U	130000.0 U	---	---	---	130000.0 U	10000.0 U	130000.0 U
SS24	100000.0 U	100000.0 U	---	---	---	100000.0 U	10000.0 U	100000.0 U
SS25	5300.0 U	5300.0 U	---	---	---	5300.0 U	10000.0 U	5300.0 U
SS26	520.0 U	520.0 U	---	---	---	520.0 U	10000.0 U	64.0 J
SS27	1000.0 U	1000.0 U	---	---	---	1000.0 U	10000.0 U	1000.0 U
SS28	44000.0 U	44000.0 U	---	---	---	44000.0 U	10000.0 U	44000.0 U
SS29 (D1)	21000.0 U	21000.0 U	---	---	---	21000.0 U	10000.0 U	21000.0 U
SS30	21000.0 U	21000.0 U	---	---	---	21000.0 U	10000.0 U	21000.0 U
SS31 (D1)	110000.0 U	110000.0 U	---	---	---	110000.0 U	10000.0 U	110000.0 U
SS32 (D2)	270000.0 U	270000.0 U	---	---	---	270000.0 U	10000.0 U	270000.0 U
SS33	140000.0 U	21000.0 J	---	---	---	23000.0 J	10000.0 U	140000.0 U

Table C-7
(Continued)

Location	Naphthalene	2-Methyl naphthalene	Acenaphthene	Fluorene	N-Nitrosodi-phenylamine	Phenanthrene	Anthracene	Di-N-Butyl phthalate
BLANK-27	500.0 U	500.0 U	---	---	---	500.0 U	10000.0 U	280.0
BLANK-28	500.0 U	500.0 U	---	---	---	500.0 U	10000.0 U	57.0
BLANK-29	20000.0 U	20000.0 U	---	---	---	20000.0 U	10000.0 U	20000.0 U
BLANK-30	20000.0 U	20000.0 U	---	---	---	20000.0 U	10000.0 U	20000.0 U
BLANK-31	20000.0 U	20000.0 U	---	---	---	20000.0 U	10000.0 U	20000.0 U
BLANK-32	10000.0 U	---	---	---	---	10000.0 U	10000.0 U	--- NA
BLANK-33	10000.0 U	---	---	---	---	10000.0 U	10000.0 U	--- NA
BLANK-34	10000.0 U	---	---	---	---	10000.0 U	10000.0 U	--- NA
BLANK-35	10000.0 U	---	---	---	---	10000.0 U	10000.0 U	--- NA

Location	Fluoranthene	Pyrene	Benzo(a) Anthracene	Chrysene	Bis(2-Ethyl-hexyl) Phthalate	Benzo(k) Fluoranthane	Benzo(a) Pyrene	Chlorobenzene	Dibenzofuran
CS01	---	---	10000.0 U	---	2900.0 U	---	---	10.0 U	---
CS02	---	---	10000.0 U	---	670.0 U	---	---	10.0 U	---
CS03	---	---	10000.0 U	---	81000.0 U	---	---	10.0 U	---
CS04	---	---	10000.0 U	---	100000.0 U	---	---	10.0 U	---
CS05	---	---	10000.0 U	---	100000.0 J	---	---	10.0 U	---
CS06	---	---	10000.0 U	---	150000.0 U	---	---	10.0 U	---
CS07	---	---	10000.0 U	---	21000.0 U	---	---	10.0 U	---
CS08	---	---	10000.0 U	---	110000.0 U	---	---	10.0 U	---
CS09	---	---	10000.0 U	---	580.0 J	---	---	10.0 U	---
CS10	---	---	10000.0 U	---	3300.0 U	---	---	10.0 U	---
CS11	---	---	10000.0 U	---	100000.0 U	---	---	10.0 U	---
SS01	---	---	10000.0 U	---	520.0 U	---	---	10.0 U	---
SS02	---	---	10000.0 U	---	510.0 U	---	---	10.0 U	---
SS04	---	---	10000.0 U	---	600.0 U	---	---	10.0 U	---
SS05	---	---	10000.0 U	---	1800.0 U	---	---	10.0 U	---
SS06	---	---	10000.0 U	---	21000.0 U	---	---	10.0 U	---
SS07	---	---	10000.0 U	---	530.0 U	---	---	10.0 U	---
SS08	---	---	10000.0 U	---	520.0 U	---	---	10.0 U	---
SS09	---	---	10000.0 U	---	130000.0 U	---	---	10.0 U	---
SS10	---	---	10000.0 U	---	510.0 U	---	---	10.0 U	---
SS11	---	---	10000.0 U	---	6900.0 U	---	---	10.0 U	---
SS12	---	---	10000.0 U	---	1600.0 U	---	---	10.0 U	---
SS13	---	---	10000.0 U	---	1000.0 U	---	---	10.0 U	---
SS14	---	---	10000.0 U	---	270000.0 U	---	---	10.0 U	---
SS15	---	---	10000.0 U	---	130000.0 U	---	---	10.0 U	---
SS16	---	---	10000.0 U	---	1500.0 U	---	---	10.0 U	---
SS17	---	---	10000.0 U	---	5000.0 U	---	---	10.0 U	---
SS18	---	---	10000.0 U	---	110000.0 U	---	---	10.0 U	---
SS19	---	---	10000.0 U	---	510.0 U	---	---	10.0 U	---

Table C-7
(Continued)

Location	Fluoranthene	Pyrene	Benzo(a) Anthracene	Chrysene	Bis(2-Ethyl-hexyl) Phthalate	Benzo(k) Fluoranthane	Benzo(a) Pyrene	Chlorobenzene	Dibenzofuran
SS20	---	---	10000.0 U	---	59000.0 U	---	---	10.0 U	---
SS21 (D2)	---	---	10000.0 U	---	130000.0 U	---	---	10.0 U	---
SS22	---	---	10000.0 U	---	44000.0 U	---	---	10.0 U	---
SS23 (D3)	---	---	10000.0 U	---	130000.0 U	---	---	10.0 U	---
SS24	---	---	10000.0 U	---	100000.0 U	---	---	10.0 U	---
SS25	---	---	10000.0 U	---	5300.0 U	---	---	10.0 U	---
SS26	---	---	10000.0 U	---	520.0 U	---	---	10.0 U	---
SS27	---	---	10000.0 U	---	1000.0 U	---	---	10.0 U	---
SS28	---	---	10000.0 U	---	44000.0 U	---	---	10.0 U	---
SS29 (D1)	---	---	10000.0 U	---	7800.0 J	---	---	10.0 U	---
SS30	---	---	10000.0 U	---	21000.0 U	---	---	10.0 U	---
SS31 (D1)	---	---	10000.0 U	---	110000.0 U	---	---	10.0 U	---
SS32 (D2)	---	---	10000.0 U	---	270000.0 U	---	---	10.0 U	---
SS33 (D3)	---	---	10000.0 U	---	140000.0 U	---	---	10.0 U	---
BLANK-28	---	---	10000.0 U	---	500.0 U	---	---	10.0 U	---
BLANK-29	---	---	10000.0 U	---	20000.0 U	---	---	10.0 U	---
BLANK-30	---	---	10000.0 U	---	20000.0 U	---	---	10.0 U	---
BLANK-31	---	---	10000.0 U	---	2300.0	---	---	10.0 U	---
BLANK-32	---	---	10000.0 U	---	--- NA	---	---	10.0 U	---
BLANK-33	---	---	10000.0 U	---	--- NA	---	---	10.0 U	---
BLANK-34	---	---	10000.0 U	---	--- NA	---	---	10.0 U	---
BLANK-35	---	---	10000.0 U	---	--- NA	---	---	10.0 U	---

Location	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	4,4'-DDD	4,4'-DDE	4,4'-DDT	ENDOSULFAN I	ENDOSULFAN II
CS01	---	---	190.0 U	190.0 U	6.0 J	19.0 U	19.0 U	9.5 U	19.0 U
CS02	---	---	220.0 U	220.0 U	15.0 J	19.0 J	22.0 U	11.0 U	22.0 U
CS03	---	---	2600.0 U	2600.0 U	260.0 U	260.0 U	260.0 U	130.0 U	260.0 U
CS04	---	---	2500.0 U	2500.0 U	250.0 U	250.0 U	250.0 U	130.0 U	250.0 U
CS05	---	---	3400.0 U	3400.0 U	340.0 U	340.0 U	340.0 U	170.0 U	340.0 U
CS06	---	---	37000.0 U	37000.0 U	3700.0 U	3700.0 U	3700.0 U	1800.0 U	3700.0 U
CS07	---	---	2500.0 U	2500.0 U	250.0 U	250.0 U	250.0 U	130.0 U	250.0 U
CS08	---	---	2600.0 U	2600.0 U	280.0	260.0 U	260.0 U	230.0	260.0 U
CS09	---	---	210.0 U	210.0 U	19.0 J	21.0 U	21.0 U	10.0 U	21.0 U
CS10	---	---	220.0 U	220.0 U	9.0 J	22.0 U	22.0 U	11.0 U	22.0 U
CS11	---	---	2500.0 U	2500.0 U	250.0 U	250.0 U	250.0 U	130.0 U	250.0 U
SS01	---	---	170.0 U	170.0 U	17.0 U	12.0 J	17.0 U	8.4 U	17.0 U
SS02	---	---	160.0 U	160.0 U	16.0 U	16.0 U	16.0 U	8.2 U	16.0 U
SS04	---	---	190.0 U	190.0 U	19.0 U	19.0 U	13.0 J	9.7 U	19.0 U
SS05	---	---	200.0 U	200.0 U	19.0 J	20.0 U	20.0 U	9.8 U	17.0 J

Table C-7
(Continued)

Location	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	4,4'-DDD	4,4'-DDE	4,4'-DDT	ENDOSULFAN I	ENDOSULFAN II
SS06	---	---	2600.0 U	2600.0 U	260.0 U	260.0 U	260.0 U	130.0 U	540.0
SS07	---	---	170.0 U	170.0 U	17.0 U	17.0 U	17.0 U	8.5 U	17.0 U
SS08	---	---	170.0 U	170.0 U	17.0 U	17.0 U	17.0 U	8.4 U	17.0 U
SS09	---	---	31000.0 U	31000.0 U	3100.0 U	3100.0 U	3100.0 U	1600.0 U	3100.0 U
SS10	---	---	160.0 U	160.0 U	16.0 U	16.0 U	16.0 U	8.2 U	16.0 U
SS11	---	---	2600.0 U	2600.0 U	260.0 U	260.0 U	260.0 U	130.0 U	260.0 U
SS12	---	---	1700.0 U	1700.0 U	170.0 U	170.0 U	170.0 U	85.0 U	170.0 U
SS13	---	---	170.0 U	170.0 U	17.0 U	17.0 U	17.0 U	8.4 U	17.0 U
SS14	---	---	3300.0 U	3300.0 U	150.0 J	330.0 U	330.0 U	160.0 U	330.0 U
SS15	---	---	3100.0 U	3100.0 U	310.0 U	310.0 U	310.0 U	150.0 U	310.0 U
SS16	---	---	160.0 U	160.0 U	16.0 U	16.0 U	16.0 U	8.2 U	16.0 U
SS17	---	---	160.0 U	160.0 U	77.0	87.0	590.0	8.2 U	16.0 U
SS18	---	---	11000.0	2800.0 U	280.0 U	280.0 U	280.0 U	140.0 U	220.0 J
SS19	---	---	160.0 U	160.0 U	16.0 U	16.0 U	16.0 U	8.2 U	16.0 U
SS20	---	---	2500.0 U	2500.0 U	250.0 U	250.0 U	250.0 U	120.0 U	250.0 U
SS21	---	---	3000.0 U	3000.0 U	300.0 U	170.0 J	300.0 U	150.0 U	270.0 J
SS22	---	---	2700.0 U	2700.0 U	270.0 U	270.0 U	270.0 U	130.0 U	270.0 U
SS23 (D3)	---	---	31000.0 U	31000.0 U	3100.0 U	1500.0 J	3100.0 U J	1600.0 U	3100.0 U
SS24	---	---	2400.0 U	2400.0 U	130.0 J	240.0 U	240.0 U	120.0 U	240.0 U
SS25	---	---	3000.0	1700.0 U	170.0 U	170.0 U	170.0 U	86.0 U	170.0 U
SS26	---	---	170.0 U	170.0 U	17.0 U	17.0 U	18.0	8.4 U	17.0 U
SS27	---	---	170.0 U	170.0 U	71.0	44.0	86.0	8.5 U	10.0 U
SS28	---	---	2700.0 U	1300.0 J	270.0 U	270.0 U	270.0 U	130.0 U	270.0 U
SS29 (D1)	---	---	11000.0	2600.0 U	260.0 U	260.0 U	260.0 U	130.0 U	260.0 U
SS30	---	---	2700.0 U	1300.0 J	270.0 U	270.0 U	270.0 U	150.0 U	290.0 U
SS31 (D1)	---	---	13000.0	2600.0 U	260.0 U	260.0 U	260.0 U	130.0 U	260.0 U
SS32	---	---	3100.0 U	3300.0 U	330.0 U	330.0 U	330.0 U	160.0 U	310.0 J
SS33 (D3)	---	---	34000.0 U	34000.0 U	3400.0 U	3400.0 U	3400.0 U	1700.0 U	3400.0 U
BLANK-27	---	---	---	---	---	---	---	---	---
BLANK-28	---	---	---	---	---	---	---	---	---
BLANK-29	---	---	---	---	---	---	---	---	---
BLANK-30	---	---	---	---	---	---	---	---	---
BLANK-31	---	---	---	---	---	---	---	---	---
BLANK-32	---	---	2400.0 U	2400.0 U	240.0 U	240.0 U	240.0 U	120.0 U	240.0 U
BLANK-33	---	---	160.0 U	160.0 U	16.0 U	16.0 U	16.0 U	8.0 U	16.0 U
BLANK-34	---	---	2400.0 U	2400.0 U	240.0 U	240.0 U	240.0 U	120.0 U	240.0 U
BLANK-35	---	---	2400.0 U	2400.0 U	240.0 U	240.0 U	240.0 U	120.0 U	240.0 U

Table C-7
(Continued)

Location	1,1-Dichloro-ethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	1,2-Dichloro-propane	1,1,2-Tri-chloropropane	1,2-Dichloro-benzene	Di-n-Octyl Phthalate	Beta-BHC	Gamma-BHC (Lindane)
CS01	---	---	---	10.0 U	---	---	10000.0 U	9.5 U	9.5 U
CS02	---	---	---	10.0 U	---	---	10000.0 U	11.0 U	11.0 U
CS03	---	---	---	10.0 U	---	---	10000.0 U	130.0 U	130.0 U
CS04	---	---	---	10.0 U	---	---	10000.0 U	130.0 U	130.0 U
CS05	---	---	---	10.0 U	---	---	10000.0 U	170.0 U	84.0 J
CS06	---	---	---	10.0 U	---	---	10000.0 U	1800.0 U	1800.0 U
CS07	---	---	---	10.0 U	---	---	10000.0 U	130.0 U	130.0 U
CS08	---	---	---	10.0 U	---	---	10000.0 U	130.0 U	130.0 U
CS09	---	---	---	10.0 U	---	---	10000.0 U	10.0 U	10.0 U
CS10	---	---	---	10.0 U	---	---	10000.0 U	11.0 U	11.0 U
CS11	---	---	---	10.0 U	---	---	10000.0 U	130.0 U	130.0 U
SS01	---	---	---	10.0 U	---	---	10000.0 U	8.4 U	8.4 U
SS02	---	---	---	10.0 U	---	---	10000.0 U	8.2 U	8.2 U
SS04	---	---	---	10.0 U	---	---	10000.0 U	9.7 U	9.7 U
SS05	---	---	---	10.0 U	---	---	10000.0 U	9.8 U	9.8 U
SS06	---	---	---	10.0 U	---	---	10000.0 U	85.0 J	130.0 U
SS07	---	---	---	10.0 U	---	---	10000.0 U	8.5 U	8.5 U
SS08	---	---	---	10.0 U	---	---	10000.0 U	8.4 U	8.4 U
SS09	---	---	---	10.0 U	---	---	10000.0 U	1600.0 U	1600.0 U
SS10	---	---	---	10.0 U	---	---	10000.0 U	8.2 U	8.2 U
SS11	---	---	---	10.0 U	---	---	10000.0 U	130.0 U	130.0 U
SS12	---	---	---	10.0 U	---	---	10000.0 U	85.0 U	85.0 U
SS13	---	---	---	10.0 U	---	---	10000.0 U	8.4 U	8.4 U
SS14	---	---	---	10.0 U	---	---	10000.0 U	160.0 U	160.0 U
SS15	---	---	---	10.0 U	---	---	10000.0 U	150.0 U	150.0 U
SS16	---	---	---	10.0 U	---	---	10000.0 U	8.2 U	8.2 U
SS17	---	---	---	10.0 U	---	---	10000.0 U	8.2 U	8.2 U
SS18	---	---	---	10.0 U	---	---	10000.0 U	140.0 U	140.0 U
SS19	---	---	---	10.0 U	---	---	10000.0 U	8.2 U	8.2 U
SS20	---	---	---	10.0 U	---	---	10000.0 U	120.0 U	120.0 U
SS21	---	---	---	10.0 U	---	---	10000.0 U	150.0 U	150.0 U
SS22	---	---	---	10.0 U	---	---	10000.0 U	130.0 U	130.0 U
SS23 (D3)	---	---	---	10.0 U	---	---	10000.0 U	1600.0 U	1600.0 U
SS24	---	---	---	10.0 U	---	---	10000.0 U	120.0 U	120.0 U
SS25	---	---	---	10.0 U	---	---	10000.0 U	78.0 J	86.0 U
SS26	---	---	---	10.0 U	---	---	10000.0 U	8.4 U	8.4 U
SS27	---	---	---	10.0 U	---	---	10000.0 U	8.5 U	8.5 U
SS28	---	---	---	10.0 U	---	---	44000.0 U	130.0 U	130.0 U
SS29 (D1)	---	---	---	10.0 U	---	---	10000.0 U	130.0 U	130.0 U
SS30	---	---	---	10.0 U	---	---	10000.0 U	150.0 U	150.0 U
SS31 (D1)	---	---	---	10.0 U	---	---	10000.0 U	130.0 U	130.0 U
SS32	---	---	---	10.0 U	---	---	10000.0 U	160.0 U	160.0 U
SS33 (D3)	---	---	---	10.0 U	---	---	10000.0 U	1700.0 U	1700.0 U

Table C-7
(Continued)

Location	1,1-Dichloro-ethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	1,2-Dichloro-propane	1,1,2-Tri-chloropropane	1,2-Dichloro-benzene	Di-n-Octyl Phthalate	Beta-BHC	Gamma-BHC (Lindane)
BLANK-27	---	---	---	10.0 U	---	---	10000.0 U	--- NA	--- NA
BLANK-28	---	---	---	10.0 U	---	---	10000.0 U	--- NA	--- NA
BLANK-29	---	---	---	10.0 U	---	---	10000.0 U	--- NA	--- NA
BLANK-30	---	---	---	10.0 U	---	---	10000.0 U	--- NA	--- NA
BLANK-31	---	---	---	10.0 U	---	---	10000.0 U	--- NA	--- NA
BLANK-32	---	---	---	10.0 U	---	---	10000.0 U	120.0 U	120.0 U
BLANK-33	---	---	---	10.0 U	---	---	10000.0 U	8.0 U	8.0 U
BLANK-34	---	---	---	10.0 U	---	---	10000.0 U	120.0 U	120.0 U
BLANK-35	---	---	---	10.0 U	---	---	10000.0 U	120.0 U	120.0 U

Location	Heptachlor	Aldrin	Heptachlor Epoxide	Butylbenzyl phthalate	Diethyl phthalate	Dieldrin	Trichloro-ethylene	1,2-trans-chloroethylene	Tetrachloro-ethylene
CS01	9.5 U	9.5 U	9.5 U	2900.0 U	2900.0 U	19.0 U	10.0 U	---	---
CS02	11.0 U	11.0 U	11.0 U	670.0 U	670.0 U	220.0 U	10.0 U	---	---
CS03	130.0 U	130.0 U	79.0 J	81000.0 U	81000.0 U	260.0 U	10.0 U	---	---
CS04	77.0 J	130.0 U	130.0 U	100000.0 U	100000.0 U	250.0 U	10.0 U	---	---
CS05	170.0 U	170.0 U	200.0	140000.0 U	140000.0 U	340.0 U	10.0 U	---	---
CS06	1800.0 U	1800.0 U	1400.0 J	150000.0 U	150000.0 U	3700.0 U	10.0 U	---	---
CS07	130.0 U	130.0 U	130.0 U	21000.0 U	21000.0 U	250.0 U	10.0 U	---	---
CS08	130.0 U	130.0 U	210.0	110000.0 U	110000.0 U	130.0 J	10.0 U	---	---
CS09	10.0 U	10.0 U	10.0 U	520.0 J	1300.0 U	21.0 U	10.0 U	---	---
CS10	11.0 U	11.0 U	11.0 U	3300.0 U	3300.0 U	22.0 U	10.0 U	---	---
CS11	130.0 U	130.0 U	130.0 U	100000.0 U	100000.0 U	250.0 U	10.0 U	---	---
SS01	8.4 U	8.4 U	8.4 U	520.0 U	520.0 U	17.0 U	10.0 U	---	---
SS02	8.2 U	8.2 U	8.2 U	510.0 U	510.0 U	16.0 U	10.0 U	---	---
SS04	9.7 U	9.7 U	9.7 U	600.0 U	600.0 U	27.0	10.0 U	---	---
SS05	9.8 U	9.8 U	9.8 U	1800.0 U	1800.0 U	20.0 U	10.0 U	---	---
SS06	130.0 U	130.0 U	130.0 U	21000.0 U	21000.0 U	260.0 U	10.0 U	---	---
SS07	8.5 U	8.5 U	8.5 U	530.0 U	530.0 U	17.0 U	10.0 U	---	---
SS08	8.4 U	8.4 U	8.4 U	520.0 U	520.0 U	17.0 U	10.0 U	---	---
SS09	1600.0 U	1600.0 U	1200.0 J	130000.0 U	130000.0 U	3100.0 U	10.0 U	---	---
SS10	8.2 U	8.2 U	8.2 U	510.0 U	510.0 U	16.0 U	10.0 U	---	---
SS11	130.0 U	130.0 U	130.0 U	6900.0 U	6900.0 U	350.0	10.0 U	---	---
SS12	85.0 U	85.0 U	85.0 U	1600.0 U	1600.0 U	170.0 U	10.0 U	---	---
SS13	8.4 U	8.4 U	8.4 U	1000.0 U	1000.0 U	17.0 U	10.0 U	---	---
SS14	170.0	160.0 U	160.0 U	270000.0 U	270000.0 U	330.0 U	10.0 U	---	---
SS15	150.0 U	150.0 U	500.0	130000.0 U	130000.0 U	310.0 U	10.0 U	---	---
SS16	8.2 U	8.2 U	8.2 U	1500.0 U	1500.0 U	16.0 U	10.0 U	---	---
SS17	8.2 U	8.2 U	8.2 U	5000.0 U	5000.0 U	16.0 U	10.0 U	---	---
SS18	140.0 U	140.0 U	140.0 U	110000.0 U	110000.0 U	280.0 U	10.0 U	---	---
SS19	8.2 U	8.2 U	8.2 U	510.0 U	510.0 U	16.0 U	10.0 U	---	---
SS20	120.0 U	120.0 U	270.0	59000.0 U	59000.0 U	250.0 U	10.0 U	---	---

Table C-7
(Continued)

Location	Heptachlor	Aldrin	Heptachlor Epoxide	Butylbenzyl phthalate	Diethyl phthalate	Dieldrin	Trichloro-ethylene	1,2-trans-chloroethylene	Tetrachloro-ethylene
SS21 (D2)	150.0 U	150.0 U	320.0	130000.0 U	130000.0 U	300.0 U	10.0 U	---	---
SS22	130.0 U	130.0 U	130.0 U	44000.0 U	44000.0 U	270.0 U	10.0 U	---	---
SS23 (D3)	1600.0 U	1600.0 U	1200.0 J	130000.0 U	130000.0 U	3100.0 U	10.0 U	---	---
SS24	120.0 U	120.0 U	66.0 J	100000.0 U	100000.0 U	240.0 U	10.0 U	---	---
SS25	86.0 U	63.0 J	180.0	5300.0 U	5300.0 U	170.0 U	10.0 U	---	---
SS26	8.4 U	8.4 U	8.4 U	520.0 U	150.0 J	17.0 U	10.0 U	---	---
SS27	130.0 U	130.0 U	130.0 U	1000.0 U	1000.0 U	39.0	10.0 U	---	---
SS28	130.0 U	130.0 U	130.0 U	44000.0 U	44000.0 U	270.0 U	10.0 U	---	---
SS29 (D1)	130.0 U	65.0 J	130.0 U	21000.0 U	21000.0 U	260.0 U	10.0 U	---	---
SS30	150.0 U	100.0 J	160.0	21000.0 U	21000.0 U	---	10.0 U	---	---
SS31 (D1)	130.0 U	76.0 J	130.0 U	110000.0 U	110000.0 U	260.0 U	10.0 U	---	---
SS32 (D2)	160.0 U	160.0 U	1000.0	270000.0 U	270000.0 U	330.0 U	10.0 U	---	---
SS33 (D3)	1700.0 U	1700.0 U	1400.0 J	140000.0 U	140000.0 U	3400.0 U	10.0 U	---	---
BLANK-27	---	---	---	500.0 U	500.0 U	---	10.0 U	---	---
BLANK-28	---	---	---	500.0 U	500.0 U	---	10.0 U	---	---
BLANK-29	---	---	---	20000.0 U	20000.0 U	---	10.0 U	---	---
BLANK-30	---	---	---	20000.0 U	20000.0 U	---	10.0 U	---	---
BLANK-31	---	---	---	20000.0 U	20000.0 U	---	10.0 U	---	---
BLANK-32	120.0 U	120.0 U	120.0 U	--- NA	---	240.0 U	10.0 U	---	---
BLANK-33	8.0 U	8.0 U	8.0 U	--- NA	---	16.0 U	10.0 U	---	---
BLANK-34	120.0 U	120.0 U	120.0 U	--- NA	---	240.0 U	10.0 U	---	---
BLANK-35	120.0 U	120.0 U	120.0 U	--- NA	---	240.0 U	10.0 U	---	---

Location	Tetrachloro-ethene	Pentachloro-phenol	1,2-Dichloro-ethene	Chrysene	Chloro-methane	1,4-Dichloro-benzene	1,2,4-Trichloro-benzene	Benzo(g,h,i) Perylene	Benzo(b) Fluoranthene
CS01	10.0 U	---	10.0 U	---	---	---	---	---	---
CS02	10.0 U	---	10.0 U	---	---	---	---	---	---
CS03	10.0 U	---	10.0 U	---	---	---	---	---	---
CS04	10.0 U	---	10.0 U	---	---	---	---	---	---
CS05	10.0 U	---	10.0 U	---	---	---	---	---	---
CS06	10.0 U	---	10.0 U	---	---	---	---	---	---
CS07	10.0 U	---	10.0 U	---	---	---	---	---	---
CS08	10.0 U	---	10.0 U	---	---	---	---	---	---
CS09	10.0 U	---	10.0 U	---	---	---	---	---	---
CS10	10.0 U	---	10.0 U	---	---	---	---	---	---
CS11	10.0 U	---	10.0 U	---	---	---	---	---	---
SS01	10.0 U	---	10.0 U	---	---	---	---	---	---
SS02	10.0 U	---	10.0 U	---	---	---	---	---	---
SS04	10.0 U	---	10.0 U	---	---	---	---	---	---
SS05	10.0 U	---	10.0 U	---	---	---	---	---	---
SS06	10.0 U	---	10.0 U	---	---	---	---	---	---

Table C-7
(Continued)

Location	Tetrachloro-ethene	Pentachloro-phenol	1,2-Dichloro-ethene	Chrysene	Chloro-methane	1,4-Dichloro-benzene	1,2,4-Trichloro-benzene	Benzo(g,h,i) Perylene	Benzo(b) Fluoranthene
SS07	10.0 U	---	10.0 U	---	---	---	---	---	---
SS08	10.0 U	---	10.0 U	---	---	---	---	---	---
SS09	10.0 U	---	10.0 U	---	---	---	---	---	---
SS10	10.0 U	---	10.0 U	---	---	---	---	---	---
SS11	10.0 U	---	10.0 U	---	---	---	---	---	---
SS12	10.0 U	---	10.0 U	---	---	---	---	---	---
SS13	10.0 U	---	10.0 U	---	---	---	---	---	---
SS14	10.0 U	---	10.0 U	---	---	---	---	---	---
SS15	10.0 U	---	10.0 U	---	---	---	---	---	---
SS16	10.0 U	---	10.0 U	---	---	---	---	---	---
SS17	10.0 U	---	10.0 U	---	---	---	---	---	---
SS18	10.0 U	---	10.0 U	---	---	---	---	---	---
SS19	10.0 U	---	10.0 U	---	---	---	---	---	---
SS20	10.0 U	---	10.0 U	---	---	---	---	---	---
SS21 (D2)	10.0 U	---	10.0 U	---	---	---	---	---	---
SS22	10.0 U	---	10.0 U	---	---	---	---	---	---
SS23 (D3)	10.0 U	---	10.0 U	---	---	---	---	---	---
SS24	10.0 U	---	10.0 U	---	---	---	---	---	---
SS25	10.0 U	---	10.0 U	---	---	---	---	---	---
SS26	10.0 U	---	10.0 U	---	---	---	---	---	---
SS27	10.0 U	---	10.0 U	---	---	---	---	---	---
SS28	10.0 U	---	10.0 U	---	---	---	---	---	---
SS29 (D1)	10.0 U	---	10.0 U	---	---	---	---	---	---
SS30	10.0 U	---	10.0 U	---	---	---	---	---	290.0 U
SS31 (D1)	10.0 U	---	10.0 U	---	---	---	---	---	---
SS32 (D2)	10.0 U	---	10.0 U	---	---	---	---	---	---
SS33 (D3)	10.0 U	---	10.0 U	---	---	---	---	---	---
BLANK-27	10.0 U	---	10.0 U	---	---	---	---	---	---
BLANK-28	10.0 U	---	10.0 U	---	---	---	---	---	---
BLANK-29	10.0 U	---	10.0 U	---	---	---	---	---	---
BLANK-30	10.0 U	---	10.0 U	---	---	---	---	---	---
BLANK-31	10.0 U	---	10.0 U	---	---	---	---	---	---
BLANK-32	10.0 U	---	10.0 U	---	---	---	---	---	---
BLANK-33	10.0 U	---	10.0 U	---	---	---	---	---	---
BLANK-34	10.0 U	---	10.0 U	---	---	---	---	---	---
BLANK-35	10.0 U	---	10.0 U	---	---	---	---	---	---

Note: BLANK-27--Low-level semivolatile blank associated with all low-level samples.
BLANK-28--Low-level semivolatile blank. No samples were extracted with this blank.
BLANK-29--Medium-level semivolatile blank associated with SS09, SS18, SS21, SS22, SS23, SS28, SS31, CS06, CS11.
BLANK-30--Medium-level semivolatile blank associated with SS14, SS15, SS32, CS03, CS05, CS08.
BLANK-31--Medium-level semivolatile blank associated with SS06, SS20, SS24, SS29, SS30, CS04, CS07.
BLANK-32--Medium-level blank for pesticides/PCBs associated with SS18, SS21, SS22, SS28, SS31, CS11.
BLANK-33--Low-level blank for pesticides/PCBs associated with all low-level samples.
BLANK-34--Medium-level pesticide/PCB blank associated with SS14, SS15, SS20, SS32, CS03, CS05, CS08.
BLANK-35--Medium-level pesticide/PCB blank associated with SS06, SS09, SS11, SS23, SS24, SS29, SS30, CS04, CS06, CS07.

Table C-8
PURITY OIL--CH2M HILL DATA
SURFACE AND CANAL SAMPLES: MISCELLANEOUS PARAMETERS

Location	pH	Sulfide µg/g	Cyanide µg/g
CS04	3.4	<10	≥10
CS05	1.9	<10	≥10
CS06	2.0	<10	≥10
CS11	3.6	<10	≥10
SS09 (D2)	1.7	<10	<10
SS14	1.8	<10	<10
SS14 (D2)	2.3	<10	<10
SS18	6.1	<10	<10
SS20	2.0	<10	<10
SS21	1.8	<10	≥10
SS23	1.6	<10	<10
SS30	5.6	<10	<10
SS32 (D1)	2.2	<10	≥10

Note: Positive = ≥ 10 µg/g
Negative = 10 µg/g

Table C-9
PURITY OIL--CH2M HILL DATA
SHALLOW BORING SAMPLES: EP TOXICITY RESULTS
units are in mg/l (ppm)

Location	Depth	Arsensic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver
SB1-01	3.8 - 4.2	0.010 U	0.010 P J	0.030	0.522	2.920	0.0002 U	0.050 U J	0.010 U
SB2-01	5.1 - 5.8	0.010 U	0.077 P J	0.005 U	0.010 U	0.024	0.0002 U	0.005 U J	0.010 U
SB3-05	4.5 - 6.0	0.010 U	0.028 P J	0.064	0.174	0.422	0.0002 U	0.050 U	0.010 U
SB4-01	5.0 - 7.5	0.016	0.023 P J	0.022	0.037	1.500	0.0002 U	0.050 U J	0.010 U
SB5-01	5.0 - 6.0	0.010 U	0.009 P J	0.013	0.995	2.050	0.0002 U	0.050 U J	0.010 U
SB5-02	5.0 - 6.0	0.100 U	0.010 P J	0.026	1.450	3.060	0.0002 U	0.050 U J	0.010 U
SB6-02	8.0 - 9.0	0.010 U	0.085 P J	0.005 U	0.010 U	4.020	0.0002 U	0.050 U J	0.010 U
SB7-02	8.0 - 8.5	0.023	0.198 P J	0.009	0.010 U	1.650	0.0002 U	0.050 U J	0.010 U
SB8-04	6.5 - 8.0	0.010 U	0.119 P	0.005 U	0.010 U	1.250 J	0.0002 U	0.005 U	0.010 U
SB9-04	8.5 - 10.0	0.010 U	0.041 P	0.021	0.010 U	---	0.0002 U	0.005 U	0.010 U
SBP1-02	1.5 - 3.0	0.010 U	0.048 P J	0.005 U	0.010 U	0.027	0.0002 U	0.005 U	0.010 U
SBP6-02	3.5 - 5.0	0.010 U	0.032 P	0.038	1.080 J	3.700	0.0002 U	0.050 U J	0.010
ABP10-01	0.8 - 1.4	0.010 U	0.045 P J	0.018	0.010	1.070	0.0002 U	0.050 U J	0.010 U
ABP10-03	0.8 - 1.4	0.010 U	0.057 P J	0.013	0.010 U	0.830	0.0002 U	0.050 U J	0.010 U
ABP13-01	0.8 - 2.0	0.010 U	0.026 P J	0.024	0.020	1.600	0.0002 U	0.050 U J	0.010 U
ABP13-02	2.0 - 2.7	0.010 U	0.023 P J	0.032	0.032	2.000	0.0002 U	0.050 U J	0.010 U
IDL-01	---	0.010	0.009	0.005	0.010	0.005	0.0002	0.005	0.010
IDL-02	---	0.010	0.009	0.005	0.010	0.005	0.0002	0.005	0.010
RDL-01	---	0.010	0.200	0.005	0.010	0.005	0.0002	0.005	0.010
RDL-02	---	0.010	0.200	0.005	0.010	0.005	0.0002	0.005	0.010
BLANK-03	---	0.010 U	0.009 U	0.005 U	0.010 U	0.005 U	0.0002 U	0.005 U	0.010 U
BLANK-04	---	0.010 U	0.009 U	0.005 U	0.010 U	0.005 U	0.0002 U	0.005 U	0.010 U
BLANK-05	---	0.010 U	0.009 U	0.005 U	0.010 U	0.005 U	0.0002 U	0.005 U J	0.010 U
BLANK-06	---	0.010 U	0.009 U	0.005 U	0.010 U	0.005 U	0.0002 U	0.005 U J	0.010 U
BLANK-07	---	0.010 U	0.009 U	0.005 U	0.010 U	0.005 U	0.0002 U	0.005 U	0.010 U
BLANK-08	---	0.010 U	0.009 U	0.005 U	0.010 U	0.005 U	0.0002 U	0.005 U	0.010 U

Note: IDL-01 is associated with SB1-01, SB2-01, SB4-01, SB5-01, SB5-02, SB6-02, SB7-02, ABP13-01, ABP13-02, ABP10-01, and ABP10-03.
IDL-02 is associated with SBP1-02 and SB3-05.
CRDL-01 is associated with SB1-01, SB2-01, SB4-01, SB5-01, SB5-02, SB6-02. SB7-02, ABP13-01, ABP13-02, ABP10-01, and ABP10-03.
CRDL-02 is associated with SBP1-02 and SB3-05.
BLANK-03 is associated with SB8-04 and SB9-04.
BLANK-04 is associated with SBP6-02.
BLANK-05 is associated with SB1-01, SB2-01, SB4-01, SB5-01, SB5-02, SB6-02, SB7-02, ABP13-01, ABP13-02, ABP10-01, and ABP10-03.
BLANK-06 is associated with SB1-01, SB2-01, SB4-01, SB5-01, SB5-02, SB6-02, SB7-02, ABP13-01, ABP13-02, ABP10-01, and ABP10-03.
BLANK-07 is associated with SBP1-02 and SB3-05.
BLANK-08 is associated with SBP1-02 and SB3-05.

Table C-10
PURITY OIL--CH2M HILL DATA
SHALLOW BORING SAMPLES: INORGANIC ANALYSIS RESULTS
units are in mg/kg (ppm)

Location	Depth	Aluminum	Antimony	Arsensic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt
SB1-02	4.8 - 6.2	7400.0	13.0 U J	3.2	157.0	0.20 U	1.10 U	5110	17.0	3.20 P
SB1-07	20.0 - 21.5	8520.0	12.0 U J	2.1 U	36.0 P	0.20 P	1.00 U	935 P	12.0	4.60 P
SB2-02	5.8 - 7.0	8000.0	13.0 U J	2.8	101.0	0.20 P	1.10 U	6450	8.0	3.70 P
SB2-05	15.0 - 16.5	10600.0	14.0 U J	4.1	67.0	0.24 P J	1.20 U	4330	11.0	7.90 P
SB2-08	30.0 - 31.5	3690.0	12.0 U J	2.0 U	32.0 P J	0.20 U	1.00 U	1430	3.3	4.30 P
SB3-01	2.8 - 3.2	4260.0	13.0 U J	2.2 U	1390.0	0.20 U	1.10 U	5960	12.0	3.50 P
SB3-02	5.8 - 6.2	12700.0	13.0 U J	2.1 U	63.0	0.20 P	1.30	1760	34.0	5.70 P
SB3-05	4.5 - 6.0	7720.0	14.0 U J	2.3 U	349.0	0.20 U	2.10	5540	20.0	4.40 P
SB3-11	25.0 - 26.5	5110.0	12.0 U J	2.1 U	43.0	0.20 U	1.00 U	2120	8.2	6.00 P
SB4-02	9.0 - 10.5	11100.0	12.0 U J	2.1 U	53.0	0.21 P J	1.00 U	2120	24.0	4.60 P
SB4-07	25.0 - 26.5	5150.0	12.0 U J	2.1 U	62.0	0.21 U	1.00 U	1780	6.2	6.00 P
SB5-03	7.0 - 8.0	9740.0	13.0 U J	2.1 U	52.0	0.20 P	1.10 U	3830	12.0	4.30 P
SB5-04	8.5 - 10.0	8150.0	13.0 U J	2.1 U	52.0	0.21 P J	1.10	3040	9.1	5.30 P
SB5-12	40.0 - 41.5	3020.0	12.0 U J	2.0 U	26.0 P J	0.20 U	1.00 U	1390	5.3	3.50 P
SB6-01	6.0 - 6.5	9230.0	14.0 U J	3.0 U	502.0	0.20 U	1.40	24400	24.0	7.00 P
SB6-03	10.0 - 11.5	8470.0	13.0 U J	2.2 U	55.0	0.22 P J	1.10 U	2410	11.0	7.30 P
SB6-04	11.5 - 13.0	8090.0	13.0 U J	2.2 U	67.0	0.22 U	1.10 U	5980	11.0	5.70 P
SB6-06	20.0 - 21.5	20400.0	13.0 U J	3.3 U	67.0	0.44 P J	1.10 U	4070	21.0	7.50 P
SB7-01	2.5 - 3.0	13900.0	13.0 U J	5.2	127.0	0.20 P	1.10 U	7930	30.0	6.70 P
SB7-03	9.5 - 11.0	9310.0	12.0 U J	2.1 U	46.0	0.21 P	1.00 U	2020	18.0	6.70 P
SB7-04	11.0 - 12.5	10500.0	13.0 U J	2.1 U	45.0	0.21 P	1.10 U	2550	20.0	7.60
SB7-06	20.0 - 21.5	6430.0	13.0 U J	2.2 U	32.0 P	0.22 U	1.10 U	1350	8.6	3.20 P
SB7-11	45.0 - 46.5	4280.0	12.0 U J	2.0 U	34.0 P	0.20 U	1.00 U	1490	7.7	2.00 P
SB8-08	20.0 - 21.5	9700.0	13.0 Ug	2.0 U	43.0	0.20 P	1.10 U	898 P	16.0	5.50 P
SB8-09	21.5 - 23.0	5870.0	13.0 Ug	2.0 U	55.0	0.20 U	1.10 Ug	12000	11.0	3.20 P
SB8-12	35.0 - 36.5	3920.0	13.0 Ug	2.0 U	31.0 P	0.20 U	1.00 U	1370	3.8 J	2.30 P
SB9-01	2.0 - 3.5	8480.0	13.0 Ug	2.4 g	1110.0	0.20 U	2.00	8000	15.0	7.00 P
SB9-08	25.0 - 26.5	4470.0	12.0 U	2.0 U	42.0	0.20 U	1.00 U	1400	7.8	4.50 P
ABP1-01	2.0 - 2.5	9450.0	13.0 U J	2.1	77.0	0.21 P	1.10 U	5300	14.0	6.80 P
ABP2-01	1.5 - 2.5	9100.0	14.0 U J	2.3 U	63.0	0.23 U	1.10 U	3080	10.0	5.70 P
ABP3-01	4.0 - 5.0	8460.0	13.0 U J	2.3	55.0	0.21 P	1.10 U	3120	8.6	6.10 P
ABP4-02	4.0 - 5.0	9490.0	13.0 U J	2.2	55.0	0.22 U	1.10 U	7010	9.0	6.60 P
ABP5-02	4.7 - 5.5	9580.0	13.0 U J	2.1 U	72.0	0.21 P J	1.10 U	1870	26.0	8.40 P
ABP6-01	2.8 - 3.6	11800.0	13.0 U J	2.4	39.0 P	0.22 U	1.10 U	1500	37.0	5.50 P
ABP7-01	2.0 - 2.7	9350.0	13.0 U J	2.6	66.0	0.22 U	1.10 U	2990	12.0	7.10 P
ABP8-01	4.0 - 4.7	6410.0	13.0 U J	2.2 U	46.0	0.22 U	1.10 U	3760	6.5	5.90 P
ABP8-02	8.0 - 8.8	10400.0	13.0 U J	2.2 U	38.0 P	0.22 P	1.10 U	1550	12.0	4.30 P
ABP9-02	4.0 - 4.8	7590.0	13.0 U J	2.2 U	45.0	0.22 U	1.10 U	2800	8.2	5.20 P
ABP9-03	7.5 - 8.2	7980.0	13.0 U J	3.1	55.0	0.22 U	1.10 U	4480	8.4	6.80 P
SB11-03	5.0 - 6.5	6810.0	13.0 Ug	2.0 U	32.0 P	0.20 U	1.00 U	2210	14.0	6.70 P
SB11-07	20.0 - 21.5	4990.0	12.0 U	2.0 U	56.0	0.20 Ug	1.00 U	1750	7.4	5.60 P
SB12-02	3.5 - 5.0	8020.0	13.0 Ug	2.6 g	59.0	0.20 U	1.10 U	3280	13.0	4.30 P
SB12-06	15.0 - 16.5	7210.0	13.0 Ug	2.0 U	32.0 P	0.20 U	1.00 U	5210	12.0	2.90 P
SB13-02	12.0 - 13.5	9210.0	13.0 Ug	2.0 U	56.0	0.20 P	1.10 U	5350	9.7	6.10 P

Table C-10
(Continued)

Location	Depth	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt
SB13-07	30.0 - 31.5	4230.0	12.0 U	2.0 U	37.0 P	0.20 U	1.00 U	1410	3.1 J	2.30 P
SBB1-01	5.0 - 6.5	7060.0	13.0 U J	3.4	54.0	0.20 U	1.10 U	15800	7.0	3.80 P
SBB1-03	15.0 - 16.5	18000.0	14.0 U J	2.4	86.0	0.50 P	1.20 U	2850	23.0	8.90 P
SBB1-06	30.0 - 31.5	4080.0	12.0 U J	2.1 U	34.0 P	0.20 U	1.00 U	1540	4.3	2.70 P
SBB2-01	5.0 - 6.5	7600.0	12.0 U J	2.1 U	43.0	0.21 U	1.00 U	2290	9.6	5.20 P J
SBB2-03	15.0 - 16.5	8990.0	13.0 U J	2.2	64.0	0.22 P J	1.10 U	1950	11.0	4.30 P J
SBB2-07	35.0 - 36.5	4760.0	12.0 U J	2.1 U	49.0	0.21 U	1.00 U	1540	3.1	4.10 P J
SBB2-07D	35.0 - 36.5	3750.0	12.0 U J	2.1 U	34.0 P J	0.21 U	1.00 U	2010	7.6	2.90 P J
SBB3-02	10.0 - 11.5	3490.0	12.0 U J	2.0 U	28.0 P J	0.20 U	1.00 U	2120	6.3	4.80 P J
SBB3-04	20.0 - 21.5	3330.0	12.0 U J	2.0 U	38.0 P J	0.20 U	1.00 U	1410	3.1	3.10 P J
SBB3-07	35.0 - 36.5	6230.0	13.0 U J	2.1 U	29.0 P J	21.00 U	1.10 U	1230	13.0	2.70 P J
SBP1-02	1.5 - 3.0	6920.0	13.0 U J	21.0	265.0	0.20 U	1.10 U	4630	12.0	3.40 P
SBP1-05	10.0 - 11.5	23700.0	15.0 U J	5.8	170.0	0.50 P	1.30	7670	11.0	18.00
SBP1-08	25.0 - 26.5	3550.0	12.0 U J	2.0 U	40.0 P	0.20 U	1.00 U	1430	2.4	2.70 P
SBP2-02	3.0 - 4.5	9460.0	13.0 U J	2.2 U	48.0	0.20 P	1.10 U	3140	17.0	5.80 P
SBP2-06	15.0 - 16.5	7120.0	14.0 U J	2.3 U	71.0	0.20 U	1.20 U	26000	9.8	3.70 P
SBP2-09	30.0 - 31.5	3150.0	12.0 U J	2.1 U	29.0 P	0.20 U	1.00 U	1590	5.2	2.10 P
SBP3-02	12.5 - 14.0	13600.0	14.0 U J	2.4 U	101.0	0.24 P J	1.20 U	7620 J	9.9	9.60 P J
SBP3-03	17.5 - 19.0	6350.0	13.0 U J	2.2 U	59.0	0.22 P J	1.10 U	10300 J	9.6	5.70 P J
SBP3-06	32.5 - 34.0	2800.0	12.0 U J	2.1 U	32.0 P J	0.21 U	1.00 U	1490 J	3.7	3.10 P J
SBP4-04	13.5 - 14.5	8690.0	13.0 U J	2.2 U	73.0	0.22 P J	1.10 U	10900 J	8.2	6.40 P J
SBP4-06(D1)	21.5 - 23.5	2970.0	12.0 U J	2.0 U	37.0 P J	0.20 U	1.00 U	1480 J	2.0 U	2.00 U
SBP4-06(D1)	21.5 - 23.5	5150.0	13.0 U J	2.2 U	50.0	0.22 U	1.10 U	2570 J	4.6	3.70 P J
SBP4-08	36.5 - 38.0	3460.0	12.0 U J	2.1 U	35.0 P J	0.21 U	1.00 U	1050 J	2.9	2.30 P J
SBP6-02	3.5 - 5.0	10100.0	13.0 Ug	2.0 U	77.0	0.20 P	1.20	1330	31.0	6.60 P
SBP6-06	15.0 - 16.5	11800.0	13.0 Ug	3.0 g	52.0	0.20 P	1.10 U	957 P	14.0	3.00 P
SBP6-11	40.0 - 41.5	3710.0	12.0 U	2.0 U	41.0	0.20 U	1.00 U	1060	2.9 J	2.30 P
ABP10-01	0.8 - 1.4	6110.0	13.0 U	2.6	1120.0	0.22 U	1.10 U	7260 J	12.0	3.50 P J
ABP10-03	1.4 - 2.0	6370.0	13.0 U	3.5	1390.0	0.22 U	1.10 U	7030 J	14.0	3.50 P J
ABP10-05	3.0 - 4.0	8900.0	12.0 U J	2.1	71.0	0.21 U	1.00 U	2980	10.0	6.90 P
ABP11-02	3.0 - 4.0	11100.0	12.0 U J	2.1	77.0	0.21 P J	1.00 U	2020	30.0	9.50 P J
ABP12-01	3.0 - 4.0	6480.0	13.0 U J	2.2 U	58.0	0.22 U	1.10 U	2200	8.6	5.50 P J
ABP12-03	9.5 - 10.5	9150.0	13.0 U J	2.8	58.0	0.22 U	1.10 U	5930	8.7	6.70 P J
ABP13-01	0.8 - 2.0	4290.0	13.0 U	22.0 U	2250.0	0.22 U	1.10 U	5620 J	26.0 J	2.90 P J
ABP13-02	2.0 - 2.7	3370.0	13.0 U	2.2 U	2110.0	0.22 U	1.30	7240 J	13.0 J	3.80 P J
ABP13-03	3.0 - 3.5	11100.0	13.0 U J	2.8	60.0	0.22 P	1.30	4110	18.0	12.00

Location	Depth	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Molybdenum	Nickel	Potassium
SB1-02	4.8 - 6.2	12.0	16100.0	353.0	3130.0	136.0 J	0.11 U	---	8.5	2150
SB1-07	20.0 - 21.5	6.0	10700.0	2.7	1890.0	132.0 J	0.10 U	---	8.5	1210
SB2-02	5.8 - 7.0	8.6	13600.0	75.0	2600.0	224.0 J	0.11 U	---	6.2 P	2150
SB2-05	15.0 - 16.5	11.0	17800.0	3.8	5710.0	262.0	0.12 U	---	7.9 P J	3810
SB2-08	30.0 - 31.5	2.7 U	5920.0	1.1	2820.0	142.0	0.10 U	---	11.0	1300

Table C-10
(Continued)

Location	Depth	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Molybdenum	Nickel	Potassium
SB3-01	2.8 - 3.2	97.0	10400.0	8900.0	1470.0	54.0 J	0.11 U	---	6.6 P	1560
SB3-02	5.8 - 6.2	17.0	16200.0	94.0	4210.0	191.0 J	0.11 U	---	42.0	2380
SB3-05	4.5 - 6.0	51.0	14300.0	3000.0	3700.0	155.0 J	0.11 U	---	19.0	2300
SB3-11	25.0 - 26.5	6.6	15900.0	2.0	4520.0	187.0 J	0.10 U	---	18.0	1660
SB4-02	9.0 - 10.5	11.0	14800.0	2.0	3330.0	141.0	0.10 U	---	28.0	2770
SB4-07	25.0 - 26.5	5.2	12000.0	1.1	3880.0	288.0	0.10 U	---	8.3	1740
SB5-03	7.0 - 8.0	10.0	14900.0	3.2	3940.0	209.0 J	0.11 U	---	14.0	1740
SB5-04	8.5 - 10.0	9.8	12100.0	4.5	3720.0	175.0	0.11 U	---	9.8	1630
SB5-12	40.0 - 41.5	2.7 P J	9730.0	1.1	2370.0	104.0	0.10 U	---	9.2	706 P J
SB6-01	6.0 - 6.5	30.0	13700.0	1050.0	4740.0	210.0 J	0.12 U	---	27.0	2510
SB6-03	10.0 - 11.5	9.5	15800.0	3.4	4020.0	187.0	0.11 U	---	9.2	2000
SB6-04	11.5 - 13.0	8.7	15500.0	57.0	4870.0	213.0	0.11 U	---	9.3	2120
SB6-06	20.0 - 21.5	11.0	17400.0	6.8	3930.0	147.0	0.11 U	---	14.0	2700
SB7-01	2.5 - 3.0	26.0	12800.0	302.0	4000.0	186.0 J	0.11 U	---	35.0	2400
SB7-03	9.5 - 11.0	10.0	15400.0	2.7	3460.0	148.0	0.10 U J	---	25.0	1460
SB7-04	11.0 - 12.5	10.0	20500.0	2.3	4080.0	182.0	0.11 U J	---	22.0	1750
SB7-06	20.0 - 21.5	8.2	10800.0	3.1 J	2280.0	118.0	0.11 U J	---	4.5 P	1360
SB7-11	45.0 - 46.5	6.9	12200.0	1.5	1760.0	105.0	0.10 U J	---	6.1 P	945 P
SB8-08	20.0 - 21.5	8.1	10700.0	2.0 PgJ	2100.0	100.0	0.11 U	---	8.3	1650
SB8-09	21.5 - 23.0	6.3	10700.0	2.0 PgJ	3220.0	151.0	0.11 U	---	8.4	1650
SB8-12	35.0 - 36.5	4.6 P	4880.0	1.0 P J	1920.0	108.0	0.10 U	---	4.2 P	712 P
SB9-01	2.0 - 3.5	42.0	10400.0	1650.0 g J	3410.0	182.0	0.11 U	---	7.3 P	1750
SB9-08	25.0 - 26.5	4.7 P	7750.0	1.0 P J	3050.0	142.0	0.10 U	---	8.7	1250
ABP1-01	2.0 - 2.5	16.0	17000.0	24.0	4600.0	266.0	0.11 U J	---	10.0	2770
ABP2-01	1.5 - 2.5	12.0	15500.0	2.3	4210.0	280.0	0.11 U J	---	9.9	2340
ABP3-01	4.0 - 5.0	9.7	15400.0	13.0	4420.0	291.0	0.11 U J	---	6.5 P	1710
ABP4-02	4.0 - 5.0	12.0	16400.0	10.0 U	5690.0	301.0	0.11 U J	---	9.2	2310
ABP5-02	4.7 - 5.5	8.2	12700.0	13.0	3620.0	288.0	0.11 U	---	51.0	2130
ABP6-01	2.8 - 3.6	20.0	18500.0	29.0	3490.0	154.0	0.11 U J	---	48.0	1720
ABP7-01	2.0 - 2.7	14.0	16800.0	127.0	4170.0	308.0	0.15 J	---	12.0	2340
ABP8-01	4.0 - 4.7	11.0	14600.0	2.1	3480.0	296.0	0.11 U J	---	5.2 P	1530
ABP8-02	8.0 - 8.8	9.7	12900.0	2.8	3630.0	150.0	0.11 U J	---	7.7 P	1500
ABP9-02	4.0 - 4.8	9.2	14700.0	2.3	4240.0	252.0	0.11 U J	---	7.1 P	1670
ABP9-03	7.5 - 8.2	11.0	15900.0	2.5	4570.0	281.0	0.11 U J	---	7.5 P	2150
SB11-03	5.0 - 6.5	6.7	10800.0	2.0 PgJ	2330.0	184.0	0.10 U	---	15.0	844 P
SB11-07	20.0 - 21.5	5.6	9880.0	2.0 PgJ	2910.0	219.0	0.10 U	---	3.9 P	1830
SB12-02	3.5 - 5.0	13.0	12000.0	16.0 g J	3110.0	174.0	0.11 U	---	7.0 P	1790
SB12-06	15.0 - 16.5	6.2	8790.0	2.0 PgJ	1840.0	128.0	0.10 U	---	3.3 P	1300
SB13-02	12.0 - 13.5	12.0	15100.0	4.0 g J	4850.0	357.0	0.11 U	---	5.8 P	2580
SB13-07	30.0 - 31.5	5.4	6100.0	1.0 P J	2620.0	146.0	0.10 U	---	4.9 P	1080
SBB1-01	5.0 - 6.5	7.2	12100.0	3.8	4700.0	517.0 J	0.11 U	---	8.5 P	1300
SBB1-03	15.0 - 16.5	9.9	21000.0	5.2	6050.0	193.0 J	0.12 U	---	22.0	4330
SBB1-06	30.0 - 31.5	5.4	7750.0	1.5	2820.0	132.0 J	0.10 U	---	8.0 P	1250
SBB2-01	5.0 - 6.5	5.4	12400.0	2.0	2810.0	203.0	0.10 U	---	13.0	1140
SBB2-03	15.0 - 16.5	4.5 P J	12600.0	2.0	3400.0	161.0	0.11 U	---	11.0	2030
SBB2-07	35.0 - 36.5	4.9 P J	8430.0	1.2	2950.0	162.0	0.10 U	---	4.5 P J	1710
SBB2-07D	35.0 - 36.5	4.5 P J	15600.0	1.1	2350.0	138.0	0.10 U	---	6.4 P J	1050

Table C-10
(Continued)

Location	Depth	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Molybdenum	Nickel	Potassium
SBB3-02	10.0 - 11.5	5.9	19000.0	1.9	2510.0	174.0	0.10 U	---	7.3 P J	980 P J
SBB3-04	20.0 - 21.5	2.9 P J	6120.0	1.0 U	2000.0	116.0	0.10 U	---	7.3 P J	1020
SBB3-07	35.0 - 36.5	5.3	8420.0	1.3	2130.0	100.0	0.11 U	---	5.7 P J	1170
SBP1-02	1.5 - 3.0	24.0	15400.0	1030.0	2520.0	121.0 J	0.11 U	---	7.4 P	2560
SBP1-05	10.0 - 11.5	29.0	32700.0	8.9	14200.0	734.0 J	0.13 U	---	15.0	8180
SBP1-08	25.0 - 26.5	4.1 P	4860.0	1.3	2240.0	138.0 J	0.10 U	---	5.7 P	1110
SBP2-02	3.0 - 4.5	9.7	15300.0	3.9	4150.0	252.0 J	0.11 U	---	25.0	1690
SBP2-06	15.0 - 16.5	7.7	12700.0	3.3	6000.0	321.0 J	0.12 U	---	12.0	2060
SBP2-09	30.0 - 31.5	4.0 P	5960.0	1.6	2330.0	107.0 J	0.10 U	---	9.4	785 P
SBP3-02	12.5 - 14.0	14.0	17600.0 J	4.0	7550.0 J	435.0 J	0.12 U	---	7.8 P J	4310
SBP3-03	17.5 - 19.0	7.0	8330.0 J	3.9	2740.0 J	192.0 J	0.11 U	---	6.5 P J	1770
SBP3-06	32.5 - 34.0	2.7 P J	5480.0 J	1.2	2560.0 J	106.0 J	0.10 U	---	9.9	930 P J
SBP4-04	13.5 - 14.5	7.3	13600.0 J	2.7	5980.0 J	278.0 J	0.11 U	---	8.4 P J	3310
SBP4-06(D1)	21.5 - 23.5	6.1	5130.0 J	1.1	2080.0 J	194.0 J	0.10 U	---	6.7 P J	766 P J
SBP4-06(D1)	21.5 - 23.5	7.0	7740.0 J	1.6	3610.0 J	160.0 J	0.11 U	---	9.8	1790
SBP4-08	36.5 - 38.0	4.9 P J	6000.0 J	2.3	2100.0 J	98.0 J	0.10 U	---	3.1 P J	1440
SBP6-02	3.5 - 5.0	17.0	12000.0	495.0 g J	3240.0	140.0	0.10 U	---	46.0	2210 P
SBP6-06	15.0 - 16.5	9.8	11800.0	5.0 g J	2120.0	352.0	0.11 U	---	9.6	1750
SBP6-11	40.0 - 41.5	4.7 P	5320.0	2.0 P J	1850.0	122.0	0.10 U	---	1.9 U	1090
ABP10-01	0.8 - 1.4	49.0 J	10200.0	4090.0	2200.0	104.0 J	0.11 U	---	5.4 P J	2800
ABP10-03	1.4 - 2.0	64.0 J	11300.0	4680.0	2260.0	110.0 J	0.11 U	---	6.4 P J	3030
ABP10-05	3.0 - 4.0	9.4	17700.0	129.0	3850.0	302.0	0.10 U J	---	8.1 P	2290
ABP11-02	3.0 - 4.0	9.1	14000.0	3.7	3590.0	320.0	0.10 U	---	54.0	2620
ABP12-01	3.0 - 4.0	7.3	10700.0	12.0	2640.0	204.0	0.11 U	---	11.0	2260
ABP12-03	9.5 - 10.5	9.8	15600.0	4.1	4650.0	276.0	0.11 U	---	7.2 P J	2850
ABP13-01	0.8 - 2.0	67.0 J	10000.0 J	11700.0	991.0 P J	36.0	0.11 U	---	9.0	2760
ABP13-02	2.0 - 2.7	51.0 J	6270.0 J	9960.0	775.0 P J	34.0 J	0.11 U	---	6.5 P J	1840
ABP13-03	3.0 - 3.5	15.0	17100.0	9.7	5120.0	667.0	0.11 U J	---	40.0	2260

Location	Depth	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Cyanide	Percent Solids
SB1-02	4.8 - 6.2	1.1 U J	2.1 U	523 P	2.1 U	35.0	101.0	0.50 U	94.0
SB1-07	20.0 - 21.5	1.0 U J	2.1 U	404 U	2.1 U	23.0	14.0	0.50 U	96.0
SB2-02	5.8 - 7.0	1.1 U J	2.2 U	417 U	2.2 U	22.0	111.0	0.50 U	93.0
SB2-05	15.0 - 16.5	1.2 U J	2.6	462 U	2.4 U	43.0	42.0	0.60 U	84.0
SB2-08	30.0 - 31.5	1.0 U J	2.0	396 U	2.0 U	13.0	18.0	0.51 U	98.0
SB3-01	2.8 - 3.2	1.1 U J	2.2 U	426 U	2.2 U	6.8 P	159.0	0.50 U	91.0
SB3-02	5.8 - 6.2	1.1 U J	2.1 U	922 P	2.1 U	50.0	137.0	0.50 U	95.0
SB3-05	4.5 - 6.0	11.0 U J	2.3 U	1530	2.3 U	31.0	391.0	0.60 U	87.0
SB3-11	25.0 - 26.5	1.0 U J	2.1 U	400 U	2.1 U	33.0	25.0	0.50 U	97.0
SB4-02	9.0 - 10.5	1.0 U J	2.1	404 U	2.1 U	35.0	60.0	0.52 U	96.0
SB4-07	25.0 - 26.5	1.0 U	2.1 U	404 U	2.1 U	28.0	22.0	0.52 U	96.0
SB5-03	7.0 - 8.0	1.1 U J	2.1 U	798 P	2.1 U	33.0	110.0	0.50 U	94.0
SB5-04	8.5 - 10.0	1.1 U J	2.1 U	413 U	2.1 U	29.0	105.0	0.53 U	94.0
SB5-12	40.0 - 41.5	1.0 U J	2.0 U	396 U	2.0 U	23.0	13.0	0.51 U	98.0

RD/R62/012-5

Table C-10
(Continued)

Location	Depth	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Cyanide	Percent Solids
SB6-01	6.0 - 6.5	1.2 U J	2.3 U	451 U	2.3 U	29.0	616.0	0.60 U	86.0
SB6-03	10.0 - 11.5	1.1 U J	3.4	417 U	2.2 U	39.0	41.0	0.54 U	93.0
SB6-04	11.5 - 13.0	1.1 U J	3.5	422 U	2.2 U	37.0	48.0	0.54 U	92.0
SB6-06	20.0 - 21.5	1.1 U J	2.4	426 U	2.2 U	42.0	36.0	0.55 U	91.0
SB7-01	2.5 - 3.0	1.1 U J	2.2 U	527 P	2.2 U	27.0	378.0	0.60 U	90.0
SB7-03	9.5 - 11.0	1.0 U J	2.1 U	404 U	2.1 U	48.0	350.0	0.52 U	96.0
SB7-04	11.0 - 12.5	1.1 U J	2.1 U	495 P	2.1 U	41.0	31.0	0.53 U	95.0
SB7-06	20.0 - 21.5	1.1 U J	2.2 U	417 U	2.2 U	23.0	17.0	0.54 U	93.0
SB7-11	45.0 - 46.5	1.0 U J	2.0 U	392 U	2.0 U	29.0	15.0	0.51 U	99.0
SB8-08	20.0 - 21.5	1.0 U	2.8 g	2360	2.1 U	23.0	17.0	0.50 U	94.0
SB8-09	21.5 - 23.0	1.0 U	2.1 U	2020	2.1 U	26.0	18.0	0.50 U	95.0
SB8-12	35.0 - 36.5	1.0 U	3.3	892 P	2.1 U	11.0	15.0	0.50 U	96.0
SB9-01	2.0 - 3.5	1.0 U	2.2 U	1070 P	2.2 U	29.0	175.0	0.80	91.0
SB9-08	25.0 - 26.5	1.0 U	2.1 U	400 U	2.1 U	18.0	20.0	0.50 U	97.0
ABP1-01	2.0 - 2.5	1.1 U J	2.1 U	528 P	2.1 U	38.0	118.0	0.53 U	94.0
ABP2-01	1.5 - 2.5	1.1 U J	2.3 U	446 P	2.3 U	34.0	37.0	0.57 U	87.0
ABP3-01	4.0 - 5.0	1.1 U J	2.1 U	552 P	2.1 U	35.0	32.0	0.53 U	95.0
ABP4-02	4.0 - 5.0	1.1 U J	2.2 U	446 P	22.0 U J	38.0	39.0	0.55 U	91.0
ABP5-02	4.7 - 5.5	1.1 U J	2.1 U	408 U	2.1 U	27.0	29.0	0.53 U	95.0
ABP6-01	2.8 - 3.6	1.1 U	2.2 U	426 U	2.2 U	35.0	71.0	0.55 U	91.0
ABP7-01	2.0 - 2.7	1.1 U J	2.2 U	417 U	2.2 U	39.0	42.0	0.54 U	93.0
ABP8-01	4.0 - 4.7	1.1 U J	2.2 U	463 P	2.2 U	34.0	31.0	0.54 U	92.0
ABP8-02	8.0 - 8.8	1.1 U J	2.2 U	417 U	2.2 U	25.0	24.0	0.54 U	93.0
ABP9-02	4.0 - 4.8	1.1 U J	2.2 U	417 U	2.2 U	33.0	33.0	0.54 U	93.0
ABP9-03	7.5 - 8.2	1.1 U J	2.2 U	426 U	2.2 U	42.0	35.0	0.55 U	91.0
SB11-03	5.0 - 6.5	1.0 U	2.1 U	565 P	2.1 U	25.0	20.0	0.50 U J	96.0
SB11-07	20.0 - 21.5	1.0 U	2.1	441 P	2.1 U	19.0	22.0	0.50 U	97.0
SB12-02	3.5 - 5.0	1.0 U	2.8	721 P	2.1 U	32.0	42.0	0.50 U J	94.0
SB12-06	15.0 - 16.5	1.0 U	2.1 U	738 P	2.1 U	20.0	13.0	0.50 U J	96.0
SB13-02	12.0 - 13.5	1.0 U	2.7	903 P	2.2 U	38.0	35.0	0.60 U J	89.0
SB13-07	30.0 - 31.5	1.0 U	3.1	594 P	2.1 U	13.0	17.0	0.50 U J	97.0
SBB1-01	5.0 - 6.5	1.1 U J	2.2 U	436 U	2.2 U	29.0	27.0	0.60 U	89.0
SBB1-03	15.0 - 16.5	1.2 U J	2.4 U	456 U	2.4 U	39.0	42.0	0.60 U	85.0
SBB1-06	30.0 - 31.5	1.0 U J	2.1 U	400 U	2.1 U	14.0	19.0	0.50 U	97.0
SBB2-01	5.0 - 6.5	1.0 U J	2.1 U	404 U	2.1 U	29.0	25.0	0.52 U	96.0
SBB2-03	15.0 - 16.5	1.1 U J	2.2 U	417 U	2.2 U	27.0	21.0	0.54 U	93.0
SBB2-07	35.0 - 36.5	1.0 U J	2.1 U	400 U	2.1 U	23.0	22.0	0.52 U	97.0
SBB2-07A	35.0 - 36.5	1.0 U J	2.9	400 U	2.1 U	40.0	18.0	0.52 U	97.0
SBB3-02	10.0 - 11.5	1.0 U J	2.2	392 U	2.0 U	44.0	22.0	0.51 U	99.0
SBB3-04	20.0 - 21.5	1.0 U J	2.0 U	396 U	2.0 U	14.0	16.0	0.51 U	98.0
SBB3-07	35.0 - 36.5	1.1 U J	2.1 U	408 U	2.1 U	23.0	16.0	0.53 U	95.0
SBP1-02	1.5 - 3.0	1.1 U J	2.2 U	526 P	2.2 U	34.0	37.0	0.90	89.0
SBP1-05	10.0 - 11.5	1.3 U J	2.8	1130 P	2.5 U	91.0	108.0	0.60 U	79.0
SBP1-08	25.0 - 26.5	1.0 U J	2.0 U	396 U	2.0 U	10.0	15.0	0.50 U	98.0
SBP2-02	3.0 - 4.5	1.1 U J	2.2 U	417 U	2.2 U	34.0	31.0	0.50 U	93.0
SBP2-06	15.0 - 16.5	1.2 U J	2.3 U	451 U	2.3 U	28.0	27.0	0.60 U	86.0
SBP2-09	30.0 - 31.5	1.0 U J	2.1 U	404 U	2.1 U	12.0	14.0	0.50 U	96.0

Table C-10
(Continued)

Location	Depth	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Cyanide	Percent Solids
SBP3-02	12.5 - 14.0	1.2	2.8	1090 P J	2.4 U	40.0	59.0	0.59 U	85.0
SBP3-03	17.5 - 19.0	1.1	3.0	528 P J	2.2 U	20.0	18.0	0.54 U	92.0
SBP3-06	32.5 - 34.0	1.0 U	2.1 U	400 U	2.1 U	12.0	14.0	0.52 U	97.0
SBP4-04	13.5 - 14.5	1.1	2.9	480 P J	2.2 U	27.0	35.0	0.56 U	90.0
SBP4-06(D1)	21.5 - 23.5	1.0 U	2.0	392 U	2.0 U	13.0	14.0	0.51 U	99.0
SBP4-06(D1)	21.5 - 23.5	1.1 U	2.2 U	422 U	2.2 U	20.0	24.0	0.54 U	92.0
SBP4-08	36.5 - 38.0	1.0 U	2.1 U	400 U	2.1 U	14.0	15.0	0.52 U	97.0
SBP6-02	3.5 - 5.0	1.0 U	3.1	538 P	2.1 U	21.0	134.0	0.50 U	97.0
SBP6-06	15.0 - 16.5	1.0 U	2.2	422 U	2.2 U	28.0	18.0	0.50 U	92.0
SBP6-11	40.0 - 41.5	1.0 U	2.1 U	511 P	2.1 U	12.0	16.0	0.50 U J	97.0
ABP10-01	0.8 - 1.4	1.1 U J	2.6 J	939 P J	2.2 U J	23.0	58.0	0.54 U	92.0
ABP10-03	1.4 - 2.0	1.1 U J	2.2 U	499 P J	2.2 U J	24.0	52.0	0.55 U	91.0
ABP10-05	3.0 - 4.0	1.0 U J	2.1 U	596 P	2.1 U	37.0	41.0	0.52 U	96.0
ABP11-02	3.0 - 4.0	1.0 U J	2.9	400 U	2.1 U	29.0	31.0	0.52 U	97.0
ABP12-01	3.0 - 4.0	1.1 U J	2.2 U	426 U	2.2 U	25.0	31.0	0.55 U	91.0
ABP12-03	9.5 - 10.5	1.1 U J	2.2 U	422 U	2.2 U	43.0	34.0	0.54 U	92.0
ABP13-01	0.8 - 2.0	1.1 U J	2.2 U	533 P J	2.2 U J	14.0	190.0 J	0.56 U	89.0
ABP13-02	2.0 - 2.7	1.1 U J	2.2 U	942 P J	2.2 U J	8.3 P J	106.0 J	0.56 U	89.0
ABP13-03	3.0 - 3.5	1.1 U J	2.2 U	443 P	2.2 U	37.0	74.0	0.54 U	93.0

Location	Aluminum	Antimony	Arsensic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt
MDL-03	20.0	12.0	2.0	1.8	0.20	1.00	59	2.0	2.00
MDL-04	20.0	12.0	2.0	1.8	0.20	1.00	59	2.0	2.00
MDL-05	20.0	12.0	2.0	1.8	0.20	1.00	59	2.0	2.00
MDL-06	20.0	12.0	2.0	1.8	0.20	1.00	59	2.0	2.00
MDL-07	20.0	12.0	2.0	1.8	0.20	1.00	59	2.0	2.00
MDL-08	20.0	12.0	2.0	1.8	0.20	1.00	59	2.0	2.00
CRQL-03	40.0	12.0	2.0	40.0	1.00	1.00	1000	2.0	10.00
CRQL-04	40.0	12.0	2.0	40.0	1.00	1.00	1000	2.0	10.00
CRQL-05	40.0	12.0	2.0	40.0	1.00	1.00	1000	2.0	10.00
CRQL-06	40.0	12.0	2.0	40.0	1.00	1.00	1000	2.0	10.00
CRQL-07	40.0	12.0	2.0	40.0	1.00	1.00	1000	2.0	10.00
CRQL-08	40.0	12.0	2.0	40.0	1.00	1.00	1000	2.0	10.00
BLANK-03	20.0 U	12.0 U	2.0 U	1.8	0.20 U	1.00 U	59 U	2.0 U	2.00 U
BLANK-04	20.0 U	12.0 U J	2.0 U	1.8 U	0.20 U	1.00 U	59 U	2.0 U	2.00 U
BLANK-05	20.0 U	12.0 U	2.0 U	1.8 U	0.20 U	1.00 U	59 U J	2.0 U	2.00 U
BLANK-06	20.0 U	12.0 U J	2.0 U	1.8 U	0.20 U	1.00 U	59 U	2.0 U	2.00 U
BLANK-07	20.0 U	12.0 U J	2.0 U	1.8 U	0.20 U	1.00 U	59 U	2.0 U	2.00 U
BLANK-08	20.0 U	12.0 U J	2.0 U	1.8 U	0.20 U	1.00 U	59 U J	2.0 U	2.00 U

Table C-10
(Continued)

Location	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Molybdenum	Nickel	Potassium
MDL-03	2.6	2.0	1.0	23.0	0.6	0.10	---	1.8	159
MDL-04	2.6	2.0	1.0	23.0	0.6	0.10	---	1.8	159
MDL-05	2.6	2.0	15.0	23.0	0.6	0.10	---	1.8	159
MDL-06	2.6	2.0	1.0	23.0	0.6	0.10	---	1.8	159
MDL-07	2.6	2.0	1.0	23.0	0.6	0.10	---	1.8	159
MDL-08	2.6	2.0	1.0	23.0	0.6	0.10	---	1.8	159
CRQL-03	5.0	20.0	2.5	1000.0	3.0	0.10	---	8.0	1000
CRQL-04	5.0	20.0	1.0	1000.0	3.0	0.10	---	8.0	1000
CRQL-05	5.0	20.0	1.0	1000.0	3.0	0.10	---	8.0	1000
CRQL-06	5.0	20.0	1.0	1000.0	3.0	0.10	---	8.0	1000
CRQL-07	5.0	20.0	1.0	1000.0	3.0	0.10	---	8.0	1000
CRQL-08	5.0	20.0	1.0	1000.0	3.0	0.10	---	8.0	1000
BLANK-03	2.6 U	2.0	1.0 U	23.0 U	0.6 U	0.10 U	---	1.8 U	159 U
BLANK-04	2.6 U	2.0 U	1.0 U	26.0 P	0.6 U	0.10 U J	---	1.8 U	159 U
BLANK-05	2.6 U	2.0 U	15.0 U	23.0 U	0.6 U J	0.10 U	---	1.8 U	159 U
BLANK-06	2.6 U	2.0 U	1.0 U	23.0 U	0.6 U	0.10 U	---	1.8 U	159 U
BLANK-07	2.6 U	2.0 U	1.0 U	23.0 U	0.6 U J	0.10 U	---	1.8 U	159 U
BLANK-08	2.6 U	2.0 U J	1.0 U	23.0 U J	0.6 U J	0.10 U	---	1.8 U	159 U

Location	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Cyanide	Percent Solids
MDL-03	1.0 U	2.0	388	2.0	1.6	1.8	0.50	NA
MDL-04	1.0	2.0	388	2.0	1.6	1.8	0.50	NA
MDL-05	1.0	2.0	388	2.0	1.6	1.8	0.50	---
MDL-06	1.0	2.0	388	2.0	1.6	1.8	0.50	---
MDL-07	1.0	2.0	388	2.0	1.6	1.8	0.50	---
MDL-08	1.0	2.0	388	2.0	1.6	1.8	0.50	---
CRQL-03	5.0	2.0	1000	2.0	10.0	4.0	0.50	---
CRQL-04	1.0	2.0	1000	2.0	10.0	4.0	2.00	---
CRQL-05	1.0	2.0	1000	2.0	10.0	4.0	2.00	---
CRQL-06	1.0	2.0	1000	2.0	10.0	4.0	2.00	---
CRQL-07	1.0	2.0	1000	2.0	10.0	40.0	2.00	---
CRQL-08	1.0	2.0	1000	2.0	10.0	4.0	2.00	---

Table C-10
(Continued)

Location	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Cyanide	Percent Solids
BLANK-03	1.0 U	2.0 U	388 U	2.0 U	1.6 U	1.8 U	0.50 U	---
BLANK-04	1.0 U J	2.0 U	388 U	2.0 U	1.6 U	1.8 U	0.50 U	---
BLANK-05	1.0 U J	2.0 U	388 U	2.0 U J	1.6 U	1.8 U	0.50 U	---
BLANK-06	1.0 U J	2.0 U	388 U	2.0 U	1.6 U	1.8 U	0.50 U	---
BLANK-07	1.0 U J	2.0 U	388 U	2.0 U	1.6 U	1.8 U	0.50 U	---
BLANK-08	1.0 U	2.0	388 U	2.0 U	1.6 U	1.8 U	0.50 U	---

Note: MDL-03 is associated with SB13-02, SB13-07, SB11-03, SBP6-02, SBP6-06, SB11-07, SB P6-11, SB12-02, SB12-06, SB8-08, SB8-09, SB8-12, SB9-01, and SB9-08.

MDL-04 is associated with AABP6-01, ABP7-01, ABP8-01, ABP8-02, ABP13-03, ABP1-01, ABP2-01, ABP9-02, ABP9-03, ABP10-05, ABP3-01, ABP4-02, SB7-03, SB7-04, SB7-11, and SB7-06.

MDL-05 is associated with ABP13-01, ABP13-02, ABP10-01, and ABP10-03.

MDL-06 is associated with SB2-05, SB2-08, SB4-02, SB4-07, ABP12-01, ABP12-03, ABP11-02, SBB2-01, SBB2-03, SBB2-07, SBB2-07A, SBB3-02, SBB3-04, SBB3-07, SB5-04, SB5-12, SB6-03, SB6-04, SB6-06, and ABP 5-02.

MLD-07 is associated with SBP1-02, SBP1-05, SBP1-08, SB5-03, SB6-01. SB7-01, SB1-02, SB2-02, SB3-01, SB3-02, SBP2-02, SBP2-06, SBP2-09, SBB1-01, SBB1-03, SBB1-06, SB1-07, SB3-05, and SB3-11.

MDL-08 is associated with SBP4-04, SBP4-06(D1), SBP4-08, SBP4-06(D1), SBP3-02, SBP3-03, and SBP3-06.

CRQL-03 is associated with SB13-02, SB13-07, SB11-03, SBP6-02, SBP6-06, SB11-07, SBP6-11, SB12-02, SB12-06, SB8-08, SB8-09, SB8-12, SB9-01, and SB9-08.

CRQL-04 is associated with ABP6-01, ABP7-01, ABP8-01, ABP8-02, ABP13-03, ABP1-01, ABP2-01, ABP9-02, ABP9-03, ABP10-05, ABP3-01, ABP4-02, SB7-03, SB7-04, SB7-11, and SB7-06.

CRQL-05 is associated with ABP13-01, ABP13-02, ABP10-01, and ABP10-03.

CRQL-06 is associated with SB2-05, SB2-08, SB4-02, SB4-07, ABP12-01, ABP12-03, ABP11-02, SBB2-01, SBB2-03, SBB2-07, SBB2-07A, SBB3-02, SBB3-04, SBB3-07, SB5-04, SB5-12, SB6-03, SB6-04, SB6-06, and ABP5-02.

CRQL-07 is associated with SBP1-02, SBP1-05, SBP1-08, SB5-03, SB6-01, SB7-01, SB1-02, SB2-02, SB3-01, SB3-02, SBP2-02, SBP2-06, SBP2-09, SBB1-01, SBB1-03, SBB1-06, SB1-07, SB3-05, and SB3-11.

CRQL-08 is associated with SBP4-04, SBP4-06(D1), SBP4-08, SBP4-06(D1), SBP3-02, SBP3-03, and SBP3-06.

BLANK-03 is associated with SB13-02, SB13-07, SB11-03, SBP6-02, SBP6-06, SB1107, SBP6-11, SB12-02, SB12-06, SB8-08, SB8-09, SB8-12, SB9-01, and SB9-08.

BLANK-04 is associated with ABP6-01, ABP7-01, ABP8-01, ABP8-02, ABP13-03, ABP1-01, ABP2-01, ABP9-02, ABP9-03, ABP10-05, ABP3-01, ABP4-02, SB7-03, SB7-04, SB7-11, and SB7-06.

BLANK-05 is associated with ABP13-01, ABP13-02, ABP10-01, and ABP10-03.

BLANK-06 is associated with SB2-05, SB2-08, SB4-02, SB4-07, ABP12-01, ABP12-03, ABP11-02, SBB2-01, SBB2-03, SBB2-07, SBB2-07A, SBB3-02, SBB3-04, SBB3-07, SB5-04, SB5-12, SB6-03, SB6-04, SB6-06, and ABP5-02.

BLANK-07 is associated with SBP1-02, SBP1-05, SBP1-08, SB5-03, SB6-01, SB7-01, SB1-02, SB2-02, SB3-01, SB3-02, SBP2-02, SBP2-06, SBP2-09, SBB1-01, SBB1-03, SBB1-06, SB1-07, SB3-05, and SB3-11.

BLANK-08 is associated with SBP4-04, SBP4-06(D1), SBP4-08, SBP4-06(D1), SBP3-02, SBP3-03, and SBP3-06.

Table C-11
PURITY OIL--CH2M HILL DATA
SHALLOW BORING SAMPLES: HSL ORGANIC COMPOUNDS
units are in µg/kg (ppb)

Location	Depth	Bromoethane	Chlorethane	Methylene Chloride	Acetone	Carbon Disulfide	1,1-Dichloro-ethane	1,2-Dichloro-ethane
SB1-01	3.8 - 4.2	2600.0 U	2600.0 U	2300.0 U	7200.0 U	1300.0 U	---	10.0 U
SB1-02	4.8 - 6.2	---	---	110.0 U	340.0 U	---	---	27.0 U
SB1-07	20.0 - 21.5	---	---	34.0 U	24.0 U	---	---	10.0 U
SB2-01	5.1 - 5.8	---	---	240.0 U	600.0 J	---	---	32.0 U
SB2-02	5.8 - 7.0	---	---	58.0 U	29.0 U	---	---	25.0 U
SB2-05	15.0 - 16.5	---	---	19.0 U	16.0 U	---	---	10.0 U
SB2-08	30.0 - 31.5	---	---	10.0 U	10.0 U	---	---	10.0 U
SB3-01	2.8 - 3.2	1400.0 U	1400.0 U	3000.0 U	14000.0 U	710.0 U	---	10.0 U
SB3-02	5.8 - 6.2	---	---	47.0 U	71.0 U	---	---	23.0 U
SB3-05	4.5 - 6.0	---	---	6100.0 U	37000.0 U	---	---	10.0 U
SB3-11	25.0 - 26.5	---	---	43.0 U	21.0 U	---	---	10.0 U
SB4-01	5.0 - 7.5	1500.0 U	1500.0 U	2600.0 U	12000.0 U	770.0	---	10.0 U
SB4-02	9.0 - 10.5	---	---	2300.0 U	1900.0 U	---	---	10.0 U
SB4-07	25.0 - 26.5	---	---	14.0 U	13.0 U	---	---	10.0 U
SB5-01(D1)	5.0 - 6.0	34000.0	5400.0	4000.0 U	25000.0 J	180.0 J	---	10.0 U
SB5-02(D1)	5.0 - 6.0	55000.0	37000.0 U	35000.0 U	41000.0 U	18000.0 U	---	10.0 U
SB5-03	7.0 - 8.0	---	---	27.0 U	44.0 U	---	---	9.0 U
SB5-04(D2)	8.5 - 10.0	---	---	11.0 U	67.0 U	---	---	10.0 U
SB5-05(D2)	10.0 - 11.5	---	---	180.0 U	140.0 U	---	---	10.0 U
SB5-12	40.0 - 41.5	---	---	64.0 U	54.0 U	---	---	10.0 U
SB6-01	6.0 - 6.5	---	---	120.0 U	33.0 U	---	---	10.0 U
SB6-02	8.0 - 9.0	3500.0 U	3500.0 U	4600.0 U	3500.0 U	1700.0 U	---	10.0 U
SB6-03	10.0 - 11.5	---	---	33.0 U	530.0	---	---	10.0 U
SB6-06	20.0 - 21.5	---	---	7.0 U	79.0 U	---	---	10.0 U
SB7-01	2.5 - 3.0	---	---	59.0 U	140.0 U	---	---	23.0 U
SB7-02	8.0 - 8.5	3200.0 U	3200.0 U	4500.0 U	3200.0 U	1600.0 U	---	10.0 U
SB7-03	9.5 - 11.0	---	---	680.0 U J	1400.0 U J	---	---	10.0 U
SB7-04	11.0 - 12.5	---	---	650.0 U J	1300.0 U J	---	---	10.0 U
SB7-06	20.0 - 21.5	---	---	320.0	290.0	---	---	10.0 U
SB7-11	45.0 - 46.5	---	---	44.0	55.0 U J	---	---	10.0 U
SB8-04	6.5 - 8.0	1400.0 U	1400.0 U	2600.0 U J	4700.0 U J	710.0 U	1100.0	710.0 U
SB8-08	20.0 - 21.5	53.0 U	53.0 U	390.0 U J	7200.0	26.0 U	26.0 U	26.0 U
SB8-09	21.5 - 23.0	10.0 U	10.0 U	56.0 U J	3700.0	2.0 J	5.0 U	5.0 U
SB8-12	35.0 - 36.5	51.0 U	51.0 U	620.0	1000.0	26.0 U	26.0 U	26.0 U
SB9-01	2.0 - 3.5	1400.0 U	1400.0 U	880.0 U J	3700.0 U J	710.0 U	710.0 U	710,0 U
SB9-04	8.5 - 10.0	1400.0 U	1400.0 U	1600.0 U J	3200.0 U J	690.0 U	690.0 U	690.0 U
SB9-08	25.0 - 26.5	50.0 U	50.0 U	410.0 U J	270.0	25.0 U	25.0 U	25.0 U
SB11-03	5.0 - 6.5	10.0 U	10.0 U	97.0 U J	43.0 U J	5.0 U	5.0 U	5.0 U
SB11-07	10.0 - 11.5	10.0 U	10.0 U	5.0 U J	16.0 U J	5.0 U	5.0 U	5.0 U
SB12-02	3.5 - 5.0	11.0 U	11.0 U	140.0 U J	29.0 U J	6.0 U	6.0 U	6.0 U
SB12-06	15.0 - 16.5	10.0 U	10.0 U	100.0 U J	46.0 U J	5.0 U	5.0 U	5.0 U
SB13-02	12.0 - 13.5	1500.0 U	1500.0 U	750.0 U J	5300.0 U J	750.0 U	750.0 U	750.0 U
SB13-07	30.0 - 31.5	10.0 U	10.0 U	100.0 U J	41.0 U J	5.0 U	5.0 U	5.0 U

Table C-11
(Continued)

Location	Depth	Bromoethane	Chlorethane	Methylene Chloride	Acetone	Carbon Disulfide	1,1-Dichloro-ethane	1,2-Dichloro-ethane
SB14-01	17.0 - 18.5	10.0 U	10.0 U	84.0 U J	56.0 U J	5.0 U	5.0 U	5.0 U
SBB1-01	5.0 - 6.5	---	---	58.0 U	32.0 U	---	---	10.0 U
SBB1-03	15.0 - 16.5	---	---	63.0 U	24.0 U	---	---	10.0 U
SBB1-06	30.0 - 31.5	---	---	160.0 U	34.0 U	---	---	10.0 U
SBB2-01(D2)	5.0 - 6.5	---	---	14.0 U	13.0 U	---	---	10.0 U
SBB2-01(D2)	5.0 - 6.5	---	---	11.0 U	11.0 U	---	---	10.0 U
SBB2-03	15.0 - 16.5	---	---	16.0 U	14.0 U	---	---	10.0 U
SBB2-07	35.0 - 36.5	---	---	11.0 U	12.0 U	---	---	10.0 U
SBB3-02	10.0 - 11.5	---	---	42.0 U	59.0 U	---	---	10.0 U
SBB3-04	20.0 - 21.5	---	---	100.0 U	120.0 U	---	---	10.0 U
SBB3-07	35.0 - 36.5	---	---	120.0 U	95.0 U	---	---	10.0 U
SBP1-02	1.5 - 3.0	---	---	160.0 U	350.0 U	---	---	15.0 J
SBP1-05	10.0 - 11.5	---	---	120.0 U	200.0 U	---	---	31.0 U
SBP1-08	25.0 - 26.5	---	---	160.0 U	89.0 U	---	---	26.0 U
SBP2-02	3.0 - 4.5	---	---	27.0 U	26.0 U	---	---	13.0 U
SBP2-06	15.0 - 16.5	---	---	38.0 U	43.0 U	---	---	19.0 U
SBP2-06 DL	15.0 - 16.5	---	---	10.0 U	---	---	---	10.0 U
SBP2-09	30.0 - 31.5	---	---	14.0 U	16.0 U	---	---	8.0 U
SBP3-02	12.5 - 14.0	---	---	46.0 U	23.0 U	---	---	10.0 U
SBP3-02 RE	12.5 - 14.0	---	---	270.0 U	80.0 U	---	---	10.0 U
SBP3-03	17.5 - 19.0	---	---	130.0 U	12.0 U	---	---	10.0 U
SBP3-06(D5)	32.5 - 34.0	---	---	16.0 U	12.0 U	---	---	10.0 U
SBP3-06(D5)	32.5 - 34.0	---	---	16.0 U	11.0 U	---	---	10.0 U
SBP4-04	13.5 - 14.5	---	---	29.0 U	11.0 U	---	---	10.0 U
SBP4-06(D6)	21.5 - 23.0	---	---	83.0 U	17.0 U	---	---	10.0 U
SBP4-08	36.5 - 38.0	---	---	120.0 U	82.0 U	---	---	10.0 U
SBP6-02	3.5 - 5.0	14.0 J	12.0 J	430.0	1100.0	36.0	11.0 J	200.0
SBP6-06	15.0 - 16.5	51.0 U	51.0 U	150.0 U J	380.0 U J	26.0 U	26.0 U	26.0 U
SBP6-11	40.0 - 41.5	10.0 U	10.0 U	110.0 U J	33.0 U J	5.0 U	5.0 U	5.0 U
ABP1-01	2.0 - 2.5	---	---	24.0 U	11.0 U	---	---	10.0 U
ABP2-01	1.5 - 2.5	---	---	16.0 U	12.0 U	---	---	10.0 U
ABP3-01	4.0 - 5.0	---	---	190.0	68.0 U J	---	---	10.0 U
ABP4-02	4.0 - 5.0	---	---	98.0	39.0 U J	---	---	10.0 U
ABP5-02	4.7 - 5.5	---	---	58.0 U	51.0 U	---	---	10.0 U
ABP6-01	2.8 - 3.6	---	---	39.0 U	35.0 U	---	---	10.0 U
ABP7-01	2.0 - 2.7	---	---	16.0 U	20.0 U	---	---	10.0 U
ABP8-01	4.0 - 4.7	---	---	17.0 U	13.0 U	---	---	10.0 U
ABP8-02	8.0 - 8.8	---	---	31.0 U	19.0 U	---	---	10.0 U
ABP9-02	4.0 - 4.8	---	---	15.0 U	11.0 U	---	---	10.0 U
ABP9-03	7.5 - 8.2	---	---	20.0 U	13.0 U	---	---	10.0 U
ABP10-01(D3)	0.8 - 1.4	---	---	110.0 U	260.0 U	---	---	10.0 U
ABP10-03(D3)	0.8 - 1.4	---	---	140.0 U	150.0 U	---	---	10.0 U
ABP10-05	3.0 - 4.0	---	---	1300.0 U	2600.0 U	---	---	10.0 U
ABP11-02	3.0 - 4.0	---	---	11.0 U	12.0 U	---	---	10.0 U
ABP12-01	3.0 - 4.0	---	---	1400.0 U	2900.0 U	---	---	10.0 U
ABP12-03	9.5 - 10.5	---	---	1800.0 U	1400.0 U	---	---	10.0 U
ABP13-01(D4)	0.8 - 2.0	---	---	1800.0 U	1800.0 U	---	---	10.0 U
ABP13-02(D4)	2.0 - 2.7	---	---	6800.0 U	17000.0 U	---	---	10.0 U
ABP13-03	3.0 - 3.5	---	---	150.0 U	310.0 U	---	---	10.0 U

RD/R62/012-11

Table C-11
(Continued)

Location	Depth	Chloroform	2-Butanone	1,1,1-Tri-chloroethane	Trichloro-ethane	Benzene	4-Methyl-2 Pentanone	2-Hexanone	Tetrachlo-roethylene	1,1,2,2-Tetrachloro-ethane
SB1-01	3.8 - 4.2	1300.0 U	2600.0 U J	4100.0	9800.0	2500.0	3000.0	---	---	---
SB1-02	4.8 - 6.2	25.0 J	290.0 U	45.0	120.0	23.0 J	140.0	54.0 U	---	---
SB1-07	20.0 - 21.5	5.0 U	12.0 U	10.0 U	---	---	---	---	---	---
SB2-01	5.1 - 5.8	20.0 J	260.0 U	32.0 U	32.0 U	32.0 U	160.0	86.0 J	---	---
SB2-02	5.8 - 7.0	25.0 U	51.0 U J	25.0 U	25.0 U	25.0 U	51.0 U	51.0 U	---	---
SB2-05	15.0 - 16.5	8.0 U	16.0 U	10.0 U	---	---	---	---	---	---
SB2-08	30.0 - 31.5	5.0 U	10.0 U	10.0 U	---	---	---	---	---	---
SB3-01	2.8 - 3.2	710.0 U	5700.0 J	710.0 U	710.0 U	610.0 J	3600.0	---	---	---
SB3-02	5.8 - 6.2	23.0 U	46.0 U J	23.0 U	23.0 U	23.0 U	46.0 U	46.0 U	---	---
SB3-05	4.5 - 6.0	10.0 U	15000.0 U	10.0 U	630.0 J	1500.0	9100.0	3600.0	---	---
SB3-11	25.0 - 26.5	5.0 U	12.0 U	10.0 U	---	---	---	---	---	---
SB4-01	5.0 - 7.5	770.0 U	8700.0 J	770.0 U	750.0 J	420.0 J	1400.0 J	---	---	---
SB4-02	9.0 - 10.5	10.0 U	1300.0 U	10.0 U	650.0 U	650.0 U	1300.0 U	1300.0 U	---	---
SB4-07	25.0 - 26.5	6.0 U	13.0 U	10.0 U	---	---	---	---	---	---
SB5-01(D1)	5.0 - 6.0	210.0 J	13000.0 J	3800.0	4400.0	1600.0 J	3100.0 J	---	---	---
SB5-02(D1)	5.0 - 6.0	18000.0 U	37000.0 U J	18000.0 U	18000.0 U	18000.0 U	3700.0 U	---	---	---
SB5-03	7.0 - 8.0	9.0 U	38.0 U	9.0 U	9.0 U	9.0 U	18.0 U	18.0 U	---	---
SB5-04(D2)	8.5 - 10.0	6.0 U	11.0 U	10.0 U	6.0 U	6.0 U	10.0 J	---	---	---
SB5-05(D2)	10.0 - 11.5	27.0 U	20.0 J	10.0 U	27.0 U	27.0 U	53.0 U	---	---	---
SB5-12	40.0 - 41.5	10.0 U	21.0 U	10.0 U	10.0 U	10.0 U	21.0 U	---	---	---
SB6-01	6.0 - 6.5	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	20.0 U	20.0 U	---	---
SB6-02	8.0 - 9.0	1700.0 U	3500.0 U J	1700.0 U	1900.0	1700.0 U	3500.0 U	---	---	---
SB6-03	10.0 - 11.5	29.0	25.0 J	10.0 U	24.0 U	24.0 U	180.0	---	---	---
SB6-06	20.0 - 21.5	6.0 U	11.0 U	10.0 U	6.0 U	6.0 U	11.0 U	---	---	---
SB7-01	2.5 - 3.0	17.0 J	89.0 U	23.0 U	82.0	20.0 J	46.0 U	46.0 U	---	---
SB7-02	8.0 - 8.5	1600.0 U	3200.0 U J	1600.0 U	1000.0 J	1600.0 U	3200.0 U	---	---	---
SB7-03	9.5 - 11.0	680.0 U	1400.0 U J	10.0 U	930.0	---	1400.0 U	---	860.0	---
SB7-04	11.0 - 12.5	650.0 U	1300.0 U J	10.0 U	700.0	---	1300.0 U	---	580.0 J	---
SB7-06	20.0 - 21.5	23.0 U	57.0	10.0 U	23.0 U	---	150.0	---	23.0 U	---
SB7-11	45.0 - 46.5	17.0	31.0 U	10.0 U	15.0 U	---	31.0 U	---	15.0 U	---
SB8-04	6.5 - 8.0	310.0 J	1400.0 U J	1000.0	20000.0	1200.0	4900.0	1400.0 U	3200.0	1400.0 J
SB8-08	20.0 - 21.5	26.0 U	2200.0 J	26.0 U	26.0 U	26.0 U	740.0	53.0 U	26.0 U	53.0 U
SB8-09	21.5 - 23.0	3.0 J	1100.0 J	5.0 U	5.0 U	5.0 U	750.0	18.0	0.8 J	10.0 U
SB8-12	35.0 - 36.5	26.0 U	170.0 J	26.0 U	26.0 U	26.0 U	210.0	51.0 U	26.0 U	51.0 U
SB9-01	2.0 - 3.5	710.0 U	1400.0 U J	710.0 U	710.0 U	710.0 U	1400.0 U	1400.0 U	710.0 U	1400.0 U
SB9-04	8.5 - 10.0	690.0 U	1400.0 U J	690.0 U	690.0 U	690.0 U	1400.0 U	1400.0 U	690.0 U	1400.0 U
SB9-08	25.0 - 26.5	25.0 U	50.0 U J	25.0 U	25.0 U	25.0 U	50.0 U	50.0 U	25.0 U	50.0 U
SB11-03	5.0 - 6.5	8.0	10.0 U J	5.0 U	5.0 U	5.0 U	10.0 U	10.0 U	10.0 U	10.0 U
SB11-07	10.0 - 11.5	5.0 U	37.0 J	5.0 U	5.0 U	5.0 U	10.0 U	10.0 U	5.0 U	10.0 U
SB12-02	3.5 - 5.0	10.0	11.0 U J	6.0 U	6.0 U	6.0 U	11.0 U	11.0 U	6.0 U	11.0 U
SB12-06	15.0 - 16.5	6.0	10.0 U J	5.0 U	5.0 U	5.0 U	10.0 U	10.0 U	5.0 U	10.0 U
SB13-02	12.0 - 13.5	750.0 U	1500.0 U J	750.0 U	1100.0	750.0 U	1100.0 J	1500.0 U	1600.0	1500.0 U
SB13-07	30.0 - 31.5	8.0	23.0 J	5.0 U	5.0 U	5.0 U	10.0 U	10.0 U	5.0 U	10.0 U
SB14-01	17.0 - 18.5	7.0	3.0 J	5.0 U	5.0 U	5.0 U	10.0 U	10.0 U	5.0 U	10.0 U
SBB1-01	5.0 - 6.5	12.0	13.0 U	10.0 U	---	---	---	---	---	---

Table C-11
(Continued)

Location	Depth	Chloroform	2-Butanone	1,1,1-Trichloroethane	Trichloroethane	Benzene	4-Methyl-2 Pentanone	2-Hexanone	Tetrachloroethylene	1,1,2,2-Tetrachloroethane
SBB1-03	15.0 - 16.5	5.0 J	13.0 U	10.0 U	---	---	---	---	---	---
SBB1-06	30.0 - 31.5	5.0 U	11.0 U	10.0 U	---	---	---	---	---	---
SBB2-01(D2)	5.0 - 6.5	6.0 U	13.0 U	10.0 U	---	---	---	---	---	---
SBB2-01(D2)	5.0 - 6.5	5.0 U	11.0 U	10.0 U	---	---	---	---	---	---
SBB2-03	15.0 - 16.5	7.0 U	14.0 U	10.0 U	---	---	---	---	---	---
SBB2-07	35.0 - 36.5	6.0 U	12.0 U	10.0 U	---	---	---	---	---	---
SBB3-02	10.0 - 11.5	6.0 U	11.0 U	10.0 U	---	---	---	---	---	---
SBB3-04	20.0 - 21.5	6.0 U	13.0 U	10.0 U	---	---	---	---	---	---
SBB3-07	35.0 - 36.5	6.0 U	11.0 U	10.0 U	---	---	---	---	---	---
SBP1-02	1.5 - 3.0	41.0	93.0 U	30.0 U	180.0	20.0 J	60.0 U	60.0 U	---	---
SBP1-05	10.0 - 11.5	47.0	70.0 U	31.0 U	110.0	31.0 U	63.0 U	63.0 U	---	---
SBP1-08	25.0 - 26.5	26.0	52.0 U	26.0 U	26.0 U	26.0 U	51.0 U	51.0 U	---	---
SBP2-02	3.0 - 4.5	13.0 U	26.0 U J	13.0 U	13.0 U	13.0 U	26.0 U	26.0 U	---	---
SBP2-06	15.0 - 16.5	19.0 U	39.0 U J	19.0 U	19.0 U	19.0 U	39.0 U	39.0 U	---	---
SBP2-06 DL	15.0 - 16.5	10.0 U	---	10.0 U	---	---	---	---	---	---
SBP2-09	30.0 - 31.5	8.0 U	16.0 U J	8.0 U	8.0 U	8.0 U	16.0 U	16.0 U	---	---
SBP3-02	12.5 - 14.0	7.0 U	13.0 U	10.0 U	7.0 U	---	---	---	---	---
SBP3-02 RE	12.5 - 14.0	4.0 J	13.0 U	10.0 U	6.0 U	---	---	---	---	---
SBP3-03	17.5 - 19.0	6.0 U	12.0 U	10.0 U	6.0 U	---	---	---	---	---
SBP3-06(D5)	32.5 - 34.0	6.0 U	8.0 J	10.0 U	7.0	---	---	---	---	---
SBP3-06(D5)	32.5 - 34.0	5.0 U	11.0 U	10.0 U	5.0 J	---	---	---	---	---
SBP4-04	13.5 - 14.5	6.0 U	28.0 J	10.0 U	6.0	---	---	---	---	---
SBP4-06(D6)	21.5 - 23.0	8.0 U	7.0 J	10.0 U	8.0 U	---	---	---	---	---
SBP4-08	36.5 - 38.0	2.0 J	18.0 J	10.0 U	6.0 U	---	---	---	---	---
SBP6-02	3.5 - 5.0	20.0 J	52.0 U	58.0	83.0	23.0 J	820.0	180.0	16.0 J	52.0 U
SBP6-06	15.0 - 16.5	26.0 U	51.0 U J	26.0 U	26.0 U	26.0 U	51.0 U	51.0 U	26.0 U	51.0 U
SBP6-11	40.0 - 41.5	6.0	10.0 U J	5.0 U	5.0 U	5.0 U	10.0 U	10.0 U	5.0 U	10.0 U
ABP1-01	2.0 - 2.5	6.0 U	11.0 U	10.0 U	6.0 U	6.0 U	11.0 U	---	6.0 U	---
ABP2-01	1.5 - 2.5	6.0 U	11.0 U	10.0 U	6.0 U	6.0 U	11.0 U	---	---	---
ABP3-01	4.0 - 5.0	13.0 U	27.0 U	10.0 U	13.0 U	---	27.0 U	---	81.0	---
ABP4-02	4.0 - 5.0	20.0 U	39.0 U	10.0 U	20.0 U	---	39.0 U	---	20.0 U	---
ABP5-02	4.7 - 5.5	25.0 U	51.0 U	10.0 U	25.0 U	25.0 U	51.0 U	---	---	---
ABP6-01	2.8 - 3.6	14.0 U	27.0 U	10.0 U	14.0 U	14.0 U	27.0 U	---	---	---
ABP7-01	2.0 - 2.7	5.0 U	11.0 U	10.0 U	5.0 U	5.0 U	4.0 J	---	---	---
ABP8-01	4.0 - 4.7	7.0 U	13.0 U	10.0 U	7.0 U	7.0 U	13.0 U	---	---	---
ABP8-02	8.0 - 8.8	6.0 U	13.0 U	10.0 U	6.0 U	6.0 U	13.0 U	---	---	---
ABP9-02	4.0 - 4.8	6.0 U	11.0 U	10.0 U	6.0 U	6.0 U	11.0 U	---	---	---
ABP9-03	7.5 - 8.2	6.0 U	13.0 U	10.0 U	6.0 U	6.0 U	13.0 U	---	---	---
ABP10-01(D3)	0.8 - 1.4	20.0 J	36.0 J	10.0 U	32.0	19.0 J	89.0	---	---	---
ABP10-03(D3)	0.8 - 1.4	7.0 J	49.0 U	10.0 U	68.0	27.0	42.0 J	---	---	---
ABP10-05	3.0 - 4.0	10.0 U	---	10.0 U	---	---	---	---	---	---
ABP11-02	3.0 - 4.0	6.0 U	12.0 U	10.0 U	---	---	---	---	---	---
ABP12-01	3.0 - 4.0	10.0 U	2900.0 U	10.0 U	2200.0	1400.0 U	2900.0 U	2900.0 U	---	---
ABP12-03	9.5 - 10.5	10.0 U	1400.0 U	10.0 U	1200.0	690.0 U	1400.0 U	1400.0 U	---	---
ABP13-01(D4)	0.8 - 2.0	10.0 U	---	10.0 U	---	---	---	---	---	---
ABP13-02(D4)	2.0 - 2.7	10.0 U	---	10.0 U	---	---	---	---	---	---
ABP13-03	3.0 - 3.5	27.0 U	130.0	10.0 U	27.0 U	27.0 U	65.0	---	---	---

RD/R62/012-13

Table C-11
(Continued)

Location	Depth	Toluene	Ethylbenzene	Total Xylenes	Phenol	2-Methyl-phenol	4-Methyl-phenol	Isophorone	2,4-Dimethyl-phenol	Benzoic Acid
SB1-01	3.8 - 4.2	17000.0	8300.0	45000.0	99000.0	---	56000.0	---	66000.0 J	---
SB1-02	4.8 - 6.2	1000.0	170.0	1200.0	1900.0 U	---	---	---	---	---
SB1-07	20.0 - 21.5	4.0 J	10.0 U	---	350.0 U	---	350.0 U	---	---	---
SB2-01	5.1 - 5.8	120.0	25.0 J	120.0	10000.0 J	---	26000.0 U	---	26000.0 U	---
SB2-02	5.8 - 7.0	140.0	25.0 U	25.0 U	750.0 U	---	---	---	---	---
SB2-05	15.0 - 16.5	230.0	10.0 U	---	370.0 U	---	370.0 U	---	---	---
SB2-08	30.0 - 31.5	14.0	10.0 U	---	380.0 U	---	380.0 U	---	---	---
SB3-01	2.8 - 3.2	8500.0	4500.0	27000.0	23000.0 U	---	23000.0 U	---	23000.0 U	---
SB3-02	5.8 - 6.2	320.0	110.0	850.0	350.0 J	---	---	---	---	---
SB3-05	4.5 - 6.0	15000.0	8200.0	48000.0	---	---	---	---	---	---
SB3-11	25.0 - 26.5	8.0	10.0 U	---	360.0 U	---	360.0 U	---	---	---
SB4-01	5.0 - 7.5	4800.0	2000.0	13000.0	8300.0 J	---	24000.0 U	---	24000.0 U	---
SB4-02	9.0 - 10.5	2300.0	650.0 U	1400.0	340.0 J	---	340.0 J	---	---	---
SB4-07	25.0 - 26.5	14.0	10.0 U	---	360.0 U	---	360.0 U	---	---	---
SB5-01(D1)	5.0 - 6.0	7700.0	3900.0	20000.0	27000.0 U	---	27000.0 U	---	27000.0 U	---
SB5-02(D1)	5.0 - 6.0	18000.0 U	18000.0 U	20000.0	28000.0 U	---	28000.0 U	---	28000.0 U	---
SB5-03	7.0 - 8.0	9.0 U	9.0 U	9.0 U	370.0 U	---	---	---	---	---
SB5-04(D2)	8.5 - 10.0	25.0	6.0 U	6.0 U	610.0	360.0 U	360.0 U	---	360.0 U	270.0 J
SB5-05(D2)	10.0 - 11.5	22.0 J	27.0 U	27.0 U	100.0 J	370.0 U	370.0 U	---	370.0 U	1800.0 U
SB5-12	40.0 - 41.5	5.0 J	10.0 U	10.0 U	350.0 U	350.0 U	350.0 U	---	350.0 U	1700.0 U
SB6-01	6.0 - 6.5	49.0	10.0 U	10.0 U	820.0 U	---	---	---	---	---
SB6-02	8.0 - 9.0	1400.0 J	4000.0	6300.0	26000.0 U	---	26000.0 U	---	26000.0 U	---
SB6-03	10.0 - 11.5	29.0	24.0 U	40.0	2200.0	1100.0	2500.0	---	6000.0	3600.0 U
SB6-06	20.0 - 21.5	14.0	6.0 U	6.0 U	370.0 U	370.0 U	370.0 U	---	370.0 U	1800.0 U
SB7-01	2.5 - 3.0	330.0	48.0	150.0	760.0 U	---	---	---	---	---
SB7-02	8.0 - 8.5	2300.0	2200.0	5600.0	24000.0 U	---	24000.0 U	---	24000.0 U	---
SB7-03	9.5 - 11.0	5700.0	2200.0	13000.0	---	---	21000.0 U	---	---	---
SB7-04	11.0 - 12.5	4100.0	1500.0	9100.0	---	---	21000.0 U	---	---	---
SB7-06	20.0 - 21.5	23.0 U	23.0 U	23.0 U	---	---	440.0	---	---	---
SB7-11	45.0 - 46.5	1000.0	140.0	590.0	---	---	350.0 U	---	---	---
SB8-04	6.5 - 8.0	20000.0	19000.0	72000.0	22000.0 U	22000.0 U	22000.0 U	---	22000.0 U	110000.0 U
SB8-08	20.0 - 21.5	26.0 U	26.0 U	26.0 U	2100.0	320.0 J	1100.0	---	780.0	390.0 J
SB8-09	21.5 - 23.0	9.0	5.0 U	5.0 U	2800.0	550.0	2300.0	---	1800.0	1600.0 U
SB8-12	35.0 - 36.5	15.0 J	26.0 U	26.0 U	700.0	670.0 U	260.0 J	---	670.0 U	3300.0 U
SB9-01	2.0 - 3.5	3500.0	1400.0	7700.0	22000.0 U	22000.0 U	22000.0 U	---	22000.0 U	110000.0 U
SB9-04	8.5 - 10.0	2000.0	530.0 J	870.0	22000.0 U	22000.0 U	22000.0 U	---	22000.0 U	110000.0 U
SB9-08	25.0 - 26.5	25.0 U	25.0 U	25.0 U	330.0 U	330.0 U	330.0 U	---	330.0 U	1600.0 U
SB11-03	5.0 - 6.5	3.0 J	5.0 U	5.0 U	340.0 U	340.0 U	340.0 U	---	340.0 U	1600.0 U
SB11-07	10.0 - 11.5	5.0 U	5.0 U	5.0 U	340.0 U	340.0 U	340.0 U	---	340.0 U	1600.0 U
SB12-02	3.5 - 5.0	12.0	6.0 U	6.0 U	370.0 U	370.0 U	370.0 U	---	370.0 U	1800.0 U
SB12-06	15.0 - 16.5	5.0 J	5.0 U	5.0 U	340.0 U	340.0 U	340.0 U	---	340.0 U	1600.0 U
SB13-02	12.0 - 13.5	1800.0	2200.0	120000.0	41000.0	24000.0 U	18000.0 J	---	29000.0	120000.0 U
SB13-07	30.0 - 31.5	3.0 J	5.0 U	5.0 U	330.0 U	330.0 U	330.0 U	---	330.0 U	1600.0 U
SB14-01	17.0 - 18.5	2.0 J	5.0 U	5.0 U	340.0 U	340.0 U	340.0 U	---	340.0 U	1600.0 U
SBB1-01	5.0 - 6.5	87.0	10.0 U	---	390.0 U	---	390.0 U	---	---	---
SBB1-03	15.0 - 16.5	120.0	10.0 U	---	400.0 U	---	400.0 U	---	---	---

Table C-11
(Continued)

Location	Depth	Toluene	Ethylbenzene	Total Xylenes	Phenol	2-Methyl-phenol	4-Methyl-phenol	Isophorone	2,4-Dimethyl-phenol	Benzoic Acid
SBB1-06	30.0 - 31.5	4.0 J	10.0 U	---	360.0 U	---	360.0 U	---	---	---
SBB2-01(D2)	5.0 - 6.5	15.0	10.0 U	---	360.0 U	---	360.0 U	---	---	---
SBB2-01(D2)	5.0 - 6.5	11.0	10.0 U	---	370.0 U	---	370.0 U	---	---	---
SBB2-03	15.0 - 16.5	94.0	10.0 U	---	420.0 U	---	420.0 U	---	---	---
SBB2-07	35.0 - 36.5	16.0	10.0 U	---	360.0 U	---	360.0 U	---	---	---
SBB3-02	10.0 - 11.5	9.0	10.0 U	---	350.0 U	---	350.0 U	---	---	---
SBB3-04	20.0 - 21.5	13.0	10.0 U	---	350.0 U	---	350.0 U	---	---	---
SBB3-07	35.0 - 36.5	6.0 U	10.0 U	---	370.0 U	---	370.0 U	---	---	---
SBP1-02	1.5 - 3.0	1200.0	66.0	110.0	8000.0 J	---	25000.0 U	---	25000.0 U	---
SBP1-05	10.0 - 11.5	1100.0	99.0	140.0	870.0 U	---	---	---	---	---
SBP1-08	25.0 - 26.5	13.0 J	26.0 U	26.0 U	350.0 U	---	---	---	---	---
SBP2-02	3.0 - 4.5	26.0	13.0 U	13.0 U	380.0 U	---	---	---	---	---
SBP2-06	15.0 - 16.5	330.0	46.0	50.0	390.0 U	---	---	---	---	---
SBP2-06 DL	15.0 - 16.5	10.0 U	10.0 U	---	1500.0 U	---	---	---	---	---
SBP2-09	30.0 - 31.5	8.0 U	8.0 U	8.0 U	360.0 U	---	---	---	---	---
SBP3-02	12.5 - 14.0	130.0	10.0 U	---	---	---	---	---	---	---
SBP3-02 RE	12.5 - 14.0	39.0	10.0 U	---	---	---	---	---	---	---
SBP3-03	17.5 - 19.0	23.0	10.0 U	---	---	---	---	---	---	---
SBP3-06(D5)	32.5 - 34.0	6.0 U	10.0 U	---	---	---	---	---	---	---
SBP3-06(D5)	32.5 - 34.0	10.0	10.0 U	---	---	---	---	---	---	---
SBP4-04	13.5 - 14.5	20.0	10.0 U	---	---	---	---	---	---	---
SBP4-06(D6)	21.5 - 23.0	14.0	10.0 U	---	---	---	---	---	---	---
SBP4-08	36.5 - 38.0	6.0 U	10.0 U	---	---	---	---	---	---	---
SBP6-02	3.5 - 5.0	570.0	56.0	330.0	22000.0 U	22000.0 U	22000.0 U	---	22000.0 U	110000.0 U
SBP6-06	15.0 - 16.5	26.0 U	26.0 U	26.0 U	350.0 U	350.0 U	350.0 U	---	350.0 U	1700.0 U
SBP6-11	40.0 - 41.5	7.0	5.0 U	5.0 U	330.0 U	330.0 U	330.0 U	---	330.0 U	1600.0 U
ABP1-01	2.0 - 2.5	6.0	6.0 U	6.0 U	760.0 U	760.0 U	760.0 U	---	760.0 U	3700.0 U
ABP2-01	1.5 - 2.5	14.0	6.0 U	13.0	370.0 U	370.0 U	370.0 U	---	370.0 U	1800.0 U
ABP3-01	4.0 - 5.0	220.0 J	13.0 U	13.0 U	---	---	370.0 U	---	---	---
ABP4-02	4.0 - 5.0	24.0	20.0 U	20.0 U	---	---	380.0 U	---	---	---
ABP5-02	4.7 - 5.5	88.0	25.0 U	25.0 U	360.0 U	360.0 U	360.0 U	---	360.0 U	1800.0 U
ABP6-01	2.8 - 3.6	520.0	14.0 U	14.0 U	770.0 U	770.0 U	770.0 U	---	770.0 U	3700.0 U
ABP7-01	2.0 - 2.7	40.0	5.0 U	5.0 U	370.0 U	370.0 U	370.0 U	---	370.0 U	1800.0 U
ABP8-01	4.0 - 4.7	7.0 U	7.0 U	7.0 U	440.0 U	440.0 U	440.0 U	---	440.0 U	2100.0 U
ABP8-02	8.0 - 8.8	6.0 U	6.0 U	6.0 U	390.0 U	390.0 U	390.0 U	---	390.0 U	1900.0 U
ABP9-02	4.0 - 4.8	6.0 U	6.0 U	6.0 U	390.0 U	390.0 U	390.0 U	---	390.0 U	1900.0 U
ABP9-03	7.5 - 8.2	12.0	6.0 U	6.0 U	430.0 U	430.0 U	430.0 U	---	430.0 U	2100.0 U
ABP10-01(D3)	0.8 - 1.4	170.0	37.0	230.0	---	---	---	---	---	---
ABP10-03(D3)	0.8 - 1.4	150.0	33.0	240.0	---	---	---	---	---	---
ABP10-05	3.0 - 4.0	660.0 J	1300.0 J	1400.0	---	---	---	---	---	---
ABP11-02	3.0 - 4.0	3.0 J	10.0 U	---	360.0 U	---	360.0 U	---	---	---
ABP12-01	3.0 - 4.0	2100.0	1400.0 U	2300.0	---	---	---	---	---	---
ABP12-03	9.5 - 10.5	1600.0	740.0	3200.0	---	---	---	---	---	---
ABP13-01(D4)	0.8 - 2.0	1900.0	1400.0	8400.0	---	---	---	---	---	---
ABP13-02(D4)	2.0 - 2.7	2600.0	1100.0	8200.0	---	---	---	---	---	---
ABP13-03	3.0 - 3.5	1000.0	61.0	380.0	320.0 J	760.0 U	300.0 J	---	760.0 U	3700.0 U

Table C-11
(Continued)

Location	Depth	Naphthalene	2-Methyl-naphthalene	Acenaphthene	Fluorene	N-Nitrosodi-phenylamine	Phenanthrene	Anthracene	Di-N-Butyl phthalate
SB1-01	3.8 - 4.2	91000.0	190000.0	---	---	---	41000.0 U	10000.0 U	---
SB1-02	4.8 - 6.2	5700.0	11000.0	---	1900.0 U	---	5200.0 J	10000.0 U	1900.0 U J
SB1-07	20.0 - 21.5	350.0 U	350.0 U	---	350.0 U	---	350.0 U	10000.0 U	---
SB2-01	5.1 - 5.8	27000.0	48000.0	---	---	---	170000.0	10000.0 U	---
SB2-02	5.8 - 7.0	750.0 U	750.0 U	---	750.0 U	---	750.0 U J	10000.0 U	750.0 U J
SB2-05	15.0 - 16.5	370.0 U	370.0 U	---	370.0 U	---	370.0 U	10000.0 U	---
SB2-08	30.0 - 31.5	380.0 U	380.0 U	---	380.0 U	---	380.0 U	10000.0 U	---
SB3-01	2.8 - 3.2	29000.0	41000.0	---	---	---	23000.0 U	10000.0 U	---
SB3-02	5.8 - 6.2	3800.0	5200.0	---	270.0 J	---	750.0 U	10000.0 U	750.0 U
SB3-05	4.5 - 6.0	32000.0	47000.0	---	---	---	10000.0 U	10000.0 U	---
SB3-11	25.0 - 26.5	360.0 U	360.0 U	---	360.0 U	---	360.0 U	10000.0 U	---
SB4-01	5.0 - 7.5	4300.0 J	12000.0 J	---	---	---	24000.0 U	10000.0 U	---
SB4-02	9.0 - 10.5	2300.0	3300.0	---	220.0 J	---	670.0 J	10000.0 U	---
SB4-07	25.0 - 26.5	360.0 U	360.0 U	---	360.0 U	---	360.0 U	10000.0 U	---
SB5-01 (D1)	5.0 - 6.0	26000.0 J	54000.0	---	---	---	53000.0	10000.0 U	---
SB5-02 (D1)	5.0 - 6.0	25000.0 J	57000.0	---	---	---	47000.0	10000.0 U	---
SB5-03	7.0 - 8.0	370.0 U	370.0 U	---	370.0 U	---	370.0 U	10000.0 U	370.0 U
SB5-04 (D2)	8.5 - 10.0	360.0 U	360.0 U	---	360.0 U	---	360.0 U	10000.0 U	360.0 U
SB5-05 (D2)	10.0 - 11.5	370.0 U	370.0 U	---	370.0 U	---	370.0 U	10000.0 U	370.0 U
SB5-12	40.0 - 41.5	350.0 U	350.0 U	---	350.0 U	---	350.0 U	10000.0 U	350.0 U
SB6-01	6.0 - 6.5	820.0 U	820.0 U	---	820.0 U	---	820.0 U	10000.0 U	820.0 U
SB6-02	8.0 - 9.0	26000.0 U	15000.0 J	---	---	---	9600.0 J	10000.0 U	---
SB6-03	10.0 - 11.5	8300.0	16000.0	---	990.0	---	4300.0	10000.0 U	730.0 U
SB6-06	20.0 - 21.5	370.0 U	370.0 U	---	370.0 U	---	370.0 U	10000.0 U	370.0 U
SB7-01	2.5 - 3.0	260.0 J	690.0 J	---	760.0 U	---	760.0 U	10000.0 U	760.0 U
SB7-02	8.0 - 8.5	5300.0 J	15000.0 J	---	---	---	4900.0 J	10000.0 U	---
SB7-03	9.5 - 11.0	14000.0 J	35000.0	21000.0 U	21000.0 U	12000.0 J	6900.0 J	10000.0 U	---
SB7-04	11.0 - 12.5	21000.0 U	21000.0 U	21000.0 U	21000.0 U	21000.0 U	21000.0 U	10000.0 U	---
SB7-06	20.0 - 21.5	380.0 U	380.0 U	380.0 U	380.0 U	380.0 U	380.0 U	10000.0 U	---
SB7-11	45.0 - 46.5	3800.0	13000.0	170.0 J	550.0	350.0 U	1300.0	10000.0 U	---
SB8-04	6.5 - 8.0	35000.0	64000.0	---	---	22000.0 U	6700.0 J	10000.0 U	---
SB8-08	20.0 - 21.5	350.0 U	350.0 U	---	---	350.0 U	350.0 U	10000.0 U	---
SB8-09	21.5 - 23.0	340.0 U	340.0 U	---	---	340.0 U	340.0 U	10000.0 U	---
SB8-12	35.0 - 36.5	670.0 U	670.0 U	---	---	670.0 U	670.0 U	10000.0 U	---
SB9-01	2.0 - 3.5	17000.0 J	30000.0	---	---	22000.0 U	6900.0 J	10000.0 U	---
SB9-04	8.5 - 10.0	22000.0 U	7600.0 J	---	---	22000.0 U	7100.0 J	10000.0 U	---
SB9-08	25.0 - 26.5	330.0 U	330.0 U	---	---	330.0 U	330.0 U	10000.0 U	---
SB11-03	5.0 - 6.5	340.0 U	340.0 U	---	---	340.0 U	340.0 U	10000.0 U	---
SB11-07	10.0 - 11.5	340.0 U	340.0 U	---	---	340.0 U	340.0 U	10000.0 U	---
SB12-02	3.5 - 5.0	370.0 U	370.0 U	---	---	370.0 U	370.0 U	10000.0 U	---
SB12-06	15.0 - 16.5	340.0 U	340.0 U	---	---	340.0 U	340.0 U	10000.0 U	---
SB13-02	12.0 - 13.5	19000.0 J	20000.0 J	---	---	24000.0 U	5000.0 J	10000.0 U	---
SB13-07	30.0 - 31.5	330.0 U	330.0 U	---	---	330.0 U	330.0 U	10000.0 U	---
SB14-01	17.0 - 18.5	340.0 U	340.0 U	---	---	340.0 U	340.0 U	10000.0 U	---
SBB1-01	5.0 - 6.5	390.0 U	390.0 U	---	390.0 U	---	390.0 U	10000.0 U	---
SBB1-03	15.0 - 16.5	400.0 U	400.0 U	---	400.0 U	---	400.0 U	10000.0 U	---

Table C-11
(Continued)

Location	Depth	Naphthalene	2-Methyl-naphthalene	Acenaphthene	Fluorene	N-Nitrosodi-phenylamine	Phenanthrene	Anthracene	Di-N-Butyl phthalate
SBB1-06	30.0 - 31.5	360.0 U	360.0 U	---	360.0 U	---	360.0 U	10000.0 U	---
SBB2-01(D2)	5.0 - 6.5	360.0 U	360.0 U	---	360.0 U	---	360.0 U	10000.0 U	---
SBB2-01(D2)	5.0 - 6.5	370.0 U	370.0 U	---	370.0 U	---	370.0 U	10000.0 U	---
SBB2-03	15.0 - 16.5	420.0 U	420.0 U	---	420.0 U	---	420.0 U	10000.0 U	---
SBB2-07	35.0 - 36.5	360.0 U	360.0 U	---	360.0 U	---	360.0 U	10000.0 U	---
SBB3-02	10.0 - 11.5	350.0 U	350.0 U	---	350.0 U	---	350.0 U	10000.0 U	---
SBB3-04	20.0 - 21.5	350.0 U	350.0 U	---	350.0 U	---	350.0 U	10000.0 U	---
SBB3-07	35.0 - 36.5	370.0 U	370.0 U	---	370.0 U	---	370.0 U	10000.0 U	---
SBP1-02	1.5 - 3.0	34000.0	65000.0	---	---	---	22000.0 J	10000.0 U	---
SBP1-05	10.0 - 11.5	870.0 U	870.0 U	---	760.0 J	---	870.0 U J	10000.0 U	870.0 U J
SBP1-08	25.0 - 26.5	350.0 U	350.0 U	---	350.0 U	---	350.0 U	10000.0 U	350.0 U
SBP2-02	3.0 - 4.5	380.0 U	380.0 U	---	380.0 U	---	380.0 U	10000.0 U	380.0 U
SBP2-06	15.0 - 16.5	6900.0 E	16000.0 E	---	500.0	---	1200.0	10000.0 U	390.0 U
SBP2-06 DL	15.0 - 16.5	7200.0	18000.0	---	560.0 J	---	1400.0 J	10000.0 U	1500.0 U
SBP2-09	30.0 - 31.5	360.0 U	360.0 U	---	360.0 U	---	360.0 U	10000.0 U	360.0 U
SBP3-02	12.5 - 14.0	10000.0 U	---	---	---	---	10000.0 U	10000.0 U	---
SBP3-02 RE	12.5 - 14.0	10000.0 U	---	---	---	---	10000.0 U	10000.0 U	---
SBP3-03	17.5 - 19.0	10000.0 U	---	---	---	---	10000.0 U	10000.0 U	---
SBP3-06(D5)	32.5 - 34.0	10000.0 U	---	---	---	---	10000.0 U	10000.0 U	---
SBP3-06(D5)	32.5 - 34.0	10000.0 U	---	---	---	---	10000.0 U	10000.0 U	---
SBP4-04	13.5 - 14.5	10000.0 U	---	---	---	---	10000.0 U	10000.0 U	---
SBP4-06(D6)	21.5 - 23.0	10000.0 U	---	---	---	---	10000.0 U	10000.0 U	---
SBP4-08	36.5 - 38.0	10000.0 U	---	---	---	---	10000.0 U	10000.0 U	---
SBP6-02	3.5 - 5.0	22000.0 U	7900.0 J	---	---	5900.0 J	22000.0 U	10000.0 U	---
SBP6-06	15.0 - 16.5	350.0 U	350.0 U	---	---	350.0 U	350.0 U	10000.0 U	---
SBP6-11	40.0 - 41.5	330.0 U	330.0 U	---	---	330.0 U	330.0 U	10000.0 U	---
ABP1-01	2.0 - 2.5	760.0 U	760.0 U	---	760.0 U	---	760.0 U	10000.0 U	760.0 U
ABP2-01	1.5 - 2.5	370.0 U	370.0 U	---	370.0 U	---	370.0 U	10000.0 U	370.0 U
ABP3-01	4.0 - 5.0	370.0 U	370.0 U	370.0 U	370.0 U	370.0 U	370.0 U	10000.0 U	---
ABP4-02	4.0 - 5.0	380.0 U	380.0 U	380.0 U	380.0 U	380.0 U	380.0 U	10000.0 U	---
ABP5-02	4.7 - 5.5	360.0 U	360.0 U	---	360.0 U	---	360.0 U	10000.0 U	360.0 U
ABP6-01	2.8 - 3.6	770.0 U	770.0 U	---	770.0 U	---	770.0 U	10000.0 U	770.0 U
ABP7-01	2.0 - 2.7	370.0 U	370.0 U	---	370.0 U	---	370.0 U	10000.0 U	370.0 U
ABP8-01	4.0 - 4.7	440.0 U	440.0 U	---	440.0 U	---	440.0 U	10000.0 U	510.0 U
ABP8-02	8.0 - 8.8	390.0 U	390.0 U	---	390.0 U	---	390.0 U	10000.0 U	390.0 U
ABP9-02	4.0 - 4.8	390.0 U	390.0 U	---	390.0 U	---	390.0 U	10000.0 U	390.0 U
ABP9-03	7.5 - 8.2	430.0 U	430.0 U	---	430.0 U	---	430.0 U	10000.0 U	430.0 U
ABP10-01(D3)	0.8 - 1.4	23000.0 U	12000.0 J	---	---	---	8100.0 J	10000.0 U	---
ABP10-03(D3)	0.8 - 1.4	22000.0 U	9100.0 J	---	---	---	5900.0 J	10000.0 U	---
ABP10-05	3.0 - 4.0	21000.0 U	21000.0 U	---	---	---	21000.0 U	10000.0 U	---
ABP11-02	3.0 - 4.0	360.0 U	360.0 U	---	360.0 U	---	360.0 U	10000.0 U	---
ABP12-01	3.0 - 4.0	3500.0 J	7100.0 J	---	---	---	10000.0 U	10000.0 U	---
ABP12-03	9.5 - 10.5	22000.0 U	6400.0 J	---	---	---	10000.0 U	10000.0 U	---
ABP13-01(D4)	0.8 - 2.0	19000.0 J	38000.0	---	---	---	17000.0 J	10000.0 U	---
ABP13-02(D4)	2.0 - 2.7	13000.0 J	24000.0	---	---	---	9200.0 J	10000.0 U	---
ABP13-03	3.0 - 3.5	1900.0	3600.0	---	190.0 J	---	1400.0	10000.0 U	760.0 U

RD/R62/012-17

Table C-11
(Continued)

Location	Depth	Fluoranthene	Pyrene	Benzo(a) Anthracene	Chrysene	Bis(2-Ethyl-hexyl) Phthalate	Benzo(k) Fluoranthane	Benzo(a) Pyrene	Chloro-benzene	Dibenzo-furan
SB1-01	3.8 - 4.2	41000.0 U	41000.0 U	41000.0 U	41000.0 U	41000.0 U	41000.0 U	---	2900.0	---
SB1-02	4.8 - 6.2	1200.0 J	1100.0 J	10000.0 U	---	1900.0 U	---	---	76.0	---
SB1-07	20.0 - 21.5	---	---	10000.0 U	---	350.0 U	---	---	10.0 U	---
SB2-01	5.1 - 5.8	26000.0 U	26000.0 U	26000.0 U	26000.0 U	26000.0 U	26000.0 U	---	32.0 U	---
SB2-02	5.8 - 7.0	750.0 U J	750.0 U J	10000.0 U	---	750.0 U	---	---	25.0 U	---
SB2-05	15.0 - 16.5	---	---	10000.0 U	---	130.0 J	---	---	10.0 U	---
SB2-08	30.0 - 31.5	---	---	10000.0 U	---	380.0 U	---	---	10.0 U	---
SB3-01	2.8 - 3.2	23000.0 U	23000.0 U	23000.0 U	6900.0 J	8300.0 J	23000.0 U	---	1600.0	---
SB3-02	5.8 - 6.2	750.0 U	750.0 U	10000.0 U	---	750.0 U	---	---	29.0	---
SB3-05	4.5 - 6.0	---	---	10000.0 U	---	---	---	---	10.0 U	---
SB3-11	25.0 - 26.5	---	---	10000.0 U	---	94.0 J	---	---	10.0 U	---
SB4-01	5.0 - 7.5	6600.0 J	3400.0 J	24000.0 U	24000.0 U	24000.0 U	24000.0 U	---	820.0	---
SB4-02	9.0 - 10.5	---	---	10000.0 U	---	730.0 U	---	---	10.0 U	---
SB4-07	25.0 - 26.5	---	---	10000.0 U	---	360.0 U	---	---	10.0 U	---
SB5-01 (D1)	5.0 - 6.0	20000.0 J	11000.0 J	15000.0 J	60000.0	27000.0 U	27000.0 U	---	1700.0 U	---
SB5-02 (D1)	5.0 - 6.0	11000.0 J	11000.0 J	28000.0 U	28000.0 U	28000.0 U	27000.0 J	---	18000.0 U	---
SB5-03	7.0 - 8.0	370.0 U	370.0 U	10000.0 U	---	370.0 U	---	---	9.0 U	---
SB5-04 (D2)	8.5 - 10.0	360.0 U	360.0 U	10000.0 U	360.0 U	360.0 U	---	---	6.0 U	---
SB5-05 (D2)	10.0 - 11.5	370.0 U	370.0 U	10000.0 U	370.0 U	370.0 U	---	---	27.0 U	---
SB5-12	40.0 - 41.5	350.0 U	350.0 U	10000.0 U	350.0 U	350.0 U	---	---	10.0 U	---
SB6-01	6.0 - 6.5	820.0 U	820.0 U J	10000.0 U	---	250.0 J	---	---	10.0 U	---
SB6-02	8.0 - 9.0	26000.0 U	26000.0 U	26000.0 U	26000.0 U	26000.0 U	26000.0 U	---	840.0 J	---
SB6-03	10.0 - 11.5	510.0 J	390.0 J	10000.0 U	730.0 U	730.0 U	---	---	24.0 U	---
SB6-06	20.0 - 21.5	370.0 U	370.0 U	10000.0 U	370.0 U	370.0 U	---	---	6.0 U	---
SB7-01	2.5 - 3.0	400.0 J	760.0 U	10000.0 U	---	760.0 U	---	---	37.0	---
SB7-02	8.0 - 8.5	24000.0 U	24000.0 U	24000.0 U	24000.0 U	24000.0 U	24000.0 U	---	1600.0 U	---
SB7-03	9.5 - 11.0	---	---	10000.0 U	---	21000.0 U	---	---	670.0 J	21000.0 U
SB7-04	11.0 - 12.5	---	---	10000.0 U	---	21000.0 U	---	---	480.0 J	21000.0 U
SB7-06	20.0 - 21.5	---	---	10000.0 U	---	380.0 U	---	---	23.0 U	380.0 U
SB7-11	45.0 - 46.5	---	---	10000.0 U	---	350.0 U	---	---	15.0 U	100.0 J
SB8-04	6.5 - 8.0	---	---	10000.0 U	---	22000.0 U	---	---	2200.0	---
SB8-08	20.0 - 21.5	---	---	10000.0 U	---	140.0 J	---	---	26.0 U	---
SB8-09	21.5 - 23.0	---	---	10000.0 U	---	340.0 U	---	---	5.0 U	---
SB8-12	35.0 - 36.5	---	---	10000.0 U	---	670.0 U J	---	---	26.0 U	---
SB9-01	2.0 - 3.5	---	---	10000.0 U	---	22000.0 U	---	---	460.0 J	---
SB9-04	8.5 - 10.0	---	---	10000.0 U	---	22000.0 U	---	---	690.0 U	---
SB9-08	25.0 - 26.5	---	---	10000.0 U	---	330.0 U	---	---	25.0 U	---
SB11-03	5.0 - 6.5	---	---	10000.0 U	---	170.0 J	---	---	5.0 U	---
SB11-07	10.0 - 11.5	---	---	10000.0 U	---	340.0 U	---	---	5.0 U	---
SB12-02	3.5 - 5.0	---	---	10000.0 U	---	370.0 U	---	---	6.0 U	---
SB12-06	15.0 - 16.5	---	---	10000.0 U	---	340.0 U	---	---	5.0 U	---
SB13-02	12.0 - 13.5	---	---	10000.0 U	---	24000.0 U	---	---	750.0 U	---
SB13-07	30.0 - 31.5	---	---	10000.0 U	---	330.0 U	---	---	5.0 U	---
SB14-01	17.0 - 18.5	---	---	10000.0 U	---	180.0 J	---	---	5.0 U	---
SBB1-01	5.0 - 6.5	---	---	10000.0 U	---	390.0 U	---	---	10.0 U	---

Table C-11
(Continued)

Location	Depth	Fluoranthene	Pyrene	Benzo(a) Anthracene	Chrysene	Bis(2-Ethyl-hexyl) Phthalate	Benzo(k) Fluoranthane	Benzo(a) Pyrene	Chloro-benzene	Dibenzo-furan
SBB1-03	15.0 - 16.5	---	---	10000.0 U	---	400.0 U	---	---	10.0 U	---
SBB1-06	30.0 - 31.5	---	---	10000.0 U	---	360.0 U	---	---	10.0 U	---
SBB2-01(D2)	5.0 - 6.5	---	---	10000.0 U	---	360.0 U	---	---	10.0 U	---
SBB2-01(D2)	5.0 - 6.5	---	---	10000.0 U	---	370.0 U	---	---	10.0 U	---
SBB2-03	15.0 - 16.5	---	---	10000.0 U	---	420.0 U	---	---	10.0 U	---
SBB2-07	35.0 - 36.5	---	---	10000.0 U	---	360.0 U	---	---	10.0 U	---
SBB3-02	10.0 - 11.5	---	---	10000.0 U	---	350.0 U	---	---	10.0 U	---
SBB3-04	20.0 - 21.5	---	---	10000.0 U	---	86.0 J	---	---	10.0 U	---
SBB3-07	35.0 - 36.5	---	---	10000.0 U	---	370.0 U	---	---	10.0 U	---
SBP1-02	1.5 - 3.0	25000.0 U	25000.0 U	25000.0 U	25000.0 U	25000.0 U	25000.0 U	---	83.0	---
SBP1-05	10.0 - 11.5	870.0 U J	510.0 J	10000.0 U	---	870.0 U	---	---	31.0 U	---
SBP1-08	25.0 - 26.5	350.0 U	350.0 U	10000.0 U	---	350.0 U	---	---	26.0 U	---
SBP2-02	3.0 - 4.5	380.0 U	380.0 U	10000.0 U	---	380.0 U	---	---	13.0 U	---
SBP2-06	15.0 - 16.5	390.0 U	390.0 U	10000.0 U	---	390.0 U	---	---	19.0 U	---
SBP2-06 DL	15.0 - 16.5	1500.0 U	1500.0 U	10000.0 U	---	1500.0 U	---	---	10.0 U	---
SBP2-09	30.0 - 31.5	360.0 U	360.0 U	10000.0 U	---	360.0 U	---	---	8.0 U	---
SBP3-02	12.5 - 14.0	---	---	10000.0 U	---	---	---	---	10.0 U	---
SBP3-02 RE	12.5 - 14.0	---	---	10000.0 U	---	---	---	---	10.0 U	---
SBP3-03	17.5 - 19.0	---	---	10000.0 U	---	---	---	---	10.0 U	---
SBP3-06(D5)	32.5 - 34.0	---	---	10000.0 U	---	---	---	---	10.0 U	---
SBP3-06(D5)	32.5 - 34.0	---	---	10000.0 U	---	---	---	---	10.0 U	---
SBP4-04	13.5 - 14.5	---	---	10000.0 U	---	---	---	---	10.0 U	---
SBP4-06(D6)	21.5 - 23.0	---	---	10000.0 U	---	---	---	---	10.0 U	---
SBP4-08	36.5 - 38.0	---	---	10000.0 U	---	---	---	---	10.0 U	---
SBP6-02	3.5 - 5.0	---	---	10000.0 U	---	22000.0 U	---	---	21.0 J	---
SBP6-06	15.0 - 16.5	---	---	10000.0 U	---	350.0 U	---	---	26.0 U	---
SBP6-11	40.0 - 41.5	---	---	10000.0 U	---	330.0 U	---	---	5.0 U	---
ABP1-01	2.0 - 2.5	760.0 U	760.0 U	10000.0 U	760.0 U	300.0 J	---	---	6.0 U	---
ABP2-01	1.5 - 2.5	370.0 U	370.0 U	10000.0 U	370.0 U	370.0 U	---	---	6.0 U	---
ABP3-01	4.0 - 5.0	---	---	10000.0 U	---	370.0 U	---	---	13.0 U	370.0 U
ABP4-02	4.0 - 5.0	---	---	10000.0 U	---	250.0 J	---	---	20.0 U	380.0 U
ABP5-02	4.7 - 5.5	360.0 U	360.0 U	10000.0 U	360.0 U	480.0	---	---	25.0 U	---
ABP6-01	2.8 - 3.6	770.0 U	770.0 U	10000.0 U	770.0 U	770.0 U	---	---	14.0 U	---
ABP7-01	2.0 - 2.7	370.0 U	370.0 U	10000.0 U	370.0 U	370.0 U	---	---	5.0 U	---
ABP8-01	4.0 - 4.7	440.0 U	440.0 U	10000.0 U	440.0 U	440.0 U	---	---	7.0 U	---
ABP8-02	8.0 - 8.8	390.0 U	390.0 U	10000.0 U	390.0 U	270.0 J	---	---	6.0 U	---
ABP9-02	4.0 - 4.8	390.0 U	390.0 U	10000.0 U	390.0 U	390.0 U	---	---	6.0 U	---
ABP9-03	7.5 - 8.2	430.0 U	430.0 U	10000.0 U	430.0 U	430.0 U	---	---	6.0 U	---
ABP10-01(D3)	0.8 - 1.4	23000.0 U	5700.0 J	10000.0 U	23000.0 U	23000.0 U	---	---	27.0	---
ABP10-03(D3)	0.8 - 1.4	22000.0 U	22000.0 U	10000.0 U	22000.0 U	12000.0 J	---	---	25.0 U	---
ABP10-05	3.0 - 4.0	21000.0 U	21000.0 U	10000.0 U	21000.0 U	21000.0 U	---	---	1300.0 J	---
ABP11-02	3.0 - 4.0	---	---	10000.0 U	---	600.0	---	---	10.0 U	---
ABP12-01	3.0 - 4.0	---	---	10000.0 U	---	---	---	---	10.0 U	---
ABP12-03	9.5 - 10.5	---	---	10000.0 U	---	---	---	---	10.0 U	---
ABP13-01(D4)	0.8 - 2.0	4600.0 J	3700.0 J	10000.0 U	6400.0 J	9200.0 J	---	---	780.0 U	---
ABP13-02(D4)	2.0 - 2.7	23000.0 U	3500.0 J	10000.0 U	4800.0 J	4700.0 J	---	---	610.0 J	---
ABP13-03	3.0 - 3.5	420.0 J	520.0 J	10000.0 U	720.0 J	760.0 U	---	---	24.0 J	---

RD/R62/012-19

Table C-11
(Continued)

Location	Depth	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	4,4'-DDD	4,4'-DDE	4,4'-DDT	Endosulfan I	Endosulfan II
SB1-01	3.8 - 4.2	---	---	---	---	---	---	---	---	---
SB1-02	4.8 - 6.2	---	---	---	---	---	---	---	---	---
SB1-07	20.0 - 21.5	---	---	---	---	---	---	---	---	---
SB2-01	5.1 - 5.8	---	---	---	---	---	---	---	---	---
SB2-02	5.8 - 7.0	---	---	---	---	---	---	---	---	---
SB2-05	15.0 - 16.5	---	---	---	---	---	---	---	---	---
SB2-08	30.0 - 31.5	---	---	---	---	---	---	---	---	---
SB3-01	2.8 - 3.2	---	---	---	---	---	---	---	---	---
SB3-02	5.8 - 6.2	---	---	---	---	---	---	---	---	---
SB3-05	4.5 - 6.0	---	---	---	---	---	---	---	---	---
SB3-11	25.0 - 26.5	---	---	---	---	---	---	---	---	---
SB4-01	5.0 - 7.5	---	---	---	---	---	---	---	---	---
SB4-02	9.0 - 10.5	---	---	---	---	---	---	---	---	---
SB4-07	25.0 - 26.5	---	---	---	---	---	---	---	---	---
SB5-01(D1)	5.0 - 6.0	---	---	---	---	---	---	---	---	---
SB5-02(D1)	5.0 - 6.0	---	---	---	---	---	---	---	---	---
SB5-03	7.0 - 8.0	---	---	---	---	---	---	---	---	---
SB5-04(D2)	8.5 - 10.0	---	---	170.0 U	170.0 U	---	---	---	---	---
SB5-05(D2)	10.0 - 11.5	---	---	170.0 U	170.0 U	---	---	---	---	---
SB5-12	40.0 - 41.5	---	---	170.0 U	170.0 U	---	---	---	---	---
SB6-01	6.0 - 6.5	---	---	---	---	---	---	---	---	---
SB6-02	8.0 - 9.0	---	---	---	---	---	---	---	---	---
SB6-03	10.0 - 11.5	---	---	340.0 U	340.0 U	---	---	---	---	---
SB6-06	20.0 - 21.5	---	---	170.0 U	170.0 U	---	---	---	---	---
SB7-01	2.5 - 3.0	---	---	---	---	---	---	---	---	---
SB7-02	8.0 - 8.5	---	---	---	---	---	---	---	---	---
SB7-03	9.5 - 11.0	---	86.0 U	---	---	---	---	---	---	---
SB7-04	11.0 - 12.5	---	85.0 U	---	---	---	---	---	---	---
SB7-06	20.0 - 21.5	---	88.0 U	---	---	---	---	---	---	---
SB7-11	45.0 - 46.5	---	81.0 U	---	---	---	---	---	---	---
SB8-04	6.5 - 8.0	---	---	---	---	---	---	---	---	---
SB8-08	20.0 - 21.5	---	---	---	---	---	---	---	---	---
SB8-09	21.5 - 23.0	---	---	---	---	---	---	---	---	---
SB8-12	35.0 - 36.5	---	---	---	---	---	---	---	---	---
SB9-01	2.0 - 3.5	---	---	---	---	---	---	---	---	---
SB9-04	8.5 - 10.0	---	---	---	---	---	---	---	---	---
SB9-08	25.0 - 26.5	---	---	---	---	---	---	---	---	---
SB11-03	5.0 - 6.5	---	---	---	---	---	---	---	---	---
SB11-07	10.0 - 11.5	---	---	---	---	---	---	---	---	---
SB12-02	3.5 - 5.0	---	---	---	---	---	---	---	---	---
SB12-06	15.0 - 16.5	---	---	---	---	---	---	---	---	---
SB13-02	12.0 - 13.5	---	---	---	---	---	---	---	---	---
SB13-07	30.0 - 31.5	---	---	---	---	---	---	---	---	---
SB14-01	17.0 - 18.5	---	---	---	---	---	---	---	---	---
SBB1-01	5.0 - 6.5	---	---	---	---	---	---	---	---	---

Table C-11
(Continued)

Location	Depth	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	4,4'-DDD	4,4'-DDE	4,4'-DDT	Endosulfan I	Endosulfan II
SBB1-03	15.0 - 16.5	---	---	---	---	---	---	---	---	---
SBB1-06	30.0 - 31.5	---	---	---	---	---	---	---	---	---
SBB2-01(D2)	5.0 - 6.5	---	---	---	---	---	---	---	---	---
SBB2-01(D2)	5.0 - 6.5	---	---	---	---	---	---	---	---	---
SBB2-03	15.0 - 16.5	---	---	---	---	---	---	---	---	---
SBB2-07	35.0 - 36.5	---	---	---	---	---	---	---	---	---
SBB3-02	10.0 - 11.5	---	---	---	---	---	---	---	---	---
SBB3-04	20.0 - 21.5	---	---	---	---	---	---	---	---	---
SBB3-07	35.0 - 36.5	---	---	---	---	---	---	---	---	---
SBP1-02	1.5 - 3.0	---	---	---	---	---	---	---	---	---
SBP1-05	10.0 - 11.5	---	---	---	---	---	---	---	---	---
SBP1-08	25.0 - 26.5	---	---	---	---	---	---	---	---	---
SBP2-02	3.0 - 4.5	---	---	---	---	---	---	---	---	---
SBP2-06	15.0 - 16.5	---	---	---	---	---	---	---	---	---
SBP2-06 DL	15.0 - 16.5	---	---	---	---	---	---	---	---	---
SBP2-09	30.0 - 31.5	---	---	---	---	---	---	---	---	---
SBP3-02	12.5 - 14.0	---	---	---	---	---	---	---	---	---
SBP3-02 RE	12.5 - 14.0	---	---	---	---	---	---	---	---	---
SBP3-03	17.5 - 19.0	---	---	---	---	---	---	---	---	---
SBP3-06(D5)	32.5 - 34.0	---	---	---	---	---	---	---	---	---
SBP3-06(D5)	32.5 - 34.0	---	---	---	---	---	---	---	---	---
SBP4-04	13.5 - 14.5	---	---	---	---	---	---	---	---	---
SBP4-06(D6)	21.5 - 23.0	---	---	---	---	---	---	---	---	---
SBP4-08	36.5 - 38.0	---	---	---	---	---	---	---	---	---
SBP6-02	3.5 - 5.0	---	---	---	---	---	---	---	---	---
SBP6-06	15.0 - 16.5	---	---	---	---	---	---	---	---	---
SBP6-11	40.0 - 41.5	---	---	---	---	---	---	---	---	---
ABP1-01	2.0 - 2.5	---	---	350.0 U	1800.0	---	---	---	---	---
ABP2-01	1.5 - 2.5	---	---	180.0 U	180.0 U	---	---	---	---	---
ABP3-01	4.0 - 5.0	---	1200.0	---	---	---	---	---	---	---
ABP4-02	4.0 - 5.0	---	88.0 U	---	---	---	---	---	---	---
ABP5-02	4.7 - 5.5	---	---	170.0 U	170.0 U	---	---	---	---	---
ABP6-01	2.8 - 3.6	---	---	820.0	350.0 U	---	---	---	---	---
ABP7-01	2.0 - 2.7	---	---	170.0 U	170.0 U	---	---	---	---	---
ABP8-01	4.0 - 4.7	---	---	200.0 U	200.0 U	---	---	---	---	---
ABP8-02	8.0 - 8.8	---	---	180.0 U	180.0 U	---	---	---	---	---
ABP9-02	4.0 - 4.8	---	---	170.0 U	170.0 U	---	---	---	---	---
ABP9-03	7.5 - 8.2	---	---	200.0 U	200.0 U	---	---	---	---	---
ABP10-01(D3)	0.8 - 1.4	---	---	2800.0 U	2800.0 U	---	---	---	---	---
ABP10-03(D3)	0.8 - 1.4	---	---	2600.0 U	2600.0 U	---	---	---	---	---
ABP10-05	3.0 - 4.0	---	---	170.0 U	170.0 U	---	---	---	---	---
ABP11-02	3.0 - 4.0	---	---	---	---	---	---	---	---	---
ABP12-01	3.0 - 4.0	---	---	---	---	---	---	---	---	---
ABP12-03	9.5 - 10.5	---	---	---	---	---	---	---	---	---
ABP13-01(D4)	0.8 - 2.0	---	---	3000.0 U	3000.0 U	---	---	---	---	---
ABP13-02(D4)	2.0 - 2.7	---	---	2800.0 U	2800.0 U	---	---	---	---	---
ABP13-03	3.0 - 3.5	---	---	350.0 U	350.0 U	---	---	---	---	---

RD/R62/012-21

Table C-11
(Continued)

Location	Depth	1,1-Dichloro-ethene	trans-1,2-Dichloro-ethene	cis-1,2-Dichloro-ethene	1,2-Dichloro-propane	1,1,2-Tri-chloro-propane	1,2-Dichloro-benzene	Di-n-Octyl phthalate	Beta-BHC	Gamma-BHC (Lindane)
SB1-01	3.8 - 4.2	---	---	---	10.0 U	---	---	10000.0 U	---	---
SB1-02	4.8 - 6.2	---	---	---	10.0 U	---	1900.0 U	10000.0 U	---	---
SB1-07	20.0 - 21.5	---	---	---	10.0 U	---	---	10000.0 U	---	---
SB2-01	5.1 - 5.8	---	---	---	10.0 U	---	---	10000.0 U	---	---
SB2-02	5.8 - 7.0	---	---	---	10.0 U	---	750.0 U	10000.0 U	---	---
SB2-05	15.0 - 16.5	---	---	---	10.0 U	---	---	10000.0 U	---	---
SB2-08	30.0 - 31.5	---	---	---	10.0 U	---	---	10000.0 U	---	---
SB3-01	2.8 - 3.2	---	---	---	10.0 U	---	---	10000.0 U	---	---
SB3-02	5.8 - 6.2	---	---	---	10.0 U	---	300.0 J	10000.0 U	---	---
SB3-05	4.5 - 6.0	---	---	---	10.0 U	---	---	10000.0 U	---	---
SB3-11	25.0 - 26.5	---	---	---	10.0 U	---	---	10000.0 U	---	---
SB4-01	5.0 - 7.5	---	---	---	10.0 U	---	---	10000.0 U	---	---
SB4-02	9.0 - 10.5	---	---	---	10.0 U	---	---	10000.0 U	---	---
SB4-07	25.0 - 26.5	---	---	---	10.0 U	---	---	10000.0 U	---	---
SB5-01 (D1)	5.0 - 6.0	---	---	---	10.0 U	---	---	10000.0 U	---	---
SB5-02 (D1)	5.0 - 6.0	---	---	---	10.0 U	---	---	10000.0 U	---	---
SB5-03	7.0 - 8.0	---	---	---	10.0 U	---	370.0 U	10000.0 U	---	---
SB5-04 (D2)	8.5 - 10.0	---	---	---	10.0 U	---	360.0 U	10000.0 U	---	---
SB5-05 (D2)	10.0 - 11.5	---	---	---	10.0 U	---	370.0 U	10000.0 U	---	---
SB5-12	40.0 - 41.5	---	---	---	10.0 U	---	350.0 U	10000.0 U	---	---
SB6-01	6.0 - 6.5	---	---	---	10.0 U	---	820.0 U	10000.0 U	---	---
SB6-02	8.0 - 9.0	---	---	---	10.0 U	---	---	10000.0 U	---	---
SB6-03	10.0 - 11.5	---	---	---	10.0 U	---	330.0 J	10000.0 U	---	---
SB6-06	20.0 - 21.5	---	---	---	10.0 U	---	370.0 U	10000.0 U	---	---
SB7-01	2.5 - 3.0	---	---	---	10.0 U	---	760.0 U	10000.0 U	---	---
SB7-02	8.0 - 8.5	---	---	---	10.0 U	---	---	10000.0 U	---	---
SB7-03	9.5 - 11.0	---	---	---	10.0 U	---	---	10000.0 U	---	---
SB7-04	11.0 - 12.5	---	---	---	10.0 U	---	---	10000.0 U	---	---
SB7-06	20.0 - 21.5	---	---	---	10.0 U	---	---	10000.0 U	---	---
SB7-11	45.0 - 46.5	---	---	---	10.0 U	---	---	10000.0 U	---	---
SB8-04	6.5 - 8.0	---	---	---	10.0 U	---	---	10000.0 U	---	---
SB8-08	20.0 - 21.5	---	---	---	10.0 U	---	---	10000.0 U	---	---
SB8-09	21.5 - 23.0	---	---	---	10.0 U	---	---	10000.0 U	---	---
SB8-12	35.0 - 36.5	---	---	---	10.0 U	---	---	10000.0 U	---	---
SB9-01	2.0 - 3.5	---	---	---	10.0 U	---	---	10000.0 U	---	---
SB9-04	8.5 - 10.0	---	---	---	10.0 U	---	---	10000.0 U	---	---
SB9-08	25.0 - 26.5	---	---	---	10.0 U	---	---	10000.0 U	---	---
SB11-03	5.0 - 6.5	---	---	---	10.0 U	---	---	10000.0 U	---	---
SB11-07	10.0 - 11.5	---	---	---	10.0 U	---	---	10000.0 U	---	---
SB12-02	3.5 - 5.0	---	---	---	10.0 U	---	---	10000.0 U	---	---
SB12-06	15.0 - 16.5	---	---	---	10.0 U	---	---	10000.0 U	---	---
SB13-02	12.0 - 13.5	---	---	---	10.0 U	---	---	10000.0 U	---	---
SB13-07	30.0 - 31.5	---	---	---	10.0 U	---	---	10000.0 U	---	---
SB14-01	17.0 - 18.5	---	---	---	10.0 U	---	---	10000.0 U	---	---
SBB1-01	5.0 - 6.5	---	---	---	10.0 U	---	---	10000.0 U	---	---

Table C-11
(Continued)

Location	Depth	1,1-Dichloro-ethene	trans-1,2-Dichloro-ethene	cis-1,2-Dichloro-ethene	1,2-Dichloro-propane	1,1,2-Tri-chloro-propane	1,2-Dichloro-benzene	Di-n-Octyl phthalate	Beta-BHC	Gamma-BHC (Lindane)
SBB1-03	15.0 - 16.5	---	---	---	10.0 U	---	---	10000.0 U	---	---
SBB1-06	30.0 - 31.5	---	---	---	10.0 U	---	---	10000.0 U	---	---
SBB2-01(D2)	5.0 - 6.5	---	---	---	10.0 U	---	---	10000.0 U	---	---
SBB2-01(D2)	5.0 - 6.5	---	---	---	10.0 U	---	---	10000.0 U	---	---
SBB2-03	15.0 - 16.5	---	---	---	10.0 U	---	---	10000.0 U	---	---
SBB2-07	35.0 - 36.5	---	---	---	10.0 U	---	---	10000.0 U	---	---
SBB3-02	10.0 - 11.5	---	---	---	10.0 U	---	---	10000.0 U	---	---
SBB3-04	20.0 - 21.5	---	---	---	10.0 U	---	---	10000.0 U	---	---
SBB3-07	35.0 - 36.5	---	---	---	10.0 U	---	---	10000.0 U	---	---
SBP1-02	1.5 - 3.0	---	---	---	10.0 U	---	---	10000.0 U	---	---
SBP1-05	10.0 - 11.5	---	---	---	10.0 U	---	3500.0	10000.0 U	---	---
SBP1-08	25.0 - 26.5	---	---	---	10.0 U	---	350.0 U	10000.0 U	---	---
SBP2-02	3.0 - 4.5	---	---	---	10.0 U	---	380.0 U	10000.0 U	---	---
SBP2-06	15.0 - 16.5	---	---	---	10.0 U	---	390.0 U	10000.0 U	---	---
SBP2-06 DL	15.0 - 16.5	---	---	---	10.0 U	---	1500.0 U	10000.0 U	---	---
SBP2-09	30.0 - 31.5	---	---	---	10.0 U	---	360.0 U	10000.0 U	---	---
SBP3-02	12.5 - 14.0	---	---	---	10.0 U	---	---	10000.0 U	---	---
SBP3-02 RE	12.5 - 14.0	---	---	---	10.0 U	---	---	10000.0 U	---	---
SBP3-03	17.5 - 19.0	---	---	---	10.0 U	---	---	10000.0 U	---	---
SBP3-06(D5)	32.5 - 34.0	---	---	---	10.0 U	---	---	10000.0 U	---	---
SBP3-06(D5)	32.5 - 34.0	---	---	---	10.0 U	---	---	10000.0 U	---	---
SBP4-04	13.5 - 14.5	---	---	---	10.0 U	---	---	10000.0 U	---	---
SBP4-06(D6)	21.5 - 23.0	---	---	---	10.0 U	---	---	10000.0 U	---	---
SBP4-08	36.5 - 38.0	---	---	---	10.0 U	---	---	10000.0 U	---	---
SBP6-02	3.5 - 5.0	---	---	---	10.0 U	---	---	10000.0 U	---	---
SBP6-06	15.0 - 16.5	---	---	---	10.0 U	---	---	10000.0 U	---	---
SBP6-11	40.0 - 41.5	---	---	---	10.0 U	---	---	10000.0 U	---	---
ABP1-01	2.0 - 2.5	---	---	---	10.0 U	---	760.0 U	10000.0 U	---	---
ABP2-01	1.5 - 2.5	---	---	---	10.0 U	---	370.0 U	10000.0 U	---	---
ABP3-01	4.0 - 5.0	---	---	---	10.0 U	---	---	10000.0 U	---	---
ABP4-02	4.0 - 5.0	---	---	---	10.0 U	---	---	10000.0 U	---	---
ABP5-02	4.7 - 5.5	---	---	---	10.0 U	---	360.0 U	10000.0 U	---	---
ABP6-01	2.8 - 3.6	---	---	---	10.0 U	---	770.0 U	10000.0 U	---	---
ABP7-01	2.0 - 2.7	---	---	---	10.0 U	---	370.0 U	10000.0 U	---	---
ABP8-01	4.0 - 4.7	---	---	---	10.0 U	---	440.0 U	10000.0 U	---	---
ABP8-02	8.0 - 8.8	---	---	---	10.0 U	---	390.0 U	10000.0 U	---	---
ABP9-02	4.0 - 4.8	---	---	---	10.0 U	---	390.0 U	10000.0 U	---	---
ABP9-03	7.5 - 8.2	---	---	---	10.0 U	---	430.0 U	10000.0 U	---	---
ABP10-01(D3)	0.8 - 1.4	---	---	---	10.0 U	---	---	10000.0 U	---	---
ABP10-03(D3)	0.8 - 1.4	---	---	---	10.0 U	---	---	10000.0 U	---	---
ABP10-05	3.0 - 4.0	---	---	---	10.0 U	---	---	10000.0 U	---	---
ABP11-02	3.0 - 4.0	---	---	---	10.0 U	---	---	10000.0 U	---	---
ABP12-01	3.0 - 4.0	---	---	---	10.0 U	---	---	10000.0 U	---	---
ABP12-03	9.5 - 10.5	---	---	---	10.0 U	---	---	10000.0 U	---	---
ABP13-01(D4)	0.8 - 2.0	---	---	---	10.0 U	---	---	10000.0 U	---	---
ABP13-02(D4)	2.0 - 2.7	---	---	---	10.0 U	---	---	10000.0 U	---	---
ABP13-03	3.0 - 3.5	---	---	---	10.0 U	---	760.0 U	10000.0 U	---	---

RD/R62/012-23

Table C-11
(Continued)

Location	Depth	Heptachlor	Aldrin	Heptachlor Epoxide	Butylbenzyl phthalate	Diethyl phthalate	Dieldrin	Trichloro-ethylene	1,2-trans-Chloro-ethylene	Tetrachloro-ethylene
SB1-01	3.8 - 4.2	---	---	---	---	---	---	10.0	---	---
SB1-02	4.8 - 6.2	---	---	---	---	---	---	10.0	---	---
SB1-07	20.0 - 21.5	---	---	---	---	---	---	10.0	---	---
SB2-01	5.1 - 5.8	---	---	---	---	---	---	10.0 U	---	---
SB2-02	5.8 - 7.0	---	---	---	---	---	---	10.0 U	---	---
SB2-05	15.0 - 16.5	---	---	---	---	---	---	10.0	---	---
SB2-08	30.0 - 31.5	---	---	---	---	---	---	10.0	---	---
SB3-01	2.8 - 3.2	---	---	---	---	---	---	10.0 U	---	---
SB3-02	5.8 - 6.2	---	---	---	---	---	---	10.0 U	---	---
SB3-05	4.5 - 6.0	---	---	---	---	---	---	10.0 J	---	---
SB3-11	25.0 - 26.5	---	---	---	---	---	---	10.0	---	---
SB4-01	5.0 - 7.5	---	---	---	---	---	---	10.0 J	---	---
SB4-02	9.0 - 10.5	---	---	---	---	---	---	10.0 U	---	---
SB4-07	25.0 - 26.5	---	---	---	---	---	---	10.0	---	---
SB5-01 (D1)	5.0 - 6.0	---	---	---	---	---	---	10.0	---	---
SB5-02 (D1)	5.0 - 6.0	---	---	---	---	---	---	10.0 U	---	---
SB5-03	7.0 - 8.0	---	---	---	---	---	---	10.0 U	---	---
SB5-04 (D2)	8.5 - 10.0	---	---	---	---	---	---	10.0 U	---	---
SB5-05 (D2)	10.0 - 11.5	---	---	---	---	---	---	10.0 U	---	---
SB5-12	40.0 - 41.5	---	---	---	---	---	---	10.0 U	---	---
SB6-01	6.0 - 6.5	---	---	---	---	---	---	10.0 U	---	---
SB6-02	8.0 - 9.0	---	---	---	---	---	---	10.0	---	---
SB6-03	10.0 - 11.5	---	---	---	---	---	---	10.0 U	---	---
SB6-06	20.0 - 21.5	---	---	---	---	---	---	10.0 U	---	---
SB7-01	2.5 - 3.0	---	---	---	---	---	---	10.0	---	---
SB7-02	8.0 - 8.5	---	---	---	---	---	---	10.0 J	---	---
SB7-03	9.5 - 11.0	---	---	---	---	---	---	10.0	---	---
SB7-04	11.0 - 12.5	---	---	---	---	---	---	10.0	---	---
SB7-06	20.0 - 21.5	---	---	---	---	---	---	10.0 U	---	---
SB7-11	45.0 - 46.5	---	---	---	---	---	---	10.0 U	---	---
SB8-04	6.5 - 8.0	---	---	---	---	---	---	10.0	---	---
SB8-08	20.0 - 21.5	---	---	---	---	---	---	10.0 U	---	---
SB8-09	21.5 - 23.0	---	---	---	---	---	---	10.0 U	---	---
SB8-12	35.0 - 36.5	---	---	---	---	---	---	10.0 U	---	---
SB9-01	2.0 - 3.5	---	---	---	---	---	---	10.0 U	---	---
SB9-04	8.5 - 10.0	---	---	---	---	---	---	10.0 U	---	---
SB9-08	25.0 - 26.5	---	---	---	---	---	---	10.0 U	---	---
SB11-03	5.0 - 6.5	---	---	---	---	---	---	10.0 U	---	---
SB11-07	10.0 - 11.5	---	---	---	---	---	---	10.0 U	---	---
SB12-02	3.5 - 5.0	---	---	---	---	---	---	10.0 U	---	---
SB12-06	15.0 - 16.5	---	---	---	---	---	---	10.0 U	---	---
SB13-02	12.0 - 13.5	---	---	---	---	---	---	10.0	---	---
SB13-07	30.0 - 31.5	---	---	---	---	---	---	10.0 U	---	---
SB14-01	17.0 - 18.5	---	---	---	---	---	---	10.0 U	---	---
SBB1-01	5.0 - 6.5	---	---	---	---	---	---	10.0	---	---
SBB1-03	15.0 - 16.5	---	---	---	---	---	---	10.0	---	---

Table C-11
(Continued)

Location	Depth	Heptachlor	Aldrin	Heptachlor Epoxide	Butylbenzyl phthalate	Diethyl phthalate	Dieldrin	Trichloro-ethylene	1,2-trans-Chloro-ethylene	Tetrachloro-ethylene
SBB1-06	30.0 - 31.5	---	---	---	---	---	---	10.0	---	---
SBB2-01(D2)	5.0 - 6.5	---	---	---	---	---	---	10.0	---	---
SBB2-01(D2)	5.0 - 6.5	---	---	---	---	---	---	10.0	---	---
SBB2-03	15.0 - 16.5	---	---	---	---	---	---	10.0	---	---
SBB2-07	35.0 - 36.5	---	---	---	---	---	---	10.0	---	---
SBB3-02	10.0 - 11.5	---	---	---	---	---	---	10.0	---	---
SBB3-04	20.0 - 21.5	---	---	---	---	---	---	10.0	---	---
SBB3-07	35.0 - 36.5	---	---	---	---	---	---	10.0	---	---
SBP1-02	1.5 - 3.0	---	---	---	---	---	---	10.0	---	---
SBP1-05	10.0 - 11.5	---	---	---	---	---	---	10.0	---	---
SBP1-08	25.0 - 26.5	---	---	---	---	---	---	10.0 U	---	---
SBP2-02	3.0 - 4.5	---	---	---	---	---	---	10.0 U	---	---
SBP2-06	15.0 - 16.5	---	---	---	---	---	---	10.0 U	---	---
SBP2-06 DL	15.0 - 16.5	---	---	---	---	---	---	10.0	---	---
SBP2-09	30.0 - 31.5	---	---	---	---	---	---	10.0 U	---	---
SBP3-02	12.5 - 14.0	---	---	---	---	---	---	10.0 U	---	---
SBP3-02 RE	12.5 - 14.0	---	---	---	---	---	---	10.0 U	---	---
SBP3-03	17.5 - 19.0	---	---	---	---	---	---	10.0 U	---	---
SBP3-06(D5)	32.5 - 34.0	---	---	---	---	---	---	10.0	---	---
SBP3-06(D5)	32.5 - 34.0	---	---	---	---	---	---	10.0 J	---	---
SBP4-04	13.5 - 14.5	---	---	---	---	---	---	10.0	---	---
SBP4-06(D6)	21.5 - 23.0	---	---	---	---	---	---	10.0 U	---	---
SBP4-08	36.5 - 38.0	---	---	---	---	---	---	10.0 U	---	---
SBP6-02	3.5 - 5.0	---	---	---	---	---	---	10.0	---	---
SBP6-06	15.0 - 16.5	---	---	---	---	---	---	10.0 U	---	---
SBP6-11	40.0 - 41.5	---	---	---	---	---	---	10.0 U	---	---
ABP1-01	2.0 - 2.5	---	---	---	---	---	---	10.0 U	---	---
ABP2-01	1.5 - 2.5	---	---	---	---	---	---	10.0 U	---	---
ABP3-01	4.0 - 5.0	---	---	---	---	---	---	10.0 U	---	---
ABP4-02	4.0 - 5.0	---	---	---	---	---	---	10.0 U	---	---
ABP5-02	4.7 - 5.5	---	---	---	---	---	---	10.0 U	---	---
ABP6-01	2.8 - 3.6	---	---	---	---	---	---	10.0 U	---	---
ABP7-01	2.0 - 2.7	---	---	---	---	---	---	10.0 U	---	---
ABP8-01	4.0 - 4.7	---	---	---	---	---	---	10.0 U	---	---
ABP8-02	8.0 - 8.8	---	---	---	---	---	---	10.0 U	---	---
ABP9-02	4.0 - 4.8	---	---	---	---	---	---	10.0 U	---	---
ABP9-03	7.5 - 8.2	---	---	---	---	---	---	10.0 U	---	---
ABP10-01(D3)	0.8 - 1.4	---	---	---	---	---	---	10.0	---	---
ABP10-03(D3)	0.8 - 1.4	---	---	---	---	---	---	10.0	---	---
ABP10-05	3.0 - 4.0	---	---	---	---	---	---	10.0	---	---
ABP11-02	3.0 - 4.0	---	---	---	---	---	---	10.0	---	---
ABP12-01	3.0 - 4.0	---	---	---	---	---	---	10.0	---	---
ABP12-03	9.5 - 10.5	---	---	---	---	---	---	10.0	---	---
ABP13-01(D4)	0.8 - 2.0	---	---	---	---	---	---	10.0	---	---
ABP13-02(D4)	2.0 - 2.7	---	---	---	---	---	---	10.0	---	---
ABP13-03	3.0 - 3.5	---	---	---	---	---	---	10.0 U	---	---

KD/R62/012-25

Table C-11
(Continued)

Location	Depth	Tetra-chloro-ethene	Pentachloro-phenol	1,2-Dichloro-ethene	Chrysene	Chloro-methane	1,4-Dichloro-benzene	1,2,4-Trichloro-benzene	Benzo(g,h,i) Perylene	Benzo(b) Fluoranthene
SB1-01	3.8 - 4.2	2800.0	---	10.0 U	---	2600.0 U	---	---	41000.0 U	41000.0 U
SB1-02	4.8 - 6.2	130.0	---	10.0 U	---	---	1900.0 U	1900.0 U	---	---
SB1-07	20.0 - 21.5	10.0 U	---	10.0 U	---	---	---	---	---	---
SB2-01	5.1 - 5.8	32.0 U	---	10.0 U	---	---	---	---	26000.0 U	26000.0 U
SB2-02	5.8 - 7.0	25.0 U	---	10.0 U	---	---	750.0 U	750.0 U	---	---
SB2-05	15.0 - 16.5	10.0 U	---	10.0 U	---	---	---	---	---	---
SB2-08	30.0 - 31.5	10.0 U	---	10.0 U	---	---	---	---	---	---
SB3-01	2.8 - 3.2	840.0	---	10.0 U	---	1400.0 U	---	---	23000.0 U	23000.0 U
SB3-02	5.8 - 6.2	100.0	---	10.0 U	---	---	750.0 U	750.0 U	---	---
SB3-05	4.5 - 6.0	1700.0	---	1500.0 U	---	---	---	---	---	---
SB3-11	25.0 - 26.5	10.0 U	---	10.0 U	---	---	---	---	---	---
SB4-01	5.0 - 7.5	390.0 J	---	10.0 U	---	1500.0 U	---	---	24000.0 U	24000.0 U
SB4-02	9.0 - 10.5	650.0 U	---	650.0 U	---	---	---	---	---	---
SB4-07	25.0 - 26.5	10.0 U	---	10.0 U	---	---	---	---	---	---
SB5-01 (D1)	5.0 - 6.0	1100.0 J	---	10.0 U	---	26000.0	---	---	14000.0 J	27000.0 U
SB5-02 (D1)	5.0 - 6.0	18000.0 U	---	10.0 U	---	28000.0 J	---	---	24000.0 J	17000.0 J
SB5-03	7.0 - 8.0	9.0 U	---	10.0 U	---	---	370.0 U	370.0 U	---	---
SB5-04 (D2)	8.5 - 10.0	6.0 U	280.0 J	10.0 U	---	---	---	---	---	---
SB5-05 (D2)	10.0 - 11.5	27.0 U	1800.0 U	10.0 U	---	---	---	---	---	---
SB5-12	40.0 - 41.5	10.0 U	1700.0 U	10.0 U	---	---	---	---	---	---
SB6-01	6.0 - 6.5	10.0 U	---	10.0 U	---	---	820.0 U	820.0 U	---	---
SB6-02	8.0 - 9.0	1100.0 J	---	10.0 U	---	3500.0 U	---	---	26000.0 U	26000.0 U
SB6-03	10.0 - 11.5	24.0 U	3600.0 U	10.0 U	---	---	---	---	---	---
SB6-06	20.0 - 21.5	6.0 U	1800.0 U	10.0 U	---	---	---	---	---	---
SB7-01	2.5 - 3.0	48.0	---	10.0 U	---	---	760.0 U	760.0 U	---	---
SB7-02	8.0 - 8.5	1600.0 U	---	10.0 U	---	3200.0 U	---	---	24000.0 U	24000.0 U
SB7-03	9.5 - 11.0	10.0 U	---	10.0 U	---	---	---	---	---	---
SB7-04	11.0 - 12.5	10.0 U	---	10.0 U	---	---	---	---	---	---
SB7-06	20.0 - 21.5	10.0 U	---	10.0 U	---	---	---	---	---	---
SB7-11	45.0 - 46.5	10.0 U	---	10.0 U	---	---	---	---	---	---
SB8-04	6.5 - 8.0	10.0 U	---	10.0 U	---	---	---	---	---	---
SB8-08	20.0 - 21.5	10.0 U	---	10.0 U	---	---	---	---	---	---
SB8-09	21.5 - 23.0	10.0 U	---	10.0 U	---	---	---	---	---	---
SB8-12	35.0 - 36.5	10.0 U	---	10.0 U	---	---	---	---	---	---
SB9-01	2.0 - 3.5	10.0 U	---	10.0 U	---	---	---	---	---	---
SB9-04	8.5 - 10.0	10.0 U	---	10.0 U	---	---	---	---	---	---
SB9-08	25.0 - 26.5	10.0 U	---	10.0 U	---	---	---	---	---	---
SB11-03	5.0 - 6.5	10.0 U	---	10.0 U	---	---	---	---	---	---
SB11-07	10.0 - 11.5	10.0 U	---	10.0 U	---	---	---	---	---	---
SB12-02	3.5 - 5.0	10.0 U	---	10.0 U	---	---	---	---	---	---
SB12-06	15.0 - 16.5	10.0 U	---	10.0 U	---	---	---	---	---	---
SB13-02	12.0 - 13.5	10.0 U	---	10.0 U	---	---	---	---	---	---
SB13-07	30.0 - 31.5	10.0 U	---	10.0 U	---	---	---	---	---	---
SB14-01	17.0 - 18.5	10.0 U	---	10.0 U	---	---	---	---	---	---
SBB1-01	5.0 - 6.5	10.0 U	---	10.0 U	---	---	---	---	---	---
SBB1-03	15.0 - 16.5	10.0 U	---	10.0 U	---	---	---	---	---	---

Table C-11
(Continued)

Location	Depth	Tetra-chloro-ethene	Pentachloro-phenol	1,2-Dichloro-ethene	Chrysene	Chloro-methane	1,4-Dichloro-benzene	1,2,4-Trichloro-benzene	Benzo(g,h,i) Perylene	Benzo(b) Fluoranthene
SBB1-06	30.0 - 31.5	10.0 U	---	10.0 U	---	---	---	---	---	---
SBB2-01(D2)	5.0 - 6.5	10.0 U	---	10.0 U	---	---	---	---	---	---
SBB2-01(D2)	5.0 - 6.5	10.0 U	---	10.0 U	---	---	---	---	---	---
SBB2-03	15.0 - 16.5	10.0 U	---	10.0 U	---	---	---	---	---	---
SBB2-07	35.0 - 36.5	10.0 U	---	10.0 U	---	---	---	---	---	---
SBB3-02	10.0 - 11.5	10.0 U	---	10.0 U	---	---	---	---	---	---
SBB3-04	20.0 - 21.5	10.0 U	---	10.0 U	---	---	---	---	---	---
SBB3-07	35.0 - 36.5	10.0 U	---	10.0 U	---	---	---	---	---	---
SBP1-02	1.5 - 3.0	220.0	---	10.0 U	---	---	---	---	25000.0 U	25000.0 U
SBP1-05	10.0 - 11.5	65.0	---	10.0 U	---	---	620.0 J	1000.0	---	---
SBP1-08	25.0 - 26.5	26.0 U	---	10.0 U	---	---	350.0 U	350.0 U	---	---
SBP2-02	3.0 - 4.5	13.0 U	---	10.0 U	---	---	380.0 U	380.0 U	---	---
SBP2-06	15.0 - 16.5	19.0 U	---	10.0 U	---	---	390.0 U	390.0 U	---	---
SBP2-06 DL	15.0 - 16.5	10.0 U	---	10.0 U	---	---	1500.0 U	1500.0 U	---	---
SBP2-09	30.0 - 31.5	8.0 U	---	10.0 U	---	---	360.0 U	360.0 U	---	---
SBP3-02	12.5 - 14.0	10.0 U	---	10.0 U	---	---	---	---	---	---
SBP3-02 RE	12.5 - 14.0	10.0 U	---	10.0 U	---	---	---	---	---	---
SBP3-03	17.5 - 19.0	10.0 U	---	10.0 U	---	---	---	---	---	---
SBP3-06(D5)	32.5 - 34.0	10.0 U	---	10.0 U	---	---	---	---	---	---
SBP3-06(D5)	32.5 - 34.0	10.0 U	---	10.0 U	---	---	---	---	---	---
SBP4-04	13.5 - 14.5	10.0 U	---	10.0 U	---	---	---	---	---	---
SBP4-06(D6)	21.5 - 23.0	10.0 U	---	10.0 U	---	---	---	---	---	---
SBP4-08	36.5 - 38.0	10.0 U	---	10.0 U	---	---	---	---	---	---
SBP6-02	3.5 - 5.0	10.0 U	---	10.0 U	---	---	---	---	---	---
SBP6-06	15.0 - 16.5	10.0 U	---	10.0 U	---	---	---	---	---	---
SBP6-11	40.0 - 41.5	10.0 U	---	10.0 U	---	---	---	---	---	---
ABP1-01	2.0 - 2.5	6.0	3700.0 U	10.0 U	---	---	---	---	---	---
ABP2-01	1.5 - 2.5	6.0 U	1800.0 U	10.0 U	---	---	---	---	---	---
ABP3-01	4.0 - 5.0	10.0 U	---	10.0 U	---	---	---	---	---	---
ABP4-02	4.0 - 5.0	10.0 U	---	10.0 U	---	---	---	---	---	---
ABP5-02	4.7 - 5.5	25.0 U	1800.0 U	10.0 U	---	---	---	---	---	---
ABP6-01	2.8 - 3.6	15.0	3700.0 U	10.0 U	---	---	---	---	---	---
ABP7-01	2.0 - 2.7	5.0 U	1800.0 U	10.0 U	---	---	---	---	---	---
ABP8-01	4.0 - 4.7	7.0 U	2100.0 U	10.0 U	---	---	---	---	---	---
ABP8-02	8.0 - 8.8	6.0 U	1900.0 U	10.0 U	---	---	---	---	---	---
ABP9-02	4.0 - 4.8	6.0 U	1900.0 U	10.0 U	---	---	---	---	---	---
ABP9-03	7.5 - 8.2	6.0 U	2100.0 U	10.0 U	---	---	---	---	---	---
ABP10-01(D3)	0.8 - 1.4	37.0	---	10.0 U	---	---	---	---	---	---
ABP10-03(D3)	0.8 - 1.4	45.0	---	10.0 U	---	---	---	---	---	---
ABP10-05	3.0 - 4.0	10.0 U	---	10.0 U	---	---	---	---	---	---
ABP11-02	3.0 - 4.0	10.0 U	---	10.0 U	---	---	---	---	---	---
ABP12-01	3.0 - 4.0	820.0 J	---	960.0 J	---	---	---	---	---	---
ABP12-03	9.5 - 10.5	750.0	---	420.0 J	---	---	---	---	---	---
ABP13-01(D4)	0.8 - 2.0	10.0 U	---	10.0 U	---	---	---	---	---	---
ABP13-02(D4)	2.0 - 2.7	10.0 U	---	10.0 U	---	---	---	---	---	---
ABP13-03	3.0 - 3.5	31.0	3700.0 U	10.0 U	---	---	---	---	---	---

RD/R62/012-27

Table C-11
(Continued)

Location	Bromoethane	Chlorethane	Methylene Chloride	Acetone	Carbon Disulfide	1,1-Dichloro-ethane	1,2-Dichloro-ethane
CRQL-01	---	---	5.0	10.0	---	---	10.0 U
CRQL-02	---	---	630.0	1300.0	---	---	10.0 U
CRQL-03	---	---	5.0	10.0	---	---	10.0 U
CRQL-04	---	---	630.0	1300.0	---	---	10.0 U
CRQL-05	---	---	5.0	10.0	---	---	5.0
CRQL-06	1300.0	1300.0	630.0	1300.0	630.0	---	10.0 U
CRQL-07	---	---	10.0 U	---	---	---	10.0 U
CRQL-08	---	---	10.0 U	---	---	---	10.0 U
CRQL-09	---	---	5.0	10.0	---	---	10.0 U
BLANK-11	1300.0 U	1300.0 U	600.0 J	2400.0	630.0 U	630.0 U	630.0 U
BLANK-12	10.0 U	10.0 U	5.0	16.0	5.0 U	5.0 U	5.0 U
BLANK-13	10.0 U	10.0 U	23.0	41.0	5.0 U	5.0 U	5.0 U
BLANK-14	10.0 U	10.0 U	16.0	17.0	5.0 U	5.0 U	5.0 U
BLANK-15	10.0 U	10.0 U	27.0	45.0	5.0 U	5.0 U	5.0 U
BLANK-16	10.0 U	10.0 U	46.0	24.0	5.0 U	5.0 U	5.0 U
BLANK-17	---	---	10.0 U	---	---	---	10.0 U
BLANK-18	---	---	10.0 U	---	---	---	10.0 U
BLANK-19	---	---	10.0 U	---	---	---	10.0 U
BLANK-20	---	---	480.0 J	480.0 J	---	---	10.0 U
BLANK-21	---	---	4.0 J	9.0 J	---	---	10.0 U
BLANK-22	---	---	4.0 J	8.0 J	---	---	10.0 U
BLANK-23	---	---	10.0 U	---	---	---	10.0 U
BLANK-24	---	---	10.0 U	---	---	---	10.0 U
BLANK-25	---	---	10.0 U	---	---	---	10.0 U
BLANK-26	---	---	10.0 U	---	---	---	10.0 U
BLANK-36	---	---	25.0	13.0	---	---	10.0 U
BLANK-37	---	---	5.0	9.0	---	---	10.0 U
BLANK-38	---	---	8.0	12.0	---	---	10.0 U
BLANK-39	---	---	840.0	570.0 J	---	---	10.0 U
BLANK-40	---	---	2300.0	2200.0	---	---	10.0 U
BLANK-41	---	---	4500.0	3600.0	---	---	10.0 U
BLANK-42	---	---	3.0 J	15.0	---	---	10.0 U
BLANK-43	---	---	14.0	15.0	---	---	10.0 U
BLANK-44	---	---	4.0 J	10.0	---	---	10.0 U
BLANK-45	---	---	3.0 J	8.0 J	---	---	10.0 U
BLANK-46	---	---	840.0	730.0 J	---	---	10.0 U
BLANK-47	---	---	400.0 J	290.0 J	---	---	10.0 U
BLANK-48	---	---	10.0 U	---	---	---	10.0 U
BLANK-49	---	---	10.0 U	---	---	---	10.0 U
BLANK-50	---	---	10.0 U	---	---	---	10.0 U
BLANK-51	---	---	10.0 U	---	---	---	10.0 U
BLANK-52	---	---	10.0 U	---	---	---	10.0 U
BLANK-53	---	---	10.0 U	---	---	---	10.0 U
BLANK-54	---	---	10.0 U	---	---	---	10.0 U
BLANK-55	---	---	12.0	16.0	---	---	5.0 U
BLANK-56	---	---	15.0	11.0	---	---	5.0 U
BLANK-57	---	---	11.0	9.0 J	---	---	5.0 U

Table C-11
(Continued)

Location	Bromoethane	Chlorethane	Methylene Chloride	Acetone	Carbon Disulfide	1,1-Dichloro-ethane	1,2-Dichloro-ethane
BLANK-58	---	---	14.0	18.0	---	---	5.0 U
BLANK-59	1300.0 U	1300.0 U	1800.0	1100.0 J	630.0 U	---	10.0 U
BLANK-60	1300.0 U	1300.0 U	3000.0	1200.0 J	630.0 U	---	10.0 U
BLANK-61	1300.0 U	1300.0 U	1300.0	1600.0	630.0 U	---	10.0 U
BLANK-62	---	---	10.0 U	---	---	---	10.0 U
BLANK-63	---	---	10.0 U	---	---	---	10.0 U
BLANK-64	---	---	10.0 U	---	---	---	10.0 U
BLANK-65	---	---	17.0	8.0 J	---	---	10.0 U
BLANK-66	---	---	11.0	19.0	---	---	10.0 U

Location	Chloroform	2-Butanone	1,1,1-Tri-chloroethane	Trichloro-ethane	Benzene	4-Methyl-2-Pentanone	2-Hexanone	Tetrachlo-roethylene	1,1,2,2-Tetrachloro-ethane
CRQL-01	5.0	10.0	10.0 U	---	---	---	---	---	---
CRQL-02	10.0 U	1300.0	10.0 U	630.0	630.0	1300.0	1300.0	---	---
CRQL-03	5.0	10.0	10.0 U	5.0	5.0	10.0	---	---	---
CRQL-04	10.0 U	---	10.0 U	---	---	---	---	---	---
CRQL-05	5.0	10.0	5.0	5.0	5.0	10.0	10.0	---	---
CRQL-06	630.0	1300.0	630.0	630.0	630.0	1300.0	---	---	---
CRQL-07	10.0 U	---	10.0 U	---	---	---	---	---	---
CRQL-08	10.0 U	---	10.0 U	---	---	---	---	---	---
CRQL-09	5.0	10.0	10.0 U	5.0	---	---	---	---	---
BLANK-11	630.0 U	1300.0 U	630.0 U	630.0 U	630.0 U	1300.0 U	1300.0 U	630.0 U	1300.0 U
BLANK-12	5.0 U	10.0 U	5.0 U	5.0 U	5.0 U	10.0 U	10.0 U	10.0 U	10.0 U
BLANK-13	5.0 U	10.0 U	5.0 U	5.0 U	5.0 U	10.0 U	10.0 U	10.0 U	10.0 U
BLANK-14	5.0 U	10.0 U	5.0 U	5.0 U	5.0 U	10.0 U	10.0 U	10.0 U	10.0 U
BLANK-15	5.0 U	10.0 U	5.0 U	5.0 U	5.0 U	10.0 U	10.0 U	10.0 U	10.0 U
BLANK-16	5.0 U	10.0 U	5.0 U	5.0 U	5.0 U	10.0 U	10.0 U	10.0 U	10.0 U
BLANK-17	10.0 U	---	10.0 U	---	---	---	---	---	---
BLANK-18	10.0 U	---	10.0 U	---	---	---	---	---	---
BLANK-19	10.0 U	---	10.0 U	---	---	---	---	---	---
BLANK-20	630.0 U	1300.0 U	10.0 U	630.0 U	---	1300.0 U	---	630.0 U	---
BLANK-21	5.0 U	10.0 U	10.0 U	5.0 U	---	10.0 U	---	5.0 U	---
BLANK-22	5.0 U	10.0 U	10.0 U	5.0 U	---	10.0 U	---	5.0 U	---
BLANK-23	10.0 U	---	10.0 U	---	---	---	---	---	---
BLANK-24	10.0 U	---	10.0 U	---	---	---	---	---	---
BLANK-25	10.0 U	---	10.0 U	---	---	---	---	---	---
BLANK-26	10.0 U	---	10.0 U	---	---	---	---	---	---
BLANK-36	5.0 U	10.0	10.0 U	---	---	---	---	---	---
BLANK-37	5.0 U	5.0 J	10.0 U	---	---	---	---	---	---
BLANK-38	5.0 U	10.0 U	10.0 U	---	---	---	---	---	---
BLANK-39	10.0 U	1300.0 U	10.0 U	630.0 U	630.0 U	1300.0 U	1300.0 U	---	---
BLANK-40	10.0 U	520.0 J	10.0 U	630.0 U	630.0 U	1300.0 U	1300.0 U	---	---
BLANK-41	10.0 U	390.0 J	10.0 U	630.0 U	630.0 U	1300.0 U	1300.0 U	---	---

Table C-11
(Continued)

Location	Chloroform	2-Butanone	1,1,1-Tri-chloroethane	Trichloro-ethane	Benzene	4-Methyl-2-Pentanone	2-Hexanone	Tetrachlo-roethylene	1,1,2,2-Tetrachloro-ethane
BLANK-42	5.0 U	10.0 U	10.0 U	5.0 U	5.0 U	10.0 U	---	---	---
BLANK-43	5.0 U	10.0 U	10.0 U	5.0 U	5.0 U	10.0 U	---	---	---
BLANK-44	5.0 U	10.0 U	10.0 U	5.0 U	5.0 U	10.0 U	---	---	---
BLANK-45	5.0 U	10.0 U	10.0 U	5.0 U	5.0 U	10.0 U	---	---	---
BLANK-46	10.0 U	---	10.0 U	---	---	---	---	---	---
BLANK-47	10.0 U	---	10.0 U	---	---	---	---	---	---
BLANK-48	10.0 U	---	10.0 U	---	---	---	---	---	---
BLANK-49	10.0 U	---	10.0 U	---	---	---	---	---	---
BLANK-50	10.0 U	---	10.0 U	---	---	---	---	---	---
BLANK-51	10.0 U	---	10.0 U	---	---	---	---	---	---
BLANK-52	10.0 U	---	10.0 U	---	---	---	---	---	---
BLANK-53	10.0 U	---	10.0 U	---	---	---	---	---	---
BLANK-54	10.0 U	---	10.0 U	---	---	---	---	---	---
BLANK-55	5.0 U	12.0	5.0 U	5.0 U	5.0 U	10.0 U	10.0 U	---	---
BLANK-56	5.0 U	3.0 J	5.0 U	5.0 U	5.0 U	10.0 U	4.0 J	---	---
BLANK-57	5.0 U	10.0 U	5.0 U	5.0 U	5.0 U	10.0 U	10.0 U	---	---
BLANK-58	5.0 U	10.0 U	5.0 U	5.0 U	5.0 U	10.0 U	10.0 U	---	---
BLANK-59	630.0 U	1300.0 U	630.0 U	630.0 U	630.0 U	1300.0 U	---	---	---
BLANK-60	630.0 U	1300.0 U	630.0 U	630.0 U	630.0 U	1300.0 U	---	---	---
BLANK-61	630.0 U	370.0 J	630.0 U	630.0 U	630.0 U	1300.0 U	---	---	---
BLANK-62	10.0 U	---	10.0 U	---	---	---	---	---	---
BLANK-63	10.0 U	---	10.0 U	---	---	---	---	---	---
BLANK-64	10.0 U	---	10.0 U	---	---	---	---	---	---
BLANK-65	5.0 U	10.0 U	10.0 U	5.0 U	---	---	---	---	---
BLANK-66	5.0 U	10.0 U	10.0 U	5.0 U	---	---	---	---	---

Location	Toluene	Ethylbenzene	Total Xylenes	Phenol	2-Methyl-phenol	4-Methyl-phenol	Isophorone	2,4-Dimethyl-phenol	Benzoic Acid
CRQL-01	5.0	10.0 U	---	330.0	---	330.0	---	---	---
CRQL-02	630.0	630.0	630.0	---	---	---	---	---	---
CRQL-03	5.0	5.0	5.0	330.0	330.0	330.0	---	330.0	1600.0
CRQL-04	630.0	630.0	630.0	---	---	---	---	---	---
CRQL-05	5.0	5.0	5.0	---	---	---	---	---	---
CRQL-06	630.0	630.0	630.0	---	---	---	---	---	---
CRQL-07	10.0 U	10.0 U	---	330.0	---	---	---	---	---
CRQL-08	10.0 U	10.0 U	---	20000.0	---	20000.0	---	20000.0	---
CRQL-09	5.0	10.0 U	---	---	---	---	---	---	---
BLANK-11	630.0 U	630.0 U	630.0 U	---	---	---	---	---	---
BLANK-12	5.0 U	5.0 U	5.0 U	---	---	---	---	---	---
BLANK-13	5.0 U	5.0 U	5.0 U	---	---	---	---	---	---
BLANK-14	5.0 U	5.0 U	5.0 U	---	---	---	---	---	---
BLANK-15	5.0 U	5.0 U	5.0 U	---	---	---	---	---	---
BLANK-16	5.0 U	5.0 U	5.0 U	---	---	---	---	---	---

Table C-11
(Continued)

Location	Toluene	Ethylbenzene	Total Xylenes	Phenol	2-Methyl-phenol	4-Methyl-phenol	Isophorone	2,4-Dimethyl-phenol	Benzoic Acid
BLANK-17	10.0 U	10.0 U	---	330.0 U	330.0 U	330.0 U	---	330.0 U	330.0 U
BLANK-18	10.0 U	10.0 U	---	330.0 U	330.0 U	330.0 U	---	330.0 U	330.0 U
BLANK-19	10.0 U	10.0 U	---	22000.0 U	22000.0 U	22000.0 U	---	22000.0 U	22000.0 U
BLANK-20	630.0 U	630.0 U	630.0 U	---	---	---	---	---	---
BLANK-21	5.0 U	5.0 U	5.0 U	---	---	---	---	---	---
BLANK-22	5.0 U	5.0 U	5.0 U	---	---	---	---	---	---
BLANK-23	10.0 U	10.0 U	---	---	---	350.0 U	---	---	---
BLANK-24	10.0 U	10.0 U	---	---	---	350.0 U	---	---	---
BLANK-25	10.0 U	10.0 U	---	---	---	20000.0 U	---	---	---
BLANK-26	10.0 U	10.0 U	---	---	---	---	---	---	---
BLANK-36	5.0 U	10.0 U	---	350.0 U	---	350.0 U	---	---	---
BLANK-37	5.0 U	10.0 U	---	700.0 U	---	700.0 U	---	---	---
BLANK-38	5.0 U	10.0 U	---	330.0 U	---	330.0 U	---	---	---
BLANK-39	630.0 U	630.0 U	630.0 U	---	---	---	---	---	---
BLANK-40	630.0 U	630.0 U	630.0 U	---	---	---	---	---	---
BLANK-41	630.0 U	630.0 U	630.0 U	---	---	---	---	---	---
BLANK-42	5.0 U	5.0 U	5.0 U	---	---	---	---	---	---
BLANK-43	5.0 U	5.0 U	5.0 U	---	---	---	---	---	---
BLANK-44	5.0 U	5.0 U	5.0 U	---	---	---	---	---	---
BLANK-45	5.0 U	5.0 U	5.0 U	---	---	---	---	---	---
BLANK-46	630.0 U	630.0 U	630.0 U	---	---	---	---	---	---
BLANK-47	630.0 U	630.0 U	630.0 U	---	---	---	---	---	---
BLANK-48	10.0 U	10.0 U	---	700.0 U	700.0 U	700.0 U	---	700.0 U	3400.0 U
BLANK-49	10.0 U	10.0 U	---	370.0 U	370.0 U	370.0 U	---	370.0 U	1800.0 U
BLANK-50	10.0 U	10.0 U	---	330.0 U	330.0 U	330.0 U	---	330.0 U	1600.0 U
BLANK-51	10.0 U	10.0 U	---	---	---	---	---	---	---
BLANK-52	10.0 U	10.0 U	---	---	---	---	---	---	---
BLANK-53	10.0 U	10.0 U	---	---	---	---	---	---	---
BLANK-54	10.0 U	10.0 U	---	---	---	---	---	---	---
BLANK-55	5.0 U	5.0 U	5.0 U	---	---	---	---	---	---
BLANK-56	5.0 U	5.0 U	5.0 U	---	---	---	---	---	---
BLANK-57	5.0 U	5.0 U	5.0 U	---	---	---	---	---	---
BLANK-58	5.0 U	5.0 U	5.0 U	---	---	---	---	---	---
BLANK-59	630.0 U	630.0 U	630.0 U	---	---	---	---	---	---
BLANK-60	630.0 U	630.0 U	630.0 U	---	---	---	---	---	---
BLANK-61	630.0 U	630.0 U	630.0 U	---	---	---	---	---	---
BLANK-62	10.0 U	10.0 U	---	350.0 U	---	---	---	---	---
BLANK-63	10.0 U	10.0 U	---	700.0 U	---	---	---	---	---
BLANK-64	10.0 U	10.0 U	---	20000.0 U	---	20000.0 U	---	20000.0 U	---
BLANK-65	5.0 U	10.0 U	---	---	---	---	---	---	---
BLANK-66	5.0 U	10.0 U	---	---	---	---	---	---	---

Table C-11
(Continued)

Location	Naphthalene	2-Methyl-naphthalene	Acenaphthene	Fluorene	N-Nitrosodi-phenylamine	Phenanthrene	Anthracene	Di-N-Butyl phthalate
CRQL-01	330.0	330.0	---	330.0	---	330.0	10000.0 U	---
CRQL-02	10000.0 U	---	---	---	---	10000.0 U	10000.0 U	---
CRQL-03	330.0	330.0	---	330.0	---	330.0	10000.0 U	330.0
CRQL-04	20000.0	20000.0	---	---	---	20000.0	10000.0 U	---
CRQL-05	10000.0 U	---	---	---	---	10000.0 U	10000.0 U	---
CRQL-06	10000.0 U	---	---	---	---	10000.0 U	10000.0 U	---
CRQL-07	330.0	330.0	---	330.0	---	330.0	10000.0 U	330.0
CRQL-08	20000.0	20000.0	---	---	---	20000.0	10000.0 U	---
CRQL-09	10000.0 U	---	---	---	---	10000.0 U	10000.0 U	---
BLANK-11	10000.0 U	---	---	---	---	10000.0 U	10000.0 U	---
BLANK-12	10000.0 U	---	---	---	---	10000.0 U	10000.0 U	---
BLANK-13	10000.0 U	---	---	---	---	10000.0 U	10000.0 U	---
BLANK-14	10000.0 U	---	---	---	---	10000.0 U	10000.0 U	---
BLANK-15	10000.0 U	---	---	---	---	10000.0 U	10000.0 U	---
BLANK-16	10000.0 U	---	---	---	---	10000.0 U	10000.0 U	---
BLANK-17	330.0 U	330.0 U	---	---	330.0 U	330.0 U	10000.0 U	---
BLANK-18	330.0 U	330.0 U	---	---	330.0 U	330.0 U	10000.0 U	---
BLANK-19	22000.0 U	22000.0 U	---	---	22000.0 U	22000.0 U	10000.0 U	---
BLANK-20	10000.0 U	---	---	---	---	10000.0 U	10000.0 U	---
BLANK-21	10000.0 U	---	---	---	---	10000.0 U	10000.0 U	---
BLANK-22	10000.0 U	---	---	---	---	10000.0 U	10000.0 U	---
BLANK-23	350.0 U	350.0 U	350.0 U	350.0 U	350.0 U	350.0 U	10000.0 U	---
BLANK-24	350.0 U	350.0 U	350.0 U	350.0 U	200.0 J	350.0 U	10000.0 U	---
BLANK-25	20000.0 U	20000.0 U	20000.0 U	20000.0 U	20000.0 U	20000.0 U	10000.0 U	---
BLANK-26	10000.0 U	---	---	---	---	10000.0 U	10000.0 U	---
BLANK-36	350.0 U	350.0 U	---	350.0 U	---	350.0 U	10000.0 U	---
BLANK-37	700.0 U	700.0 U	---	700.0 U	---	700.0 U	10000.0 U	---
BLANK-38	330.0 U	330.0 U	---	330.0 U	---	330.0 U	10000.0 U	---
BLANK-39	10000.0 U	---	---	---	---	10000.0 U	10000.0 U	---
BLANK-40	10000.0 U	---	---	---	---	10000.0 U	10000.0 U	---
BLANK-41	10000.0 U	---	---	---	---	10000.0 U	10000.0 U	---
BLANK-42	10000.0 U	---	---	---	---	10000.0 U	10000.0 U	---
BLANK-43	10000.0 U	---	---	---	---	10000.0 U	10000.0 U	---
BLANK-44	10000.0 U	---	---	---	---	10000.0 U	10000.0 U	---
BLANK-45	10000.0 U	---	---	---	---	10000.0 U	10000.0 U	---
BLANK-46	10000.0 U	---	---	---	---	10000.0 U	10000.0 U	---
BLANK-47	10000.0 U	---	---	---	---	10000.0 U	10000.0 U	---
BLANK-48	700.0 U	700.0 U	---	700.0 U	---	700.0 U	10000.0 U	700.0 U
BLANK-49	370.0 U	370.0 U	---	370.0 U	---	370.0 U	10000.0 U	370.0 U
BLANK-50	330.0 U	330.0 U	---	330.0 U	---	330.0 U	10000.0 U	940.0
BLANK-51	20000.0 U	20000.0 U	---	---	---	20000.0 U	10000.0 U	---
BLANK-52	20000.0 U	20000.0 U	---	---	---	20000.0 U	10000.0 U	---
BLANK-53	10000.0 U	---	---	---	---	10000.0 U	10000.0 U	---
BLANK-54	10000.0 U	---	---	---	---	10000.0 U	10000.0 U	---
BLANK-55	10000.0 U	---	---	---	---	10000.0 U	10000.0 U	---
BLANK-56	10000.0 U	---	---	---	---	10000.0 U	10000.0 U	---
BLANK-57	10000.0 U	---	---	---	---	10000.0 U	10000.0 U	---

Table C-11
(Continued)

Location	Naphthalene	2-Methyl-naphthalene	Acenaphthene	Fluorene	N-Nitrosodi-phenylamine	Phenanthrene	Anthracene	Di-N-Butyl phthalate
BLANK-58	10000.0 U	---	---	---	---	10000.0 U	10000.0 U	---
BLANK-59	10000.0 U	---	---	---	---	10000.0 U	10000.0 U	---
BLANK-60	10000.0 U	---	---	---	---	10000.0 U	10000.0 U	---
BLANK-61	10000.0 U	---	---	---	---	10000.0 U	10000.0 U	---
BLANK-62	350.0 U	350.0 U	---	350.0 U	---	350.0 U	10000.0 U	170.0 J
BLANK-63	700.0 U	700.0 U	---	700.0 U	---	700.0 U	10000.0 U	700.0 U
BLANK-64	20000.0 U	20000.0 U	---	---	---	20000.0 U	10000.0 U	---
BLANK-65	10000.0 U	---	---	---	---	10000.0 U	10000.0 U	---
BLANK-66	10000.0 U	---	---	---	---	10000.0 U	10000.0 U	---

Location	Fluoranthene	Pyrene	Benzo(a) Anthracene	Chrysene	Bis(2-Ethyl-hexyl) Phthalate	Benzo(k) Fluoranthane	Benzo(a) Pyrene	Chloro-benzene	Dibenzo-furan
CRQL-01	---	---	10000.0 U	---	330.0	---	---	10.0 U	---
CRQL-02	---	---	10000.0 U	---	---	---	---	10.0 U	---
CRQL-03	330.0	330.0	10000.0 U	330.0	330.0	---	---	5.0	---
CRQL-04	20000.0	20000.0	10000.0 U	20000.0	20000.0	---	---	630.0	---
CRQL-05	---	---	10000.0 U	---	---	---	---	5.0	---
CRQL-06	---	---	10000.0 U	---	---	---	---	630.0	---
CRQL-07	330.0	330.0	10000.0 U	---	330.0	---	---	10.0 U	---
CRQL-08	20000.0	20000.0	20000.0	20000.0	20000.0	20000.0	---	10.0 U	---
CRQL-09	---	---	10000.0 U	---	---	---	---	10.0 U	---
BLANK-11	---	---	10000.0 U	---	---	---	---	630.0 U	---
BLANK-12	---	---	10000.0 U	---	---	---	---	5.0 U	---
BLANK-13	---	---	10000.0 U	---	---	---	---	5.0 U	---
BLANK-14	---	---	10000.0 U	---	---	---	---	5.0 U	---
BLANK-15	---	---	10000.0 U	---	---	---	---	5.0 U	---
BLANK-16	---	---	10000.0 U	---	---	---	---	5.0 U	---
BLANK-17	---	---	10000.0 U	---	1600.0 U	---	---	10.0 U	---
BLANK-18	---	---	10000.0 U	---	150.0 J	---	---	10.0 U	---
BLANK-19	---	---	10000.0 U	---	110000.0 U	---	---	10.0 U	---
BLANK-20	---	---	10000.0 U	---	---	---	---	630.0 U	---
BLANK-21	---	---	10000.0 U	---	---	---	---	5.0 U	---
BLANK-22	---	---	10000.0 U	---	---	---	---	5.0 U	---
BLANK-23	---	---	10000.0 U	---	350.0 U	---	---	10.0 U	350.0 U
BLANK-24	---	---	10000.0 U	---	350.0 U	---	---	10.0 U	350.0 U
BLANK-25	---	---	10000.0 U	---	20000.0 U	---	---	10.0 U	20000.0 U
BLANK-26	---	---	10000.0 U	---	---	---	---	10.0 U	---
BLANK-36	---	---	10000.0 U	---	350.0 U	---	---	10.0 U	---
BLANK-37	---	---	10000.0 U	---	700.0 U	---	---	10.0 U	---
BLANK-38	---	---	10000.0 U	---	330.0 U	---	---	10.0 U	---
BLANK-39	---	---	10000.0 U	---	---	---	---	10.0 U	---
BLANK-40	---	---	10000.0 U	---	---	---	---	10.0 U	---
BLANK-41	---	---	10000.0 U	---	---	---	---	10.0 U	---

Table C-11
(Continued)

Location	Fluoranthene	Pyrene	Benzo(a) Anthracene	Chrysene	Bis(2-Ethyl-hexyl) Phthalate	Benzo(k) Fluoranthane	Benzo(a) Pyrene	Chloro-benzene	Dibenzo-furan
BLANK-42	---	---	10000.0 U	---	---	---	---	5.0 U	---
BLANK-43	---	---	10000.0 U	---	---	---	---	5.0 U	---
BLANK-44	---	---	10000.0 U	---	---	---	---	5.0 U	---
BLANK-45	---	---	10000.0 U	---	---	---	---	5.0 U	---
BLANK-46	---	---	10000.0 U	---	---	---	---	630.0 U	---
BLANK-47	---	---	10000.0 U	---	---	---	---	630.0 U	---
BLANK-48	700.0 U	700.0 U	10000.0 U	700.0 U	700.0 U	---	---	10.0 U	---
BLANK-49	370.0 U	370.0 U	10000.0 U	370.0 U	370.0 U	---	---	10.0 U	---
BLANK-50	330.0 U	330.0 U	10000.0 U	330.0 U	330.0 U	---	---	10.0 U	---
BLANK-51	20000.0 U	20000.0 U	10000.0 U	20000.0 U	20000.0 U	---	---	10.0 U	---
BLANK-52	20000.0 U	20000.0 U	10000.0 U	20000.0 U	20000.0 U	---	---	10.0 U	---
BLANK-53	---	---	10000.0 U	---	---	---	---	10.0 U	---
BLANK-54	---	---	10000.0 U	---	---	---	---	10.0 U	---
BLANK-55	---	---	10000.0 U	---	---	---	---	5.0 U	---
BLANK-56	---	---	10000.0 U	---	---	---	---	5.0 U	---
BLANK-57	---	---	10000.0 U	---	---	---	---	5.0 U	---
BLANK-58	---	---	10000.0 U	---	---	---	---	5.0 U	---
BLANK-59	---	---	10000.0 U	---	---	---	---	630.0 U	---
BLANK-60	---	---	10000.0 U	---	---	---	---	630.0 U	---
BLANK-61	---	---	10000.0 U	---	---	---	---	630.0 U	---
BLANK-62	350.0 U	350.0 U	10000.0 U	---	350.0 U	---	---	10.0 U	---
BLANK-63	700.0 U	700.0 U	10000.0 U	---	700.0 U	---	---	10.0 U	---
BLANK-64	20000.0 U	20000.0 U	20000.0 U	20000.0 U	20000.0 U	20000.0 U	---	10.0 U	---
BLANK-65	---	---	10000.0 U	---	---	---	---	10.0 U	---
BLANK-66	---	---	10000.0 U	---	---	---	---	10.0 U	---

Location	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	4,4'-DDD	4,4'-DDE	4,4'-DDT	ENDOSULFAN I	ENDOSULFAN II
CRQL-01	---	---	---	---	---	---	---	---	---
CRQL-02	---	---	---	---	---	---	---	---	---
CRQL-03	---	---	160.0	160.0	---	---	---	---	---
CRQL-04	---	---	2400.0	2400.0	---	---	---	---	---
CRQL-05	---	---	---	---	---	---	---	---	---
CRQL-06	---	---	---	---	---	---	---	---	---
CRQL-07	---	---	---	---	---	---	---	---	---
CRQL-08	---	---	---	---	---	---	---	---	---
CRQL-09	---	---	---	---	---	---	---	---	---
BLANK-11	---	---	---	---	---	---	---	---	---
BLANK-12	---	---	---	---	---	---	---	---	---
BLANK-13	---	---	---	---	---	---	---	---	---
BLANK-14	---	---	---	---	---	---	---	---	---
BLANK-15	---	---	---	---	---	---	---	---	---
BLANK-16	---	---	---	---	---	---	---	---	---

Table C-11
(Continued)

Location	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	4,4'-DDD	4,4'-DDE	4,4'-DDT	ENDOSULFAN I	ENDOSULFAN II
BLANK-17	---	---	---	---	---	---	---	---	---
BLANK-18	---	---	---	---	---	---	---	---	---
BLANK-19	---	---	---	---	---	---	---	---	---
BLANK-20	---	---	---	---	---	---	---	---	---
BLANK-21	---	---	---	---	---	---	---	---	---
BLANK-22	---	---	---	---	---	---	---	---	---
BLANK-23	---	---	---	---	---	---	---	---	---
BLANK-24	---	---	---	---	---	---	---	---	---
BLANK-25	---	---	---	---	---	---	---	---	---
BLANK-26	---	80.0 U	---	---	---	---	---	---	---
BLANK-36	---	---	---	---	---	---	---	---	---
BLANK-37	---	---	---	---	---	---	---	---	---
BLANK-38	---	---	---	---	---	---	---	---	---
BLANK-39	---	---	---	---	---	---	---	---	---
BLANK-40	---	---	---	---	---	---	---	---	---
BLANK-41	---	---	---	---	---	---	---	---	---
BLANK-51	---	---	---	---	---	---	---	---	---
BLANK-52	---	---	---	---	---	---	---	---	---
BLANK-53	---	---	160.0 U	160.0 U	---	---	---	---	---
BLANK-54	---	---	2400.0 U	2400.0 U	---	---	---	---	---
BLANK-55	---	---	---	---	---	---	---	---	---
BLANK-56	---	---	---	---	---	---	---	---	---
BLANK-57	---	---	---	---	---	---	---	---	---
BLANK-58	---	---	---	---	---	---	---	---	---
BLANK-59	---	---	---	---	---	---	---	---	---
BLANK-60	---	---	---	---	---	---	---	---	---
BLANK-61	---	---	---	---	---	---	---	---	---
BLANK-62	---	---	---	---	---	---	---	---	---
BLANK-63	---	---	---	---	---	---	---	---	---
BLANK-64	---	---	---	---	---	---	---	---	---
BLANK-65	---	---	---	---	---	---	---	---	---
BLANK-66	---	---	---	---	---	---	---	---	---

Location	1,1 Dichloro-ethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	1,2-Dichloro-propane	1,1,2-Tri-chloropropane	1,2-Dichloro-benzene	Di-n-Octyl phthalate	Beta-BHC	Gamma-BHC (Lindane)
CRQL-01	---	---	---	10.0 U	---	---	10000.0 U	---	---
CRQL-02	---	---	---	10.0 U	---	---	10000.0 U	---	---
CRQL-03	---	---	---	10.0 U	---	330.0	10000.0 U	---	---
CRQL-04	---	---	---	10.0 U	---	---	10000.0 U	---	---
CRQL-05	---	---	---	10.0 U	---	---	10000.0 U	---	---
CRQL-06	---	---	---	10.0 U	---	---	10000.0 U	---	---
CRQL-07	---	---	---	10.0 U	---	330.0	10000.0 U	---	---
CRQL-08	---	---	---	10.0 U	---	---	10000.0 U	---	---
CRQL-09	---	---	---	10.0 U	---	---	10000.0 U	---	---

Table C-11
(Continued)

Location	1,1 Dichloro-ethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	1,2-Dichloro-propane	1,1,2-Tri-chloropropane	1,2-Dichloro-benzene	Di-n-Octyl phthalate	Beta-BHC	Gamma-BHC (Lindane)
BLANK-11	---	---	---	10.0 U	---	---	10000.0 U	---	---
BLANK-12	---	---	---	10.0 U	---	---	10000.0 U	---	---
BLANK-13	---	---	---	10.0 U	---	---	10000.0 U	---	---
BLANK-14	---	---	---	10.0 U	---	---	10000.0 U	---	---
BLANK-15	---	---	---	10.0 U	---	---	10000.0 U	---	---
BLANK-16	---	---	---	10.0 U	---	---	10000.0 U	---	---
BLANK-17	---	---	---	10.0 U	---	---	10000.0 U	---	---
BLANK-18	---	---	---	10.0 U	---	---	10000.0 U	---	---
BLANK-19	---	---	---	10.0 U	---	---	10000.0 U	---	---
BLANK-20	---	---	---	10.0 U	---	---	10000.0 U	---	---
BLANK-21	---	---	---	10.0 U	---	---	10000.0 U	---	---
BLANK-22	---	---	---	10.0 U	---	---	10000.0 U	---	---
BLANK-23	---	---	---	10.0 U	---	---	10000.0 U	---	---
BLANK-24	---	---	---	10.0 U	---	---	10000.0 U	---	---
BLANK-25	---	---	---	10.0 U	---	---	10000.0 U	---	---
BLANK-26	---	---	---	10.0 U	---	---	10000.0 U	---	---
BLANK-36	---	---	---	10.0 U	---	---	10000.0 U	---	---
BLANK-37	---	---	---	10.0 U	---	---	10000.0 U	---	---
BLANK-38	---	---	---	10.0 U	---	---	10000.0 U	---	---
BLANK-39	---	---	---	10.0 U	---	---	10000.0 U	---	---
BLANK-40	---	---	---	10.0 U	---	---	10000.0 U	---	---
BLANK-41	---	---	---	10.0 U	---	---	10000.0 U	---	---
BLANK-42	---	---	---	10.0 U	---	---	10000.0 U	---	---
BLANK-43	---	---	---	10.0 U	---	---	10000.0 U	---	---
BLANK-44	---	---	---	10.0 U	---	---	10000.0 U	---	---
BLANK-45	---	---	---	10.0 U	---	---	10000.0 U	---	---
BLANK-46	---	---	---	10.0 U	---	---	10000.0 U	---	---
BLANK-47	---	---	---	10.0 U	---	---	10000.0 U	---	---
BLANK-48	---	---	---	10.0 U	---	700.0 U	10000.0 U	---	---
BLANK-49	---	---	---	10.0 U	---	370.0 U	10000.0 U	---	---
BLANK-50	---	---	---	10.0 U	---	330.0 U	10000.0 U	---	---
BLANK-51	---	---	---	10.0 U	---	---	10000.0 U	---	---
BLANK-52	---	---	---	10.0 U	---	---	10000.0 U	---	---
BLANK-53	---	---	---	10.0 U	---	---	10000.0 U	---	---
BLANK-54	---	---	---	10.0 U	---	---	10000.0 U	---	---
BLANK-55	---	---	---	10.0 U	---	---	10000.0 U	---	---
BLANK-56	---	---	---	10.0 U	---	---	10000.0 U	---	---
BLANK-57	---	---	---	10.0 U	---	---	10000.0 U	---	---
BLANK-58	---	---	---	10.0 U	---	---	10000.0 U	---	---
BLANK-59	---	---	---	10.0 U	---	---	10000.0 U	---	---
BLANK-60	---	---	---	10.0 U	---	---	10000.0 U	---	---
BLANK-61	---	---	---	10.0 U	---	---	10000.0 U	---	---
BLANK-62	---	---	---	10.0 U	---	350.0 U	10000.0 U	---	---
BLANK-63	---	---	---	10.0 U	---	700.0 U	10000.0 U	---	---
BLANK-64	---	---	---	10.0 U	---	---	10000.0 U	---	---
BLANK-65	---	---	---	10.0 U	---	---	10000.0 U	---	---
BLANK-66	---	---	---	10.0 U	---	---	10000.0 U	---	---

Table C-11
(Continued)

Location	Heptachlor	Aldrin	Heptachlor Epoxide	Butylbenzyl phthalate	Diethyl phthalate	Dieldrin	Trichloro-ethylene	1,2-trans-Chloro-ethylene	Tetrachloro-ethylene
CRQL-01	---	---	---	---	---	---	10.0 U	---	---
CRQL-02	---	---	---	---	---	---	10.0 U	---	---
CRQL-03	---	---	---	---	---	---	10.0 U	---	---
CRQL-04	---	---	---	---	---	---	10.0 U	---	---
CRQL-05	---	---	---	---	---	---	10.0 U	---	---
CRQL-06	---	---	---	---	---	---	10.0 U	---	---
CRQL-07	---	---	---	---	---	---	10.0 U	---	---
CRQL-08	---	---	---	---	---	---	10.0 U	---	---
CRQL-09	---	---	---	---	---	---	10.0 U	---	---
BLANK-11	---	---	---	---	---	---	10.0 U	---	---
BLANK-12	---	---	---	---	---	---	10.0 U	---	---
BLANK-13	---	---	---	---	---	---	10.0 U	---	---
BLANK-14	---	---	---	---	---	---	10.0 U	---	---
BLANK-15	---	---	---	---	---	---	10.0 U	---	---
BLANK-16	---	---	---	---	---	---	10.0 U	---	---
BLANK-17	---	---	---	---	---	---	10.0 U	---	---
BLANK-18	---	---	---	---	---	---	10.0 U	---	---
BLANK-19	---	---	---	---	---	---	10.0 U	---	---
BLANK-20	---	---	---	---	---	---	10.0 U	---	---
BLANK-21	---	---	---	---	---	---	10.0 U	---	---
BLANK-22	---	---	---	---	---	---	10.0 U	---	---
BLANK-23	---	---	---	---	---	---	10.0 U	---	---
BLANK-24	---	---	---	---	---	---	10.0 U	---	---
BLANK-25	---	---	---	---	---	---	10.0 U	---	---
BLANK-26	---	---	---	---	---	---	10.0 U	---	---
BLANK-36	---	---	---	---	---	---	10.0 U	---	---
BLANK-37	---	---	---	---	---	---	10.0 U	---	---
BLANK-38	---	---	---	---	---	---	10.0 U	---	---
BLANK-39	---	---	---	---	---	---	10.0 U	---	---
BLANK-40	---	---	---	---	---	---	10.0 U	---	---
BLANK-41	---	---	---	---	---	---	10.0 U	---	---
BLANK-42	---	---	---	---	---	---	10.0 U	---	---
BLANK-43	---	---	---	---	---	---	10.0 U	---	---
BLANK-44	---	---	---	---	---	---	10.0 U	---	---
BLANK-45	---	---	---	---	---	---	10.0 U	---	---
BLANK-46	---	---	---	---	---	---	10.0 U	---	---
BLANK-47	---	---	---	---	---	---	10.0 U	---	---
BLANK-48	---	---	---	---	---	---	10.0 U	---	---
BLANK-49	---	---	---	---	---	---	10.0 U	---	---
BLANK-50	---	---	---	---	---	---	10.0 U	---	---
BLANK-51	---	---	---	---	---	---	10.0 U	---	---
BLANK-52	---	---	---	---	---	---	10.0 U	---	---
BLANK-53	---	---	---	---	---	---	10.0 U	---	---
BLANK-54	---	---	---	---	---	---	10.0 U	---	---
BLANK-55	---	---	---	---	---	---	10.0 U	---	---
BLANK-56	---	---	---	---	---	---	10.0 U	---	---

RD/R62/012-37

Table C-11
(Continued)

Location	Heptachlor	Aldrin	Heptachlor Epoxide	Butylbenzyl phthalate	Diethyl phthalate	Dieldrin	Trichloro-ethylene	1,2-trans-Chloro-ethylene	Tetrachloro-ethylene
BLANK-57	---	---	---	---	---	---	10.0 U	---	---
BLANK-58	---	---	---	---	---	---	10.0 U	---	---
BLANK-59	---	---	---	---	---	---	10.0 U	---	---
BLANK-60	---	---	---	---	---	---	10.0 U	---	---
BLANK-61	---	---	---	---	---	---	10.0 U	---	---
BLANK-62	---	---	---	---	---	---	10.0 U	---	---
BLANK-63	---	---	---	---	---	---	10.0 U	---	---
BLANK-64	---	---	---	---	---	---	10.0 U	---	---
BLANK-65	---	---	---	---	---	---	10.0 U	---	---
BLANK-66	---	---	---	---	---	---	10.0 U	---	---

Location	Tetrachloro-ethene	Penta-chloro-phenol	1,2-Dichloro-ethene	Chrysene	Chloro-methane	1,4-Dichloro-benzene	1,2,4-Tri-chloro-benzene	Benzo(g,h,i) Perylene	Benzo(b) Fluoranthene
CRQL-01	10.0 U	---	10.0 U	---	---	---	---	---	---
CRQL-02	630.0	---	630.0	---	---	---	---	---	---
CRQL-03	5.0	1600.0	10.0 U	---	---	---	---	---	---
CRQL-04	10.0 U	---	10.0 U	---	---	---	---	---	---
CRQL-05	10.0 U	---	10.0 U	---	---	---	---	---	---
CRQL-06	10.0 U	---	10.0 U	---	---	---	---	---	---
CRQL-07	10.0 U	---	10.0 U	---	---	---	---	---	---
CRQL-08	10.0 U	---	10.0 U	---	---	---	---	---	---
CRQL-09	10.0 U	---	10.0 U	---	---	---	---	---	---
BLANK-11	10.0 U	---	10.0 U	---	---	---	---	---	---
BLANK-12	10.0 U	---	10.0 U	---	---	---	---	---	---
BLANK-13	10.0 U	---	10.0 U	---	---	---	---	---	---
BLANK-14	10.0 U	---	10.0 U	---	---	---	---	---	---
BLANK-15	10.0 U	---	10.0 U	---	---	---	---	---	---
BLANK-16	10.0 U	---	10.0 U	---	---	---	---	---	---
BLANK-17	10.0 U	---	10.0 U	---	---	---	---	---	---
BLANK-18	10.0 U	---	10.0 U	---	---	---	---	---	---
BLANK-19	10.0 U	---	10.0 U	---	---	---	---	---	---
BLANK-20	10.0 U	---	10.0 U	---	---	---	---	---	---
BLANK-21	10.0 U	---	10.0 U	---	---	---	---	---	---
BLANK-22	10.0 U	---	10.0 U	---	---	---	---	---	---
BLANK-23	10.0 U	---	10.0 U	---	---	---	---	---	---
BLANK-24	10.0 U	---	10.0 U	---	---	---	---	---	---
BLANK-25	10.0 U	---	10.0 U	---	---	---	---	---	---
BLANK-26	10.0 U	---	10.0 U	---	---	---	---	---	---
BLANK-36	10.0 U	---	10.0 U	---	---	---	---	---	---
BLANK-37	10.0 U	---	10.0 U	---	---	---	---	---	---
BLANK-38	10.0 U	---	10.0 U	---	---	---	---	---	---

Table C-11
(Continued)

Location	Tetrachloro-ethene	Penta-chloro-phenol	1,2-Dichloro-ethene	Chrysene	Chloro-methane	1,4-Dichloro-benzene	1,2,4-Tri-chloro-benzene	Benzo(g,h,i) Perylene	Benzo(b) Fluoranthene
BLANK-39	630.0 U	---	630.0 U	---	---	---	---	---	---
BLANK-40	630.0 U	---	630.0 U	---	---	---	---	---	---
BLANK-41	630.0 U	---	630.0 U	---	---	---	---	---	---
BLANK-42	5.0 U	---	10.0 U	---	---	---	---	---	---
BLANK-43	5.0 U	---	10.0 U	---	---	---	---	---	---
BLANK-44	5.0 U	---	10.0 U	---	---	---	---	---	---
BLANK-45	5.0 U	---	10.0 U	---	---	---	---	---	---
BLANK-46	10.0 U	---	10.0 U	---	---	---	---	---	---
BLANK-47	10.0 U	---	10.0 U	---	---	---	---	---	---
BLANK-48	10.0 U	3400.0 U	10.0 U	---	---	---	---	---	---
BLANK-49	10.0 U	1800.0 U	10.0 U	---	---	---	---	---	---
BLANK-50	10.0 U	1600.0 U	10.0 U	---	---	---	---	---	---
BLANK-51	10.0 U	---	10.0 U	---	---	---	---	---	---
BLANK-52	10.0 U	---	10.0 U	---	---	---	---	---	---
BLANK-53	10.0 U	---	10.0 U	---	---	---	---	---	---
BLANK-54	10.0 U	---	10.0 U	---	---	---	---	---	---
BLANK-55	10.0 U	---	10.0 U	---	---	---	---	---	---
BLANK-56	10.0 U	---	10.0 U	---	---	---	---	---	---
BLANK-57	10.0 U	---	10.0 U	---	---	---	---	---	---
BLANK-58	10.0 U	---	10.0 U	---	---	---	---	---	---
BLANK-59	10.0 U	---	10.0 U	---	---	---	---	---	---
BLANK-60	10.0 U	---	10.0 U	---	---	---	---	---	---
BLANK-61	10.0 U	---	10.0 U	---	---	---	---	---	---
BLANK-62	10.0 U	---	10.0 U	---	---	---	---	---	---
BLANK-63	10.0 U	---	10.0 U	---	---	---	---	---	---
BLANK-64	10.0 U	---	10.0 U	---	---	---	---	---	---
BLANK-65	10.0 U	---	10.0 U	---	---	---	---	---	---
BLANK-66	10.0 U	---	10.0 U	---	---	---	---	---	---

Note: BLANK-11--Medium-level volatile soil blank associated with SB8-04, SB9-01, BB9-04, and SB13-02.
BLANK-12--Low-level volatile soil blank associated with SB11-07.
BLANK-13--Low-level volatile soil blank associated with SBP6-02.
BLANK-14--Low-level volatile soil blank associated with SB11-03, SB12-02, SB12-06, SB13-07, SB14-01, and SBP6-11.
BLANK-15--Low-level volatile soil blank associated with SBP6-06, SB8-09, and SB13-02.
BLANK-16--Low-level volatile soil blank associated with SB8-08, SB8-09, SB8-12, and SB9-08.
BLANK-17--Low-level semivolatile soil blank associated SB8-08, SB8-09, SB9-08, SB11-03, SB12-02, SB12-06, SB13-07, SB14-01, and SBP6-06.
BLANK-18--Low-level semivolatile soil blank associated with SB8-12.
BLANK-19--Medium-level semivolatile soil blank associated with SB8-04, SB9-01, SB9-04, SB13-02 and SBP6-02.
BLANK-20--Medium-level VOA soil blank associated with SB7-03 and SB7-04.
BLANK-21--Low-level VOA soil blank associated with ABP3-01 and ABP4-02.
BLANK-22--Low-level VOA soil blank associated with SB7-06 and SB7-11.
BLANK-23--Low-level SVOA soil blank associated with SB7-06, ABP3-01, and ABP4-02.
BLANK-24--Low-level SVOA soil blank associated with SB7-11.
BLANK-25--Medium-level SVOA soil blank associated with SB7-03 and SB7-04.
BLANK-26--Low-level PCB soil blank associated with SB7-06, ABP3-01, and ABP4-02.

RD/R62/012-39

Table C-12
PURITY OIL--CH2M HILL DATA
SHALLOW BORING SAMPLES: HSL INORGANIC COMPOUNDS
units are in mg/kg (ppm)

Location	Depth	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt
SB8-04	6.5 - 8.0	6870.0	12.0 U J	2.1 U	78.0 J	0.2 U	1.4	12.6 g	3.7 P
SB9-04	8.5 - 10.0	6450.0	13.0 U J	3.0	55.0 J	0.2 U	1.1	12.0	4.5 P
SB14-01	17.0 - 18.5	13500.0	15.0 U J	2.5 U	100.0 J	0.2 P	1.2 U	9.1	9.4 P
BLANK-01		20.0 U	12.0 U	2.0 U	1.8 U	0.2 U	1.0 U	2.0 U	2.0 U
CRQL-01		40.0	12.0	2.0	40.0	1.0	1.0	2.0	10.0
MDL-01		20.0	12.0 U J	2.0	1.8	0.2	1.0	2.0	2.0

Location	Depth	Copper	Cyanide	Iron	Lead	Magnesium	Manganese	Mercury	Nickel
SB8-04	6.5 - 8.0	11.0 J	0.5 U	6390.0	299.0 J	1610.0	59.0	0.1 U	12.0
SB9-04	8.5 - 10.0	14.0 J	0.5 U	9740.0	52.0 J	2450.0	133.0	0.1 U	6.4 P
SB14-01	17.0 - 18.5	13.0 J	0.6 U	15000.0	19.0 J	7580.0	380.0	0.1 U J	7.9 P
BLANK-01		2.6 U	0.5 U	2.0 U	1.0 U	23.0 U	0.6 U	0.1 U	1.8 U
CRQL-01		5.0	0.5	20.0	2.5	1000.0	3.0	0.1	8.0
MDL-01		2.6	0.5	2.0	1.0	23.0	0.6	0.1	1.8

Location	Depth	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Percent Solids
SB8-04	6.5 - 8.0	1500.0	1.0 U J	2.7	819.0 P	2.1 U	17.0	115.0	97.0
SB9-04	8.5 - 10.0	1540.0	1.1 U J	2.1 U	879.0 P	2.1 U	25.0	75.0	94.0
SB14-01	17.0 - 18.5	3650.0	1.2 U J	3.0	1400.0	2.5 U	36.0	107.0	81.0
BLANK-01		159.0 U	1.0 U	2.0 U	388.0 U	2.0 U	1.6 U	1.8 U	NA
CRQL-01		1000.0	5.0	2.0	1000.0	2.0	10.0	4.0	NA
MDL-01		159.0	1.0 UJ	2.0	388.0	2.0	1.6	1.8	NA

Table C-13
PURITY OIL--CH2M HILL DATA
SHALLOW BORING SAMPLES: MISCELLANEOUS PARAMETERS

Location	Ash Content (percent)	Moisture (percent)	Viscosity	Melting Point deg F	Specific Gravity	Total Organic Carbon (mg/kg)	Calorific Value (Btu/lb)	Sulfur Loss After Ignition (percent)	Chlorine Loss After Ignition (percent)
SB1-01	3.72 J	34.80 J	NA	>170	0.96	>330,000	15,285	2.19	0.09 J
SB1-04	99.30 J	4.80 J	NA	NA	2.77	1,050	10,983	NC	NC J
SB2-01	52.80 J	16.30 J	NA	>170	0.32	>285,000	10,030	0.14	NC J
SB2-04	98.50	13.10	NA	>170	1.70	620	11,734	0.025	NC J
SB3-03	68.80	9.30	NA	>170	1.24	119,000	13,908	0.027	NC J
SB3-04	73.50	12.00	NA	>170	0.72	78,200	12,378	1.7	NC J
SB3-06	97.40	5.90	NA	NA	0.69	930	12,300	0.30	NC J
SB4-01	67.20 J	14.80 J	NA	NA	0.89	>250,000	14,141	0.72	NC J
SB4-02	94.40	4.60	NA	NA	1.47	33,200	12,493	0.15	NC J
SB5-01	13.60 J	27.70 J	NA	>170	1.09	>220,000	16,181	4.2	0.11 J
SB5-02	12.70 J	17.90 J	NA	>170	1.09	>250,000	16,191	4.0	0.11 J
SB5-04	98.70	5.40	NA	NA	2.33	1,580	11,056	0.063	NC J
SB6-02	85.80 J	14.70 J	NA	NA	1.09	69,700	12,183	0.13	NC J
SB6-03	90.80	9.90	NA	NA	1.32	35,000	12,231	0.70	NC J
SB6-04	95.60	22.90	NA	NA	1.96	9,000	12,026	0.01	NC J
SB6-01	0.00	0.00	NA	NA	0.00	136,000	12,536	0.23	0.065 J
SB6-04	0.00	0.00	NA	NA	0.00	24,600	11,426	0.021	NC J
SB7-01	93.40 J	8.70 J	NA	NA	0.52	28,000	11,717	NC	NC J
SB7-02	92.80 J	15.90 J	NA	NA	0.64	42,100	12,031	0.20	NC J
SB7-05	99.40	11.70	NA	>170	1.74	1,070	12,172	NC	NC J
SB7-05	99.20 J	9.20 J	NA	NA	1.64	1,080	12,080	0.093	NC J
SB7-05	99.40	4.80	NA	NA	0.58	15,100	12,474	0.080	NC J
SB8-05	91.30 J	11.20 J	NA	NA	0.40	47,700	11,605	0.34	NC J
SB11-01	99.10	4.40	NA	NA	1.48	810	10,818	0.14	NC J
SB11-02	99.00	4.60	NA	NA	2.81	950	11,188	NC	NC J
SB11-05	0.00	0.00	NA	NA	0.00	123	11,933	NC	NC J
SBP1-01	93.40	5.00	NA	NA	0.64	18,700	12,455	0.13	NC J
SBP1-04	91.80 J	8.20 J	NA	NA	0.97	21,200	12,756	0.11	NC J
SBP1-05	99.40	10.30	NA	NA	1.29	12,900	11,873	1.1	NC J
SBP1-06	97.10	12.30	NA	NA	1.23	6,730	10,107	NC	NC J
ABP13-01(D2)	82.20	10.60	NA	NA	0.99	35,100	13,108	0.50	NC J
ABP13-02(D2)	75.80	12.70	NA	NA	0.99	209,000	12,931	1.00	NC J
ABP10-04(D3)	82.60	10.80	NA	NA	0.67	119,000	12,513	0.40	NC J
ABP10-02(D3)	84.70	0.09	NA	NA	0.29	87,100	12,897	0.32	NC J
ABP10-02	84.90	10.10	NA	NA	1.17	100,000	12,013	0.26	NC J
ABP12-01	93.10	9.10	NA	NA	0.80	34,100	12,267	0.36	NC J

HARDING LAWSON & ASSOCIATES DATA

Table C-14
PURITY OIL--HARDING LAWSON DATA
SURFACE AND CANAL SAMPLES: INORGANIC ANALYSIS RESULTS
units are in mg/kg (ppm)

Location	Aluminum	Antimony	Arsensic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt
C-1	---	3.0 U*	6.0 U*	75.0 *	0.10 U*	1.40 *	1700 *	57.0 *	9.00 *
C-1 (D1)	---	3.0 U*	6.0 U*	71.0 *	0.10 U*	1.00 *	1800 *	54.0 *	10.00 *
C-10	---	3.0 U*	6.0 U*	27.0 *	0.10 U*	2.50 *	1500 *	18.0 *	7.00 *
C-11	---	3.0 U*	6.0 U*	35.0 *	0.10 U*	0.80 *	1500 *	16.0 *	5.00 *
C-12	---	3.0 U*	6.0 U*	20.0 *	0.10 U*	0.20 U*	1100 *	7.5 *	2.80 *
C-14	---	3.0 U*	6.0 U*	22.0 *	0.10 U*	0.20 U*	1100 *	24.0 *	5.00 *
C-15	---	3.0 U*	5.0 U*	52.0 *	0.10 U*	3.20 *	1300 *	40.0 *	9.90 *
C-16	---	3.0 U*	6.0 U*	39.0 *	0.10 U*	1.20 *	1500 *	52.0 *	8.10 *
C-17	---	3.0 U*	6.0 U*	48.0 *	0.10 U*	0.70 *	1300 *	40.0 *	8.30 *
C-2	---	3.0 U*	6.0 U*	83.0 *	0.10 U*	0.50 *	2100 *	65.0 *	13.00 *
C-3	---	3.0 U*	6.0 U*	27.0 *	0.10 U*	0.20 U*	1400 *	31.0 *	5.00 *
C-4	---	3.0 U*	6.0 U*	99.0 *	0.10 U*	3.20 *	2300 *	82.0 *	12.00 *
C-4 (D2)	---	3.0 U*	6.0 U*	45.0 *	0.10 U*	1.00 *	1300 *	39.0 *	8.60 *
C-5	---	3.0 U*	6.0 U*	85.0 *	0.10 U*	0.90 *	1900 *	70.0 *	11.00 *
C-6	---	3.0 U*	6.0 U*	43.0 *	0.10 U*	1.20 *	1100 *	23.0 *	18.00 *
C-7	---	3.0 U*	6.0 U*	43.0 *	0.10 U*	0.80 *	1300 *	33.0 *	6.80 *
C-9	---	3.0 U*	6.0 U*	36.0 *	0.10 U*	1.00 *	1400 *	32.0 *	8.90 *
HLA-021	---	---	---	---	---	---	---	---	---
HLA-032	---	---	---	---	---	---	---	---	---
HLA-033	---	---	---	---	---	---	---	---	---
HLA-043	---	---	---	---	---	---	---	---	---
HLA-043(D3)	---	---	---	---	---	---	---	---	---
HLA-046	---	---	3.9	---	0.30	1.60	---	7.0	---
HLA-047	---	---	3.4	---	0.40	4.30	---	11.0	---
HLA-050	---	---	---	---	---	---	---	---	---
HLA-052	---	---	2.6	---	0.40	3.30	---	17.0	---
HLA-059	---	---	---	---	---	---	---	---	---
HLA-063	---	---	---	---	---	---	---	---	---
HLA-064	---	---	---	---	---	---	---	---	---
HLA-065	---	---	---	---	---	---	---	---	---
HLA-068	---	---	2.2	---	0.40	1.30	---	16.0	---
HLA-069	---	---	1.4	---	0.20	6.50	---	25.0	---
HLA-070	---	---	4.6	---	0.20	8.70	---	28.0	---
HLA-071	---	---	14.0	---	0.10 U	1.10	---	25.0	---
HLA-082	---	---	---	---	---	---	---	---	---
HLA-082(D5)	---	---	---	---	---	---	---	---	---
HLA-094	---	---	---	---	---	---	---	---	---
HLA-113	---	---	---	---	---	---	---	---	---
HLA-118	---	---	---	---	---	---	---	---	---
HLA-126	---	---	---	---	---	---	---	---	---
HLA-134	---	---	0.9	---	0.20	11.00	---	39.0	---
HLA-137	---	---	---	---	---	---	---	---	---

Table C-14
(Continued)

Location	Aluminum	Antimony	Arsensic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt
HLA-143	---	---	3.8	---	0.10 U	7.50	---	40.0	---
HLA-144	---	---	1.3	---	0.20	7.70	---	36.0	---
HLA-145	---	---	1.3	---	0.20	12.00	---	45.0	---
HLA-146	---	---	---	---	---	---	---	---	---
HLA-146(D6)	---	---	---	---	---	---	---	---	---
HLA-147	---	---	---	---	---	---	---	---	---
HLA-148	---	---	---	---	---	---	---	---	---
HLA-149	---	---	---	---	---	---	---	---	---
HLA-150	---	---	8.8	---	0.10 U	5.80	---	33.0	---
HLA-151	---	---	3.0	---	0.40	2.00	---	14.0	---
HLA-153	---	---	---	---	---	---	---	---	---
HLA-155	---	---	---	---	---	---	---	---	---
HLA-157	---	3.0 U*	6.0 U*	51.0 *	0.10 U*	1.50 *	1500 *	---	6.00 *
HLA-159	---	---	17.0	---	0.50	2.00	---	15.0	---
HLA-161	---	---	---	---	---	---	---	---	---
HLA-162	---	---	---	---	---	---	---	---	---
HLA-163	---	---	5.4	---	0.60	3.60	---	14.0	---
HLA-164	---	3.0 U*	6.0 U*	64.0 *	0.10 U*	0.20 *	1600 *	20.0 *	4.00 *
HLA-165	---	3.0 u*	6.0 U*	64.0 *	0.10 U*	0.40 *	2300 *	18.0 *	3.00 *
HLA-166	---	3.0 U*	6.0 U*	110.0 *	0.10 U*	0.70 *	1600 *	20.0 *	4.00 *
HLA-168	---	3.0 U*	6.0 U*	65.0 *	0.10 U*	1.40 *	1800 *	21.0 *	4.00 *
HLA-169	---	3.0 U*	6.0 U*	90.0 *	0.10 U*	0.70 *	1900 *	25.0 *	5.90 *
HLA-170	---	---	---	---	---	---	---	---	---
HLA-171	---	---	---	---	---	---	---	---	---
HLA-171(D7)	---	---	---	---	---	---	---	---	---
HLA-172	---	3.0 U*	6.0 U*	84.0 *	0.10 U*	0.40 *	2100 *	21.0 *	3.90 *
HLA-174	---	3.0 U*	6.0 U*	56.0 *	0.10 U*	0.20 U*	2300 *	26.0 *	5.10 *
HLA-176	---	3.0 U*	6.0 U*	48.0 *	0.10 U*	0.50 *	1800 *	33.0 *	6.60 *
HLA-541	---	3.0 U	6.0 U	56.0	0.10 U	0.20 U	1500 *	6.0	3.70
HLA-546	---	---	---	---	---	---	---	---	---
HLA-547	---	---	---	---	---	---	---	---	---
HLA-548	---	---	---	---	---	---	---	---	---
HLA-549	---	3.0 U	8.0	73.0	0.10 U	0.20 U	1900 *	16.0	5.00
HLA-551	---	---	---	---	---	---	---	---	---
HLA-552	---	---	2.9	---	0.10 U	6.90	---	17.0	---
HLA-553	---	3.0 U	6.0 U	68.0	0.10 U	0.20 U	2900 *	7.6	2.00
HLA-554	---	3.0 U	6.0 U	77.0	0.10 U	0.20 U	2300 *	5.6	3.80
HLA-555	---	---	---	---	---	---	---	---	---
HLA-556	---	---	---	---	---	---	---	---	---

Table C-14
(Continued)

Location	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Molybdenum	Nickel	Potassium
C-1	38.0 *	---	8.0 *	4700.0 *	---	---	3.5 *	62.0 *	---
C-1 (D1)	46.0 *	---	8.0 U*	5100.0 *	---	---	3.5 *	66.0 *	---
C-10	12.0 *	---	13.0 *	2800.0 *	---	---	4.4 *	9.0 *	---
C-11	9.0 *	---	14.0 *	3000.0 *	---	---	2.0 *	6.9 *	---
C-12	7.1 *	---	19.0 *	2100.0 *	---	---	1.4 *	4.7 *	---
C-14	7.1 *	---	8.0 U*	2400.0 *	---	---	1.4 *	41.0 *	---
C-15	21.0 *	---	8.0 U*	3400.0 *	---	---	4.7 *	44.0 *	---
C-16	15.0 *	---	14.0 *	3500.0 *	---	---	3.0 *	59.0 *	---
C-17	16.0 *	---	8.0 U*	3600.0 *	---	---	3.4 *	50.0 *	---
C-2	23.0 *	---	8.0 U*	---	5700.0 *	---	2.0 *	78.0 *	---
C-3	9.6 *	---	8.0 *	2900.0 *	---	---	2.4 *	43.0 *	---
C-4	45.0 *	---	10.0 *	6200.0 *	---	---	2.3 *	2.3 *	---
C-4 (D2)	14.0 *	---	8.0 U*	3100.0 *	---	---	3.0 *	41.0 *	---
C-5	36.0 *	---	15.0 *	5400.0 *	---	---	2.0 *	72.0 *	---
C-6	9.0 *	---	8.0 *	2300.0 *	---	---	4.0 *	42.0 *	---
C-7	23.0 *	---	8.0 U*	3100.0 *	---	---	2.0 *	40.0 *	---
C-9	13.0 *	---	8.0 U*	2700.0 *	---	---	4.0 *	37.0 *	---
HLA-021	---	---	1700.0	---	---	---	---	---	---
HLA-032	---	---	480.0	---	---	---	---	---	---
HLA-033	---	---	570.0	---	---	---	---	---	---
HLA-043	---	---	660.0	---	---	---	---	---	---
HLA-043 (D3)	---	---	540.0	---	---	---	---	---	---
HLA-046	18.0	---	330.0	---	---	0.10 U	---	18.0	---
HLA-047	38.0	---	770.0	---	---	0.08 U	---	11.0	---
HLA-050	---	---	870.0	---	---	---	---	---	---
HLA-052	27.0	---	880.0	---	---	0.08 U	---	23.0	---
HLA-059	---	---	1850.0	---	---	---	---	---	---
HLA-063	---	---	670.0	---	---	---	---	---	---
HLA-064	---	---	610.0	---	---	---	---	---	---
HLA-065	---	---	970.0	---	---	---	---	---	---
HLA-068	19.0	---	320.0	---	---	0.10 U	---	14.0	---
HLA-069	69.0	---	9400.0	---	---	0.10 U	---	5.9	---
HLA-070	110.0	---	8200.0	---	---	0.10 U	---	11.0	---
HLA-071	19.0	---	190.0	---	---	0.05 U	---	22.0	---
HLA-082	---	---	85.0	---	---	---	---	---	---
HLA-082 (D5)	---	---	200.0	---	---	---	---	---	---
HLA-094	---	---	180.0	---	---	---	---	---	---
HLA-113	---	---	350.0	---	---	---	---	---	---
HLA-118	---	---	6200.0	---	---	---	---	---	---
HLA-126	---	---	4400.0	---	---	---	---	---	---
HLA-134	180.0	---	6100.0	---	---	0.10 U	---	12.0	---
HLA-137	---	---	6600.0	---	---	---	---	---	---
HLA-143	200.0	---	6400.0	---	---	0.10 U	---	10.0	---
HLA-144	120.0	---	2800.0	---	---	0.10 U	---	11.0	---
HLA-145	160.0	---	5400.0	---	---	0.10 U	---	13.0	---
HLA-146	---	---	1450.0	---	---	---	---	---	---
HLA-146 (D6)	---	---	4500.0	---	---	---	---	---	---
HLA-147	---	---	810.0	---	---	---	---	---	---
HLA-148	---	---	6060.0	---	---	---	---	---	---
HLA-149	---	---	4400.0	---	---	---	---	---	---

RD/R63/011-3

Table C-14
(Continued)

Location	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Molybdenum	Nickel	Potassium
HLA-150	95.0	---	2200.0	---	---	0.08 U	---	25.0	---
HLA-151	32.0	---	160.0	---	---	0.09	---	12.0	---
HLA-153	---	---	24.0	---	---	---	---	---	---
HLA-155	---	---	25.0	---	---	---	---	---	---
HLA-157	24.0 *	---	62.0 *	3900.0 *	---	---	2.6 *	43.0 *	---
HLA-159	16.0	---	14.0	---	---	0.05 U	---	29.0	---
HLA-161	---	---	160.0	---	---	---	---	---	---
HLA-162	---	---	250.0	---	---	---	---	---	---
HLA-163	40.0	---	180.0	---	---	0.05 U	---	21.0	---
HLA-164	19.0 *	---	8.0 U*	2400.0 *	---	---	1.4 *	7.4 *	---
HLA-165	22.0 *	---	10.0 *	2900.0 *	---	---	1.0 *	4.9 *	---
HLA-166	26.0 *	---	8.0 *	2500.0 *	---	---	1.8 *	6.0 *	---
HLA-168	18.0 *	---	10.0 *	2900.0 *	---	---	2.3 *	6.9 *	---
HLA-169	20.0 *	---	8.0 U*	2800.0 *	---	---	2.6 *	11.0 *	---
HLA-170	---	---	5700.0	---	---	---	---	---	---
HLA-171	---	---	2700.0	---	---	---	---	---	---
HLA-171(D7)	---	---	1980.0	---	---	---	---	---	---
HLA-172	18.0 *	---	13.0 *	2500.0 *	---	---	1.9 *	8.7 *	---
HLA-174	10.0 *	---	27.0 *	3200.0 *	---	---	1.9 *	11.0 *	---
HLA-176	9.7 *	---	13.0 *	3000.0 *	---	---	2.4 *	27.0 *	---
HLA-541	7.1	---	8.0	3300.0	---	---	0.3 U	9.2	---
HLA-546	---	---	1600.0 B	---	---	---	---	---	---
HLA-547	---	---	135.0 B	---	---	---	---	---	---
HLA-548	---	---	1320.0 B	---	---	---	---	---	---
HLA-549	240.0	---	140.0	3700.0	---	---	0.3 U	9.1	---
HLA-551	---	---	120.0 B	---	---	---	---	---	---
HLA-552	35.0	---	19.0 *	---	---	0.05 U	---	24.0	---
HLA-553	23.0	---	26.0	4500.0	---	---	0.3 U	6.6	---
HLA-554	13.0	---	17.0	4040.0	---	---	0.3 U	5.8	---
HLA-555	---	---	34000.0 B	---	---	---	---	---	---
HLA-556	---	---	7600.0 B	---	---	---	---	---	---

Location	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Cyanide	Percent Solids	Oil and Grease
C-1	8.0 U*	2.0	---	9.0 U*	25.0 *	63.0 *	---	---	3100.0
C-1 (D1)	8.0 U*	2.0	---	9.0 U*	28.0 *	72.0 *	---	---	5518.0
C-10	8.0 U*	2.0	---	9.0 U*	31.0 *	42.0 *	---	---	4300.0
C-11	8.0 U*	2.0	---	9.0 U*	16.0 *	41.0 *	---	---	3600.0
C-12	8.0 U*	2.0	---	9.0 U*	13.0 *	35.0 *	---	---	5400.0
C-14	8.0 U*	2.0	---	9.0 U*	11.0 *	19.0 *	---	---	2400.0
C-15	8.0 U*	2.0	---	9.0 U*	33.0 *	41.0 *	---	---	2600.0
C-16	8.0 U*	2.0	---	9.0 U*	22.0 *	37.0 *	---	---	1600.0
C-17	8.0 U*	2.0	---	9.0 U*	25.0 *	38.0 *	---	---	338.0
C-2	8.0 U*	2.0	---	9.0 U*	32.0 *	66.0 *	---	---	2200.0
C-3	8.0 U*	2.0	---	9.0 U*	20.0 *	44.0 *	---	---	1391.0

RD/R63/011-4

Table C-14
(Continued)

Location	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Cyanide	Percent Solids	Oil and Grease
C-4	8.0 U*	2.0	---	9.0 U*	32.0 *	72.0 *	---	---	1800.0
C-4 (D2)	8.0 U*	2.0	---	9.0 U*	20.0 *	36.0 *	---	---	3000.0
C-5	8.0 U*	2.0	---	10.0	29.0 *	73.0 *	---	---	1900.0
C-6	8.0 U*	2.0	---	12.0	22.0 *	23.0 *	---	---	2100.0
C-7	10.0 *	2.0	---	9.0 U*	18.0 *	41.0 *	---	---	1400.0
C-9	8.0 U*	2.0	---	9.0 U*	27.0 *	33.0 *	---	---	2300.0
HLA-021	---	---	---	---	---	---	---	---	54000.0
HLA-032	---	---	---	---	---	---	---	---	76000.0
HLA-033	---	---	---	---	---	---	---	---	28000.0
HLA-043	---	---	---	---	---	---	---	---	45000.0
HLA-043(D3)	---	---	---	---	---	---	---	---	57000.0
HLA-046	---	3.5	---	0.1 U	---	52.0	---	---	130000.0
HLA-047	---	6.7	---	0.1 U	---	130.0	---	---	110000.0
HLA-050	---	---	---	---	---	---	---	---	36000.0
HLA-052	---	5.1	---	0.1 U	---	110.0	---	---	67000.0
HLA-059	---	---	---	---	---	---	---	---	39000.0
HLA-063	---	---	---	---	---	---	---	---	32000.0
HLA-064	---	---	---	---	---	---	---	---	64000.0
HLA-065	---	---	---	---	---	---	---	---	32000.0
HLA-068	---	3.2	---	0.1 U	---	270.0	---	---	55000.0
HLA-069	---	3.2	---	0.1 U	---	320.0	---	---	480000.0
HLA-070	---	5.5	---	0.1 U	---	620.0	---	---	290000.0
HLA-071	---	0.6	---	0.1 U	---	36.0	---	---	4000.0
HLA-082	---	---	---	---	---	---	---	---	26.0
HLA-082(D5)	---	---	---	---	---	---	---	---	6900.0
HLA-094	---	---	---	---	---	---	---	---	8300.0
HLA-113	---	---	---	---	---	---	---	---	11000.0
HLA-118	---	---	---	---	---	---	---	---	110000.0
HLA-126	---	---	---	---	---	---	---	---	25000.0
HLA-134	---	5.2	---	0.1 U	---	1900.0	---	---	290000.0 *
HLA-137	---	---	---	---	---	---	---	---	150000.0
HLA-143	---	8.8	---	0.1 U	---	1500.0	---	---	520000.0
HLA-144	---	2.8	---	0.1 U	---	1900.0	---	---	520000.0
HLA-145	---	8.9	---	0.1 U	---	2100.0	---	---	210000.0
HLA-146	---	---	---	---	---	---	---	---	330000.0
HLA-146(D6)	---	---	---	---	---	---	---	---	230000.0
HLA-147	---	---	---	---	---	---	---	---	320000.0
HLA-148	---	---	---	---	---	---	---	---	290000.0
HLA-149	---	---	---	---	---	---	---	---	190000.0
HLA-150	---	9.7	---	0.1 U	---	510.0	---	---	540000.0
HLA-151	---	6.9	---	0.1 U	---	130.0	---	---	130.0
HLA-153	---	---	---	---	---	---	---	---	4500.0
HLA-155	---	---	---	---	---	---	---	---	4100.0
HLA-157	8.0 U*	0.2	---	9.0 U*	22.0 *	50.0 *	---	---	---
HLA-159	---	5.3	---	0.1 U	---	81.0	---	---	---

Table C-14
(Continued)

Location	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Cyanide	Percent Solids	Oil and Grease
HLA-161	---	---	---	---	---	---	---	---	6400.0
HLA-162	---	---	---	---	---	---	---	---	4100.0
HLA-163	---	6.8	---	0.1 U	---	160.0	---	---	---
HLA-164	8.0 U*	0.2	---	9.0 U*	14.0 *	85.0 *	---	---	---
HLA-165	8.0 U*	0.2	---	9.0 U*	14.0 *	97.0 *	---	---	---
HLA-166	8.0 U*	0.2	---	9.0 U*	15.0 *	95.0 *	---	---	---
HLA-168	8.0 U*	0.2	---	9.0 U*	19.0 *	81.0 *	---	---	---
HLA-169	8.0 U*	0.2	---	9.0 U*	21.0 *	110.0 *	---	---	---
HLA-170	---	---	---	---	---	---	---	---	220000.0
HLA-171	---	---	---	---	---	---	---	---	400000.0
HLA-171(D7)	---	---	---	---	---	---	---	---	320000.0
HLA-172	8.0 U*	0.2	---	9.0 U*	16.0 *	180.0 *	---	---	---
HLA-174	10.0 *	0.2	---	9.0 U*	19.0 *	50.0 *	---	---	---
HLA-176	8.0 U*	0.2	---	9.0 U*	21.0 *	37.0 *	---	---	---
HLA-541	8.0 U	0.2	---	9.0 U	13.0	22.0	---	---	---
HLA-546	---	---	---	---	---	---	---	---	24000.0 B
HLA-547	---	---	---	---	---	---	---	---	39000.0 B
HLA-548	---	---	---	---	---	---	---	---	79000.0 B
HLA-549	8.0 U	0.2	---	9.0 U	12.0	150.0	---	---	---
HLA-551	---	---	---	---	---	---	---	---	15000.0 B
HLA-552	---	7.2	---	0.1	---	160.0	---	---	---
HLA-553	8.0 U	0.2	---	9.0 U	14.0	57.0	---	---	---
HLA-554	8.0 U	0.2	---	9.0 U	13.0	35.0	---	---	---
HLA-555	---	---	---	---	---	---	---	---	80000.0 B
HLA-556	---	---	---	---	---	---	---	---	600000.0 B

Table C-15
PURITY OIL--HARDING LAWSON DATA
SURFACE AND CANAL SAMPLES: ORGANIC ANALYSIS RESULTS
units are in mg/kg (ppm)

Location	Bromoethane	Chlorethane	Methylene Chloride	Acetone	Carbon Disulfide	1,1-Dichloro-ethane	1,2-Dichloro-ethane
HLA-046	---	---	10.0 U	---	---	---	10.0 U
HLA-068	---	---	10.0 U	---	---	---	10.0 U
HLA-134	---	---	10.0 U	---	---	---	10.0 U
HLA-143	---	---	10.0 U	---	---	---	10.0 U
HLA-144	---	---	2600.0	---	---	---	10.0 U
HLA-145	---	---	10.0 U	---	---	---	10.0 U
HLA-150	---	---	10.0 U	---	---	---	10.0 U
HLA-163	---	---	10.0 U	---	---	---	10.0 U
HLA-428	---	---	10.0 U	---	---	---	10.0 U

Location	Chloroform	2-Butanone	1,1,1-Tri-chloroethane	Tri-chloroethane	Benzene	4-Methyl-2-Pentanone	2-Hexanone	Tetra-chlorene	1,1,2,2-Tetra-chloroethane
HLA-046	10.0 U	---	10.0 U	---	---	---	---	---	---
HLA-068	10.0 U	---	10.0 U	---	---	---	---	---	---
HLA-134	10.0 U	---	10.0 U	---	---	---	---	---	---
HLA-143	10.0 U	---	2300.0	---	500.0	---	---	---	---
HLA-144	10.0 U	---	900.0	---	200.0	---	---	---	---
HLA-145	10.0 U	---	10.0 U	---	---	---	---	---	---
HLA-150	10.0 U	---	10.0 U	---	---	---	---	---	---
HLA-163	10.0 U	---	10.0 U	---	---	---	---	---	---
HLA-428	10.0 U	---	10.0 U	---	---	---	---	---	---

Location	Toluene	Ethylbenzene	Total Xylenes	Phenol	2-Methylphenol	4-Methylphenol	Isophorone	2,4-Dimethyl-phenol	Benzoic Acid
HLA-046	10.0 U	10.0 U	---	---	---	---	---	---	---
HLA-068	1800.0	1200.0	---	2.0 *	---	---	---	---	---
HLA-134	10.0 U	11000.0	---	2.2	---	---	---	---	---
HLA-143	9000.0	5700.0	---	6.8	---	---	---	---	---
HLA-144	3400.0	10.0 U	---	12.0	---	---	---	---	---
HLA-145	10.0 U	100.0	---	3.3	---	---	---	---	---
HLA-150	10.0 U	300.0	---	0.9	---	---	---	---	---
HLA-163	34.0	10.0 U	---	---	---	---	---	---	---
HLA-428	10.0 U	10.0 U	---	---	---	---	---	---	---

Table C-15
(Continued)

Location	Naphthalene	2-Methyl naphthalene	Acenaphthene	Fluorene	N-Nitrosodi-phenylamine	Phenanthrene	Anthracene	Di-N-Butyl phthalate
HLA-046	10000.0 U	---	---	---	---	10000.0 U	10000.0 U	---
HLA-068	10000.0 U	---	---	---	---	10000.0 U	10000.0 U	---
HLA-134	105.0	---	---	---	---	45.0	10000.0 U	---
HLA-143	10000.0 U	---	---	---	---	10000.0 U	10000.0 U	---
HLA-144	10000.0 U	---	---	---	---	10000.0 U	10000.0 U	---
HLA-145	10000.0 U	---	---	---	---	10000.0 U	55.0	---
HLA-150	10000.0 U	---	---	---	---	10000.0 U	10000.0 U	---
HLA-163	10000.0 U	---	---	---	---	10000.0 U	10000.0 U	---
HLA-428	10000.0 U	---	---	---	---	10000.0 U	10000.0 U	---

Location	Fluoranthene	Pyrene	Benzo(a) Anthracene	Chrysene	Bis (2-Ethylhexyl) Phthalate	Benzo(k) Fluoranthane	Benzo(a) Pyrene	Chlorobenzene	Dibenzofuran
HLA-046	---	---	10000.0 U	---	---	---	---	10.0 U	---
HLA-068	---	---	10000.0 U	---	---	---	---	10.0 U	---
HLA-134	---	---	10000.0 U	---	---	---	---	10.0 U	---
HLA-143	---	---	10000.0 U	---	---	---	---	10.0 U	---
HLA-144	---	---	10000.0 U	---	---	---	---	1600.0	---
HLA-145	---	---	55.0	---	---	---	---	10.0 U	---
HLA-150	---	---	10000.0 U	---	---	---	---	10.0 U	---
HLA-163	---	---	10000.0 U	---	---	---	---	10.0 U	---
HLA-428	---	---	10000.0 U	---	---	---	---	10.0 U	---

Location	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	4,4'-DDD	4,4'-DDE	4,4'-DDT	Endosulfan I	Endosulfan II
HLA-046	---	---	---	---	---	---	---	---	---
HLA-068	---	---	---	---	---	---	---	---	---
HLA-134	---	---	---	---	---	---	---	---	---
HLA-143	---	---	---	---	---	---	---	---	---
HLA-144	---	---	---	---	---	---	---	---	---
HLA-145	---	---	---	---	---	---	---	---	---
HLA-150	---	---	---	---	---	---	---	---	---
HLA-163	---	---	---	---	---	---	---	---	---
HLA-428	---	---	---	---	---	---	---	---	---

Table C-15
(Continued)

Location	1,1 Dichloro-ethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	1,2-Dichloro-propane	1,1,2-Trichloro-propane	1,2-Dichloro-benzene	Di-n-Octyl phthalate	Beta-BHC	Gamma-BHC (Lindane)
HLA-046	---	---	---	10.0 U	---	---	10000.0 U	---	---
HLA-068	---	10.0 U	---	10.0 U	---	---	10000.0 U	---	---
HLA-134	---	---	---	10.0 U	---	---	10000.0 U	---	---
HLA-143	---	---	---	10.0 U	---	---	10000.0 U	---	---
HLA-144	---	---	---	10.0 U	---	---	10000.0 U	---	---
HLA-145	---	---	---	10.0 U	---	---	10000.0 U	---	---
HLA-150	---	---	---	10.0 U	---	---	10000.0 U	---	---
HLA-163	---	---	---	10.0 U	---	---	10000.0 U	---	---
HLA-428	---	---	---	10.0 U	---	---	10000.0 U	---	---

Location	Heptachlor	Aldrin	Heptachlor Epoxide	Butylbenzyl phthalate	Diethyl phthalate	Dieldrin	Trichloro-ethylene	1,2-trans-Chloroethylene	Tetrachloro-ethylene
HLA-046	---	---	---	---	---	---	700.0	---	---
HLA-068	---	---	---	---	---	---	10.0 U	---	2200.0
HLA-134	---	---	---	---	---	---	10.0 U	---	---
HLA-143	---	---	---	---	---	---	3700.0	---	1700.0
HLA-144	---	---	---	---	---	---	1300.0	---	600.0
HLA-145	---	---	---	---	---	---	10.0 U	---	---
HLA-150	---	---	---	---	---	---	10.0 U	---	---
HLA-163	---	---	---	---	---	---	10.0 U	---	---
HLA-428	---	---	---	---	---	---	10.0 U	---	290.0

Location	Tetrachloro-ethene	Pentachloro-phenol	1,2-Dichloro-ethene	Chrysene	Chloro-methane	1,4-Dichloro-benzene	1,2,4-Tri-chlorobenzene	Benzo(g,h,i) Perylene	Benzo(b) Fluoranthene
HLA-046	10.0 U	---	10.0 U	---	---	---	---	---	---
HLA-068	10.0 U	---	10.0 U	---	---	---	---	---	---
HLA-134	10.0 U	---	10.0 U	---	---	---	---	---	---
HLA-143	10.0 U	---	10.0 U	---	---	---	---	---	---
HLA-144	10.0 U	---	10.0 U	---	---	---	---	---	---
HLA-145	10.0 U	---	10.0 U	---	---	---	---	---	---
HLA-150	10.0 U	---	10.0 U	---	---	---	---	---	---
HLA-163	10.0 U	---	10.0 U	---	---	---	---	---	---
HLA-428	10.0 U	---	10.0 U	---	---	---	---	---	---

Table C-16
PURITY OIL--HARDING LAWSON DATA
SHALLOW BORING SAMPLES: INORGANIC ANALYSIS RESULTS
units are in mg/kg (ppm)

Location	Depth	Aluminum	Antimony	Arsensic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt
B1-01	2.5 - 4.5	---	---	---	---	---	---	---	---	---
B1-04	5.0 - 6.5	---	---	2.7	---	0.10 U	7.30	---	58.0	---
B1-04	5.0 - 6.5	---	---	---	---	---	---	---	---	---
B1-07	10.0 - 11.5	---	---	---	---	---	---	---	---	---
B1-10	15.0 - 16.5	---	---	---	---	---	---	---	---	---
B1-15	20.0 - 21.5	---	---	---	---	---	---	---	---	---
B1-16	25.0 - 26.5	---	---	---	---	---	---	---	---	---
B1-17	30.0 - 31.5	---	---	---	---	---	---	---	---	---
B1-18	35.0 - 36.5	---	---	---	---	---	---	---	---	---
B1-19	40.0 - 41.5	---	---	2.8	---	0.10 U	0.90	---	4.3	---
B1-19	40.0 - 41.5	---	---	---	---	---	---	---	---	---
B1-20	45.0 - 46.5	---	---	---	---	---	---	---	---	---
B2-04	5.0 - 6.5	---	---	16.0	---	0.30	5.30	---	32.0	---
B2-04	5.0 - 6.5	---	---	---	---	---	---	---	---	---
B2-07	10.0 - 11.5	---	---	---	---	---	---	---	---	---
B2-10	15.0 - 16.5	---	---	5.5	---	0.10 U	1.10	---	6.9	---
B2-10	15.0 - 16.5	---	---	---	---	---	---	---	---	---
B2-16	25.0 - 26.5	---	---	---	---	---	---	---	---	---
B2-18	35.0 - 36.5	---	---	---	---	---	---	---	---	---
B2-20	45.0 - 46.5	---	---	4.6	---	0.10 U	1.20	---	7.5	---
B2-20	45.0 - 46.5	---	---	---	---	---	---	---	---	---
B3-05	7.5 - 9.0	---	---	---	---	---	---	---	---	---
B3-07	10.0 - 11.5	---	---	---	---	---	---	---	---	---
B3-09	12.5 - 15.0	---	---	---	---	---	---	---	---	---
B3-11	17.5 - 19.0	---	---	5.8	---	0.10 U	1.20	---	12.0	---
B3-11	17.5 - 19.0	---	---	---	---	---	---	---	---	---
B3-16	25.0 - 26.5	---	---	---	---	---	---	---	---	---
B3-18	35.0 - 36.5	---	---	---	---	---	---	---	---	---
B3-20	45.0 - 46.5	---	---	3.4	---	0.30	2.80	---	11.0	---
B3-20	45.0 - 46.5	---	---	---	---	---	---	---	---	---
B4-05	7.5 - 9.0	---	---	3.8	---	0.50	2.00	---	9.9	---
B4-05	7.5 - 9.0	---	---	---	---	---	---	---	---	---
B4-07	10.0 - 11.5	---	---	---	---	---	---	---	---	---
B4-10	15.0 - 16.5	---	---	---	---	---	---	---	---	---
B4-16	25.0 - 26.5	---	---	---	---	---	---	---	---	---
B4-18	35.0 - 36.5	---	---	---	---	---	---	---	---	---
B4-20	45.0 - 46.5	---	---	3.3	---	0.10 U	0.80	---	3.9	---
B4-20	45.0 - 46.5	---	---	---	---	---	---	---	---	---
B5-05	7.5 - 9.0	---	---	5.3	---	0.50	6.60	---	36.0	---
B5-05	7.5 - 9.0	---	---	---	---	---	---	---	---	---
B5-07	10.0 - 11.5	---	---	---	---	---	---	---	---	---
B5-10	15.0 - 16.5	---	---	7.8	---	0.10 U	1.90	---	9.7	---
B5-10	15.0 - 16.5	---	---	---	---	---	---	---	---	---

Table C-16
(Continued)

Location	Depth	Aluminum	Antimony	Arsensic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt
B5-15	20.0 - 21.5	---	---	---	---	---	---	---	---	---
B5-16	25.0 - 26.5	---	---	---	---	---	---	---	---	---
B5-18	35.0 - 36.5	---	---	---	---	---	---	---	---	---
B5-20	45.0 - 46.5	---	---	5.9	---	0.10 U	1.80	---	17.0	---
B5-20	45.0 - 46.5	---	---	---	---	---	---	---	---	---
B6-01	2.5 - 4.0	---	---	5.0	---	0.10 U	4.90	---	13.0	---
B6-01	2.5 - 4.0	---	---	---	---	---	---	---	---	---
B6-04	5.0 - 6.5	---	---	---	---	---	---	---	---	---
B6-07	10.0 - 11.5	---	---	---	---	---	---	---	---	---
B6-08	12.5 - 14.0	---	---	---	---	---	---	---	---	---
B6-14	20.0 - 21.0	---	---	3.3	---	0.10 U	0.80	---	6.3	---
B6-14	20.0 - 21.0	---	---	---	---	---	---	---	---	---
B6-16	25.0 - 26.5	---	---	---	---	---	---	---	---	---
B6-17	30.0 - 31.5	---	---	---	---	---	---	---	---	---
B6-18	35.0 - 36.5	---	---	4.4	---	0.10 U	1.40	---	6.7	---
B6-18	35.0 - 36.5	---	---	---	---	---	---	---	---	---
B6-19	40.0 - 41.5	---	---	---	---	---	---	---	---	---
B6-20	45.0 - 46.5	---	---	---	---	---	---	---	---	---
B7-01	2.5 - 4.0	---	---	4.5	---	0.50	4.90	---	12.0	---
B7-01	2.5 - 4.0	---	---	---	---	---	---	---	---	---
B7-05	7.5 - 9.0	---	---	---	---	---	---	---	---	---
B8-04	5.0 - 6.5	---	---	3.5	---	0.10 U	4.30	---	24.0	---
B8-04	5.0 - 6.5	---	---	---	---	---	---	---	---	---
B8-11	17.5 - 19.0	---	---	---	---	---	---	---	---	---
B9-01	2.5 - 4.0	---	---	4.3	---	0.10 U	2.60	---	15.0	---
B9-01	2.5 - 4.0	---	---	---	---	---	---	---	---	---
B9-05	7.5 - 9.0	---	---	---	---	---	---	---	---	---
B10-01	2.5 - 4.0	---	---	8.6	---	0.20	6.70	---	37.0	---
B10-01	2.5 - 4.0	---	---	---	---	---	---	---	---	---
B10-07	10.0 - 11.5	---	---	---	---	---	---	---	---	---
B10-10	15.0 - 16.5	---	---	---	---	---	---	---	---	---
B11-01	2.5 - 4.0	---	---	3.3	---	0.10 U	3.10	---	14.0	---
B11-01	2.5 - 4.0	---	---	---	---	---	---	---	---	---
B11-10	15.0 - 16.5	---	---	---	---	---	---	---	---	---
B12-01	2.5 - 4.0	---	---	3.6	---	0.50	6.40	---	15.0	---
B12-01	2.5 - 4.0	---	---	---	---	---	---	---	---	---
B12-07	10.0 - 11.5	---	---	---	---	---	---	---	---	---
B12-15	20.0 - 21.5	---	---	---	---	---	---	---	---	---
B13-04	5.0 - 6.5	---	---	3.3	---	0.30	6.80	---	65.0	---
B13-04	5.0 - 6.5	---	---	---	---	---	---	---	---	---
B13-06	10.0 - 11.4	---	---	---	---	---	---	---	---	---
B13-12	20.0 - 20.7	---	---	---	---	---	---	---	---	---
B14-04	5.0 - 6.5	---	---	3.8	---	0.20	3.60	---	15.0	---
B14-04	5.0 - 6.5	---	---	---	---	---	---	---	---	---
B14-07	10.0 - 11.5	---	---	---	---	---	---	---	---	---
B15-04	5.0 - 6.5	---	---	---	---	---	---	---	---	---
B15-06	10.0 - 11.5	---	---	8.2	---	0.30	22.00	---	14.0	---
B15-07	10.0 - 11.5	---	---	---	---	---	---	---	---	---
B15-10	15.0 - 16.5	---	---	---	---	---	---	---	---	---

Table C-16
(Continued)

Location	Depth	Aluminum	Antimony	Arsensic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt
B16-03	5.0 - 6.3	---	---	4.6	---	0.50	9.50	---	41.0	---
B16-03	5.0 - 6.3	---	---	---	---	---	---	---	---	---
B16-07	10.0 - 11.5	---	---	---	---	---	---	---	---	---
B16-15	20.0 - 21.5	---	---	---	---	---	---	---	---	---
B17-05	7.5 - 9.0	---	---	4.0	---	0.40	3.60	---	14.0	---
B17-05	7.5 - 9.0	---	---	---	---	---	---	---	---	---
B17-10	15.0 - 16.5	---	---	---	---	---	---	---	---	---
B18-04	5.0 - 6.5	---	---	1.8	---	0.40	12.00	---	41.0	---
B18-04	5.0 - 6.5	---	---	---	---	---	---	---	---	---
B18-07	10.0 - 11.5	---	---	---	---	---	---	---	---	---
B18-11	17.5 - 19.0	---	---	---	---	---	---	---	---	---
B19-04	5.0 - 6.5	---	---	1.9	---	0.10 U	7.80	---	26.0	---
B19-04	5.0 - 6.5	---	---	---	---	---	---	---	---	---
B19-07	10.0 - 11.5	---	---	---	---	---	---	---	---	---
B19-13	20.0 - 20.8	---	---	---	---	---	---	---	---	---
B20-01	2.5 - 4.0	---	---	3.7	---	0.50	4.00	---	9.9	---
B20-01	2.5 - 4.0	---	---	---	---	---	---	---	---	---
B20-07	10.0 - 11.5	---	---	---	---	---	---	---	---	---
B20-15	20.0 - 21.5	---	---	2.1	---	0.10 U	1.50	---	6.0	---
B20-15	20.0 - 21.5	---	---	---	---	---	---	---	---	---
B20-17	30.0 - 31.5	---	---	---	---	---	---	---	---	---
B20-19	40.0 - 41.5	---	---	3.2	---	0.10 U	1.70	---	9.5	---
B20-19	40.0 - 41.5	---	---	---	---	---	---	---	---	---
B20-20	45.0 - 46.5	---	---	---	---	---	---	---	---	---
B21-04	5.0 - 6.5	---	---	---	---	---	---	---	---	---
B21-05	7.5 - 9.0	---	---	---	---	---	---	---	---	---
B21-05 (D8)	7.5 - 9.0	---	---	---	---	---	---	---	---	---
B21-07	10.0 - 11.5	---	---	5.2	---	0.10 U	4.60	---	28.0	---
B21-07	10.0 - 11.5	---	---	---	---	---	---	---	---	---
B21-08	12.5 - 14.0	---	3.0 U	6.0 U	27.0	0.10 U	0.20 U	1200 *	4.7	3.00
B21-10	15.0 - 16.5	---	3.0 U	11.0	82.0	0.10 U	0.20 U	1800	7.0	6.90
B21-15	20.0 - 21.5	---	3.0 U	6.0 U	36.0	0.10 U	0.20 U	750	7.0	3.70
B21-16	25.0 - 26.5	---	3.0 U	6.0 U	41.0	0.10 U	0.20 U	1300	5.9	3.00
B21-17	30.0 - 31.5	---	3.0 U	6.0 U	23.0	0.10 U	0.20 U	1010	0.7	2.90
B22-01	2.5 - 4.0	---	3.0 U	6.0 U	520.0	0.10 U	1.00	5500	15.0	2.70
B22-05	7.5 - 9.0	---	---	25.0	---	0.10 U	72.00	---	97.0	---
B22-07	10.0 - 11.5	---	3.0 U	9.0	47.0	0.10 U	0.20 U	2100	29.0	5.00
B22-08	12.5 - 14.0	---	3.0 U	6.0 U	31.0	0.10 U	0.20 U	2000	16.0	4.00
B22-10	15.0 - 16.5	---	3.0 U	6.0 U	28.0	0.10 U	0.20 U	1700	5.0	2.80
B22-15	20.0 - 21.5	---	3.0 U	8.7	39.0	0.10 U	0.20 U	1200	7.0	3.00
B22-16	25.0 - 26.5	---	3.0 U	6.0 U	54.0	0.10 U	0.20 U	11700	3.6	3.90
B22-17	30.0 - 31.5	---	3.0 U	6.0	57.0	0.10 U	0.20 U	14100	4.7	3.00
B23-01	2.5 - 4.0	---	3.0 U	6.0 U	54.0	0.10 U	0.20 U	2030	5.5	3.00
B23-08	12.5 - 14.0	---	---	7.5	---	0.10 U	10.00	---	18.0	---
B23-08 (D4)	12.5 - 14.0	---	---	2.0	---	0.10 U	7.80	---	7.3	---
B23-10	15.0 - 16.5	---	3.0 U	13.0	67.0	0.10 U	0.40	1800	3.6	4.70
B23-15	20.0 - 21.5	---	3.0 U	9.0	49.0	0.10 U	0.20 U	4000	11.0	4.50
B23-16	25.0 - 26.5	---	3.0 U	6.0 U	40.0	0.10 U	0.20 U	1800	3.0	4.50
B23-17	30.0 - 31.5	---	3.0 U	6.0 U	38.0	0.10 U	0.20 U	1320	1.7	4.50

Table C-16
(Continued)

Location	Depth	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Molybdenum	Nickel	Potassium
B16-03	5.0 - 6.3	86.0	---	5700.0 C	---	---	0.10 U	---	17.0	---
B16-03	5.0 - 6.3	---	---	10000.0 B	---	---	---	---	---	---
B16-07	10.0 - 11.5	---	---	55.0 B	---	---	---	---	---	---
B16-15	20.0 - 21.5	---	---	3.0 B	---	---	---	---	---	---
B17-05	7.5 - 9.0	12.0	---	23.0 C	---	---	0.05 U	---	6.6	---
B17-05	7.5 - 9.0	---	---	6.4 B	---	---	---	---	---	---
B17-10	15.0 - 16.5	---	---	11000.0 B	---	---	---	---	---	---
B18-04	5.0 - 6.5	140.0	---	350.0 C	---	---	0.10 U	---	12.0	---
B18-04	5.0 - 6.5	---	---	17000.0 B	---	---	---	---	---	---
B18-07	10.0 - 11.5	---	---	3.2 B	---	---	---	---	---	---
B18-11	17.5 - 19.0	---	---	3.3 B	---	---	---	---	---	---
B19-04	5.0 - 6.5	160.0	---	1900.0 C	---	---	0.08 U	---	7.2	---
B19-04	5.0 - 6.5	---	---	70.0 B	---	---	---	---	---	---
B19-07	10.0 - 11.5	---	---	2.1 B	---	---	---	---	---	---
B19-13	20.0 - 20.8	---	---	3.2 B	---	---	---	---	---	---
B20-01	2.5 - 4.0	12.0	---	29.0 C	---	---	0.06 U	---	13.0	---
B20-01	2.5 - 4.0	---	---	70.0 B	---	---	---	---	---	---
B20-07	10.0 - 11.5	---	---	3.7 B	---	---	---	---	---	---
B20-15	20.0 - 21.5	5.1	---	10.0 UC	---	---	0.05 U	---	14.0	---
B20-15	20.0 - 21.5	---	---	6.7 B	---	---	---	---	---	---
B20-17	30.0 - 31.5	---	---	2.7 B	---	---	---	---	---	---
B20-19	40.0 - 41.5	7.8	---	10.0 UC	---	---	0.04 U	---	17.0	---
B20-19	40.0 - 41.5	---	---	1.2 B	---	---	---	---	---	---
B20-20	45.0 - 46.5	---	---	1.8 B	---	---	---	---	---	---
B21-04	5.0 - 6.5	---	---	1900.0 B	---	---	---	---	---	---
B21-05	7.5 - 9.0	---	---	970.0 B	---	---	---	---	---	---
B21-05 (D8)	7.5 - 9.0	---	---	570.0 B	---	---	---	---	---	---
B21-07	10.0 - 11.5	14.0	---	92.0 C	---	---	0.10 U	---	38.0	---
B21-07	10.0 - 11.5	---	---	10.0 UB	---	---	---	---	---	---
B21-08	12.5 - 14.0	3.1	---	10.0 UB	2020.0	---	---	0.3 U	9.7	---
B21-10	15.0 - 16.5	6.5	---	10.0 UB	5900.0	---	---	0.3 U	11.0	---
B21-15	20.0 - 21.5	3.8	---	10.0 UB	2060.0	---	---	0.3 U	3.0	---
B21016	25.0 - 26.5	2.5	---	10.0 UB	3000.0	---	---	0.3 U	4.5	---
B21-17	30.0 - 31.5	1.7	---	10.0 UB	2300.0	---	---	0.3 U	1.5	---
B22-01	2.5 - 4.0	30.0	---	450.0 B	1940.0	---	---	0.3 U	7.4	---
B22-05	7.5 - 9.0	160.0	---	8200.0 C	---	---	0.09 U	---	56.0	---
B22-07	10.0 - 11.5	4.2	---	10.0 UB	3300.0	---	---	0.3 U	28.0	---
B22-08	12.5 - 14.0	2.4	---	10.0 UB	3400.0	---	---	0.3 U	22.0	---
B22-10	15.0 - 16.5	3.8	---	10.0 UB	2400.0	---	---	0.3 U	5.4	---
B22-15	20.0 - 21.5	1.9	---	10.0 UB	3100.0	---	---	0.3 U	3.3	---
B22-16	25.0 - 26.5	2.2	---	10.0 UB	4500.0	---	---	0.3 U	4.4	---
B22-17	30.0 - 31.5	2.8	---	10.0 UB	4500.0	---	---	0.3 U	4.7	---
B23-01	2.5 - 4.0	6.4	---	10.0 UB	2510.0	---	---	0.3 U	4.0	---
B23-08	12.5 - 14.0	17.0	---	110.0 C	---	---	0.10 U	---	15.0	---
B23-08 (D4)	12.5 - 14.0	5.8	---	72.0 *C	---	---	0.05 U*	---	4.4	---
B23-10	15.0 - 16.5	8.7	---	10.0 B	4200.0	---	---	0.3 U	1.4	---
B23-15	20.0 - 21.5	2.7	---	10.0 UB	2700.0	---	---	0.3 U	6.0	---
B23-16	25.0 - 26.5	1.2	---	10.0 UB	3500.0	---	---	0.3 U	4.7	---
B23-17	30.0 - 31.5	2.8	---	10.0 UB	3700.0	---	---	0.3 U	4.7	---

Table C-16
(Continued)

Location	Depth	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Molybdenum	Nickel	Potassium
B5-20	45.0 - 46.5	12.0	---	1100.0 C	---	---	0.05 U	---	21.0	---
B5-20	45.0 - 46.5	---	---	13.0 B	---	---	---	---	---	---
B6-01	2.5 - 4.0	29.0	---	180.0 C	---	---	0.05 U	---	9.1	---
B6-01	2.5 - 4.0	---	---	140.0 B	---	---	---	---	---	---
B6-04	5.0 - 6.5	---	---	13.0 B	---	---	---	---	---	---
B6-07	10.0 - 11.5	---	---	40.0 B	---	---	---	---	---	---
B6-08	12.5 - 14.0	---	---	13.0 B	---	---	---	---	---	---
B6-14	20.0 - 21.0	6.8	---	10.0 U C	---	---	0.05 U	---	12.0	---
B6-14	20.0 - 21.0	---	---	16.0 B	---	---	---	---	---	---
B6-16	25.0 - 26.5	---	---	6.2 B	---	---	---	---	---	---
B6-17	30.0 - 31.5	---	---	23.0	---	---	---	---	---	---
B6-18	35.0 - 36.5	12.0	---	10.0 U C	---	---	0.05 U	---	11.0	---
B6-18	35.0 - 36.5	---	---	34.0 B	---	---	---	---	---	---
B6-19	40.0 - 41.5	---	---	8.5 B	---	---	---	---	---	---
B6-20	45.0 - 46.5	---	---	5.2 B	---	---	---	---	---	---
B7-01	2.5 - 4.0	20.0	---	120.0 C	---	---	0.06 U	---	22.0	---
B7-01	2.5 - 4.0	---	---	845.0 B	---	---	---	---	---	---
B7-05	7.5 - 9.0	---	---	20.0 B	---	---	---	---	---	---
B8-04	5.0 - 6.5	44.0	---	720.0 C	---	---	0.10 U	---	19.0	---
B8-04	5.0 - 6.5	---	---	660.0 B	---	---	---	---	---	---
B8-11	17.5 - 19.0	---	---	43.0 B	---	---	---	---	---	---
B9-01	2.5 - 4.0	14.0	---	33.0 C	---	---	0.06 U	---	34.0	---
B9-01	2.5 - 4.0	---	---	75.0 B	---	---	---	---	---	---
B9-05	7.5 - 9.0	---	---	9.9 B	---	---	---	---	---	---
B10-01	2.5 - 4.0	240.0	---	1400.0 C	---	---	0.08 U	---	13.0	---
B10-01	2.5 - 4.0	---	---	11000.0 B	---	---	---	---	---	---
B10-07	10.0 - 11.5	---	---	11.0 B	---	---	---	---	---	---
B10-10	15.0 - 16.5	---	---	8.2 B	---	---	---	---	---	---
B11-01	2.5 - 4.0	13.0	---	54.0 C	---	---	0.10 U	---	21.0	---
B11-01	2.5 - 4.0	---	---	39.0 B	---	---	---	---	---	---
B11-10	15.0 - 16.5	---	---	4.1 B	---	---	---	---	---	---
B12-01	2.5 - 4.0	23.0	---	740.0 C	---	---	0.07 U	---	4.9	---
B12-01	2.5 - 4.0	---	---	1300.0 B	---	---	---	---	---	---
B12-07	10.0 - 11.5	---	---	25.0 B	---	---	---	---	---	---
B12-15	20.0 - 21.5	---	---	3.8 B	---	---	---	---	---	---
B13-04	5.0 - 6.5	37.0	---	4200.0 C	---	---	0.09 U	---	53.0	---
B13-04	5.0 - 6.5	---	---	2300.0 B	---	---	---	---	---	---
B13-06	10.0 - 11.4	---	---	100.0 B	---	---	---	---	---	---
B13-12	20.0 - 20.7	---	---	17.0 B	---	---	---	---	---	---
B14-04	5.0 - 6.5	33.0	---	4400.0 C	---	---	0.10 U	---	6.4	---
B14-04	5.0 - 6.5	---	---	6500.0 B	---	---	---	---	---	---
B14-07	10.0 - 11.5	---	---	170.0 B	---	---	---	---	---	---
B15-04	5.0 - 6.5	---	---	3870.0 B	---	---	---	---	---	---
B15-06	10.0 - 11.5	190.0	---	9000.0 C	---	---	0.10 U	---	18.0	---
B15-07	10.0 - 11.5	---	---	11000.0 B	---	---	---	---	---	---
B15-10	15.0 - 16.5	---	---	6.2 B	---	---	---	---	---	---

RD/R63/013-4.1

Table C-16
(Continued)

Location	Depth	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Molybdenum	Nickel	Potassium
B1-01	2.5 - 4.5	---	---	5.2 B	---	---	---	---	---	---
B1-04	5.0 - 6.5	62.0	---	10.0 U C	---	---	0.05 U	---	120.0	---
B1-04	5.0 - 6.5	---	---	8.4 B	---	---	---	---	---	---
B1-07	10.0 - 11.5	---	---	14.0 B	---	---	---	---	---	---
B1-10	15.0 - 16.5	---	---	12.0 B	---	---	---	---	---	---
B1-15	20.0 - 21.5	---	---	3.2 B	---	---	---	---	---	---
B1-16	25.0 - 26.5	---	---	5.3 B	---	---	---	---	---	---
B1-17	30.0 - 31.5	---	---	3.0 B	---	---	---	---	---	---
B1-18	35.0 - 36.5	---	---	4.6 B	---	---	---	---	---	---
B1-19	40.0 - 41.5	5.8	---	10.0 U	---	---	0.09 U	---	5.0	---
B1-19	40.0 - 41.5	---	---	7.1 B	---	---	---	---	---	---
B1-20	45.0 - 46.5	---	---	7.1 B	---	---	---	---	---	---
B2-04	5.0 - 6.5	69.0	---	6300.0	---	---	0.10 U	---	30.0	---
B2-04	5.0 - 6.5	---	---	330.0 B	---	---	---	---	---	---
B2-07	10.0 - 11.5	---	---	82.0 B	---	---	---	---	---	---
B2-10	15.0 - 16.5	15.0	---	46.0 C	---	---	--- U	---	19.0	---
B2-10	15.0 - 16.5	---	---	56.0 B	---	---	---	---	---	---
B2-16	25.0 - 26.5	---	---	33.0 B	---	---	---	---	---	---
B2-18	35.0 - 36.5	---	---	9.2 B	---	---	---	---	---	---
B2-20	45.0 - 46.5	8.7	---	10.0 U C	---	---	0.05 U	---	10.0	---
B2-20	45.0 - 46.5	---	---	7.2 B	---	---	---	---	---	---
B3-05	7.5 - 9.0	---	---	250.0 B	---	---	---	---	---	---
B3-07	10.0 - 11.5	---	---	35.0 B	---	---	---	---	---	---
B3-09	12.5 - 15.0	---	---	22.0 B	---	---	---	---	---	---
B3-11	17.5 - 19.0	12.0	---	39.0 C	---	---	0.05 U	---	17.0	---
B3-11	17.5 - 19.0	---	---	18.0 B	---	---	---	---	---	---
B3-16	25.0 - 26.5	---	---	5.6 B	---	---	---	---	---	---
B3-18	35.0 - 36.5	---	---	9.9 B	---	---	---	---	---	---
B3-20	45.0 - 46.5	19.0	---	830.0 C	---	---	0.05 U	---	16.0	---
B3-20	45.0 - 46.5	---	---	4.7 B	---	---	---	---	---	---
B4-05	7.5 - 9.0	21.0	---	610.0 C	---	---	0.08 U	---	5.0	---
B4-05	7.5 - 9.0	---	---	160.0 B	---	---	---	---	---	---
B4-07	10.0 - 11.5	---	---	31.0 B	---	---	---	---	---	---
B4-10	15.0 - 16.5	---	---	6.1 B	---	---	---	---	---	---
B4-16	25.0 - 26.5	---	---	5.1 B	---	---	---	---	---	---
B4-18	35.0 - 36.5	---	---	4.0 B	---	---	---	---	---	---
B4-20	45.0 - 46.5	8.2	---	10.0 U C	---	---	0.05 U	---	4.6	---
B4-20	45.0 - 46.5	---	---	4.3 B	---	---	---	---	---	---
B5-05	7.5 - 9.0	20.0	---	590.0 C	---	---	0.10 U	---	17.0	---
B5-05	7.5 - 9.0	---	---	980.0 B	---	---	---	---	---	---
B5-07	10.0 - 11.5	---	---	55.0 B	---	---	---	---	---	---
B5-10	15.0 - 16.5	15.0	---	10.0 U C	---	---	0.05 U	---	17.0	---
B5-10	15.0 - 16.5	---	---	25.0 B	---	---	---	---	---	---
B5-15	20.0 - 21.5	---	---	18.0 B	---	---	---	---	---	---
B5-16	25.0 - 26.5	---	---	5.6 B	---	---	---	---	---	---
B5-18	35.0 - 36.5	---	---	8.1 B	---	---	---	---	---	---

Table C-16
(Continued)

Location	Depth	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Cyanide	Percent Solids	Oil and Grease
B1-01	2.5 - 4.5	---	---	---	---	---	---	---	---	34000.0 B
B1-04	5.0 - 6.5	---	9.9	---	0.1 U	---	260.0	---	---	27000.0
B1-04	5.0 - 6.5	---	---	---	---	---	---	---	---	27000.0 B
B1-07	10.0 - 11.5	---	---	---	---	---	---	---	---	920.0 B
B1-10	15.0 - 16.5	---	---	---	---	---	---	---	---	3500.0 B
B1-15	20.0 - 21.5	---	---	---	---	---	---	---	---	3200.0 B
B1-16	25.0 - 26.5	---	---	---	---	---	---	---	---	24000.0 B
B1-17	30.0 - 31.5	---	---	---	---	---	---	---	---	1100.0 B
B1-18	35.0 - 36.5	---	---	---	---	---	---	---	---	1900.0 B
B1-19	40.0 - 41.5	---	1.3	---	0.1 U	---	23.0	---	---	3600.0
B1-19	40.0 - 41.5	---	---	---	---	---	---	---	---	3600.0 B
B1-20	45.0 - 46.5	---	---	---	---	---	---	---	---	9300.0 B
B2-04	5.0 - 6.5	---	9.7	---	0.1 U	---	480.0	---	---	180000.0
B2-04	5.0 - 6.5	---	---	---	---	---	---	---	---	180000.0 B
B2-07	10.0 - 11.5	---	---	---	---	---	---	---	---	67000.0 B
B2-10	15.0 - 16.5	---	0.2	---	0.2	---	65.0	---	---	190000.0
B2-10	15.0 - 16.5	---	---	---	---	---	---	---	---	19000.0 B
B2-16	25.0 - 26.5	---	---	---	---	---	---	---	---	930.0 B
B2-18	35.0 - 36.5	---	---	---	---	---	---	---	---	3600.0 B
B2-20	45.0 - 46.5	---	1.7	---	0.1 U	---	31.0	---	---	1000.0
B2-20	45.0 - 46.5	---	---	---	---	---	---	---	---	1000.0 B
B3-05	7.5 - 9.0	---	---	---	---	---	---	---	---	26500.0 B
B3-07	10.0 - 11.5	---	---	---	---	---	---	---	---	81000.0 B
B3-09	12.5 - 15.0	---	---	---	---	---	---	---	---	6900.0 B
B3-11	17.5 - 19.0	---	1.3	---	0.1 U	---	27.0	---	---	860.0
B3-11	17.5 - 19.0	---	---	---	---	---	---	---	---	860.0 B
B3-16	25.0 - 26.5	---	---	---	---	---	---	---	---	2600.0 B
B3-18	35.0 - 36.5	---	---	---	---	---	---	---	---	2400.0 B
B3-20	45.0 - 46.5	---	8.1	---	0.1 U	---	89.0	---	---	24000.0
B3-20	45.0 - 46.5	---	---	---	---	---	---	---	---	24000.0 B
B4-05	7.5 - 9.0	---	6.5	---	0.1 U	---	90.0	---	---	97000.0
B4-05	7.5 - 9.0	---	---	---	---	---	---	---	---	97000.0 B
B4-07	10.0 - 11.5	---	---	---	---	---	---	---	---	43000.0 B
B4-10	15.0 - 16.5	---	---	---	---	---	---	---	---	3100.0 B
B4-16	25.0 - 26.5	---	---	---	---	---	---	---	---	3500.0 B
B4-18	35.0 - 36.5	---	---	---	---	---	---	---	---	1300.0 B
B4-20	45.0 - 46.5	---	1.2	---	0.1 U	---	21.0	---	---	2100.0
B4-20	45.0 - 46.5	---	---	---	---	---	---	---	---	2100.0 B
B5-05	7.5 - 9.0	---	7.5	---	0.1 U	---	390.0	---	---	39000.0
B5-05	7.5 - 9.0	---	---	---	---	---	---	---	---	39000.0 B
B5-07	10.0 - 11.5	---	---	---	---	---	---	---	---	20000.0 B
B5-10	15.0 - 16.5	---	1.7	---	0.2	---	66.0	---	---	6800.0
B5-10	15.0 - 16.5	---	---	---	---	---	---	---	---	6800.0 B
B5-15	20.0 - 21.5	---	---	---	---	---	---	---	---	3400.0 B
B5-16	25.0 - 26.5	---	---	---	---	---	---	---	---	810.0 B
B5-18	35.0 - 36.5	---	---	---	---	---	---	---	---	1900.0 B

Table C-16
(Continued)

Location	Depth	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Cyanide	Percent Solids	Oil and Grease
B5-20	45.0 - 46.5	---	1.5	---	0.1 U	---	36.0	---	---	6500.0
B5-20	45.0 - 46.5	---	---	---	---	---	---	---	---	6500.0 B
B6-01	2.5 - 4.0	---	11.0	---	0.1 U	---	41.0	---	---	72000.0
B6-01	2.5 - 4.0	---	---	---	---	---	---	---	---	72000.0 B
B6-04	5.0 - 6.5	---	---	---	---	---	---	---	---	1800.0 B
B6-07	10.0 - 11.5	---	---	---	---	---	---	---	---	2900.0 B
B6-08	12.5 - 14.0	---	---	---	---	---	---	---	---	680.0 B
B6-14	20.0 - 21.0	---	1.5	---	0.1 U	---	28.0	---	---	2200.0
B6-14	20.0 - 21.0	---	---	---	---	---	---	---	---	2200.0 B
B6-16	25.0 - 26.5	---	---	---	---	---	---	---	---	2500.0 B
B6-17	30.0 - 31.5	---	---	---	---	---	---	---	---	6000.0
B6-18	35.0 - 36.5	---	1.0	---	0.1	---	42.0	---	---	4100.0
B6-18	35.0 - 36.5	---	---	---	---	---	---	---	---	4100.0 B
B6-19	40.0 - 41.5	---	---	---	---	---	---	---	---	3300.0 B
B6-20	45.0 - 46.5	---	---	---	---	---	---	---	---	3100.0 B
B7-01	2.5 - 4.0	---	11.0	---	0.1	---	48.0	---	---	90000.0
B7-01	2.5 - 4.0	---	---	---	---	---	---	---	---	90000.0 B
B7-05	7.5 - 9.0	---	---	---	---	---	---	---	---	2700.0 B
B8-04	5.0 - 6.5	---	8.8	---	0.1 U	---	180.0	---	---	51000.0
B8-04	5.0 - 6.5	---	---	---	---	---	---	---	---	51000.0 B
B8-11	17.5 - 19.0	---	---	---	---	---	---	---	---	80.0 B
B9-01	2.5 - 4.0	---	6.5	---	0.1	---	56.0	---	---	46000.0
B9-01	2.5 - 4.0	---	---	---	---	---	---	---	---	46000.0 B
B9-05	7.5 - 9.0	---	---	---	---	---	---	---	---	10000.0 B
B10-01	2.5 - 4.0	---	7.1	---	0.1 U	---	590.0	---	---	150000.0
B10-01	2.5 - 4.0	---	---	---	---	---	---	---	---	150000.0 B
B10-07	10.0 - 11.5	---	---	---	---	---	---	---	---	11000.0 B
B10-10	15.0 - 16.5	---	---	---	---	---	---	---	---	4700.0 B
B11-01	2.5 - 4.0	---	5.3	---	0.1 U	---	27.0	---	---	43000.0
B11-01	2.5 - 4.0	---	---	---	---	---	---	---	---	43000.0 B
B11-10	15.0 - 16.5	---	---	---	---	---	---	---	---	21500.0 B
B12-01	2.5 - 4.0	---	8.6	---	0.1 U	---	75.0	---	---	77000.0
B12-01	2.5 - 4.0	---	---	---	---	---	---	---	---	77000.0 B
B12-07	10.0 - 11.5	---	---	---	---	---	---	---	---	84000.0 B
B12-15	20.0 - 21.5	---	---	---	---	---	---	---	---	18000.0 B
B13-04	5.0 - 6.5	---	8.3	---	0.1 U	---	510.0	---	---	44000.0
B13-04	5.0 - 6.5	---	---	---	---	---	---	---	---	44000.0 B
B13-06	10.0 - 11.4	---	---	---	---	---	---	---	---	46000.0 B
B13-12	20.0 - 20.7	---	---	---	---	---	---	---	---	46000.0 B
B14-04	5.0 - 6.5	---	6.5	---	0.1 U	---	220.0	---	---	270000.0
B14-04	5.0 - 6.5	---	---	---	---	---	---	---	---	270000.0 B
B14-07	10.0 - 11.5	---	---	---	---	---	---	---	---	58000.0 B
B15-04	5.0 - 6.5	---	---	---	---	---	---	---	---	370000.0 B
B15-06	10.0 - 11.5	---	4.5	---	0.1 U	---	210.0	---	---	210000.0
B15-07	10.0 - 11.5	---	---	---	---	---	---	---	---	210000.0 B
B15-10	15.0 - 16.5	---	---	---	---	---	---	---	---	65000.0 B

Table C-16
(Continued)

Location	Depth	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Cyanide	Percent Solids	Oil and Grease
B16-03	5.0 - 6.3	---	4.2	---	0.1 U	---	1900.0	---	---	210000.0
B16-03	5.0 - 6.3	---	---	---	---	---	---	---	---	210000.0 B
B16-07	10.0 - 11.5	---	---	---	---	---	---	---	---	10000.0 B
B16-15	20.0 - 21.5	---	---	---	---	---	---	---	---	5800.0 B
B17-05	7.5 - 9.0	---	6.2	---	0.1 U	---	85.0	---	---	45000.0
B17-05	7.5 - 9.0	---	---	---	---	---	---	---	---	45000.0 B
B17-10	15.0 - 16.5	---	---	---	---	---	---	---	---	2700.0 B
B18-04	5.0 - 6.5	---	7.7	---	0.1 U	---	2200.0	---	---	770000.0
B18-04	5.0 - 6.5	---	---	---	---	---	---	---	---	770000.0 B
B18-07	10.0 - 11.5	---	---	---	---	---	---	---	---	44000.0 B
B18-11	17.5 - 19.0	---	---	---	---	---	---	---	---	4400.0 B
B19-04	5.0 - 6.5	---	7.6	---	0.1 U	---	1100.0	---	---	410000.0
B19-04	5.0 - 6.5	---	---	---	---	---	---	---	---	410000.0 B
B19-07	10.0 - 11.5	---	---	---	---	---	---	---	---	4000.0 B
B19-13	20.0 - 20.8	---	---	---	---	---	---	---	---	2700.0 B
B20-01	2.5 - 4.0	---	4.4	---	0.1 U	---	51.0	---	---	71000.0
B20-01	2.5 - 4.0	---	---	---	---	---	---	---	---	71000.0 B
B20-07	10.0 - 11.5	---	---	---	---	---	---	---	---	30000.0 B
B20-15	20.0 - 21.5	---	0.4	---	0.1 U	---	24.0	---	---	2400.0
B20-15	20.0 - 21.5	---	---	---	---	---	---	---	---	2400.0 B
B20-17	30.0 - 31.5	---	---	---	---	---	---	---	---	1600.0 B
B20-19	40.0 - 41.5	---	1.5	---	0.1	---	33.0	---	---	1400.0
B20-19	40.0 - 41.5	---	---	---	---	---	---	---	---	1400.0 B
B20-20	45.0 - 46.5	---	---	---	---	---	---	---	---	440.0 B
B21-04	5.0 - 6.5	---	---	---	---	---	---	---	---	170000.0 B
B21-05 (D8)	7.5 - 9.0	---	---	---	---	---	---	---	---	55000.0 B
B21-05 (D8)	7.5 - 9.0	---	---	---	---	---	---	---	---	44000.0 B
B21-07	10.0 - 11.5	---	6.7	---	0.1 U	---	800.0	---	---	15000.0
B21-07	10.0 - 11.5	---	---	---	---	---	---	---	---	15000.0 B
B21-08	12.5 - 14.0	8.0	0.2	---	9.0 U	13.0	160.0	---	---	11000.0 B
B21-10	15.0 - 16.5	8.0	0.2	---	9.0 U	25.0	140.0	---	---	15000.0 B
B21-15	20.0 - 21.5	8.0	0.2	---	9.0 U	15.0	11.0	---	---	6800.0 B
B21-16	25.0 - 26.5	8.0	0.2	---	9.0 U	14.0	13.0	---	---	11000.0 B
B21-17	30.0 - 31.5	8.0	0.2	---	9.0 U	9.2	9.9	---	---	100.0 U B
B22-01	2.5 - 4.0	8.0	0.2	---	9.0 U	11.0	180.0	---	---	25000.0 B
B22-05	7.5 - 9.0	---	5.1	---	0.1 U	---	5800.0	---	---	160000.0
B22-07	10.0 - 11.5	8.0	0.2	---	9.0 U	15.0	85.0	---	---	4600.0 B
B22-08	12.5 - 14.0	8.0	0.2	---	9.0 U	16.0	53.0	---	---	100.0 U B
B22-10	15.0 - 16.5	8.0	0.2	---	9.0 U	13.0	27.0	---	---	1500.0 B
B22-15	20.0 - 21.5	8.0	0.2	---	9.0 U	16.0	17.0	---	---	22000.0 B
B22-16	25.0 - 26.5	8.0	0.2	---	9.0 U	12.0	13.0	---	---	100.0 U B
B22-17	30.0 - 31.5	8.0	0.2	---	9.0 U	17.0	14.0	---	---	1100.0 B
B23-01	2.5 - 4.0	8.0	0.2	---	9.0 U	11.0	30.0	---	---	12000.0 B
B23-08 (D4)	12.5 - 14.0	8.0	6.3	---	0.1	---	330.0	---	---	79000.0
B23-08 (D4)	12.5 - 14.0	8.0	0.5	---	0.1	---	430.0	---	---	93000.0
B23-10	15.0 - 16.5	8.0	0.5	---	9.0 U	18.0	62.0	---	---	21000.0 B
B23-15	20.0 - 21.5	8.0	0.2	---	9.0 U	15.0	14.0	---	---	16000.0 B
B23-16	25.0 - 26.5	8.0	0.2	---	9.0 U	15.0	15.0	---	---	500.0 B
B23-17	30.0 - 31.5	8.0	0.2	---	9.0 U	13.0	13.0	---	---	1400.0 B

Table C-17
PURITY OIL--HARDING LAWSON DATA
SHALLOW BORING SAMPLES: ORGANIC COMPOUNDS
units are in µg/kg (ppb)

Location	Depth	Bromoethane	Chlorethane	Methylene Chloride	Acetone	Carbon Disulfide	1,1-Dichloro-ethane	1,2-Dichloro-ethane
B1-04	5.0 - 6.5	---	---	10.0 U	---	---	---	10.0 U
B1-19	40.0 - 41.5	---	---	730.0	---	---	---	10.0 U
B2-04	5.0 - 6.5	---	---	10.0 U	---	---	---	10.0 U
B2-10	15.0 - 16.5	---	---	10.0 U	---	---	---	10.0 U
B3-20	45.0 - 46.5	---	---	4430.0	---	---	---	10.0 U
B4-05	7.5 - 9.0	---	---	10.0 U	---	---	---	10.0 U
B5-05	7.5 - 9.0	---	---	660.0	---	---	---	10.0 U
B7-01	2.5 - 4.0	---	---	160.0	---	---	---	10.0 U
B10-01	2.5 - 4.0	---	---	10.0 U	---	---	---	10.0 U
B11-01	2.5 - 4.0	---	---	10.0 U	---	---	---	10.0 U
B12-01	2.5 - 4.0	---	---	10.0 U	---	---	---	10.0 U
B13-04	5.0 - 6.5	---	---	10.0 U	---	---	---	10.0 U
B14-04	5.0 - 6.5	---	---	180.0	---	---	---	10.0 U
B15-07	10.0 - 11.5	---	---	10.0 U	---	---	---	290.0
B16-03	5.0 - 6.3	---	---	10.0 U	---	---	---	10.0 U
B17-05	7.5 - 9.0	---	---	10.0 U	---	---	---	10.0 U
B18-04	5.0 - 6.5	---	---	10.0 U	---	---	---	10.0 U
B19-04	5.0 - 6.5	---	---	10.0 U	---	---	---	10.0 U
B20-01	2.5 - 4.0	---	---	10.0 U	---	---	---	10.0 U
B20-19	40.0 - 41.5	---	---	10.0 U	---	---	---	10.0 U
B21-07	10.0 - 11.5	---	---	10.0 U	---	---	---	10.0 U
B22-05	7.5 - 9.0	---	---	10.0 U	---	---	---	10.0 U
B23-08	12.5 - 14.0	---	---	10.0 U	---	---	---	10.0 U
B23-08 (D1)	12.5 - 14.0	---	---	10.0 U	---	---	---	10.0 U

Location	Depth	Chloroform	2-Butanone	1,1,1-Tri-chloroethane	Tri-chloroethane	Benzene	4-Methyl-2 Pentanone	2-Hexanone	Tetra-chlorene	1,1,2,2-Tetra-chloroethane
B1-04	5.0 - 6.5	10.0 U	---	10.0 U	---	---	---	---	---	---
B1-19	40.0 - 41.5	10.0 U	---	10.0 U	---	---	---	---	---	---
B2-04	5.0 - 6.5	10.0 U	---	860.0	---	550.0	---	---	---	---
B2-10	15.0 - 16.5	10.0 U	---	10.0 U	---	---	---	---	---	---
B3-20	45.0 - 46.5	10.0 U	---	10.0 U	---	---	---	---	---	---
B4-05	7.5 - 9.0	10.0 U	---	10.0 U	---	---	---	---	---	---
B5-05	7.5 - 9.0	10.0 U	---	82.0	---	150.0	---	---	---	---
B7-01	2.5 - 4.0	10.0 U	---	10.0 U	---	---	---	---	---	---
B10-01	2.5 - 4.0	10.0 U	---	10.0 U	---	---	---	---	---	---
B11-01	2.5 - 4.0	10.0 U	---	10.0 U	---	---	---	---	---	---
B12-01	2.5 - 4.0	10.0 U	---	10.0 U	---	---	---	---	---	---
B13-04	5.0 - 6.5	10.0 U	---	390.0	---	160.0	---	---	---	---
B14-04	5.0 - 6.5	10.0 U	---	10.0 U	---	300.0	---	---	---	---
B15-07	10.0 - 11.5	10.0 U	---	10.0 U	---	1400.0	---	---	---	---
B16-03	5.0 - 6.3	10.0 U	---	10.0 U	---	180.0	---	---	---	---

Table C-17
(Continued)

Location	Depth	Chloroform	2-Butanone	1,1,1-Tri-chloroethane	Tri-chloroethane	Benzene	4-Methyl-2 Pentanone	2-Hexanone	Tetra-chlorene	1,1,2,2-Tetra-chloroethane
B17-05	7.5 - 9.0	10.0 U	---	10.0 U	---	---	---	---	---	---
B18-04	5.0 - 6.5	0.0 U	---	950.0	---	440.0	---	---	---	---
B19-04	5.0 - 6.5	10.0 U	---	190.0	---	140.0	---	---	---	---
B20-01	2.5 - 4.0	10.0 U	---	10.0 U	---	---	---	---	---	---
B20-19	40.0 - 41.5	10.0 U	---	10.0 U	---	---	---	---	---	---
B21-07	10.0 - 11.5	10.0 U	---	10.0 U	---	64.0	---	---	---	---
B22-05	7.5 - 9.0	10.0 U	---	10.0 U	---	760.0	---	---	---	---
B23-08	12.5 - 14.0	61.0	---	10.0 U	---	40.0	---	---	---	---
B23-08 (D1)	12.5 - 14.0	3800.0	---	10.0 U	---	800.0	---	---	---	---

Location	Depth	Toluene	Ethylbenzene	Total Xylenes	Phenol	2-Methylphenol	4-Methylphenol	Isophorone	2,4-Dimethyl-phenol	Benzoic Acid
B1-04	5.0 - 6.5	16.0	12.0	---	---	---	---	---	---	---
B1-19	40.0 - 41.5	10.0 U	10.0 U	---	---	---	---	---	---	---
B2-04	5.0 - 6.5	17600.0	12500.0	---	---	---	---	---	---	---
B2-10	15.0 - 16.5	210.0	190.0	---	---	---	---	---	---	---
B3-20	45.0 - 46.5	10.0 U	10.0 U	---	---	---	---	---	---	---
B4-05	7.5 - 9.0	200.0	160.0	---	---	---	---	---	---	---
B5-05	7.5 - 9.0	3000.0	1000.0	---	---	---	---	---	---	---
B7-01	2.5 - 4.0	10.0 U	10.0 U	---	---	---	---	---	---	---
B10-01	2.5 - 4.0	1700.0	1600.0	---	---	---	---	---	---	---
B11-01	2.5 - 4.0	150.0	97.0	---	---	---	---	---	---	---
B12-01	2.5 - 4.0	10.0 U	630.0	---	---	---	---	---	---	---
B13-04	5.0 - 6.5	4100.0	3700.0	---	---	---	---	---	---	---
B14-04	5.0 - 6.5	890.0	480.0	---	---	---	---	---	---	---
B15-07	10.0 - 11.5	16000.0	10.0 U	---	---	---	---	---	---	---
B16-03	5.0 - 6.3	1600.0	730.0	---	---	---	---	---	---	---
B17-05	7.5 - 9.0	380.0	280.0	---	---	---	---	---	---	---
B18-04	5.0 - 6.5	10.0 U	3000.0	---	---	---	---	---	---	---
B19-04	5.0 - 6.5	2500.0	1900.0	---	---	---	---	---	---	---
B20-01	2.5 - 4.0	160.0	200.0	---	---	---	---	---	---	---
B20-19	40.0 - 41.5	260.0	10.0 U	---	---	---	---	---	---	---
B21-07	10.0 - 11.5	2200.0	1000.0	---	---	---	---	---	---	---
B22-05	7.5 - 9.0	16000.0	12000.0	---	---	---	---	---	---	---
B23-08	12.5 - 14.0	2800.0	2000.0	---	---	---	---	---	---	---
B23-08 (D1)	12.5 - 14.0	14000.0	8400.0	---	---	---	---	---	---	---

Table C-17
PURITY OIL--HARDING LAWSON DATA
SHALLOW BORING SAMPLES: ORGANIC COMPOUNDS
units are in µg/kg (ppb)

Location	Depth	Bromoethane	Chlorethane	Methylene Chloride	Acetone	Carbon Disulfide	1,1-Dichloro-ethane	1,2-Dichloro-ethane
B1-04	5.0 - 6.5	---	---	10.0 U	---	---	---	10.0 U
B1-19	40.0 - 41.5	---	---	730.0	---	---	---	10.0 U
B2-04	5.0 - 6.5	---	---	10.0 U	---	---	---	10.0 U
B2-10	15.0 - 16.5	---	---	10.0 U	---	---	---	10.0 U
B3-20	45.0 - 46.5	---	---	4430.0	---	---	---	10.0 U
B4-05	7.5 - 9.0	---	---	10.0 U	---	---	---	10.0 U
B5-05	7.5 - 9.0	---	---	660.0	---	---	---	10.0 U
B7-01	2.5 - 4.0	---	---	160.0	---	---	---	10.0 U
B10-01	2.5 - 4.0	---	---	10.0 U	---	---	---	10.0 U
B11-01	2.5 - 4.0	---	---	10.0 U	---	---	---	10.0 U
B12-01	2.5 - 4.0	---	---	10.0 U	---	---	---	10.0 U
B13-04	5.0 - 6.5	---	---	10.0 U	---	---	---	10.0 U
B14-04	5.0 - 6.5	---	---	180.0	---	---	---	10.0 U
B15-07	10.0 - 11.5	---	---	10.0 U	---	---	---	290.0
B16-03	5.0 - 6.3	---	---	10.0 U	---	---	---	10.0 U
B17-05	7.5 - 9.0	---	---	10.0 U	---	---	---	10.0 U
B18-04	5.0 - 6.5	---	---	10.0 U	---	---	---	10.0 U
B19-04	5.0 - 6.5	---	---	10.0 U	---	---	---	10.0 U
B20-01	2.5 - 4.0	---	---	10.0 U	---	---	---	10.0 U
B20-19	40.0 - 41.5	---	---	10.0 U	---	---	---	10.0 U
B21-07	10.0 - 11.5	---	---	10.0 U	---	---	---	10.0 U
B22-05	7.5 - 9.0	---	---	10.0 U	---	---	---	10.0 U
B23-08 (D1)	12.5 - 14.0	---	---	10.0 U	---	---	---	10.0 U
B23-08 (D1)	12.5 - 14.0	---	---	10.0 U	---	---	---	10.0 U

Location	Depth	Chloroform	2-Butanone	1,1,1-Tri-chloroethane	Tri-chloroethane	Benzene	4-Methyl-2 Pentanone	2-Hexanone	Tetra-chlorene	1,1,2,2-Tetra-chloroethane
B1-04	5.0 - 6.5	10.0 U	---	10.0 U	---	---	---	---	---	---
B1-19	40.0 - 41.5	10.0 U	---	10.0 U	---	---	---	---	---	---
B2-04	5.0 - 6.5	10.0 U	---	860.0	---	550.0	---	---	---	---
B2-10	15.0 - 16.5	10.0 U	---	10.0 U	---	---	---	---	---	---
B3-20	45.0 - 46.5	10.0 U	---	10.0 U	---	---	---	---	---	---
B4-05	7.5 - 9.0	10.0 U	---	10.0 U	---	---	---	---	---	---
B5-05	7.5 - 9.0	10.0 U	---	82.0	---	150.0	---	---	---	---
B7-01	2.5 - 4.0	10.0 U	---	10.0 U	---	---	---	---	---	---
B10-01	2.5 - 4.0	10.0 U	---	10.0 U	---	---	---	---	---	---
B11-01	2.5 - 4.0	10.0 U	---	10.0 U	---	---	---	---	---	---
B12-01	2.5 - 4.0	10.0 U	---	10.0 U	---	---	---	---	---	---
B13-04	5.0 - 6.5	10.0 U	---	390.0	---	160.0	---	---	---	---
B14-04	5.0 - 6.5	10.0 U	---	10.0 U	---	300.0	---	---	---	---
B15-07	10.0 - 11.5	10.0 U	---	10.0 U	---	1400.0	---	---	---	---
B16-03	5.0 - 6.3	10.0 U	---	10.0 U	---	180.0	---	---	---	---

Table C-17
(Continued)

Location	Depth	Chloroform	2-Butanone	1,1,1-Tri-chloroethane	Tri-chloroethane	Benzene	4-Methyl-2 Pentanone	2-Hexanone	Tetra-chlorene	1,1,2,2-Tetra-chloroethane
B17-05	7.5 - 9.0	10.0 U	---	10.0 U	---	---	---	---	---	---
B18-04	5.0 - 6.5	0.0 U	---	950.0	---	440.0	---	---	---	---
B19-04	5.0 - 6.5	10.0 U	---	190.0	---	140.0	---	---	---	---
B20-01	2.5 - 4.0	10.0 U	---	10.0 U	---	---	---	---	---	---
B20-19	40.0 - 41.5	10.0 U	---	10.0 U	---	---	---	---	---	---
B21-07	10.0 - 11.5	10.0 U	---	10.0 U	---	64.0	---	---	---	---
B22-05	7.5 - 9.0	10.0 U	---	10.0 U	---	760.0	---	---	---	---
B23-08	12.5 - 14.0	61.0	---	10.0 U	---	40.0	---	---	---	---
B23-08 (D1)	12.5 - 14.0	3800.0	---	10.0 U	---	800.0	---	---	---	---

Location	Depth	Toluene	Ethylbenzene	Total Xylenes	Phenol	2-Methylphenol	4-Methylphenol	Isophorone	2,4-Dimethyl-phenol	Benzoic Acid
B1-04	5.0 - 6.5	16.0	12.0	---	---	---	---	---	---	---
B1-19	40.0 - 41.5	10.0 U	10.0 U	---	---	---	---	---	---	---
B2-04	5.0 - 6.5	17600.0	12500.0	---	---	---	---	---	---	---
B2-10	15.0 - 16.5	210.0	190.0	---	---	---	---	---	---	---
B3-20	45.0 - 46.5	10.0 U	10.0 U	---	---	---	---	---	---	---
B4-05	7.5 - 9.0	200.0	160.0	---	---	---	---	---	---	---
B5-05	7.5 - 9.0	3000.0	1000.0	---	---	---	---	---	---	---
B7-01	2.5 - 4.0	10.0 U	10.0 U	---	---	---	---	---	---	---
B10-01	2.5 - 4.0	1700.0	1600.0	---	---	---	---	---	---	---
B11-01	2.5 - 4.0	150.0	97.0	---	---	---	---	---	---	---
B12-01	2.5 - 4.0	10.0 U	630.0	---	---	---	---	---	---	---
B13-04	5.0 - 6.5	4100.0	3700.0	---	---	---	---	---	---	---
B14-04	5.0 - 6.5	890.0	480.0	---	---	---	---	---	---	---
B15-07	10.0 - 11.5	16000.0	10.0 U	---	---	---	---	---	---	---
B16-03	5.0 - 6.3	1600.0	730.0	---	---	---	---	---	---	---
B17-05	7.5 - 9.0	380.0	280.0	---	---	---	---	---	---	---
B18-04	5.0 - 6.5	10.0 U	3000.0	---	---	---	---	---	---	---
B19-04	5.0 - 6.5	2500.0	1900.0	---	---	---	---	---	---	---
B20-01	2.5 - 4.0	160.0	200.0	---	---	---	---	---	---	---
B20-19	40.0 - 41.5	260.0	10.0 U	---	---	---	---	---	---	---
B21-07	10.0 - 11.5	2200.0	1000.0	---	---	---	---	---	---	---
B22-05	7.5 - 9.0	16000.0	12000.0	---	---	---	---	---	---	---
B23-08 (D1)	12.5 - 14.0	2800.0	2000.0	---	---	---	---	---	---	---
B23-08 (D1)	12.5 - 14.0	14000.0	8400.0	---	---	---	---	---	---	---

Table C-17
(Continued)

Location	Depth	Naphthalene	2-Methyl-naphthalene	Acenaphthene	Fluorene	N-Nitrosodi-phenylamine	Phenanthrene	Anthracene	Di-N-Butyl phthalate
B1-04	5.0 - 6.5	10000.0 U	---	---	---	---	10000.0 U	10000.0 U	---
B1-19	40.0 - 41.5	10000.0 U	---	---	---	---	10000.0 U	10000.0 U	---
B2-04	5.0 - 6.5	10000.0 U	---	---	---	---	10000.0 U	10000.0 U	---
B2-10	15.0 - 16.5	10000.0 U	---	---	---	---	10000.0 U	10000.0 U	---
B3-20	45.0 - 46.5	10000.0 U	---	---	---	---	10000.0 U	10000.0 U	---
B4-05	7.5 - 9.0	10000.0 U	---	---	---	---	10000.0 U	10000.0 U	---
B5-05	7.5 - 9.0	10000.0 U	---	---	---	---	10000.0 U	10000.0 U	---
B7-01	2.5 - 4.0	10000.0 U	---	---	---	---	10000.0 U	10000.0 U	---
B10-01	2.5 - 4.0	10000.0 U	---	---	---	---	10000.0 U	10000.0 U	---
B11-01	2.5 - 4.0	10000.0 U	---	---	---	---	10000.0 U	10000.0 U	---
B12-01	2.5 - 4.0	10000.0 U	---	---	---	---	10000.0 U	10000.0 U	---
B13-04	5.0 - 6.5	10000.0 U	---	---	---	---	10000.0 U	10000.0 U	---
B14-04	5.0 - 6.5	10000.0 U	---	---	---	---	10000.0 U	10000.0 U	---
B15-07	10.0 - 11.5	10000.0 U	---	---	---	---	10000.0 U	10000.0 U	---
B16-03	5.0 - 6.3	10000.0 U	---	---	---	---	10000.0 U	10000.0 U	---
B17-05	7.5 - 9.0	10000.0 U	---	---	---	---	10000.0 U	10000.0 U	---
B18-04	5.0 - 6.5	10000.0 U	---	---	---	---	10000.0 U	10000.0 U	---
B19-04	5.0 - 6.5	10000.0 U	---	---	---	---	10000.0 U	10000.0 U	---
B20-01	2.5 - 4.0	10000.0 U	---	---	---	---	10000.0 U	10000.0 U	---
B20-19	40.0 - 41.5	10000.0 U	---	---	---	---	10000.0 U	10000.0 U	---
B21-07	10.0 - 11.5	10.0	---	---	---	---	10000.0 U	10000.0 U	---
B22-05	7.5 - 9.0	10000.0 U	---	---	---	---	10000.0 U	10000.0 U	---
B23-08 (D1)	12.5 - 14.0	35.0	---	---	---	---	10000.0 U	10000.0 U	---
B23-08 (D1)	12.5 - 14.0	12000.0	---	---	---	---	10000.0 U	10000.0 U	---

Location	Depth	Fluoranthene	Pyrene	Benzo(a) Anthracene	Chrysene	Bis (2-Ethylhexyl) Phthalate	Benzo(k) Fluoranthane	Benzo(a) Pyrene	Chlorobenzene	Dibenzofuran
B1-04	5.0 - 6.5	---	---	10000.0 U	---	---	---	---	10.0 U	---
B1-19	40.0 - 41.5	---	---	10000.0 U	---	---	---	---	10.0 U	---
B2-04	5.0 - 6.5	---	---	10000.0 U	---	---	---	---	2300.0	---
B2-10	15.0 - 16.5	---	---	10000.0 U	---	---	---	---	10.0 U	---
B3-20	45.0 - 46.5	---	---	10000.0 U	---	---	---	---	10.0 U	---
B4-05	7.5 - 9.0	---	---	10000.0 U	---	---	---	---	10.0 U	---
B5-05	7.5 - 9.0	---	---	10000.0 U	---	---	---	---	250.0	---
B7-01	2.5 - 4.0	---	---	10000.0 U	---	---	---	---	10.0 U	---
B10-01	2.5 - 4.0	---	---	10000.0 U	---	---	---	---	10.0 U	---
B11-01	2.5 - 4.0	---	---	10000.0 U	---	---	---	---	10.0 U	---
B12-01	2.5 - 4.0	---	---	10000.0 U	---	---	---	---	10.0 U	---
B13-04	5.0 - 6.5	---	---	10000.0 U	---	---	---	---	10.0 U	---
B14-04	5.0 - 6.5	---	---	10000.0 U	---	---	---	---	10.0 U	---
B15-07	10.0 - 11.5	---	---	10000.0 U	---	---	---	---	1900.0	---
B16-03	5.0 - 6.3	---	---	10000.0 U	---	---	---	---	140.0	---
B17-05	7.5 - 9.0	---	---	10000.0 U	---	---	---	---	70.0	---
B18-04	5.0 - 6.5	---	---	10000.0 U	---	---	---	---	10.0 U	---
B19-04	5.0 - 6.5	---	---	10000.0 U	---	---	---	---	320.0	---

Table C-17
(Continued)

Location	Depth	Heptachlor	Aldrin	Heptachlor Epoxide	Butylbenzyl phthalate	Diethyl phthalate	Dieldrin	Trichloro-ethylene	1,2-Trans-chloroethylene	Tetrachloro-ethylene
B16-03	5.0 - 6.3	---	---	---	---	---	---	450.0	---	120.0
B17-05	7.5 - 9.0	---	---	---	---	---	---	10.0	---	---
B18-04	5.0 - 6.5	---	---	---	---	---	---	2300.0	400.0	610.0
B19-04	5.0 - 6.5	---	---	---	---	---	---	420.0	---	260.0
B20-01	2.5 - 4.0	---	---	---	---	---	---	200.0	---	170.0
B20-19	40.0 - 41.5	---	---	---	---	---	---	10.0	---	---
B21-07	10.0 - 11.5	---	---	---	---	---	---	370.0	---	340.0
B22-05	7.5 - 9.0	---	---	---	---	---	---	4000.0	---	4400.0
B23-08	12.5 - 14.0	---	---	---	---	---	---	480.0	---	400.0
B23-08 (D1)	12.5 - 14.0	---	---	---	---	---	---	4100.0	---	2200.0

Location	Depth	Tetrachloro-ethene	Pentachloro-phenol	1,2-Dichloro-ethene	Chrysene	Chloro-methane	1,4-Dichloro benzene	1,2,4 Tri-chlorobenzene	Benzo(g,h,i) Perylene	Benzo(b) Fluoranthene
B1-04	5.0 - 6.5	10.0 U	---	10.0 U	---	---	---	---	---	---
B1-19	40.0 - 41.5	10.0 U	---	10.0 U	---	---	---	---	---	---
B2-04	5.0 - 6.5	10.0 U	---	10.0 U	---	---	---	---	---	---
B2-10	15.0 - 16.5	10.0 U	---	10.0 U	---	---	---	---	---	---
B3-20	45.0 - 46.5	10.0 U	---	10.0 U	---	---	---	---	---	---
B4-05	7.5 - 9.0	10.0 U	---	10.0 U	---	---	---	---	---	---
B5-05	7.5 - 9.0	10.0 U	---	10.0 U	---	---	---	---	---	---
B7-01	2.5 - 4.0	10.0 U	---	10.0 U	---	---	---	---	---	---
B10-01	2.5 - 4.0	10.0 U	---	10.0 U	---	---	---	---	---	---
B11-01	2.5 - 4.0	10.0 U	---	10.0 U	---	---	---	---	---	---
B12-01	2.5 - 4.0	10.0 U	---	10.0 U	---	---	---	---	---	---
B13-04	5.0 - 6.5	10.0 U	---	10.0 U	---	---	---	---	---	---
B14-04	5.0 - 6.5	10.0 U	---	10.0 U	---	---	---	---	---	---
B15-07	10.0 - 11.5	10.0 U	---	10.0 U	---	---	---	---	---	---
B16-03	5.0 - 6.3	10.0 U	---	10.0 U	---	---	---	---	---	---
B17-05	7.5 - 9.0	10.0 U	---	10.0 U	---	---	---	---	---	---
B18-04	5.0 - 6.5	10.0 U	---	10.0 U	---	---	---	---	---	---
B19-04	5.0 - 6.5	10.0 U	---	10.0 U	---	---	---	---	---	---
B20-01	2.5 - 4.0	10.0 U	---	10.0 U	---	---	---	---	---	---
B20-19	40.0 - 41.5	10.0 U	---	10.0 U	---	---	---	---	---	---
B21-07	10.0 - 11.5	10.0 U	---	10.0 U	---	---	---	---	---	---
B22-05	7.5 - 9.0	10.0 U	---	10.0 U	---	---	---	---	---	---
B23-08	12.5 - 14.0	10.0 U	---	10.0 U	---	---	---	---	---	---
B23-08 (D1)	12.5 - 14.0	10.0 U	---	10.0 U	---	---	---	---	---	---

Appendix D
SITE METEOROLOGICAL SUMMARIES

TABLE 6.1-1.

SUMMARY OF METEROLOGICAL CONDITIONS DURING FIELD INVESTIGATION

	Mean Temperature (°F)	Temperature Range (°F)	Mean Wind Speed (mph)	Range Wind Speed (mph)	Mean Wind Direction (deg)	Mean Wind Deviation (deg)
06/08/84	69.3	55.9 - 80.8	8.4	4.2 - 12.0	315	402
06/09/84	72.0	58.7 - 84.0	7.7	3.8 - 11.8	318	521
06/10/84	68.8	56.2 - 82.3	7.4	2.8 - 11.9	218	238
06/11/84	72.9	55.4 - 87.2	5.5	1.3 - 10.3	235	1960
06/12/84	71.5	61.0 - 83.0	7.9	4.8 - 11.0	306	1172
06/13/84	71.0	56.0 - 85.4	6.2	3.2 - 10.3	296	914
06/14/84	75.0	61.3 - 88.0	5.9	2.7 - 9.0	315	1340
06/15/84	77.3	62.3 - 89.8	5.5	3.9 - 8.1	262	1254
06/16/84	81.2	66.0 - 94.8	5.0	2.6 - 7.5	252	1088
06/17/84	84.8	70.8 - 98.5	4.9	1.7 - 8.5	244	1146
06/18/84	84.0	71.3 - 98.1	6.4	2.7 - 10.8	278	877
06/19/84	77.1	62.7 - 90.4	6.3	1.8 - 10.6	263	1842
06/20/84	71.0	56.2 - 84.4	6.7	2.9 - 12.1	282	1346
06/21/84	70.9	56.5 - 84.8	6.8	3.0 - 11.4	302	627
06/22/84	78.5	61.1 - 92.9	4.7	1.1 - 7.8	242	1074

ND - No data, data loss due to system malfunction.

Source: Remedial Investigation Report. Volume 1. Purity Oil Sales, Fresno, California. Contract No. 83-81867, by Harding Lawson Associates.

TABLE 6.1-1. (Continued)

SUMMARY OF METEROLOGICAL CONDITIONS DURING FIELD INVESTIGATION

	Mean Temperature (°F)	Temperature Range (°F)	Mean Wind Speed (mph)	Range Wind Speed (mph)	Mean Wind Direction (deg)	Mean Wind Deviation (deg)
06/23/84	ND	ND	ND	ND	ND	ND
06/24/84	85.5	68.2 - 103.6	4.7	1.2 - 8.1	252	984
06/25/84	86.3	67.1 - 105.5	5.2	1.2 - 10.8	256	1109
06/26/84	84.1	65.4 - 98.4	6.4	2.5 - 10.7	274	1029
06/27/84	83.9	66.5 - 98.7	5.6	2.0 - 8.3	285	744
06/28/84	87.1	71.2 - 101.8	7.5	3.3 - 12.6	316	446
06/29/84	79.4	65.9 - 90.3	8.6	5.1 - 11.4	320	394
06/30/84	ND	ND	ND	ND	ND	ND
07/01/84	85.1	66.4 - 101.8	4.6	2.0 - 7.4	258	837
07/02/84	88.8	72.2 - 105.3	5.0	0.9 - 8.5	248	1356
07/03/84	89.9	77.6 - 101.6	5.7	1.3 - 9.4	269	1922
07/04/84	88.5	75.9 - 102.0	5.3	3.1 - 10.0	262	940
07/05/84	89.2	74.5 - 102.8	5.1	1.9 - 9.7	261	936
07/06/84	91.5	75.1 - 106.4	5.2	1.9 - 9.1	275	1107
07/07/84	90.9	75.4 - 105.5	6.0	1.4 - 11.4	265	1079

ND - No data, data loss due to system malfunction.

TABLE 6.1-1. (Continued)

SUMMARY OF METEROLOGICAL CONDITIONS DURING FIELD INVESTIGATION

	Mean Temperature (°F)	Temperature Range (°F)	Mean Wind Speed (mph)	Range Wind Speed (mph)	Mean Wind Direction (deg)	Mean Wind Deviation (deg)
07/08/84	86.6	68.9 - 103.5	6.0	1.6 - 9.4	259	1061
07/09/84	84.7	67.8 - 99.3	6.8	5.0 - 10.2	300	476
07/10/84	84.9	67.5 - 99.8	5.1	1.4 - 8.7	243	987
07/11/84	86.7	69.6 - 103.0	5.5	2.5 - 9.3	230	753
07/12/84	87.2	72.3 - 102.0	5.4	1.9 - 8.8	254	718
07/13/84	90.4	72.9 - 106.2	5.0	1.6 - 9.1	245	1016
07/14/84	91.9	81.1 - 104.6	5.4	1.4 - 10.3	240	1720
07/15/84	91.1	81.1 - 101.5	5.1	1.6 - 9.0	258	1567
07/16/84	90.4	77.5 - 103.1	3.6	2.1 - 7.2	217	2166
07/17/84	92.4	78.6 - 103.8	5.4	1.8 - 9.4	273	819
07/18/84	89.2	74.9 - 103.3	5.3	3.2 - 9.1	249	895
07/19/84	86.2	69.7 - 101.3	5.7	2.1 - 8.7	270	674
07/20/84	86.9	72.2 - 99.6	6.7	2.4 - 10.6	266	1003
07/21/84	81.9	76.7 - 95.4	6.6	2.9 - 10.3	304	756
07/22/84	69.9	57.6 - 78.7	5.0	1.7 - 8.6	212	1220

ND - No data, data loss due to system malfunction.

TABLE 6.1-1. (Continued)

SUMMARY OF METEROLOGICAL CONDITIONS DURING FIELD INVESTIGATION

	Mean Temperature (°F)	Temperature Range (°F)	Mean Wind Speed (mph)	Range Wind Speed (mph)	Mean Wind Direction (deg)	Mean Wind Deviation (deg)
07/23/84	79.0	ND	7.4	ND	249	300
07/24/84	80.0	ND	8.3	ND	254	1109
07/25/84	72.3	59.7 - 85.0	7.2	3.5 - 11.1	280	808
07/26/84	77.8	60.6 - 91.8	5.1	2.5 - 9.0	237	1122
07/27/84	82.0	65.5 - 96.9	4.6	0.9 - 9.1	239	669
07/28/84	80.5	64.4 - 94.9	5.2	1.9 - 9.4	228	1217
07/28/84	79.2	63.7 - 95.0	5.8	2.0 - 9.2	251	691
07/30/84	82.2	66.6 - 97.7	4.8	0.7 - 8.6	229	1491
07/31/84	84.3	69.3 - 99.0	5.5	2.7 - 9.8	242	1002
08/01/84	82.6	69.1 - 95.2	6.9	2.7 - 11.3	276	1437
08/02/84	77.6	64.6 - 90.4	7.2	2.7 - 10.1	277	539
08/03/84	75.7	61.1 - 91.5	6.2	3.2 - 8.9	264	624
08/04/84	83.0	67.6 - 97.4	4.6	0.5 - 8.7	223	1194
08/05/84	86.2	74.4 - 99.0	6.7	2.4 - 10.8	271	690

ND - No data, data loss due to system malfunction.

Appendix E
MONITORING WELL CONSTRUCTION LOGS

EPA ERT STUDY OBSERVATION WELL INSTALLATION DETAILS

Well Designation Number	Casing Elevation (Feet)	Grade Elevation (Feet)	Water Table Elevation (Feet)	Well Depth (Feet)	Top of Screen/ Top of Sand (Feet Below Well Cap)	Casing Diameter (Inches)	Slot Width (Inches)
EPA-1	300.74	300.32	252.57	52.	37/34	4.	0.032
EPA-2	301.52	300.93	254.18	60.	45/42	4.	0.032
EPA-3	300.72	298.63	252.13	58.	43/42	2.	0.032
EPA-4	300.81	299.30	253.13	60.	45/44	2.	0.032
EPA-5	299.15	297.73	251.40	60.	45/44	2.	0.032
EPA-6	300.04	299.99	252.70	52.	37/34	2.	0.032
EPA-7	300.47	299.06	251.31	60.	45/42	2.	0.032

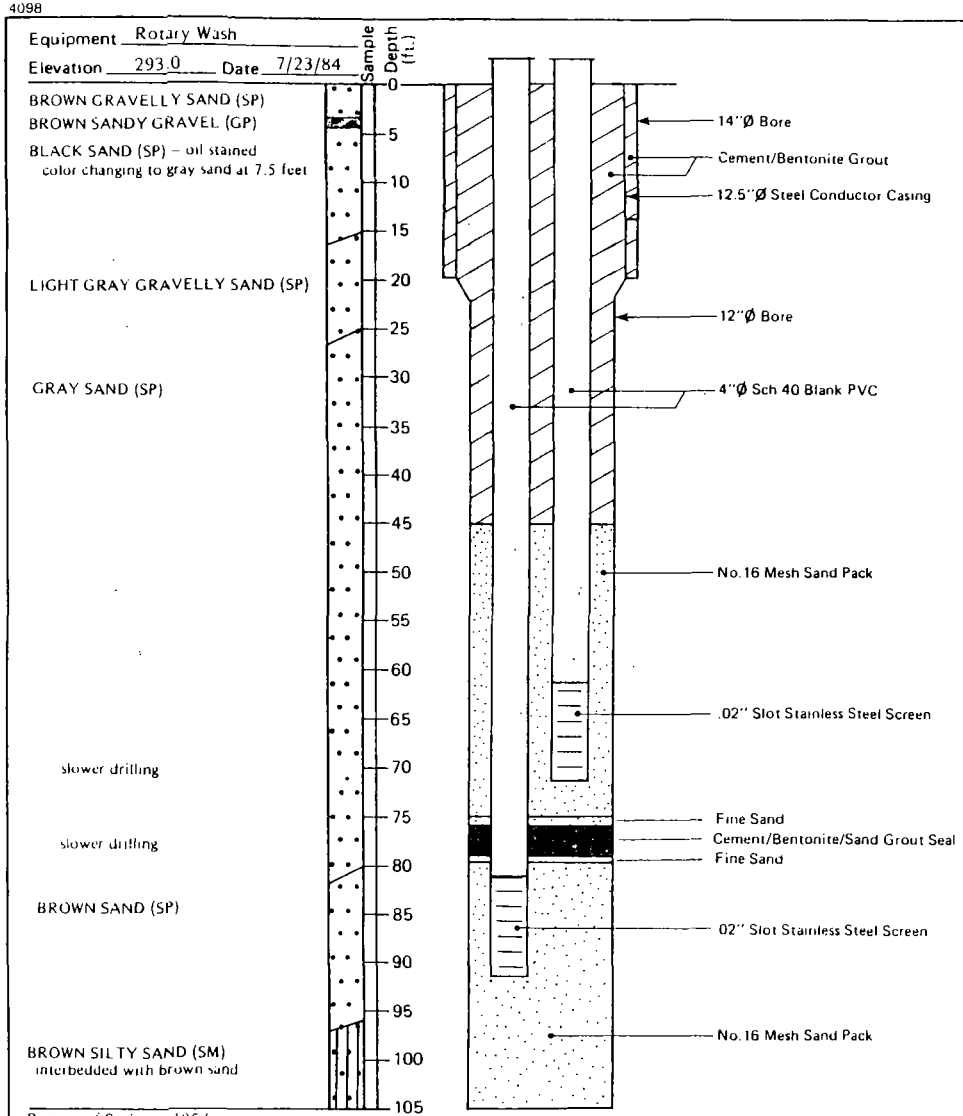
RD/R47/013

HLA MONITORING WELL
CONSTRUCTION LOGS

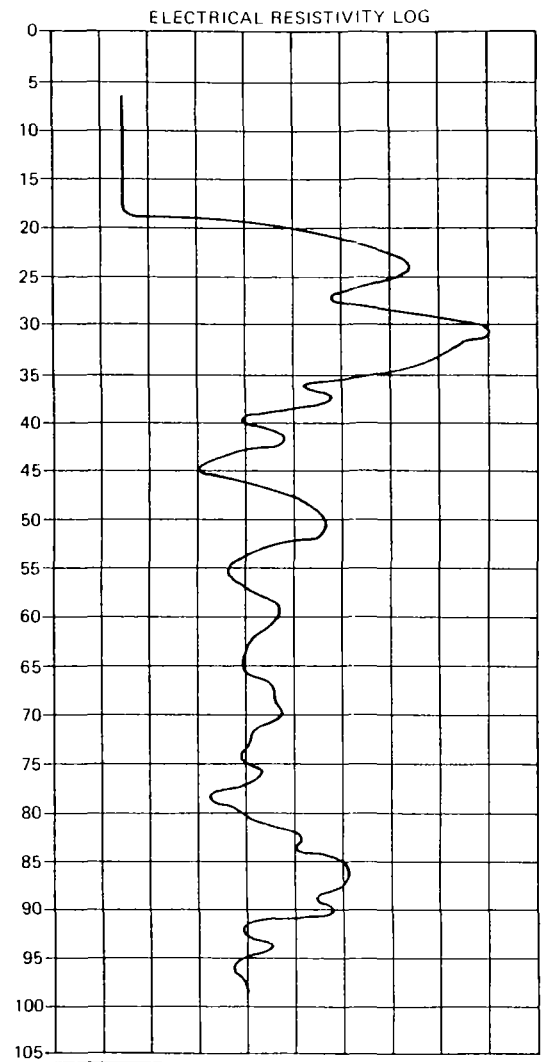
4098

Equipment Rotary Wash

Elevation 293.0 Date 7/23/84



Bottom of Boring at 105 feet



Harding Lawson Associates
Engineers Geologists & Geophysicists

Geologic Log and Well Completion Diagram for Monitoring Wells W-1 Shallow and Deep
Purity Oil Sales Remedial Investigation
Fresno, California

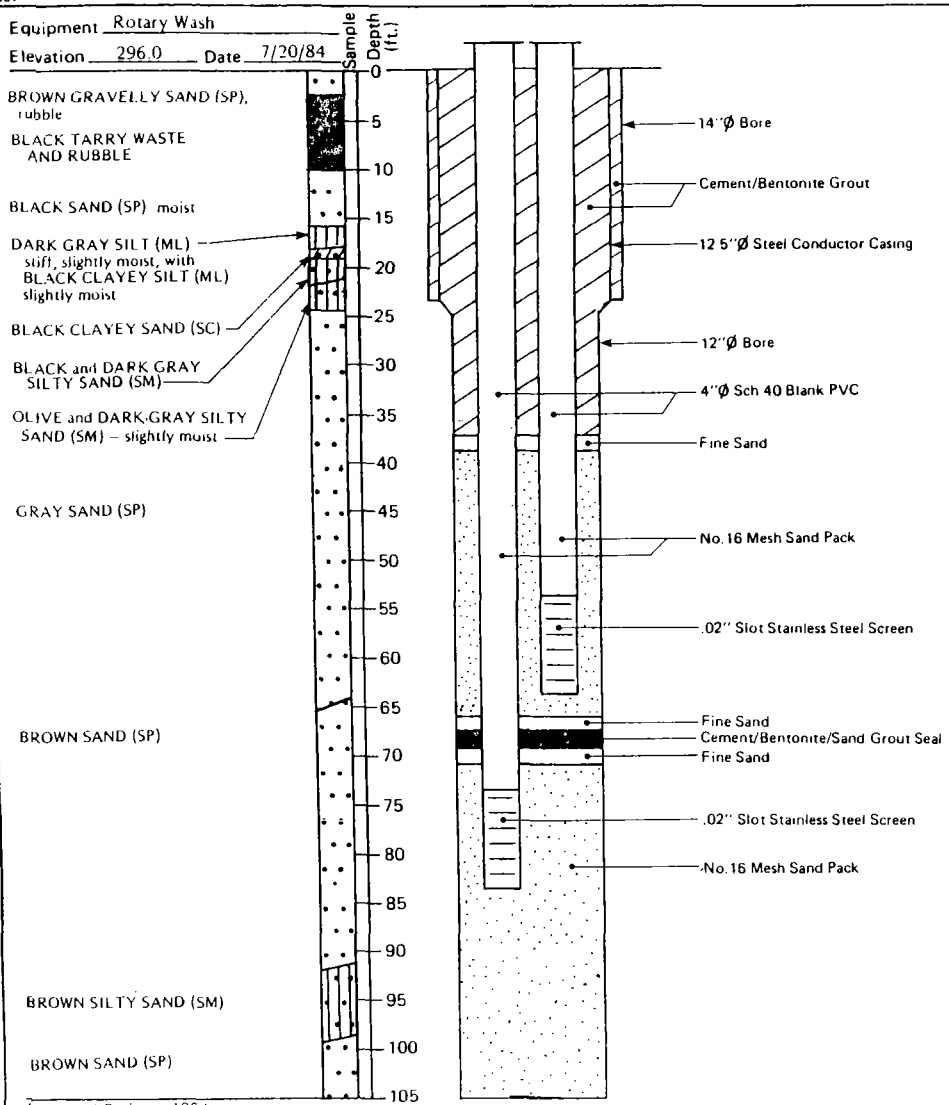
PLATE **C1**

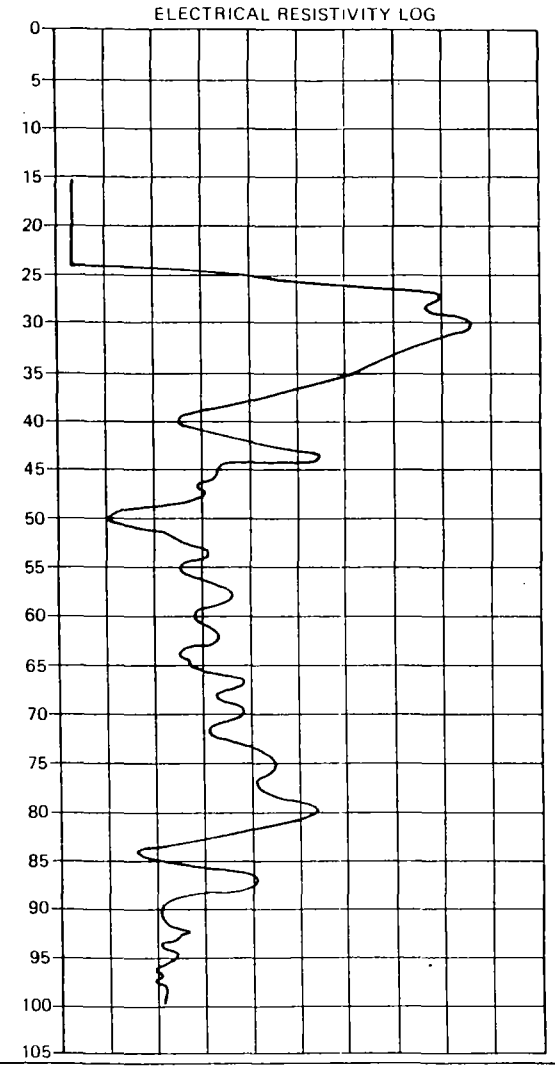
DRAWN	JOB NUMBER	SCALE	DATE	REVISED	DATE
JGL	919.032.01		10/84		

4097

Equipment Rotary Wash

Elevation 296.0 Date 7/20/84





Harding Lawson Associates
Engineers, Geologists & Geophysicists

Geologic Log and Well Completion Diagram for Monitoring Wells W-2 Shallow and Deep
Purity Oil Sales Remedial Investigation
Fresno, California

PLATE **C2**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED	DATE
JGL	919.032.01	SDW	10/84		

4096

Equipment Rotary Wash

Elevation 296.0 Date 7/21/84

Sample	Depth (ft.)
	0
	5
	10
	15
	20
	25
	30
	35
	40
	45
	50
	55
	60
	65
	70
	75
	80
	85
	90
	95
	100
	105

BROWN GRAVELLY SAND (SP) rubble and concrete

BLACK TARRY SLUDGE AND RUBBLE saturated at 7.5 feet

OLIVE-GRAY SILT (ML) with black tarry sludge, slightly moist

GRAY–BROWN SAND (SP) slightly moist, very fine grained

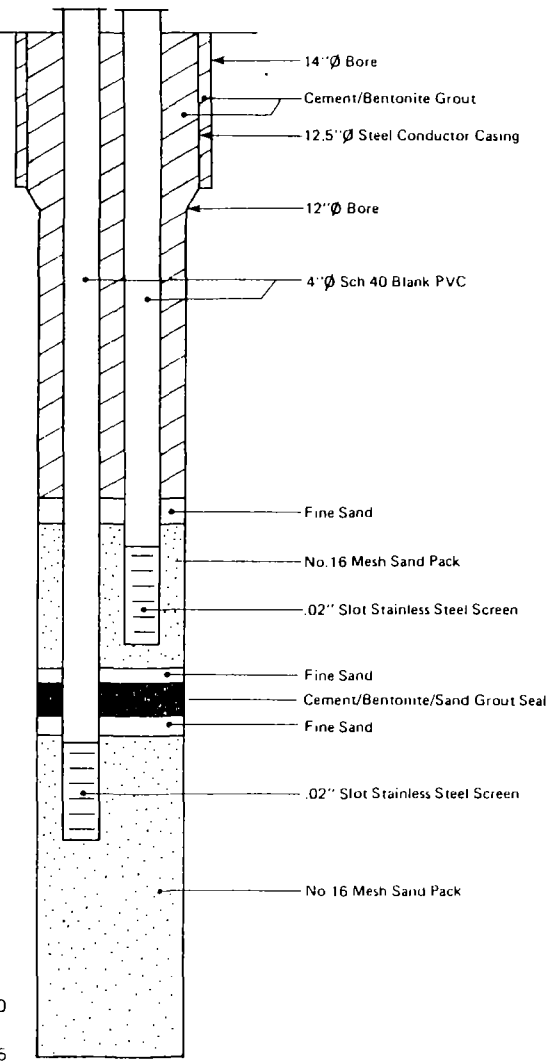
BROWN SAND (SP) very loose, medium grained

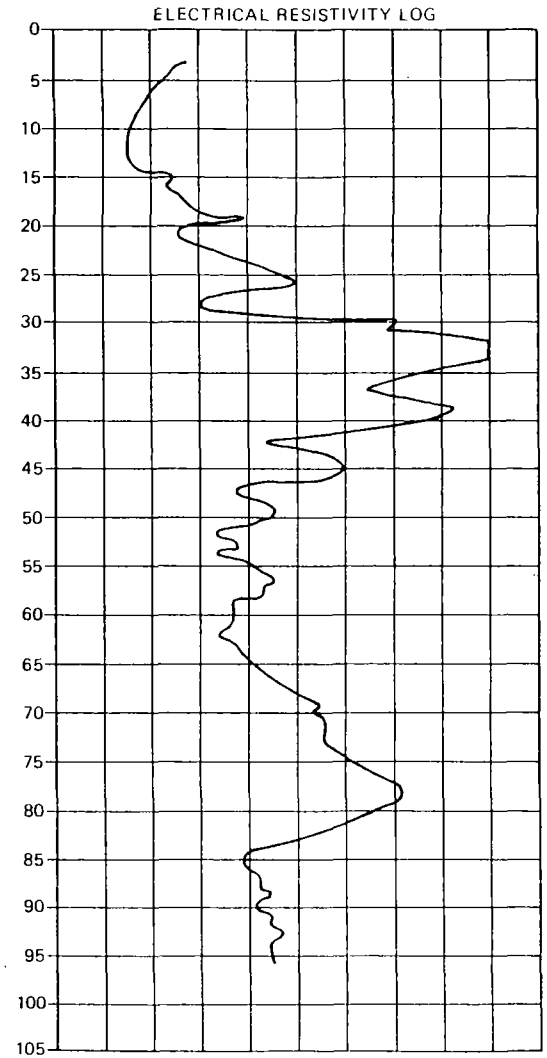
BROWN SILTY SAND (SM)

LIGHT GRAY SAND (SP) changing to brown sand at 56.5 feet

slower drilling

Bottom of Boring 105 feet





Harding Lawson Associates
Engineers, Geologists & Geophysicists

Geologic Log and Well Completion Diagram for Monitoring Wells W-3 Shallow and Deep
Purity Oil Sales Remedial Investigation
Fresno, California

PLATE **C3**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED	DATE
JGL	919,032.01	[illegible]	10/84		

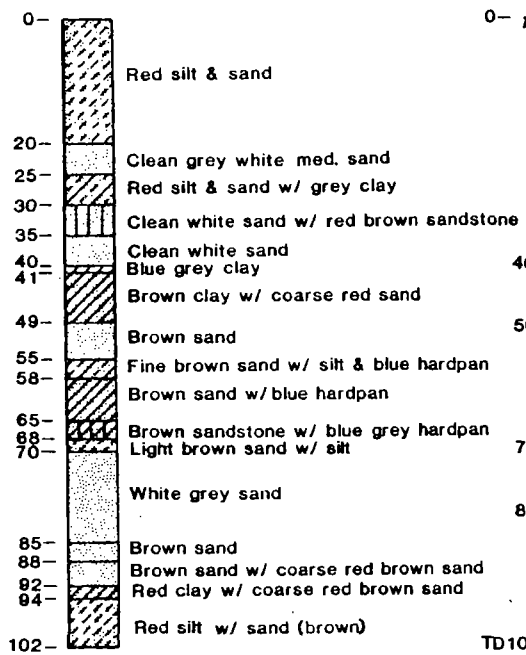
4093

LUHDORFF & SCALMANINI
Consulting Engineers
Woodland, California 95695

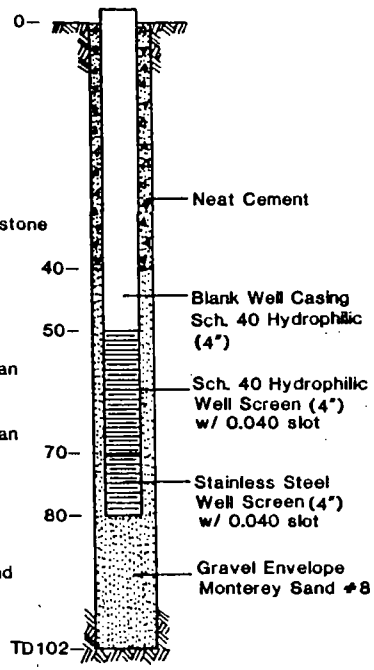
Monitoring Well No. 4

Purity Oil Sales, Inc.
Fresno, California

LITHOLOGY



WELL PROFILE



ELECTRIC LOG

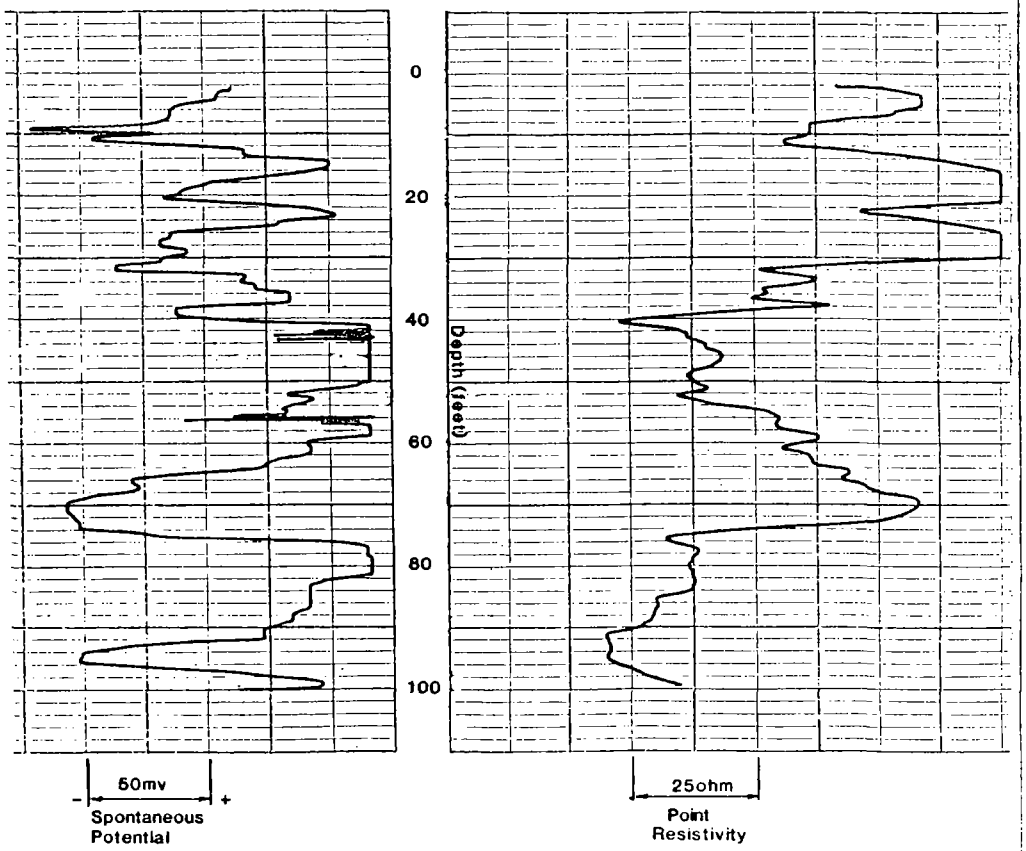


PLATE
C4

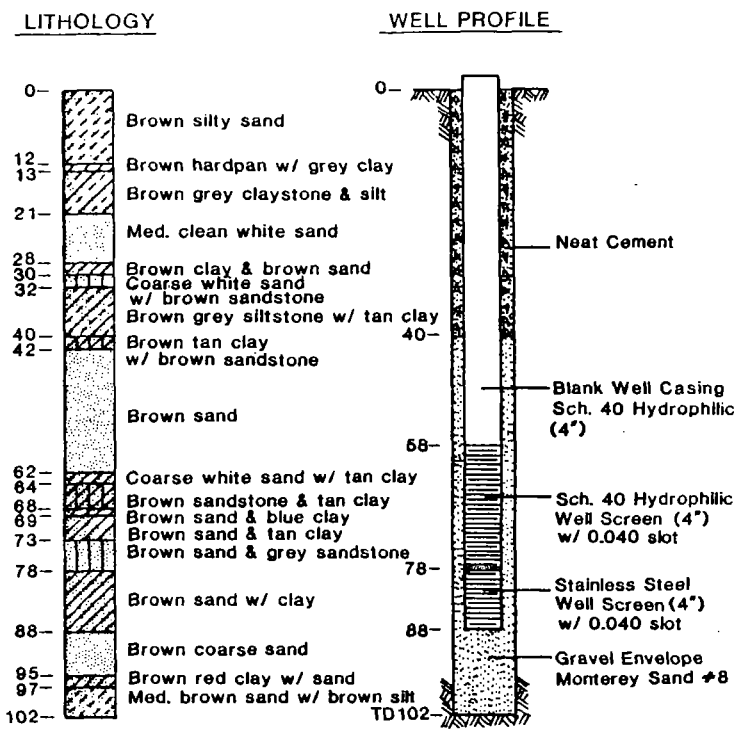
Revised 11-1-84

4092

LUHDORFF & SCALMANINI
Consulting Engineers
Woodland, California 95695

Monitoring Well No. 5

Purity Oil Sales, Inc.
Fresno, California



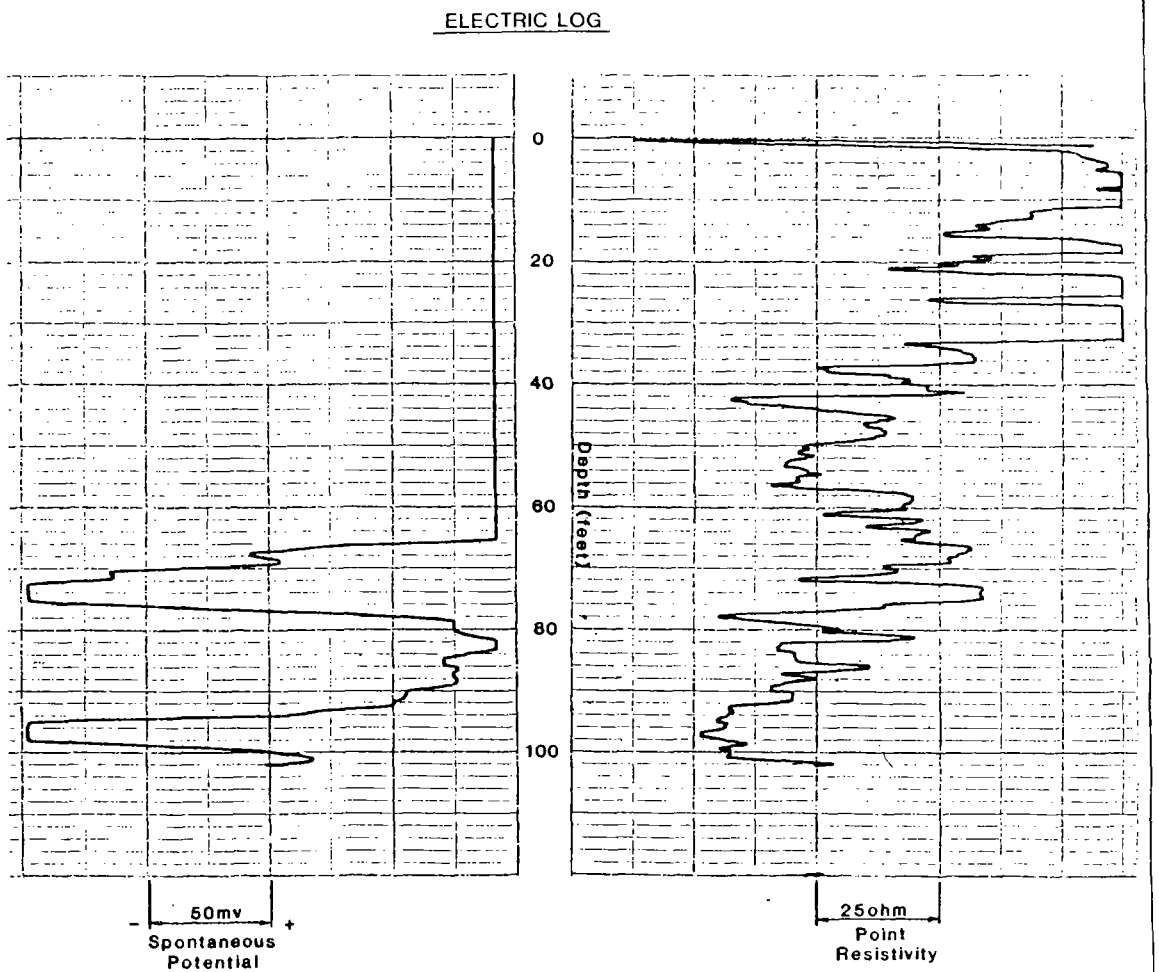


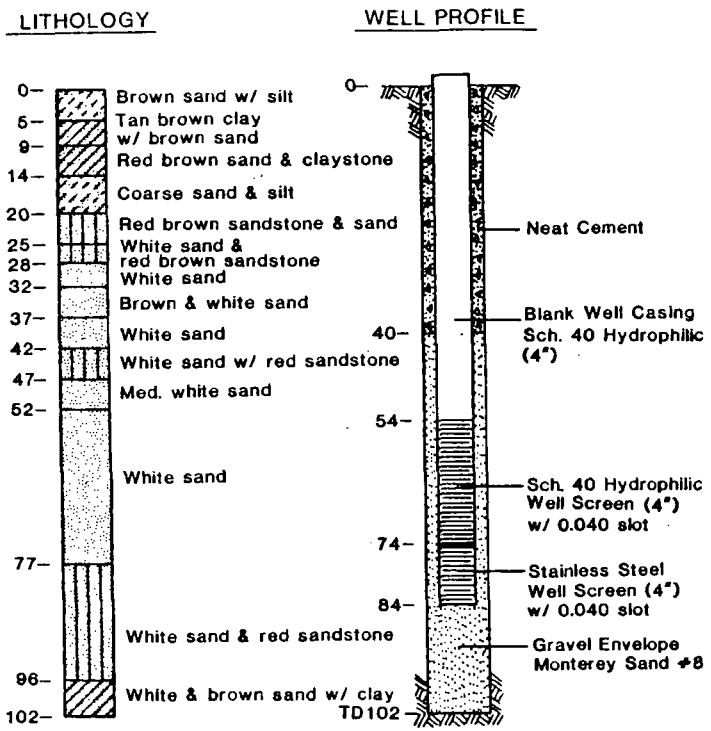
PLATE
C5
Revised 11-1-84

1091

LUHDORFF & SCALMANINI
Consulting Engineers
Wingland California 95695

Monitoring Well No. 6

Purity Oil Sales, Inc.
Fresno, California



ELECTRIC LOG

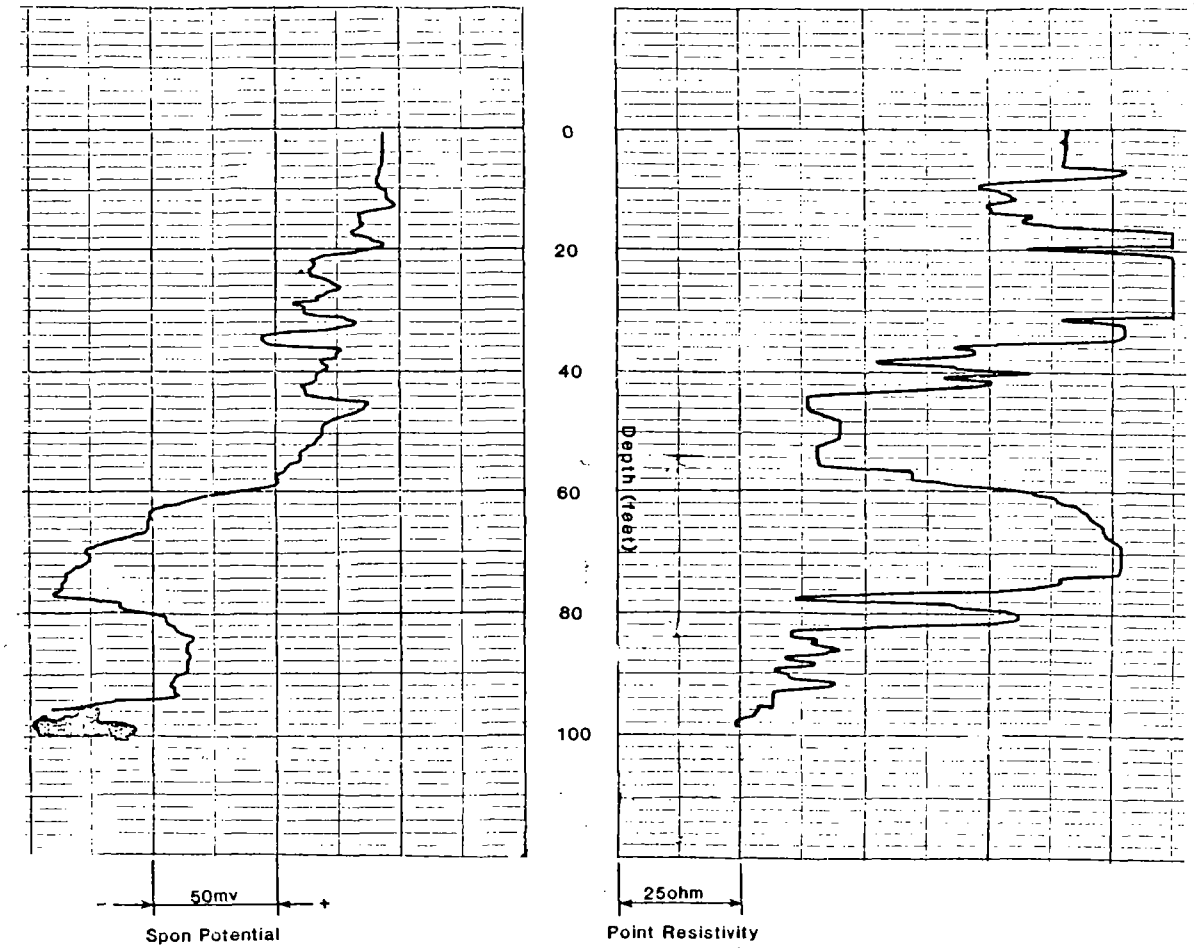


PLATE
C6

Revised 11-1-84

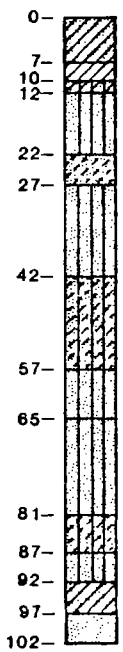
4090

LUHDORFF & SCALMANINI
Consulting Engineers

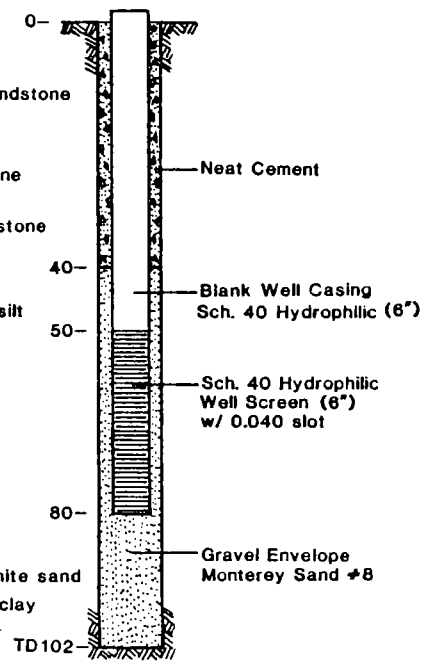
Monitoring Well No. 7

Purity Oil Sales, Inc.
Fresno, California

LITHOLOGY



WELL PROFILE



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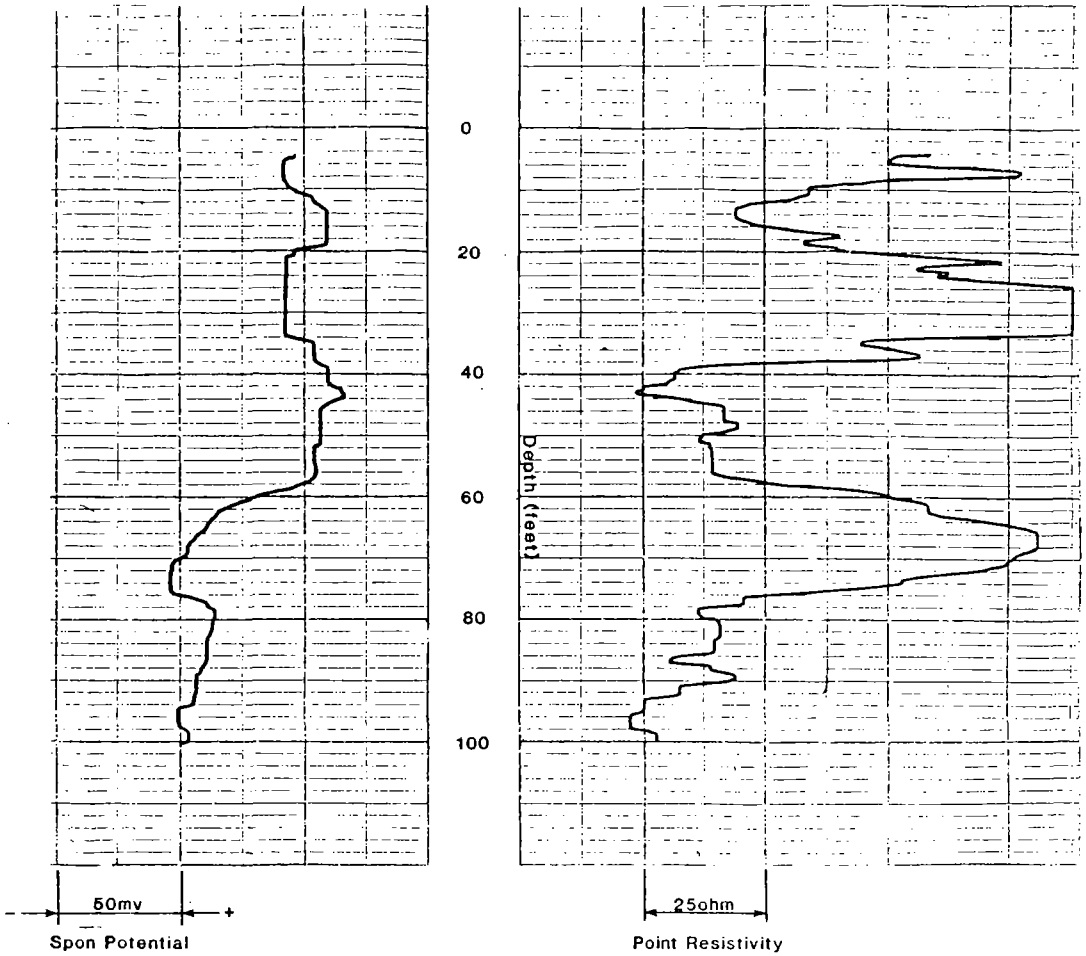


PLATE
C7

Revised 11-1-84

4089

LUHDORFF & SCALMANINI
Consulting Engineers
Woodland, California 95695

Monitoring Well No. 8

Purity Oil Sales, Inc.
Fresno, California

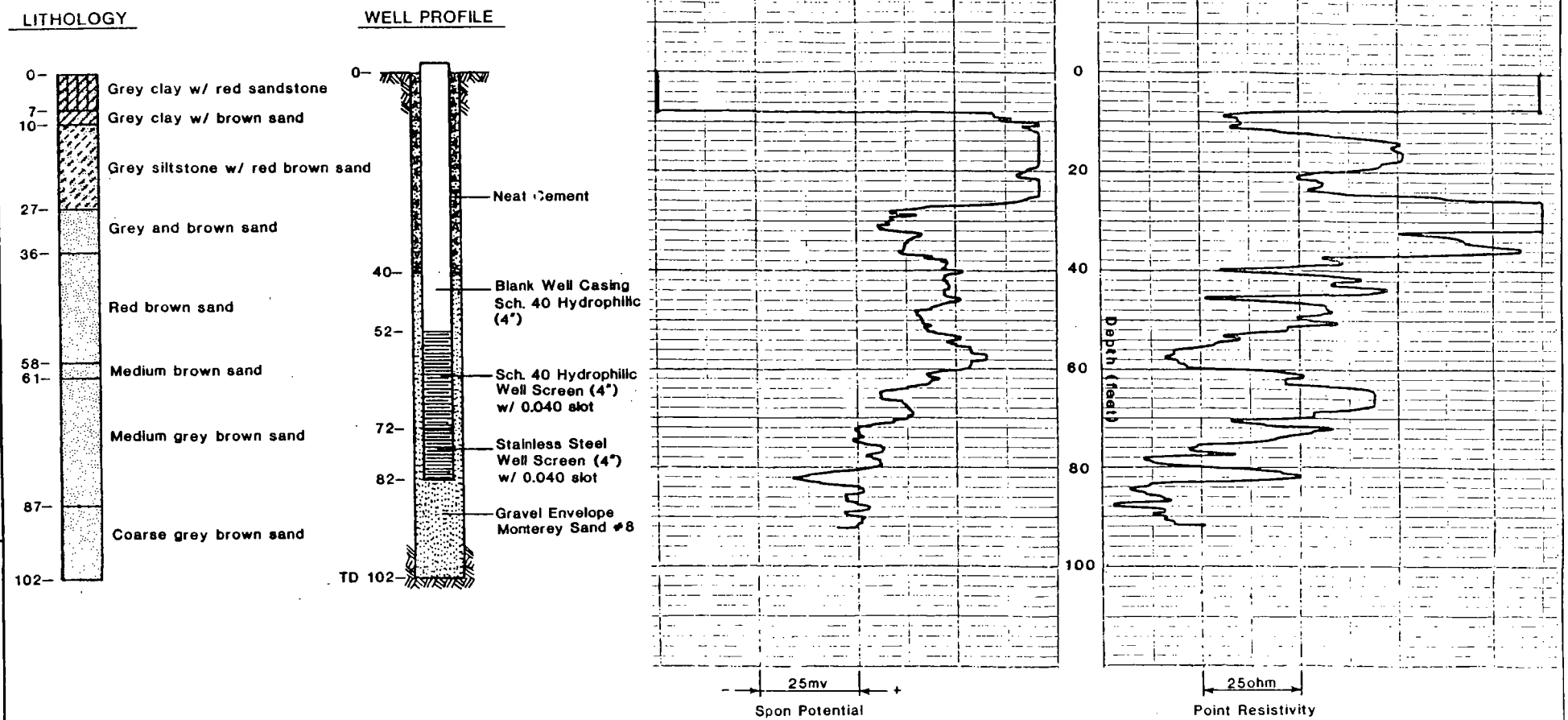


PLATE
C8

Revised 11-1-84

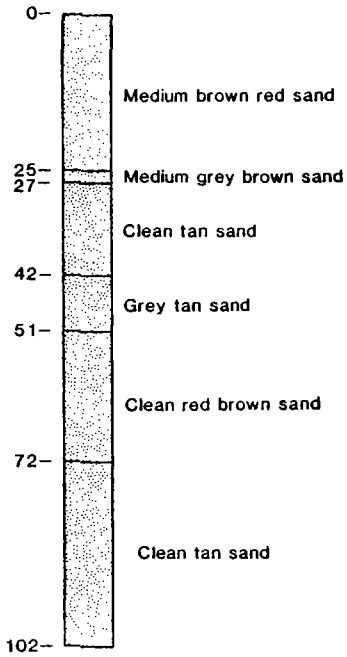
4088

LUHDORFF & SCALMANINI
Consulting Engineers
Woodland, California 95695

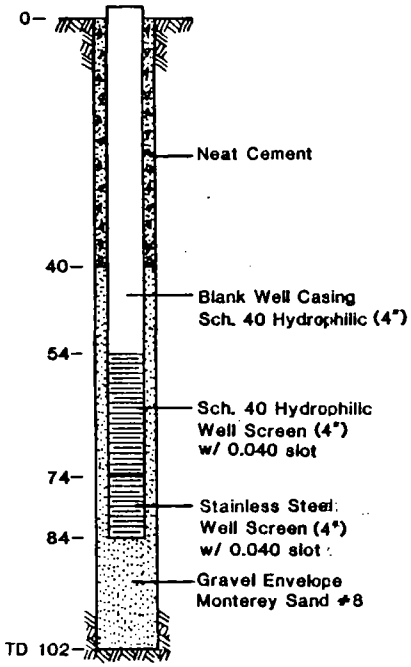
Monitoring Well No. 9

Purity Oil Sales, Inc.
Fresno, California

LITHOLOGY



WELL PROFILE



ELECTRIC LOG

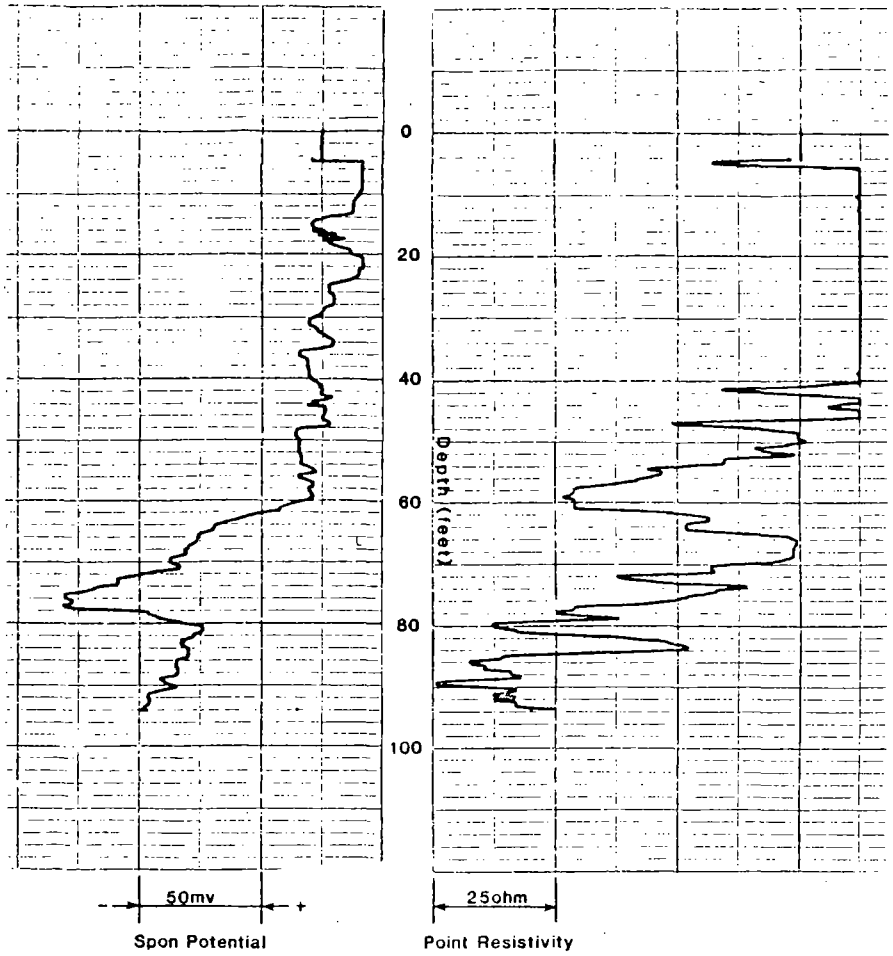


PLATE
C9

Revised 11-1-84

CH2M HILL MONITORING WELL
CONSTRUCTION LOGS

NOTES:

1. DEPTHS ARE APPROXIMATE.
2. GRAPHIC LOG AND WELL PROFILE ARE DIAGRAMMATIC
3. WELL HEAD ELEVATION IS TOP OF WELL SOUNDING PIPE.
4. DETAILS OF WELL HEAD ARE NOT SHOWN.
5. LITHOLOGIC DESCRIPTIONS ARE BASED ON DRILL CUTTINGS AND INTERPRETATIONS OF GEOPHYSICAL LOGS

MONITORING WELL MW-1D

LOCATION: MAPLE STREET, SOUTH OF SITE

DRILLING START: 10-21-87 FINISH: 10-22-87

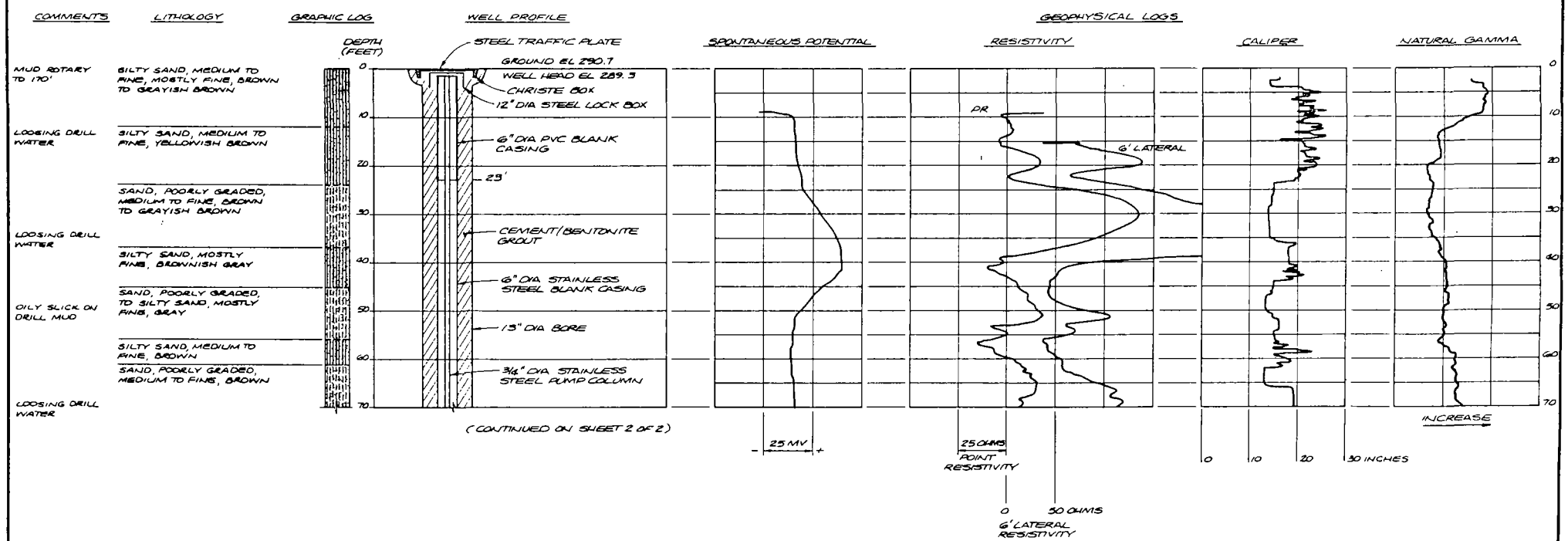
DRILLING METHOD: MUD ROTARY

GEOLOGIST: K J WHITE

GEOPHYSICAL LOGGING: 10-22-87

WELL CONSTRUCTED: 10-22-87

PUMP INSTALLED: 10-28-87



(CONTINUED ON SHEET 2 OF 2)

GROUNDWATER MONITORING WELL MW-1D

REMEDIAL INVESTIGATION REPORT
PURITY OIL SALES SITE
FRESNO, CALIFORNIA

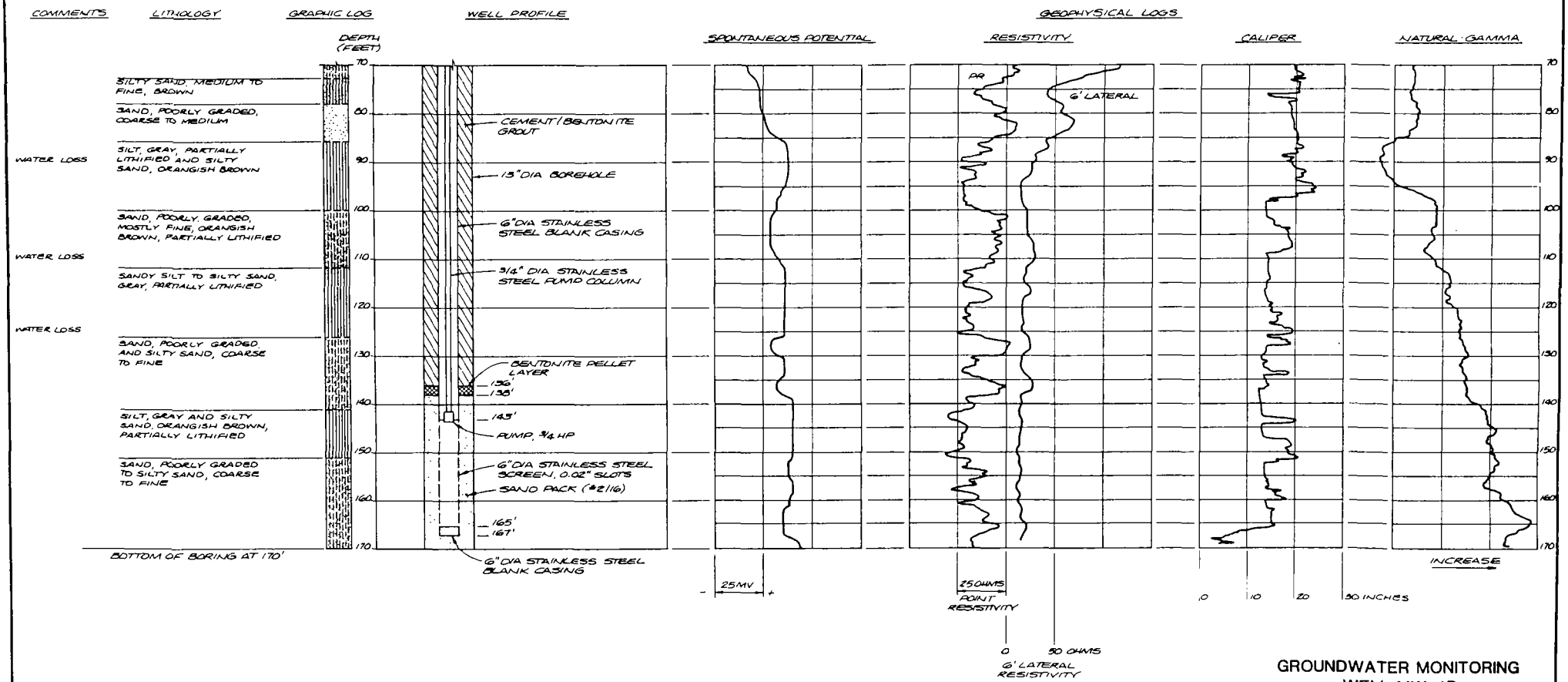
SHEET 1 OF 2

NOTES:

1. DEPTHS ARE APPROXIMATE.
2. GRAPHIC LOG AND WELL PROFILE ARE DIAGRAMMATIC.
3. WELL HEAD ELEVATION IS TOP OF WELL SOUNDING PIPE.
4. DETAILS OF WELL HEAD ARE NOT SHOWN.
5. LITHOLOGIC DESCRIPTIONS ARE BASED ON DRILL CUTTINGS AND INTERPRETATIONS OF GEOPHYSICAL LOGS

MONITORING WELL MW-1D

LOCATION: MAPLE STREET, SOUTH OF SITE
DRILLING START: 10-21-87 FINISH: 10-22-87
DRILLING METHOD: MUD ROTARY
GEOLOGIST: K.J. WHITE
GEOPHYSICAL LOGGING: 10-22-87
WELL CONSTRUCTED: 10-22-87
PUMP INSTALLED: 10-28-87



GROUNDWATER MONITORING WELL MW-1D

REMEDIAL INVESTIGATION REPORT
PURITY OIL SALES SITE
FRESNO, CALIFORNIA

SHEET 2 OF 2

NOTES:

1. DEPTHS ARE APPROXIMATE
2. GRAPHIC LOG AND WELL PROFILE ARE DIAGRAMMATIC.
3. WELL HEAD ELEVATION IS TOP OF WELL SOUNDING PIPE.
4. DETAILS OF WELL HEAD ARE NOT SHOWN.
5. LITHOLOGIC DESCRIPTIONS ARE BASED ON DRILL CUTTINGS AND INTERPRETATIONS OF GEOPHYSICAL LOGS

MONITORING WELL MW-2D

LOCATION: ON SITE

DRILLING START: 10/09/87 FINISH: 10/15/87

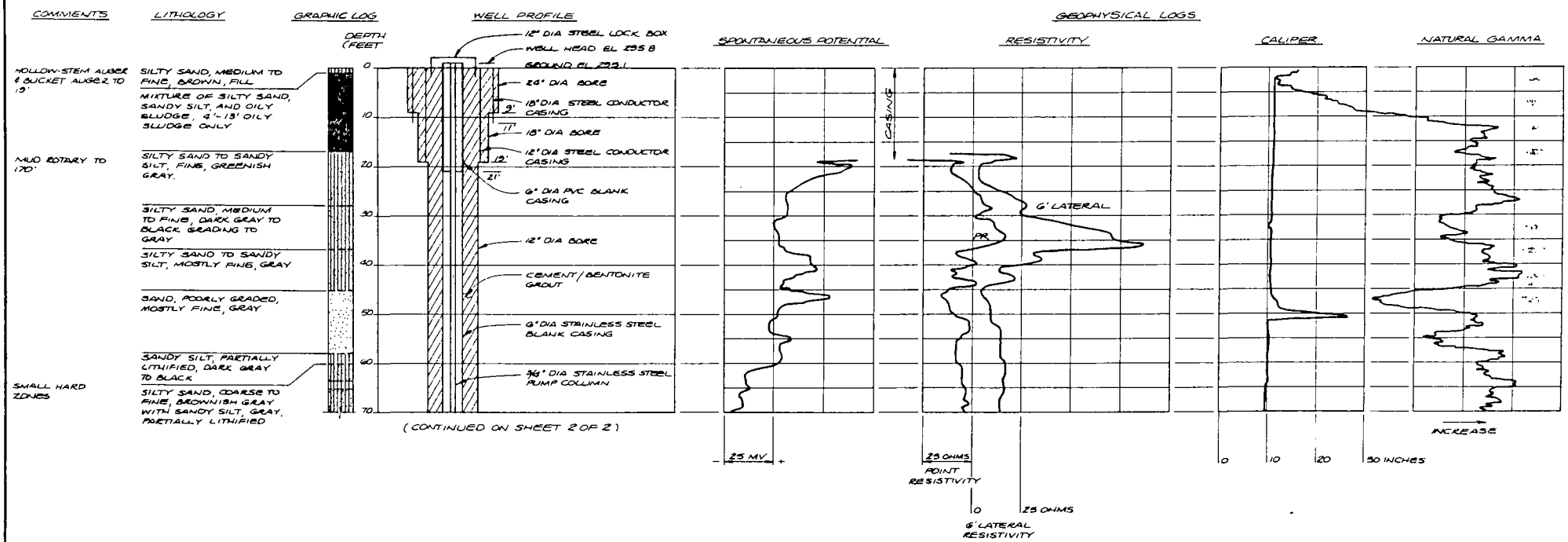
DRILLING METHOD: HOLLOW-STEM AUGER, BUCKET AUGER, MUD ROTARY

GEOLOGIST: K.J. WHITE

GEOPHYSICAL LOGGING: 10/16/87

WELL CONSTRUCTED: 10/20/87

PUMP INSTALLED: 10/30/87



(CONTINUED ON SHEET 2 OF 2)

GROUNDWATER MONITORING WELL MW-2D

REMEDIAL INVESTIGATION REPORT
PURITY OIL SALES SITE
FRESNO, CALIFORNIA

SHEET 1 OF 2

NOTES:

1. DEPTHS ARE APPROXIMATE.
2. GRAPHIC LOG AND WELL PROFILE ARE DIAGRAMMATIC.
3. WELL HEAD ELEVATION IS TOP OF WELL SOUNDING PIPE.
4. DETAILS OF WELL HEAD ARE NOT SHOWN
5. LITHOLOGIC DESCRIPTIONS ARE BASED ON DRILL CUTTINGS AND INTERPRETATIONS OF GEOPHYSICAL LOGS

MONITORING WELL MW-2D

LOCATION: ON SITE

DRILLING START: 10/9/87 FINISH: 10/13/87

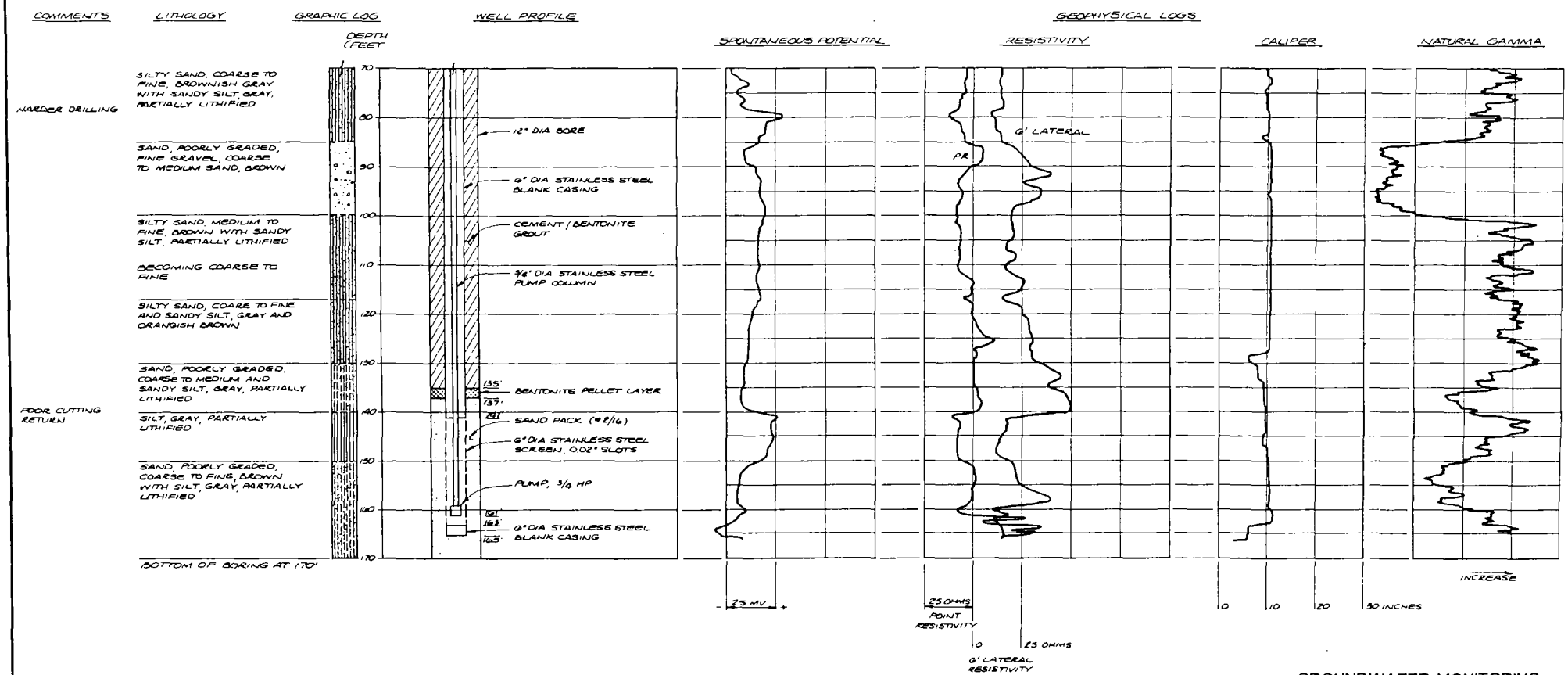
DRILLING METHOD: HOLLOW-STEM AUGER, BUCKET AUGER, MUD ROTARY

GEOLOGIST: K.J. WHITE

GEOPHYSICAL LOGGING: 10/16/87

WELL CONSTRUCTED: 10/20/87

PUMP INSTALLED: 10/30/87



GROUNDWATER MONITORING WELL MW-2D

REMEDIAL INVESTIGATION REPORT
PURITY OIL SALES SITE
FRESNO, CALIFORNIA

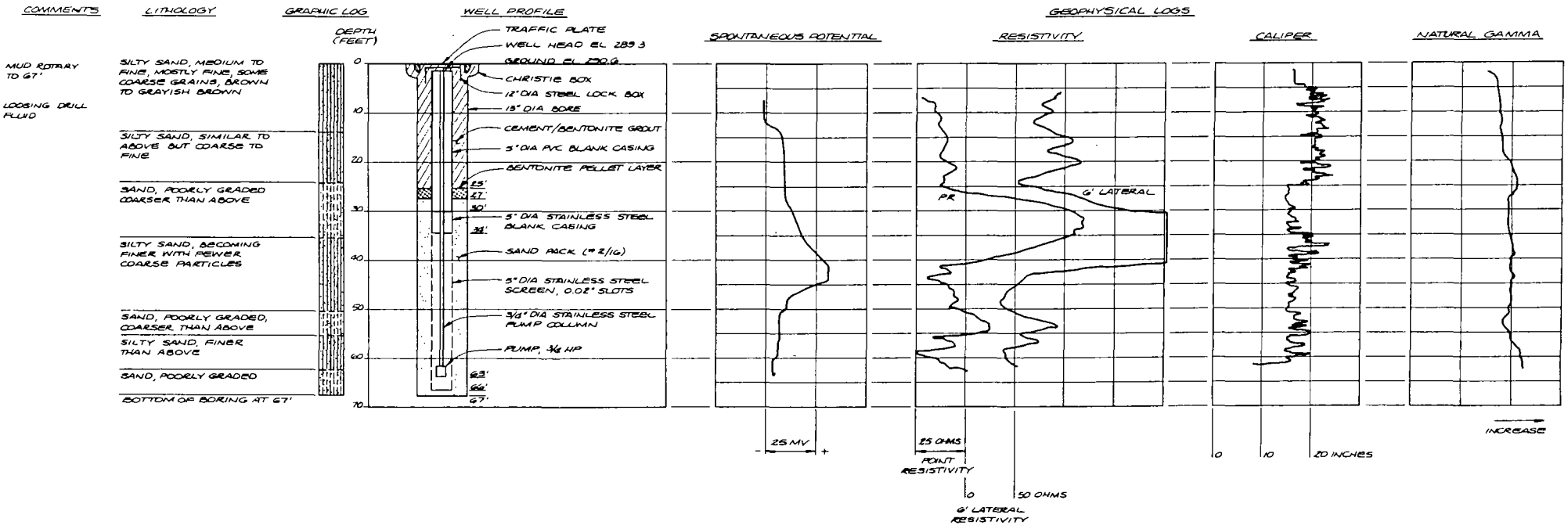
SHEET 2 OF 2

NOTES:

1. DEPTHS ARE APPROXIMATE.
2. GRAPHIC LOG AND WELL PROFILE ARE DIAGRAMMATIC.
3. WELL HEAD ELEVATION IS TOP OF WELL SOUNDING PIPE.
4. DETAILS OF WELL HEAD ARE NOT SHOWN.
5. LITHOLOGIC DESCRIPTIONS ARE BASED ON DRILL CUTTINGS AND INTERPRETATIONS OF GEOPHYSICAL LOGS

MONITORING WELL MW-1S

LOCATION: MAPLE ST., SOUTH OF SITE
DRILLING START: 10/26/87 FINISH: 10/27/87
DRILLING METHOD: MUD ROTARY
GEOLOGIST: D. WATSON
GEOPHYSICAL LOGGING: 10/26/87
WELL CONSTRUCTED: 10/27/87
PUMP INSTALLED: 10/30/87



GROUNDWATER MONITORING WELL MW-1S

REMEDIAL INVESTIGATION REPORT
PURITY OIL SALES SITE
FRESNO, CALIFORNIA

NOTES

1. DEPTHS ARE APPROXIMATE
2. GRAPHIC LOG AND WELL PROFILE ARE DIAGRAMMATIC
3. WELL HEAD ELEVATION IS TOP OF WELL SOUNDING PIPE.
4. DETAILS OF WELL HEAD ARE NOT SHOWN
5. LITHOLOGIC DESCRIPTIONS ARE BASED ON DRILL CUTTINGS AND INTERPRETATIONS OF GEOPHYSICAL LOGS

MONITORING WELL MW-2S

LOCATION: EAST SIDE OF SITE

DRILLING START: 10/9/87 FINISH: 10/12/87

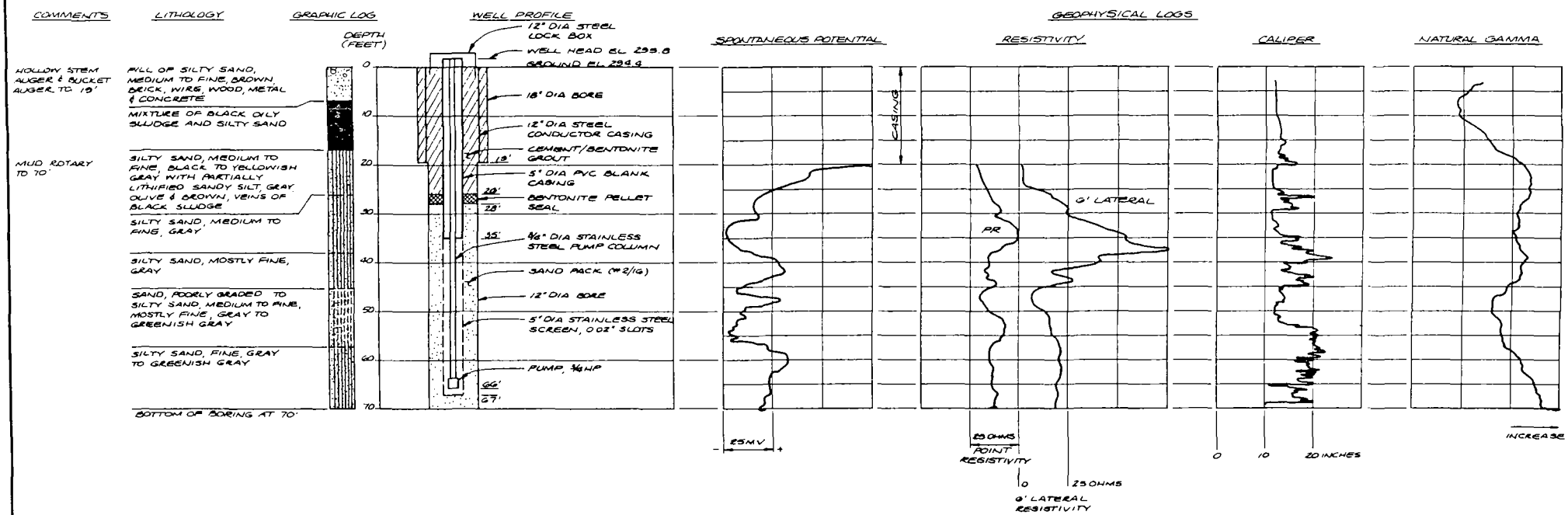
DRILLING METHOD: HOLLOW-STEM AUGER, BUCKET AUGER, MUD ROTARY

GEOLOGIST: D. WATSON / K. WHITE

GEOPHYSICAL LOGGING: 10/12/87

WELL CONSTRUCTED: 10/13/87

PUMP INSTALLED: 10/28/87



GROUNDWATER MONITORING WELL MW-2S

REMEDIAL INVESTIGATION REPORT
PURITY OIL SALES SITE
FRESNO, CALIFORNIA

NOTES.

1. DEPTHS ARE APPROXIMATE.
2. GRAPHIC LOG AND WELL PROFILE ARE DIAGRAMMATIC.
3. WELL HEAD ELEVATION IS TOP OF WELL SOUNDING PIPE.
4. DETAILS OF WELL HEAD ARE NOT SHOWN.
5. LITHOLOGIC DESCRIPTIONS ARE BASED ON DRILL CUTTINGS AND INTERPRETATIONS OF GEOPHYSICAL LOGS.

MONITORING WELL MW-3

LOCATION: ON SITE

DRILLING START: 10/9/87 FINISH: 10/14/87

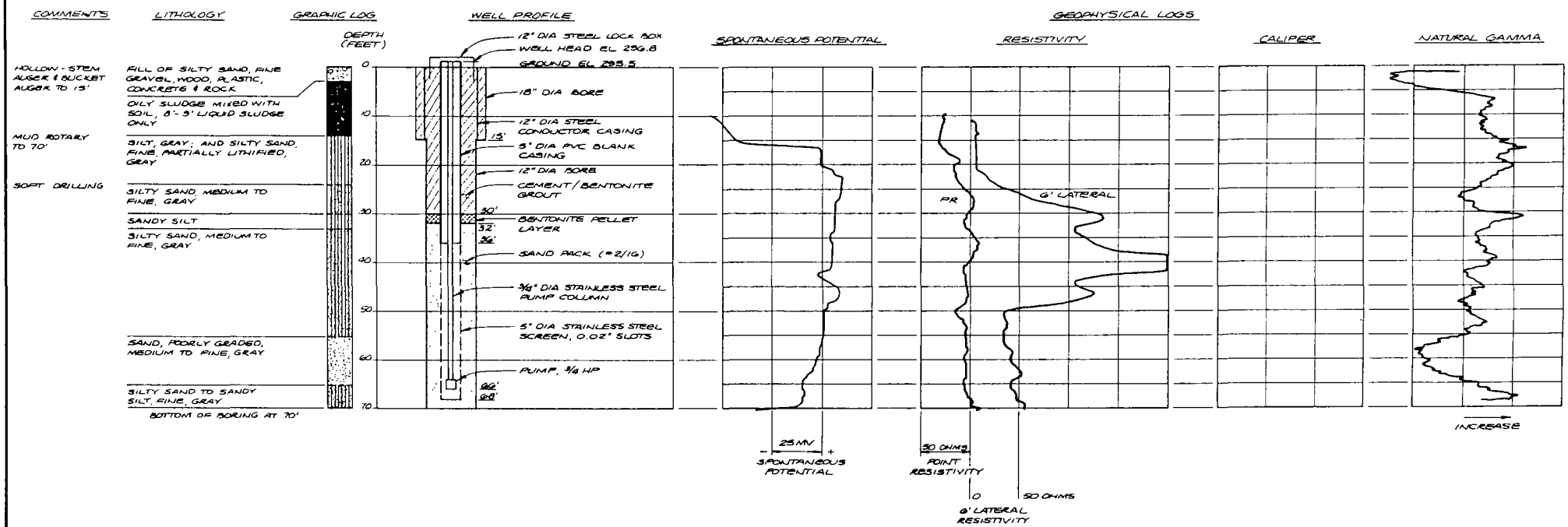
DRILLING METHOD: HOLLOW-STEM AUGER, BUCKET AUGER, MUD ROTARY

GEOLOGIST: K.J WHITE

GEOPHYSICAL LOGGING: 10/14/87

WELL CONSTRUCTED: 10/15/87

PUMP INSTALLED: 10/29/87



GROUNDWATER MONITORING WELL MW-3

REMEDIAL INVESTIGATION REPORT
PURITY OIL SALES SITE
FRESNO, CALIFORNIA

NOTES:

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5. LITHOLOGIC DESCRIPTIONS ARE BASED ON DRILL CUTTINGS AND INTERPRETATIONS OF GEOPHYSICAL LOGS

MONITORING WELL MW-4

LOCATION: ON SITE, WEST END

DRILLING START: 10/9/87 FINISH: 10/13/87

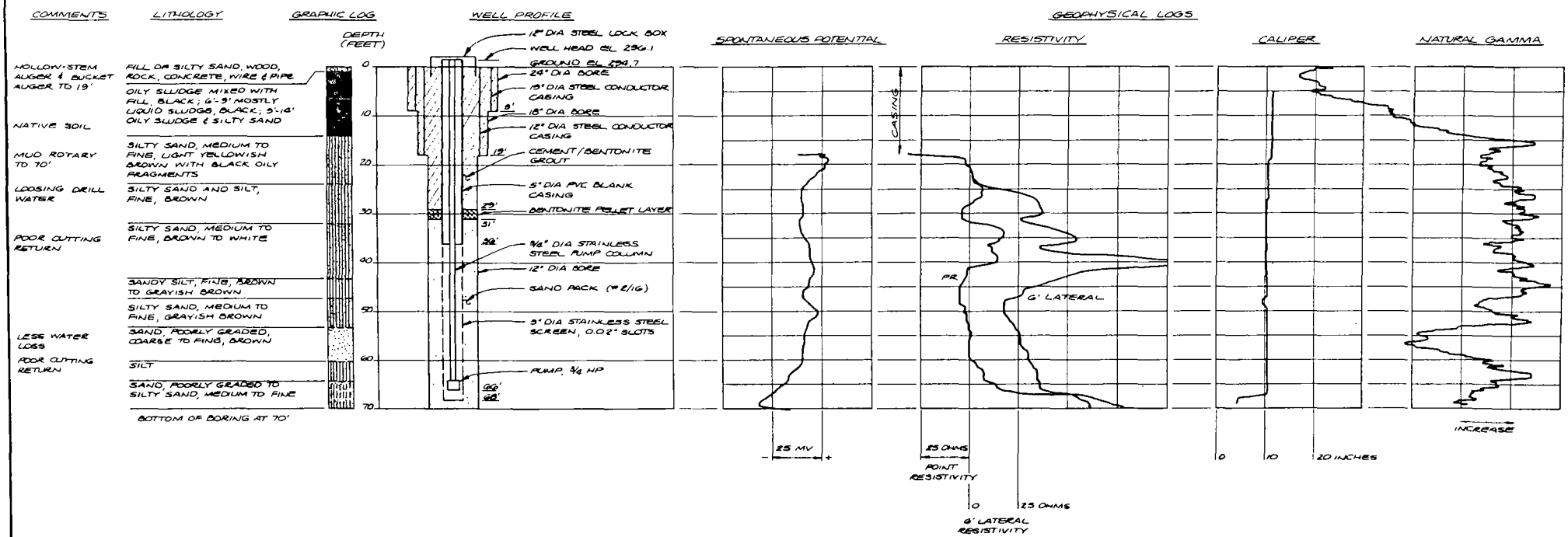
DRILLING METHOD: HOLLOW-STEM AUGER, BUCKET AUGER, MUD ROTARY

GEOLOGIST: K J. WHITE

GEOPHYSICAL LOGGING: 10/13/87

WELL CONSTRUCTED: 10/13/87

PUMP INSTALLED: 10/29/87



GROUNDWATER MONITORING WELL MW-4

REMEDIAL INVESTIGATION REPORT
PURITY OIL SALES SITE
FRESNO, CALIFORNIA

NOTES:

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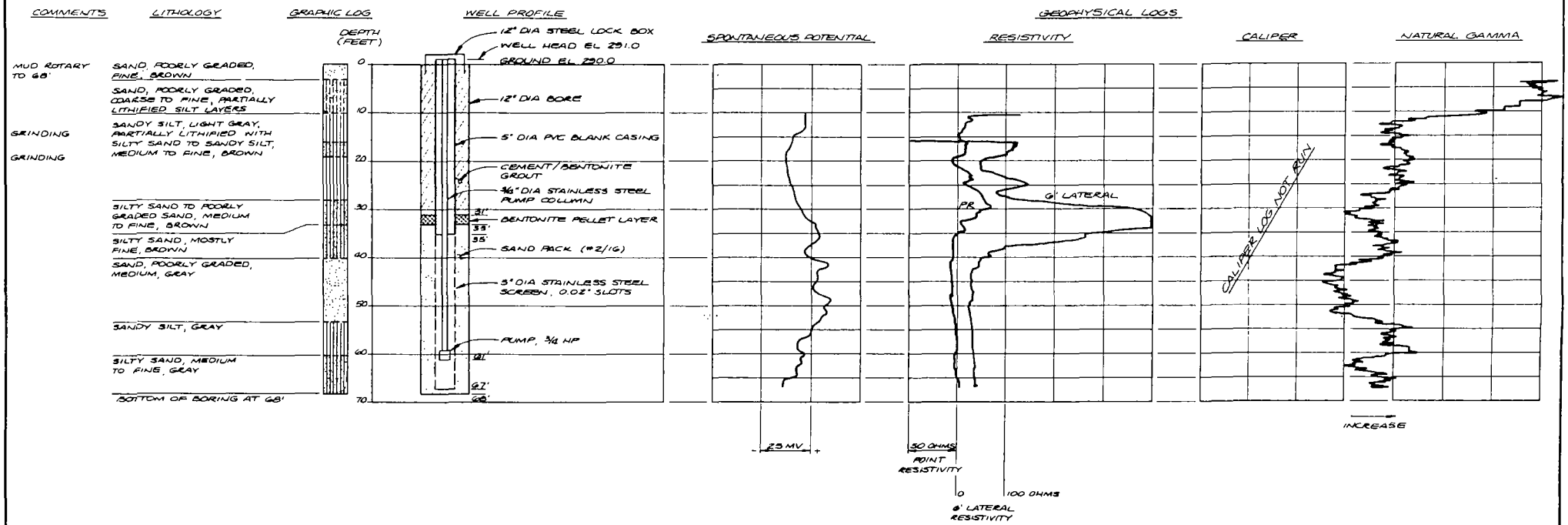
5. LITHOLOGIC DESCRIPTIONS ARE BASED ON DRILL CUTTINGS AND INTERPRETATIONS OF GEOPHYSICAL LOGS

MONITORING WELL MW-5

LOCATION: TALL TREES TRAILER COURT
DRILLING START: 10/5/87 FINISH: 10/5/87
DRILLING METHOD: MUD ROTARY
GEOLOGIST: K.J WHITE
GEOPHYSICAL LOGGING: 10/6/87
WELL CONSTRUCTED: 10/6/87
PUMP INSTALLED: 11/3/87



GROUNDWATER MONITORING WELL MW-5

REMEDIAL INVESTIGATION REPORT
PURITY OIL SALES SITE
FRESNO, CALIFORNIA

NOTES.

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3. WELL HEAD ELEVATION IS TOP OF WELL SOUNDING PIPE.
4. DETAILS OF WELL HEAD ARE NOT SHOWN
5. LITHOLOGIC DESCRIPTIONS ARE BASED DRILL CUTTINGS AND INTERPRETATIONS OF GEOPHYSICAL LOGS

MONITORING WELL MW-6

LOCATION: BRUNO'S

DRILLING START: 10/7/87 FINISH: 10/9/87

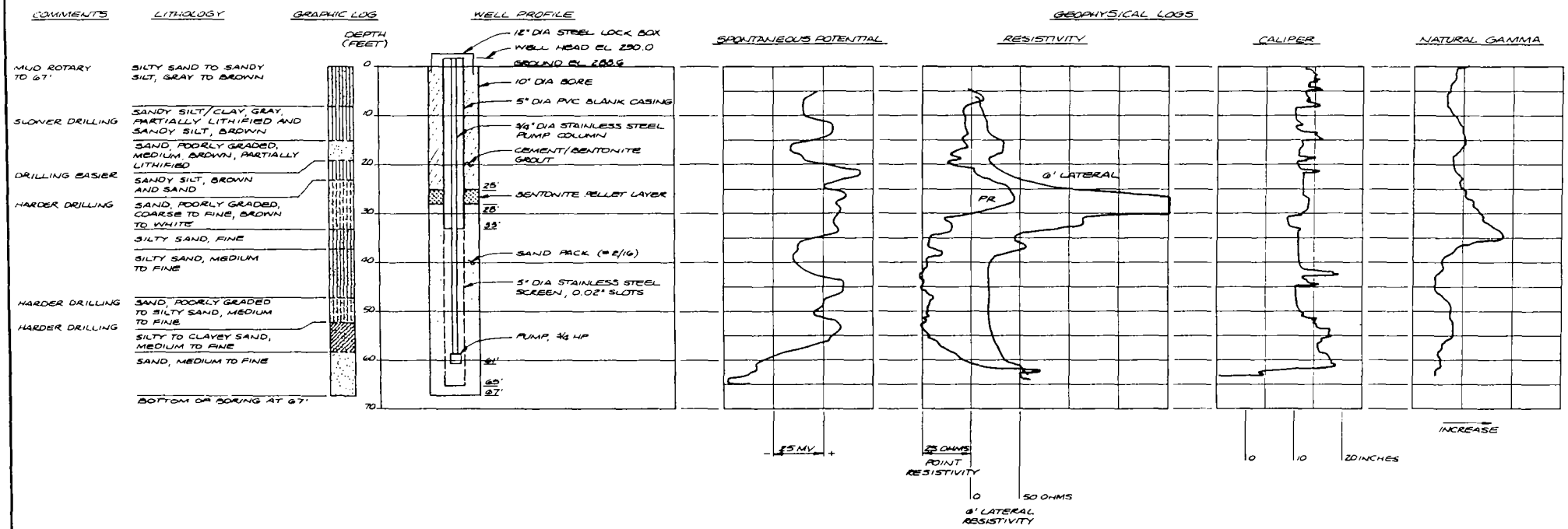
DRILLING METHOD: MUD ROTARY

GEOLOGIST: K.J WHITE

GEOPHYSICAL LOGGING: 10/8/87

WELL CONSTRUCTED: 10/8/87

PUMP INSTALLED: 11/3/87



GROUNDWATER MONITORING WELL MW-6

REMEDIAL INVESTIGATION REPORT
PURITY OIL SALES SITE
FRESNO, CALIFORNIA

NOTES:

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MONITORING WELL MW-7

LOCATION: WHOLESALE EQUIPMENT

DRILLING START: 10/1/87 FINISH: 10/1/87

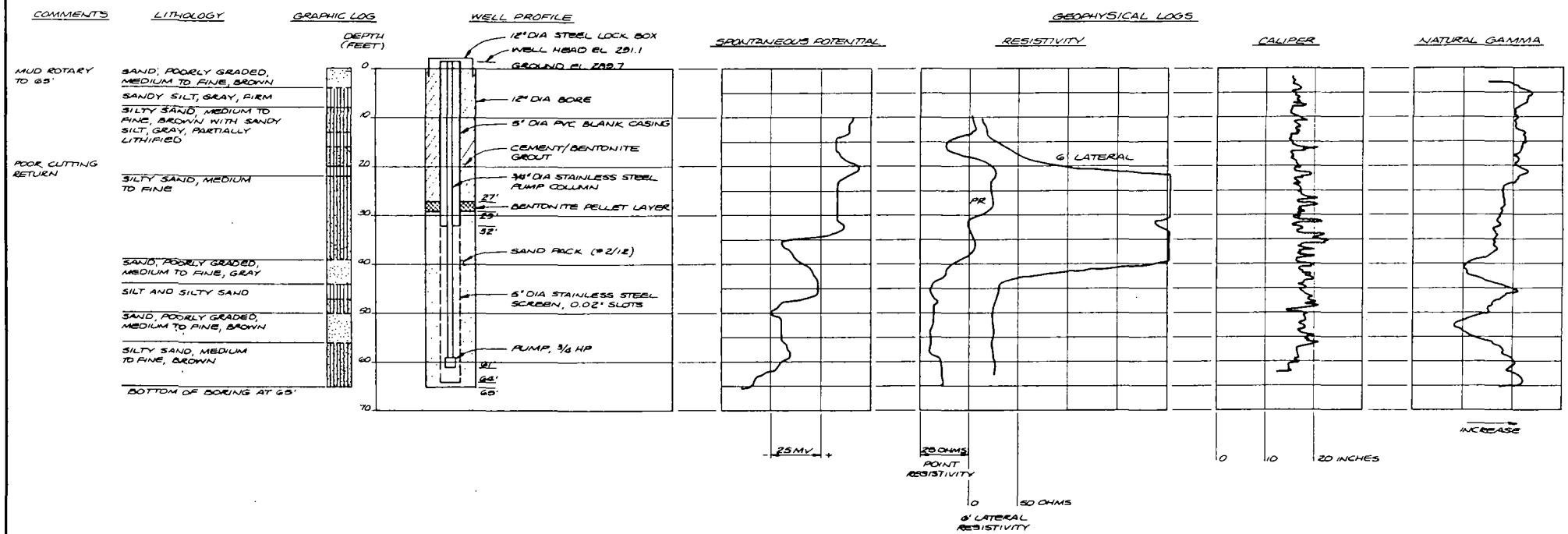
DRILLING METHOD: MUD ROTARY

GEOLOGIST: K.J. WHITE

GEOPHYSICAL LOGGING: 10/1/87

WELL CONSTRUCTED: 10/2/87

PUMP INSTALLED: 11/2/87



GROUNDWATER MONITORING WELL MW-7

REMEDIAL INVESTIGATION REPORT
PURITY OIL SALES SITE
FRESNO, CALIFORNIA

NOTES:

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3. WELL HEAD ELEVATION IS TOP OF WELL SOUNDING PIPE.
4. DETAILS OF WELL HEAD ARE NOT SHOWN.
5. LITHOLOGIC DESCRIPTIONS ARE BASED ON DRILL CUTTINGS AND INTERPRETATIONS OF GEOPHYSICAL LOGS

MONITORING WELL MW-8

LOCATION: WHOLESALE EQUIPMENT

DRILLING START: 9/28/87 FINISH: 9/29/87

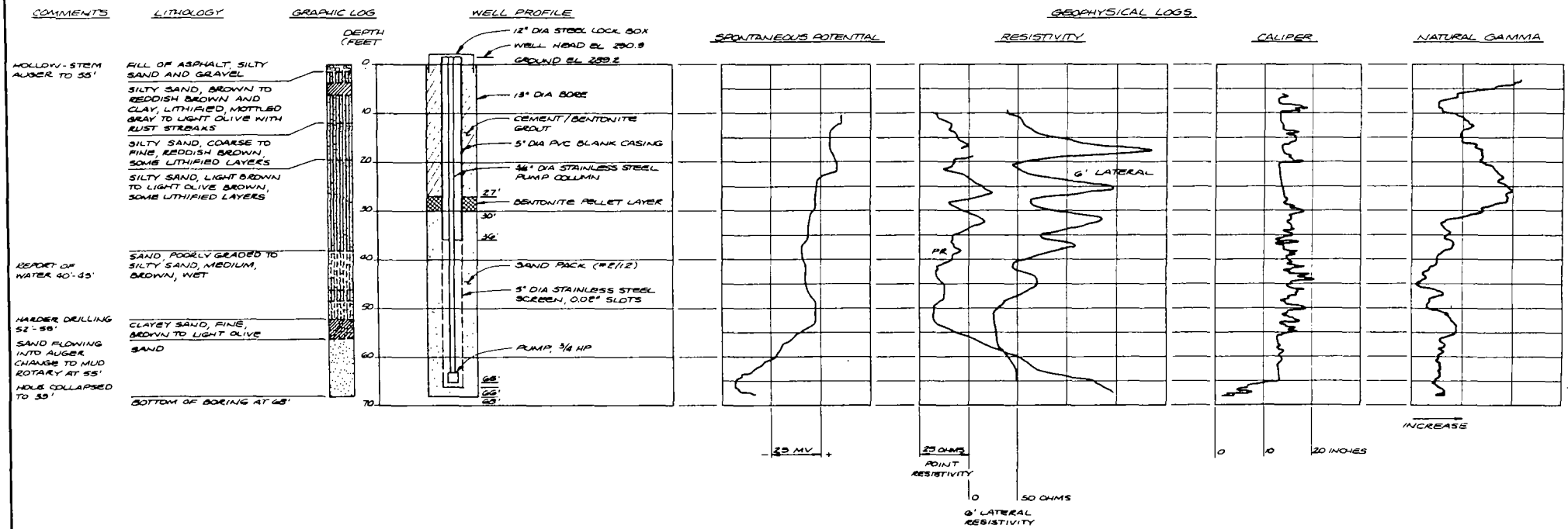
DRILLING METHOD: HOLLOW-STEM AUGER, MUD ROTARY

GEOLOGIST: K J WHITE

GEOPHYSICAL LOGGING: 9/29/87

WELL CONSTRUCTED: 9/30/87

PUMP INSTALLED: 10/30/87



GROUNDWATER MONITORING WELL MW-8

REMEDIAL INVESTIGATION REPORT
PURITY OIL SALES SITE
FRESNO, CALIFORNIA

NOTES:

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3. WELL HEAD ELEVATION IS TOP OF WELL SOUNDING PIPE.
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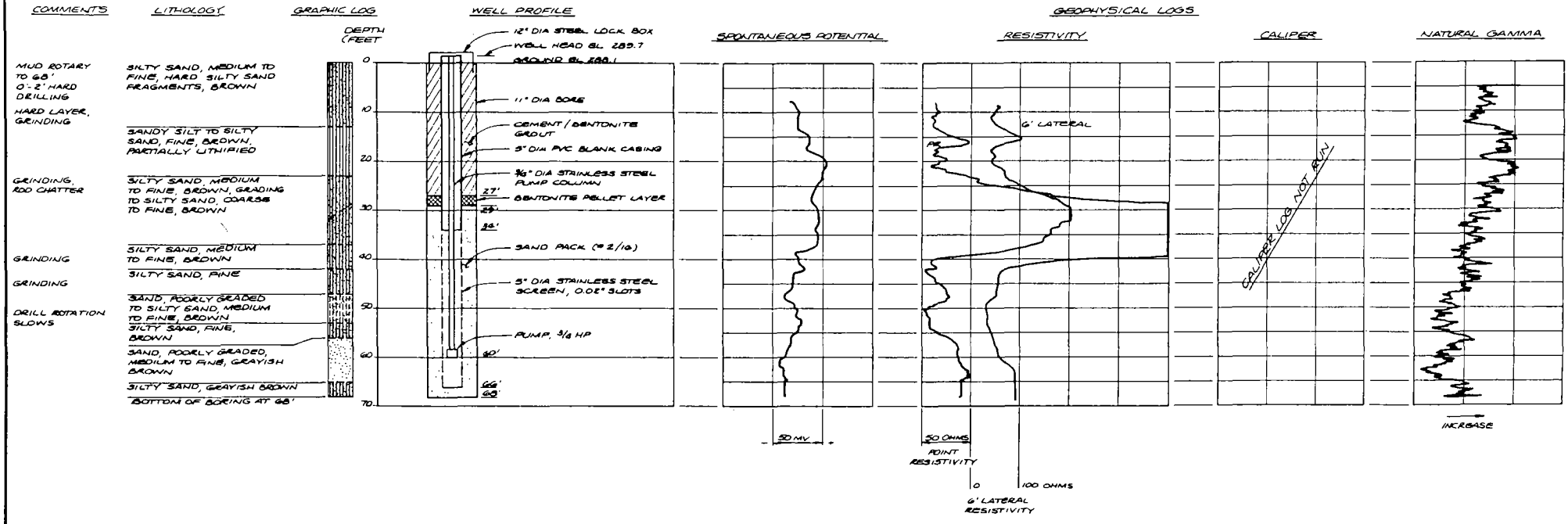
MONITORING WELL MW-9

LOCATION: KASCO FAB.
DRILLING START: 10/6/87 FINISH: 10/6/87
DRILLING METHOD: MUD ROTARY
GEOLOGIST: KJ WHITE
GEOPHYSICAL LOGGING: 10/6/87
WELL CONSTRUCTED: 10/6/87
PUMP INSTALLED: 11/3/87



GROUNDWATER MONITORING WELL MW-9

REMEDIAL INVESTIGATION REPORT
PURITY OIL SALES SITE
FRESNO, CALIFORNIA

Appendix F
GROUNDWATER SAMPLING RESULTS

Appendix F
GROUNDWATER SAMPLING RESULTS

This appendix presents the analysis results of groundwater sampling for general minerals (Table F-1), metals (Table F-2), volatile organic compounds (Table F-3), semivolatile organic compounds (Table F-4), tentatively identified semivolatile compounds (Table F-5), tentatively identified volatile compounds (Table F-6), an EPA/ERT study showing the chemical concentrations in groundwater samples from Monitoring Wells EPA-1 through EPA-7 (Table F-7), and the cations and anions balance.

In all the Appendix F tables, concentrations listed for blanks are the highest values detected in all blanks for that round. Only compounds that were detected are listed, and only wells with at least one detectable value are listed.

Several abbreviations are used in the tables. They are defined below.

L = Constituents detected in sample blanks.

J = Estimated value due to quantitation problems.

D = Located at end of station identification code--indicates a duplicated sample.

ND = Not detected

NT = Not tested

The laboratory identification code (shown in the tables as Lab ID) is as follows:

1 = Radian/HLA (EPA Method 601 was used to analyze for volatiles)

2 = CH2M HILL (Round 1)

3 = CLP (Round 2)

4 = Radian/HLA (indicates GC/MS used to analyze for volatiles)

5 = CLP (Round 3, EPA Las Vegas Lab)

Table F-2 uses the following abbreviations for metals:

Aluminum	AL	Lead	Pb
Antimony	Sb	Magnesium	Mg
Arsenic	As	Manganese	Mn
Barium	Ba	Mercury	Hg
Beryllium	Be	Molybdenum	Mo
Cadmium	Cd	Nickel	Ni
Calcium	Ca	Potassium	K
Chromium	Cr	Silver	Ag
Copper	Cu	Sodium	Na
Iron	Fe	Vanadium	V
		Zinc	Zn

For Table F-5, Tentatively Identified Semivolatiles, only the highest value detected in each sampling round was used for compounds listed as Unknown.

In Tables F-5 and F-6, tentatively identified volatile and semivolatile compounds, the letters A, B, or C indicate the probability that identification is correct, as follows:

A = High

B = Moderate

C = Low

GENERAL MINERALS

Table F-1
PURITY OIL SALES--ANALYSIS RESULTS
General Minerals
(µg/l)

Station ID	Date	Lab ID	Chloride	Sulfate	Bicarbonate	Carbonate	Nitrate	Sulfide	Total Dissolved Phosphorus	Alkalinity
BLANKS	06/18/87	2	6,000	3,000	5,000	ND	60	2,000	ND	ND
BLANKS	12/01/87	3	ND	ND	1,300	ND	ND	5,000	300	1,700
EPA1	07/26/84	1	42,000	235,000	NT	NT	ND	NT	NT	ND
EPA1	06/17/87	2	69,000 L	110,000 L	742,000 L	ND	17,800 L	1,000 L	80 J	608,000
EPA1	12/01/87	3	NT	91,000	NT	NT	NT	NT	NT	NT
EPA2	07/26/84	1	78,000	260,000	NT	NT	44,000	NT	NT	ND
EPA2	09/14/84	1	75,000	32,000	NT	NT	45,000	NT	NT	ND
EPA2	06/18/87	2	90,000 L	280,000 L	878,000 L	ND	13,000 L	1,000 L	ND	720,000
EPA2	12/01/87	3	NT	240,000	NT	NT	NT	NT	NT	NT
EPA4	06/19/87	2	16,000 L	17,000 L	310,000 L	ND	900 L	2,000 L	140	254,000
EPA4	12/01/87	3	NT	14,000	NT	NT	NT	NT	NT	NT
EPA7	07/26/84	1	22,000	31,000	NT	NT	38,000	NT	NT	ND
MW1D	12/01/87	3	86,000	36,000	173,000 L	ND	7,000 J	ND	200 L	284,000 L
MW1S	12/01/87	3	8,900	5,200	59,000 L	ND	ND	1,400 L	100 L	97,000 L
MW2D	12/01/87	3	88,000	37,000	192,000 L	ND	4,200 J	12,000 L	100 L	315,000 L
MW2S	12/01/87	3	117,000	210,000	334,000 L	ND	200 J	ND	400 L	547,000 L
MW2S-D	12/01/87	3	103,000	169,000	320,000 L	ND	200 J	ND	400 L	540,000 L
MW3	12/01/87	3	8,900	21,000	48,000 L	32,000	ND	2,400 L	300 L	132,000 L
MW4	12/01/87	3	1,600	33,000	131,000 L	ND	100 J	ND	100 L	215,000 L
MW4-D	12/01/87	3	1,800	34,000	133,000 L	ND	100 J	ND	100 L	218,000 L
MW5	12/01/87	3	101,000	195,000	413,000 L	5,100	ND	ND	100 L	686,000 L
MW6	12/01/87	3	18,000	196,000	184,000 L	ND	1,000 J	ND	30 L	301,000 L
MW7	12/01/87	3	142,000	126,000	251,000 L	ND	25,000 J	ND	100 L	411,000 L
MW8	12/01/87	3	28,000	54,000	234,000 L	ND	2,400 J	ND	200 L	384,000 L
MW9	12/01/87	3	14,000	57,000	143,000 L	ND	2,800 J	ND	ND	234,000 L

Table F-1
(Continued)

Station ID	Date	Lab ID	Chloride	Sulfate	Bicarbonate	Carbonate	Nitrate	Sulfide	Total Dissolved Phosphorus	Alkalinity
PWB	06/28/84	1	20,000	14,000	NT	NT	17,000	NT	NT	ND
PWB	06/16/87	2	20,000 L	14,000 L	200,000 L	NT	3,500 L	1,000 JL	60 J	170,000
PWB	12/01/87	3	NT	NT	NT	NT	NT	NT	NT	NT
PWCF	06/16/87	2	28,000 L	12,000 L	210,000 L	ND	5,200 L	1,000 JL	ND	170,000
PWCF	12/01/87	3	NT	NT	NT	NT	NT	NT	NT	NT
PWD	06/28/84	1	25,000	16,000	NT	NT	15,000	NT	NT	ND
PWD	06/05/87	2	37,000 L	14,000 L	240,000 L	ND	4,100 L	800 JL	ND	200,000
PWD	12/01/87	3	NT	NT	NT	NT	NT	NT	NT	NT
PWN	06/03/87	2	75,000 L	85,000 L	450,000 L	ND	100 L	1,000 JL	220 J	370,000
PWN	12/01/87	3	NT	NT	NT	NT	ND	ND	ND	NT
PWN-D	06/03/87	2	75,000 L	81,000 L	440,000 L	ND	200 L	600 JL	ND	360,000
PWN-D	12/01/87	3	NT	NT	NT	NT	NT	NT	NT	NT
PWNN	06/16/87	2	130,000 L	12,000 L	260,000 L	1,000	3,100 L	1,600 JL	ND	220,000
PWNN	12/01/87	3	NT	NT	NT	NT	NT	NT	NT	NT
PWNS	06/05/87	2	84,000 L	200,000 L	450,000 L	ND	9,500 L	1,200 JL	ND	370,000
PWNS	12/01/87	3	NT	NT	NT	NT	NT	NT	NT	NT
PWO	06/28/84	1	31,000	70,000	NT	NT	4,000	NT	NT	ND
PWO	06/16/87	2	70,000 L	75,000 L	380,000 L	ND	900 L	1,200 JL	150 J	310,000
PWO	12/01/87	3	NT	NT	NT	NT	NT	NT	NT	NT
PWP	06/16/87	2	50,000 L	47,000 L	320,000 L	ND	1,200 L	1,000 JL	80	260,000
PWP	12/01/87	3	NT	NT	NT	NT	NT	NT	NT	NT
PWQ	06/16/87	2	35,000 L	45,000 L	360,000 L	ND	8,200 L	1,200 JL	ND	290,000
PWQ	12/01/87	3	NT	NT	NT	NT	NT	NT	NT	NT
PWV	06/28/84	1	29,000	32,000	NT	NT	4,000	NT	NT	ND
PWV	06/16/87	2	44,000 L	23,000 L	290,000 L	ND	1,700 L	400 JL	ND	240,000
PWV	12/01/87	3	NT	NT	NT	NT	NT	NT	NT	NT
W1D	07/26/84	1	21,000	21,000	NT	NT	12,000	NT	NT	ND
W1D	06/18/87	2	56,000 L	48,000 L	335,000 L	ND	3,500 L	2,000 L	50	274,000
W1D	12/01/87	3	NT	75,000	NT	NT	NT	NT	NT	NT
W1S	07/26/84	1	99,000	170,000	NT	NT	ND	NT	NT	ND
W1S	06/18/87	2	110,000 L	130,000 L	542,000 L	ND	870 L	2,000 L	ND	444,000
W1S	12/01/87	3	NT	157,000	NT	NT	ND	ND	ND	NT
W1S-D	06/18/87	2	110,000 L	140,000 L	578,000 L	NT	1,500 L	1,000 L	ND	474,000
W1S-D	12/01/87	3	NT	164,000	NT	NT	NT	NT	NT	NT

Table F-1
(Continued)

Station ID	Date	Lab ID	Chloride	Sulfate	Bicarbonate	Carbonate	Nitrate	Sulfide	Total Dissolved Phosphorus	Alkalinity
W2D	07/26/84	1	3,000	10,000	NT	NT	ND	NT	NT	ND
W2D	09/14/84	1	2,000	4,000	NT	NT	ND	NT	NT	ND
W2D	06/18/87	2	3,000 L	3,000 L	145,000 L	NT	140 L	2,000 L	70	119,000
W2D	12/01/87	3	NT	3,200	NT	NT	NT	NT	NT	NT
W2S	07/26/84	1	37,000	40,000	NT	NT	2,000	NT	NT	ND
W2S	09/14/84	1	23,000	29,000	NT	NT	ND	NT	NT	ND
W2S	06/18/87	2	11,000 L	24,000 L	310,000 L	ND	30 L	1,000 L	100	254,000
W2S	12/01/87	3	NT	22,000	NT	NT	NT	NT	NT	NT
W3D	07/26/84	1	38,000	58,000	NT	NT	1,000	NT	NT	ND
W3D	09/14/84	1	4,000	12,000	NT	NT	ND	NT	NT	ND
W3D	06/18/87	2	9,000 L	51,000 L	151,000 L	ND	400 L	2,000 L	130	124,000
W3D	12/01/87	3	NT	28,000	NT	NT	NT	NT	NT	NT
W3S	07/26/84	1	33,000	320,000	NT	NT	ND	NT	NT	ND
W3S	06/18/87	2	16,000 L	500,000 L	461,000 L	ND	400 L	2,000 L	ND	378,000
W3S	12/01/87	3	NT	1,120,000	NT	NT	NT	NT	NT	NT
W4	07/26/84	1	46,000	48,000	NT	NT	13,000	NT	NT	ND
W4	09/14/84	1	10,000	19,000	NT	NT	ND	NT	NT	ND
W5	07/26/84	1	63,000	81,000	NT	NT	10,000	NT	NT	ND
W5	09/14/84	1	55,000	66,000	NT	NT	ND	NT	NT	ND
W5	06/17/87	2	65,000 L	98,000 L	425,000 L	ND	1,760 L	1,000 L	80 J	348,000
W5	12/01/87	3	NT	85,000	NT	NT	NT	NT	NT	NT
W6	07/26/84	1	6,000	37,000	NT	NT	3,000	NT	NT	ND
W6	09/14/84	1	7,000	14,000	NT	NT	3,000	NT	NT	ND
W6	06/19/87	2	12,000 L	120,000 L	215,000 L	ND	800 L	2,000 L	ND	176,000
W6	12/01/87	3	NT	49,000	NT	NT	NT	NT	NT	NT
W7	07/26/84	1	19,000	56,000	NT	NT	5,000	NT	NT	ND
W7	09/14/84	1	7,000	17,000	NT	NT	ND	NT	NT	ND
W7	06/17/87	2	10,000 L	7,000 L	164,000 L	ND	1,160 L	2,000 L	ND	134,000
W7	12/01/87	3	NT	14,000	NT	NT	NT	NT	NT	NT
W7-D	06/17/87	2	8,000 L	7,000 L	170,000 L	ND	690 L	2,000 L	ND	140,000
W8	07/26/84	1	6,000	27,000	NT	NT	ND	NT	NT	ND
W8	06/19/87	2	12,000 L	130,000 L	190,000 L	ND	800	2,000 L	ND	156,000
W8	12/01/87	3	NT	186,000	NT	NT	NT	NT	NT	NT
W9	07/26/84	1	34,000	30,000	NT	NT	12,000	NT	NT	ND
W9	06/19/87	2	26,000 L	20,000	236,000 L	ND	3,500 L	2,000 L	120	193,000
W9	12/01/87	3	NT	21,000	NT	NT	NT	NT	NT	NT

Table F-1
(Continued)

Station ID	Date	Lab ID	Total Dissolved Solids	Total Organic Carbon	Chemical Oxygen Demand	Hardness	Fluoride
BLANKS	06/18/87	2	30,000	ND	16,000	34,000	ND
BLANKS	12/01/87	3	26,000	NT	NT	NT	NT
EPA1	07/26/84	1	1,400,000	2,000	46,000	592,000	900,000
EPA1	06/17/87	2	1,053,000 JL	3,400	ND	470,000 L	ND
EPA1	12/01/87	3	1,120,000 L	NT	NT	NT	NT
EPA2	07/26/84	1	1,400,000	30,000	10,000	580,000	800,000
EPA2	09/14/84	1	1,400,000	6,000	78,000	667,000	1,000,000
EPA2	06/18/87	2	1,440,000 JL	8,600	20,000 L	610,000 L	ND
EPA2	12/01/87	3	1,360,000 L	NT	NT	NT	NT
EPA4	06/19/87	2	303,000 JL	4,400	29,000 L	260,000 L	ND
EPA4	12/01/87	3	368,000 L	NT	NT	NT	NT
EPA7	07/26/84	1	520,000	1,000	31,000	420,000	ND
MW1D	12/01/87	3	510,000 L	ND	24,000	374,000	ND
MW1S	12/01/87	3	160,000 L	ND	ND	120,000	ND
MW2D	12/01/87	3	570,000 L	ND	139,000	374,000	ND
MW2S	12/01/87	3	1,070,000 L	17,000	64,000	545,000	ND
MW2S-D	12/01/87	3	1,000,000 L	17,000	179,000	570,000	ND
MW3	12/01/87	3	192,000 L	2,200	45,000	164,000	ND
MW4	12/01/87	3	296,000 L	ND	91,000	224,000	ND
MW4-D	12/01/87	3	298,000 L	ND	ND	316,000	ND
MW5	12/01/87	3	1,200,000 L	27,000	107,000	372,000	ND
MW6	12/01/87	3	680,000 L	3,900	9,600	440,000	ND
MW7	12/01/87	3	876,000 L	ND	7,200	570,000	ND
MW8	12/01/87	3	554,000 L	4,900	29,000	480,000	ND
MW9	12/01/87	3	396,000 L	ND	ND	280,000	ND

Table F-1
(Continued)

Station ID	Date	Lab ID	Total Dissolved Solids	Total Organic Carbon	Chemical Oxygen Demand	Hardness	Fluoride
PWB	06/28/84	1	290,000	ND	ND	192,000	100,000
PWB	06/16/87	2	290,000 L	ND	ND	200,000 L	ND
PWB	12/01/87	3	292,000 L	NT	NT	NT	NT
PWCF	06/16/87	2	310,000 L	ND	ND	200,000 L	ND
PWCF	12/01/87	3	286,000 L	NT	NT	NT	NT
PWD	06/28/84	1	330,000	ND	16,000	208,000	100,000
PWD	06/05/87	2	350,000 L	ND	ND	220,000 L	ND
PWD	12/01/87	3	356,000 L	NT	NT	NT	NT
PWN	06/03/87	2	660,000 L	7,900	26,000 L	430,000 L	ND
PWN	12/01/87	3	626,000 L	NT	NT	NT	NT
PWN-D	06/03/87	2	690,000 L	8,200	29,000 L	430,000 L	ND
PWN-D	12/01/87	3	624,000 L	NT	NT	NT	NT
PWNN	06/16/87	2	520,000 L	ND	ND	370,000 L	ND
PWNN	12/01/87	3	526,000 L	NT	NT	NT	NT
PWNS	06/05/87	2	840,000 L	3,200	ND	290,000 L	ND
PWNS	12/01/87	3	802,000 L	NT	NT	NT	NT
PWO	06/28/84	1	586,000	2,000	ND	351,000	200,000
PWO	06/16/87	2	620,000 L	5,300	16,000 L	400,000 L	ND
PWO	12/01/87	3	568,000 L	NT	NT	NT	NT
PWP	06/16/87	2	480,000 L	220,000	16,000 L	320,000 L	ND
PWP	12/01/87	3	454,000 L	NT	NT	NT	NT
PWQ	06/16/87	2	500,000 L	1,200	ND	290,000 L	ND
PWQ	12/01/87	3	478,000 L	NT	NT	NT	NT
PWV	06/28/84	1	440,000 L	4,000	16,000	260,000	100,000
PWV	06/16/87	2	390,000 L	2,400	13,000 L	270,000 L	ND
PWV	12/01/87	3	408,000 L	NT	NT	NT	NT
W1D	07/26/84	1	370,000	1,000	78,000	260,000	ND
W1D	06/18/87	2	497,000 JL	2,200	ND	340,000 L	ND
W1D	12/01/87	3	502,000 L	NT	NT	NT	NT
W1S	07/26/84	1	835,000	12,000	77,000	400,000	500,000
W1S	06/18/87	2	888,000 JL	10,200	33,000 L	540,000 L	ND
W1S	12/01/87	3	904,000 L	NT	NT	NT	NT
W1S-D	06/18/87	2	935,000 JL	12,900	29,000 L	480,000 L	ND
W1S-D	12/01/87	3	940,000 L	NT	NT	NT	NT

Table F-1
(Continued)

Station ID	Date	Lab ID	Total Dissolved Solids	Total Organic Carbon	Chemical Oxygen Demand	Hardness	Fluoride
W2D	07/26/84	1	230,000	6,000	10,000	126,000	800,000
W2D	09/14/84	1	390,000	6,000	62,000	150,000	ND
W2D	06/18/87	2	156,000 JL	1,200	10,000 L	110,000 L	ND
W2D	12/01/87	3	198,000 L	NT	NT	NT	NT
W2S	07/26/84	1	535,000	2,000	15,000	530,000	500,000
W2S	09/14/84	1	290,000	22,000	ND	31,000	ND
W2S	06/18/87	2	353,000 JL	8,400	29,000 L	230,000 L	ND
W2S	12/01/87	3	326,000 L	NT	NT	NT	NT
W3D	07/26/84	1	270,000	1,000	180,000	134,000	200,000
W3D	09/14/84	1	170,000 L	2,000	46,000	92,000	ND
W3D	06/18/87	2	257,000 L	1,100	13,000 L	150,000 L	ND
W3D	12/01/87	3	236,000 L	NT	NT	NT	NT
W3S	07/26/84	1	735,000	6,000	62,000	280,000	ND
W3S	06/18/87	2	1,258,000 JL	6,300	23,000 L	790,000 L	ND
W3S	12/01/87	3	2,130,000 L	NT	NT	NT	NT
W4	07/26/84	1	580,000	22,000	40,000	156,000	200,000
W4	09/14/84	1	410,000	9,000	15,000	340,000	ND
W5	07/26/84	1	610,000	7,000	130,000	330,000	300,000
W5	09/14/84	1	620,000	8,000	46,000	390,000	ND
W5	06/17/87	2	654,000 JL	7,300	20,000 L	410,000 L	ND
W5	12/01/87	3	632,000 L	NT	NT	NT	NT
W6	07/26/84	1	297,000	2,000	160,000	141,000	200,000
W6	09/14/84	1	200,000	1,000	62,000	125,000	ND
W6	06/19/87	2	327,000 JL	1,400	20,000 L	220,000 L	ND
W6	12/01/87	3	302,000 L	NT	NT	NT	NT
W7	07/26/84	1	413,000	4,000	190,000	250,000	100,000
W7	09/14/84	1	260,000	2,000	31,000	190,000	ND
W7	06/17/87	2	207,000 JL	1,300	ND	140,000 L	ND
W7	12/01/87	3	252,000 L	NT	NT	NT	NT
W7-D	06/17/87	2	191,000 JL	1,200	ND	140,000 L	ND
W8	07/26/84	1	275,000	6,000	46,000	200,000	ND
W8	06/19/87	2	424,000 JL	1,800	20,000 L	290,000 L	ND
W8	12/01/87	3	534,000 L	NT	NT	NT	NT
W9	07/26/84	1	325,000	1,000	ND	210,000	ND
W9	06/19/87	2	337,000 JL	ND	12,000 L	220,000 L	ND
W9	12/01/87	3	342,000 L	NT	NT	NT	NT

METALS

Table F-2
PURITY OIL SALES--ANALYSIS RESULTS
Metals
(µg/l)

Station ID	Date	Lab ID	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Cu	Fe	Mo
BLANKS	06/18/87	2	4.0	ND	ND	ND	ND	ND	4,000.0	ND	ND	ND	ND
BLANKS	12/01/87	3	43.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BLANKS	06/20/88	5	NT	NT	NT	NT	NT	NT	NT	NT	NT	69.0 J	NT
EPA1	09/14/84	1	NT	100.0	2.0	110.0	NT	ND	140,000.0	18.0	ND	NT	20.0
EPA1	06/17/87	2	ND	ND	ND	ND	ND	ND	110,000.0 L	ND	ND	ND	ND
EPA1	12/01/87	3	129.0 JL	ND	ND	91.6	ND	ND	109,000.0	ND	ND	11.4 J	ND
EPA2	07/26/84	1	NT	NT	3.0	NT	NT	28.0	NT	8.0	ND	NT	NT
EPA2	09/14/84	1	NT	110.0	ND	87.0	NT	ND	150,000.0	22.0	8.0	NT	23.0
EPA2	06/18/87	2	ND	340.0	ND	ND	ND	ND	140,000.0 L	ND	ND	ND	ND
EPA2	12/01/87	3	115.0 JL	ND	ND	46.4	ND	ND	134,000.0	ND	6.0	24.4 J	ND
EPA4	06/19/87	2	ND	ND	ND	ND	ND	ND	5,700.0 L	ND	ND	ND	ND
EPA4	12/01/87	3	168.0 JL	ND	2.8	105.0	ND	ND	77,200.0	ND	ND	20.5 J	ND
EPA7	09/14/84	1	NT	110.0	2.0	73.0	NT	ND	100,000.0	24.0	11.0	NT	40.0
MW1D	12/01/87	3	31.7 L	ND	ND	87.6	ND	ND	75,700.0	ND	ND	ND	ND
MW1D	06/20/88	5	ND	NT	NT	NT	NT	NT	NT	NT	NT	47.0 J	NT
MW1S	12/01/87	3	ND	ND	2.9	26.1	ND	ND	21,700.0	ND	ND	ND	ND
MW1S	06/20/88	5	NT	NT	NT	NT	NT	NT	NT	NT	NT	74.0 J	NT
MW2D	12/01/87	3	ND	ND	23.4	23.2	ND	ND	26,500.0	ND	ND	ND	ND
MW2D	06/20/88	5	NT	NT	NT	NT	NT	NT	NT	NT	NT	39.0 J	NT
MW2S	12/01/87	3	ND	ND	9.2	112.0	ND	ND	114,000.0	ND	ND	1,270.0	ND
MW2S-D	12/01/87	3	53.0 L	ND	11.2	84.4	ND	ND	93,800.0	ND	ND	950.0	ND
MW2S	06/20/88	5	NT	NT	NT	NT	NT	NT	NT	NT	NT	190.0 J	NT
MW2S-D	06/20/88	5	NT	NT	NT	NT	NT	NT	NT	NT	NT	956.0 J	NT
MW3	12/01/87	3	37.6 L	ND	2.5	193.0	ND	ND	85,100.0	ND	ND	ND	ND
MW3	06/20/88	5	NT	NT	NT	NT	NT	NT	NT	NT	NT	134.0 J	NT
MW4	12/01/87	3	29.6 L	ND	ND	58.7	ND	ND	58,500.0	ND	ND	1,460.0	ND
MW4-D	12/01/87	3	34.2 L	ND	ND	59.5	ND	ND	61,300.0	ND	ND	1,140.0	ND
MW4	06/20/88	5	NT	NT	NT	NT	NT	NT	NT	NT	NT	66.0 J	NT
MW5	12/01/87	3	ND	ND	20.9	151.0	ND	ND	80,300.0	ND	ND	1,220.0	ND
MW5	06/20/88	5	NT	NT	NT	NT	NT	NT	NT	NT	NT	960.0 J	NT
MW5-D	06/20/88	5	NT	NT	NT	NT	NT	NT	NT	NT	NT	970.0 J	NT

Table F-2
(Continued)

Station ID	Date	Lab ID	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Cu	Fe	Mo
MW6	12/01/87	3	ND	ND	ND	83.2	ND	ND	105,000.0	ND	ND	385.0	ND
MW6	06/20/88	5	NT	NT	NT	NT	NT	NT	NT	NT	NT	104.0 J	NT
MW7	12/01/87	3	ND	ND	3.2	155.0	ND	ND	108,000.0	ND	ND	ND	ND
MW7	06/20/88	5	NT	NT	NT	NT	NT	NT	NT	NT	NT	57.0 J	NT
MW8	12/01/87	3	ND	ND	ND	129.0	ND	ND	83,300.0	ND	ND	ND	ND
MW8	06/20/88	5	NT	NT	NT	NT	NT	NT	NT	NT	NT	86.0 J	NT
MW9	12/01/87	3	ND	ND	ND	118.0	ND	ND	57,200.0	ND	ND	70.9	ND
MW9	06/20/88	5	NT	NT	NT	NT	NT	NT	NT	NT	NT	45.0 J	NT
PWB	06/28/84	1	NT	NT	5.0	NT	NT	ND	NT	ND	6.0	NT	NT
PWB	06/16/87	2	ND	ND	ND	ND	ND	ND	42,000.0 L	ND	ND	ND	ND
PWCF	06/16/87	2	ND	ND	ND	ND	ND	ND	39,000.0 L	ND	ND	ND	ND
PWD	06/28/84	1	NT	NT	5.0	NT	NT	72.0	NT	ND	4.0	NT	NT
PWD	06/05/87	2	ND	ND	ND	ND	ND	ND	46,000.0 L	ND	ND	ND	ND
PWN	06/03/87	2	ND	ND	ND	260.0	ND	ND	93,000.0 L	ND	ND	ND	ND
PWN-D	06/03/87	2	ND	ND	ND	250.0	ND	ND	94,000.0 L	ND	ND	ND	ND
PWNN	06/16/87	2	ND	ND	ND	ND	ND	ND	73,000.0 L	ND	ND	ND	ND
PWNS	06/05/87	2	ND	ND	ND	ND	ND	ND	106,000.0 L	ND	ND	ND	ND
PWO	06/28/84	1	NT	NT	5.0	NT	NT	ND	NT	ND	ND	NT	NT
PWO	06/16/87	2	ND	ND	ND	210.0	ND	ND	84,000.0 L	ND	ND	ND	ND
PWP	06/16/87	2	ND	ND	ND	ND	ND	ND	64,000.0 L	ND	ND	ND	ND
PWQ	06/16/87	2	ND	ND	ND	ND	ND	ND	62,000.0 L	ND	ND	ND	ND
PWV	06/28/84	1	NT	NT	5.0	NT	NT	ND	NT	2.0	1.0	NT	NT
PWV	06/16/87	2	ND	ND	ND	ND	ND	ND	54,000.0 L	ND	ND	ND	ND
PW6	06/20/88	5	NT	NT	NT	NT	NT	NT	NT	NT	NT	62.0 J	NT
PW7	06/20/88	5	NT	NT	NT	NT	NT	NT	NT	NT	NT	86.0 J	NT
PW9	06/20/88	5	NT	NT	NT	NT	NT	NT	NT	NT	NT	40.0 J	NT

Table F-2
(Continued)

Station ID	Date	Lab ID	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Cu	Fe	Mo
PW10	06/20/88	5	NT	NT	NT	NT	NT	NT	NT	NT	NT	45.0 J	NT
PW11	06/20/88	5	NT	NT	NT	NT	NT	NT	NT	NT	NT	42.0 J	NT
PW12	06/20/88	5	NT	NT	NT	NT	NT	NT	NT	NT	NT	59.0 J	NT
PW13	06/20/88	5	NT	NT	NT	NT	NT	NT	NT	NT	NT	74.0 J	NT
PW23	06/20/88	5	NT	NT	NT	NT	NT	NT	NT	NT	NT	79.0 J	NT
PW24	06/20/88	5	NT	NT	NT	NT	NT	NT	NT	NT	NT	41.0 J	NT
PW25	06/20/88	5	NT	NT	NT	NT	NT	NT	NT	NT	NT	41.0 J	NT
PW26	06/20/88	5	NT	NT	NT	NT	NT	NT	NT	NT	NT	39.0 J	NT
PW27	06/20/88	5	NT	NT	NT	NT	NT	NT	NT	NT	NT	42.0 J	NT
PW36a	06/20/88	5	NT	NT	NT	NT	NT	NT	NT	NT	NT	45.0 J	NT
PW37	06/20/88	5	NT	NT	NT	NT	NT	NT	NT	NT	NT	53.0 J	NT
PW39	06/20/88	5	NT	NT	NT	NT	NT	NT	NT	NT	NT	106.0 J	NT
PW39-D	06/20/88	5	NT	NT	NT	NT	NT	NT	NT	NT	NT	45.0 J	NT
PW40	06/20/88	5	NT	NT	NT	NT	NT	NT	NT	NT	NT	48.0 J	NT
PW41	06/20/88	5	NT	NT	NT	NT	NT	NT	NT	NT	NT	41.0 J	NT
W1D	09/14/84	1	NT	120.0	ND	89.0	NT	ND	55,000.0	28.0	24.0	NT	33.0
W1D	06/18/87	2	ND	ND	ND	ND	ND	ND	67,000.0 L	ND	ND	ND	ND
W1D	12/01/87	3	151.0 JL	ND	ND	154.0	ND	ND	75,600.0	ND	ND	49.5 J	ND
W1S	09/14/84	1	NT	140.0	16.0	88.0	NT	ND	95,000.0	27.0	26.0	NT	37.0
W1S	06/18/87	2	ND	ND	12.0	ND	ND	ND	110,000.0 L	ND	ND	250.0	ND
W1S-D	06/18/87	2	ND	ND	ND	ND	ND	ND	110,000.0 L	ND	ND	350.0	ND
W1S	12/01/87	3	116.0 JL	ND	3.2	141.0	ND	ND	124,000.0	ND	ND	1,100.0	ND
W1S-D	12/01/87	3	141.0 JL	ND	3.8	150.0	ND	ND	132,000.0	ND	ND	948.0	ND
W2D	07/26/84	1	NT	NT	6.0	NT	NT	ND	NT	ND	ND	NT	NT
W2D	09/14/84	1	ND	140.0	2.0	44.0	NT	ND	33,000.0	27.0	30.0	NT	28.0
W2D	06/18/87	2	ND	ND	ND	ND	ND	ND	25,000.0 L	ND	ND	ND	ND
W2D	12/01/87	3	64.5 L	ND	3.5	65.2	ND	ND	41,200.0	ND	ND	ND	ND

Table F-2
(Continued)

Station ID	Date	Lab ID	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Cu	Fe	Mo
W2S	07/26/84	1	NT	NT	ND	NT	NT	ND	NT	ND	ND	NT	NT
W2S	09/14/84	1	NT	110.0	6.0	34.0	NT	ND	4,700.0	32.0	29.0	NT	47.0
W2S	06/18/87	2	ND	ND	17.0	210.0	ND	ND	48,000.0 L	ND	ND	ND	ND
W2S	12/01/87	3	45.1 L	ND	12.5	128.0	ND	ND	58,300.0	ND	ND	1,540.0	ND
W3D	07/26/84	1	NT	NT	5.0	NT	NT	ND	NT	ND	ND	NT	NT
W3D	09/14/84	1	NT	110.0	4.0	33.0	NT	ND	22,000.0	20.0	23.0	NT	25.0
W3D	06/18/87	2	ND	ND	ND	ND	ND	ND	34,000.0 L	ND	ND	ND	ND
W3D	12/01/87	3	ND	ND	4.1	63.2	ND	ND	38,400.0	ND	ND	ND	ND
W3S	09/14/84	1	NT	140.0	ND	51.0	NT	ND	59,000.0	30.0	26.0	NT	36.0
W3S	06/18/87	2	ND	ND	ND	ND	ND	ND	190,000.0 L	ND	ND	ND	ND
W3S	12/01/87	3	ND	ND	ND	51.8	ND	ND	321,000.0 L	ND	ND	ND	ND
W4	07/26/84	1	NT	NT	14.0	NT	11.2	16.0	NT	ND	2.0	NT	NT
W4	09/14/84	1	NT	110.0	3.0	140.0	NT	ND	72,000.0	19.0	10.0	NT	25.0
W5	07/26/84	1	NT	NT	6.0	NT	NT	ND	NT	ND	ND	NT	NT
W5	09/14/84	1	NT	130.0	3.0	140.0	NT	ND	74,000.0	19.0	8.0	NT	33.0
W5	06/17/87	2	ND	ND	15.0	210.0	ND	ND	110,000.0 L	ND	ND	1,080.0	ND
W5	12/01/87	3	145.0 JL	ND	11.4	159.0	ND	ND	72,300.0	ND	ND	792.0	ND
W6	07/26/84	1	NT	NT	3.0	NT	NT	ND	NT	ND	ND	NT	NT
W6	09/14/84	1	NT	120.0	3.0	33.0	NT	ND	27,000.0	19.0	15.0	NT	25.0
W6	06/19/87	2	ND	ND	ND	ND	ND	ND	44,000.0 L	ND	ND	ND	ND
W6	12/01/87	3	119.0 JL	ND	ND	77.9	ND	ND	47,400.0	ND	ND	22.4 J	ND
W7	07/26/84	1	NT	NT	4.0	NT	NT	ND	NT	ND	ND	NT	NT
W7	09/14/84	1	NT	120.0	4.0	58.0	NT	ND	38,000.0	20.0	14.0	NT	28.0
W7	06/17/87	2	ND	ND	ND	ND	ND	ND	28,000.0 L	ND	ND	ND	ND
W7-D	06/17/87	2	ND	ND	ND	ND	ND	ND	27,000.0 L	ND	ND	ND	ND
W7	12/01/87	3	147.0 JL	ND	3.0	53.6	1.2 J	ND	36,500.0 L	ND	ND	64.9 J	ND
W8	09/14/84	1	NT	110.0	2.0	38.0	NT	ND	48,000.0	18.0	18.0	NT	20.0
W8	06/19/87	2	ND	ND	ND	ND	ND	ND	61,000.0	ND	ND	ND	ND
W8	12/01/87	3	142.0 JL	ND	ND	103.0	ND	ND	86,100.0	ND	ND	12.6 J	ND
W9	09/14/84	1	NT	80.0	3.0	52.0	NT	ND	44,000.0	21.0	11.0	NT	30.0
W9	06/19/87	2	ND	ND	ND	ND	ND	ND	45,000.0 L	ND	ND	ND	ND
W9	12/01/87	3	147.0 JL	ND	2.6	59.0	ND	ND	50,500.0 L	ND	ND	22.8 J	ND

Table F-2
(Continued)

Station ID	Date	Lab ID	Pb	Mg	Mn	Hg	Ni	K	Na	V	Zn	Ag
BLANKS	06/18/87	2	ND	ND	10.0	ND	ND	50.0	970.0	ND	25.0	ND
BLANKS	12/01/87	3	1.20	ND	ND	ND	33.8	318.0	657.0	ND	10.4	ND
BLANKS	06/24/88	5	NT	NT	ND	NT	NT	NT	NT	NT	NT	NT
EPA1	09/14/84	1	ND	59,000.0	NT	NT	47.0	NT	NT	15.0	47.0	ND
EPA1	06/17/87	2	ND	46,500.0	15.0 L	ND	ND	8,510.0 L	218,000.0 L	ND	ND	ND
EPA1	12/01/87	3	ND	47,500.0	ND	ND	25.5 JL	6,240.0 L	205,000.0 L	17.8	4.1 JL	ND
EPA2	07/26/84	1	ND	NT	NT	NT	25.0	NT	NT	ND	200.0	ND
EPA2	09/14/84	1	ND	71,000.0	NT	NT	49.0	NT	NT	20.0	24.0	ND
EPA2	06/18/87	2	ND	68,500.0	ND	ND	ND	9,890.0 L	266,000.0 L	ND	ND	ND
EPA2	12/01/87	3	ND	62,400.0	3.5	ND	37.1 JL	6,960.0 L	251,000.0 L	14.4	21.8 JL	ND
EPA4	06/19/87	2	ND	22,500.0	36.0 L	ND	45.0	2,900.0 L	13,000.0 L	ND	ND	ND
EPA4	12/01/87	3	ND	26,200.0	20.5	ND	27.7 JL	2,340.0 L	12,000.0 L	12.0	ND	ND
EPA7	09/14/84	1	ND	42,000.0	NT	NT	41.0	NT	NT	27.0	ND	ND
MW1D	12/01/87	3	ND	43,400.0	6.5	ND	37.8 JL	6,220.0 JL	49,600.0 L	21.9	30.9 JL	ND
MW1D	06/20/88	5	NT	NT	ND	NT	NT	NT	NT	NT	NT	NT
MW1S	12/01/87	3	ND	8,980.0	ND	ND	25.2 JL	3,100.0 JL	15,600.0 L	29.5	62.3 JL	ND
MW1S	06/20/88	5	NT	NT	63.0	NT	NT	NT	NT	NT	NT	NT
MW2D	12/01/87	3	0.45 JL	4,840.0	6.7	ND	42.7 JL	3,700.0 JL	38,500.0 L	68.1	30.5 JL	ND
MW2D	06/20/88	5	NT	NT	224.0	NT	NT	NT	NT	NT	NT	NT
MW2S	12/01/87	3	0.65 JL	62,700.0	889.0	ND	39.3 JL	9,970.0 JL	198,000.0 L	ND	81.6 JL	ND
MW2S-D	12/01/87	3	ND	53,900.0	803.0	ND	62.6 JL	10,500.0 JL	207,000.0 L	ND	49.0 JL	ND
MW2S	06/20/88	5	NT	NT	1,110.0	NT	NT	NT	NT	NT	NT	NT
MW2S-D	06/20/88	5	NT	NT	1,090.0	NT	NT	NT	NT	NT	NT	NT
MW3	12/01/87	3	0.50 JL	48,700.0	534.0	ND	21.3 JL	5,360.0 JL	66,800.0 L	16.6	60.4 JL	ND
MW3	06/20/88	5	NT	NT	98.0	NT	NT	NT	NT	NT	NT	NT
MW4	12/01/87	3	0.35 JL	22,200.0	158.0	ND	44.9 JL	3,800.0 JL	17,400.0 L	10.8	37.9 JL	ND
MW4-D	12/01/87	3	ND	25,700.0	179.0	ND	45.5 JL	4,370.0 JL	21,400.0 L	8.3	66.7 JL	ND
MW4	06/20/88	5	NT	NT	128.0	NT	NT	NT	NT	NT	NT	NT
MW5	12/01/87	3	ND	46,600.0	1,660.0	ND	51.0 JL	6,030.0 JL	293,000.0 L	ND	47.7 JL	ND
MW5	06/20/88	5	NT	NT	2,180.0	NT	NT	NT	NT	NT	NT	NT
MW5-D	06/20/88	5	NT	NT	2,140.0	NT	NT	NT	NT	NT	NT	NT

Table F-2
(Continued)

Station ID	Date	Lab ID	Pb	Mg	Mn	Hg	Ni	K	Na	V	Zn	Ag
MW6	12/01/87	3	ND	40,400.0	1,200.0	ND	42.5 JL	4,630.0 JL	59,700.0 L	14.4	64.6 JL	ND
MW6	06/20/88	5	NT	NT	2,520.0	NT	NT	NT	NT	NT	NT	NT
MW7	12/01/87	3	0.80 JL	48,400.0	23.7	ND	28.6 JL	7,000.0 JL	109,000.0 L	20.9	51.1 JL	ND
MW7	06/20/88	5	NT	NT	36.0	NT	NT	NT	NT	NT	NT	NT
MW8	12/01/87	3	0.95 JL	41,200.0	897.0	ND	ND	5,160.0 JL	58,000.0 L	29.9	53.6 JL	ND
MW8	06/20/88	5	NT	NT	1,660.0	NT	NT	NT	NT	NT	NT	NT
MW9	12/01/87	3	0.80 JL	30,200.0	1,600.0	ND	51.4 JL	2,860.0 JL	29,400.0 L	15.2	46.2 JL	ND
MW9	06/20/88	5	NT	NT	1,780.0	NT	NT	NT	NT	NT	NT	NT
PWB	06/28/84	1	ND	NT	NT	NT	ND	NT	NT	NT	40.0	ND
PWB	06/16/87	2	ND	20,000.0	ND	ND	ND	2,950.0 L	15,000.0 L	ND	ND	ND
PWCF	06/16/87	2	ND	21,000.0	ND	ND	ND	4,300.0 L	21,000.0 L	ND	37.0 L	ND
PWD	06/28/84	1	3.00	NT	NT	NT	ND	NT	NT	NT	92.0	200.0
PWD	06/05/87	2	ND	25,000.0	ND	ND	ND	3,750.0 L	27,000.0 L	ND	ND	ND
PWN	06/03/87	2	ND	50,000.0	310.0 L	ND	ND	6,350.0 L	56,000.0 L	ND	ND	ND
PWN-D	06/03/87	2	ND	50,000.0	270.0 L	ND	ND	6,300.0 L	55,000.0 L	ND	20.0 L	ND
PWNN	06/16/87	2	52.00	42,000.0	ND	ND	ND	5,000.0 L	32,000.0 L	ND	ND	ND
PWNS	06/05/87	2	ND	47,000.0	22.0 L	ND	ND	6,800.0 L	100,000.0 L	ND	ND	ND
PWO	06/28/84	1	2.00	NT	NT	NT	ND	NT	NT	NT	94.0	230.0
PWO	06/16/87	2	ND	46,000.0	ND	ND	ND	5,700.0 L	39,000.0 L	ND	21.0 L	ND
PWP	06/16/87	2	30.00	36,000.0	10.0 L	ND	ND	5,100.0 L	37,000.0 L	ND	ND	ND
PWQ	06/16/87	2	ND	33,000.0	ND	ND	ND	5,050.0 L	55,000.0 L	ND	ND	ND
PWV	06/28/84	1	2.00	NT	NT	NT	ND	NT	NT	NT	190.0	240.0
PWV	06/16/87	2	ND	30,000.0	57.0 L	ND	ND	4,650.0 L	33,000.0 L	ND	24.0 L	ND
PW6	06/20/88	5	NT	NT	ND	NT	NT	NT	NT	NT	NT	NT
PW7	06/20/88	5	NT	NT	ND	NT	NT	NT	NT	NT	NT	NT
PW9	06/20/88	5	NT	NT	ND	NT	NT	NT	NT	NT	NT	NT
PW10	06/20/88	5	NT	NT	ND	NT	NT	NT	NT	NT	NT	NT
PW11	06/20/88	5	NT	NT	ND	NT	NT	NT	NT	NT	NT	NT

Table F-2
(Continued)

Station ID	Date	Lab ID	Pb	Mg	Mn	Hg	Ni	K	Na	V	Zn	Ag
PW12	06/20/88	5	NT	NT	ND	NT	NT	NT	NT	NT	NT	NT
PW13	06/20/88	5	NT	NT	ND	NT	NT	NT	NT	NT	NT	NT
PW23	06/20/88	5	NT	NT	ND	NT	NT	NT	NT	NT	NT	NT
PW24	06/20/88	5	NT	NT	ND	NT	NT	NT	NT	NT	NT	NT
PW25	06/20/88	5	NT	NT	ND	NT	NT	NT	NT	NT	NT	NT
PW26	06/20/88	5	NT	NT	ND	NT	NT	NT	NT	NT	NT	NT
PW27	06/20/88	5	NT	NT	ND	NT	NT	NT	NT	NT	NT	NT
PW36a	06/20/88	5	NT	NT	ND	NT	NT	NT	NT	NT	NT	NT
PW37	06/20/88	5	NT	NT	ND	NT	NT	NT	NT	NT	NT	NT
PW39	06/20/88	5	NT	NT	ND	NT	NT	NT	NT	NT	NT	NT
PW39-D	06/20/88	5	NT	NT	ND	NT	NT	NT	NT	NT	NT	NT
PW40	06/20/88	5	NT	NT	ND	NT	NT	NT	NT	NT	NT	NT
PW41	06/20/88	5	NT	NT	ND	NT	NT	NT	NT	NT	NT	NT
W1D	09/14/84	1	ND	31,000.0	NT	NT	72.0	NT	NT	61.0	20.0	25.0
W1D	06/18/87	2	ND	37,500.0	34.0 L	ND	ND	4,920.0 L	40,000.0 L	ND	ND	ND
W1D	12/01/87	3	ND	39,700.0	ND	ND	54.1 JL	3,840.0 L	43,200.0 L	15.4	21.7 J	ND
W1S	09/14/84	1	ND	42,000.0	NT	NT	55.0	NT	NT	39.0	ND	14.0
W1S	06/18/87	2	ND	61,500.0	730.0 L	ND	ND	7,520.0 L	110,000.0 L	ND	ND	ND
W1S-D	06/18/87	2	ND	61,500.0	770.0 L	ND	ND	7,260.0 L	107,000.0 L	ND	ND	ND
W1S	12/01/87	3	ND	66,200.0	773.0	ND	28.6 JL	5,730.0 L	108,000.0 L	ND	14.3 JL	ND
W1S-D	12/01/87	3	ND	70,500.0	805.0	ND	37.3 JL	6,060.0 L	117,000.0 L	ND	12.7 JL	ND
W2D	07/26/84	1	ND	NT	NT	NT	18.0	NT	NT	NT	40.0	ND
W2D	09/14/84	1	ND	17,000.0	NT	NT	49.0	NT	NT	31.0	44.0	25.0
W2D	06/18/87	2	ND	12,000.0	100.0 L	ND	ND	1,380.0 L	10,000.0 L	ND	ND	ND
W2D	12/01/87	3	0.50 JL	8,100.0	89.7	ND	42.3 JL	1,830.0 JL	4,430.0 L	12.8	37.1 JL	ND
W2S	07/26/84	1	ND	NT	NT	NT	7.0	NT	NT	NT	74.0	ND
W2S	09/14/84	1	ND	5,500.0	NT	NT	45.0	NT	NT	59.0	ND	27.0
W2S	06/18/87	2	ND	23,500.0	590.0 L	ND	40.0	2,840.0 L	27,000.0 L	ND	30.0 L	ND
W2S	12/01/87	3	0.30 JL	26,800.0	518.0	ND	43.6 JL	2,440.0 JL	25,400.0 L	4.1	28.2 JL	ND

Table F-2
(Continued)

Station ID	Date	Lab ID	Pb	Mg	Mn	Hg	Ni	K	Na	V	Zn	Ag
W3D	07/26/84	1	7.00	NT	NT	NT	11.0	NT	NT	NT	13.0 L	ND
W3D	09/14/84	1	ND	9,300.0	NT	NT	41.0	NT	NT	46.0	31.0	24.0
W3D	06/18/87	2	ND	14,500.0	18.0 L	ND	ND	2,050.0 L	20,000.0 L	ND	34.0 L	ND
W3D	12/01/87	3	1.20 JL	16,400.0	ND	0.21	77.6 JL	2,340.0 JL	19,100.0 L	20.9	71.7 JL	ND
W3S	09/14/84	1	ND	32,000.0	NT	NT	40.0	NT	NT	35.0	ND	21.0
W3S	06/18/87	2	ND	80,500.0	130.0 L	ND	ND	6,950.0 L	80,000.0 L	ND	22.0 L	ND
W3S	12/01/87	3	ND	143,000.0	210.0	0.04	45.7 JL	6,930.0 JL	128,000.0 L	10.0	31.2 JL	ND
W4	07/26/84	1	ND	NT	NT	NT	22.0	NT	NT	NT	74.0	ND
W4	09/14/84	1	ND	39,000.0	NT	NT	54.0	NT	NT	23.0	48.0	150.0
W5	07/26/84	1	ND	NT	NT	NT	12.0	NT	NT	NT	35.0	3.0
W5	09/14/84	1	ND	49,000.0	NT	NT	51.0	NT	NT	19.0	ND	ND
W5	06/17/87	2	ND	52,000.0	420.0 L	ND	ND	5,010.0 L	61,000.0 L	ND	ND	12.0
W5	12/01/87	3	ND	48,900.0	303.0	ND	21.0 JL	3,790.0 L	56,400.0 L	8.8	27.1 L	ND
W6	07/26/84	1	ND	NT	NT	NT	19.0	NT	NT	NT	52.0	16.0
W6	09/14/84	1	ND	14,000.0	NT	NT	49.0	NT	NT	30.0	ND	ND
W6	06/19/87	2	ND	24,000.0	100.0 L	ND	ND	2,830.0 L	20,000.0 L	ND	ND	ND
W6	12/01/87	3	ND	22,500.0	4.9	ND	35.5 JL	2,460.0 L	12,700.0 L	18.8	ND	ND
W7	07/26/84	1	ND	NT	NT	NT	18.0	NT	NT	NT	270.0	20.0
W7	09/14/84	1	ND	23,000.0	NT	NT	42.0	NT	NT	21.0	20.0	ND
W7	06/17/87	2	ND	14,500.0	190.0 L	ND	ND	1,960.0 L	ND	ND	ND	ND
W7-D	06/17/87	2	ND	13,500.0	210.0 L	ND	ND	1,870.0 L	8,000.0 L	ND	ND	ND
W7	12/01/87	3	ND	18,900.0	308.0	ND	31.4 JL	1,860.0 L	11,300.0 L	12.5	11.1 L	ND
W8	09/14/84	1	ND	19,000.0	NT	NT	37.0	NT	NT	25.0	35.0	14.0
W8	06/19/87	2	ND	26,500.0	31.0 L	ND	ND	2,750.0 L	13,000.0 L	ND	ND	ND
W8	12/01/87	3	ND	36,200.0	32.5	ND	32.4 JL	2,780.0 L	20,200.0 L	14.9	21.1 JL	ND
W9	09/14/84	1	ND	25,000.0	NT	NT	40.0	NT	NT	16.0	23.0	18.0
W9	06/19/87	2	ND	22,000.0	13.0 L	ND	75.0	3,580.0 L	29,000.0 L	ND	ND	ND
W9	12/01/87	3	ND	23,400.0	ND	ND	90.3 JL	2,980.0 L	24,300.0 L	17.3	9.2 JL	ND

VOLATILES

Table F-3
PURITY OIL SALES--ANALYSIS RESULTS
Volatile Organic Compounds
(µg/l)

Station ID	Date	Lab ID	Acetone	Benzene	2-Butanone	Chloro-benzene	Chloroform	1,1-Dichloro-ethane	1,2-Dichloro-ethane	1,1-Dichloro-ethene	1,2-Dichloroethene	Carbon Tetrachloride
BLANKS	06/18/87	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BLANKS	12/01/87	3	23.0	0.4	0.7	ND	ND	ND	ND	ND	ND	ND
BLANKS	06/20/88	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	
EPA1	06/18/87	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
EPA1	12/01/87	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
EPA2	07/26/84	1	ND	ND	ND	ND	2.4	ND	ND	ND	ND	ND
EPA2	06/18/87	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
EPA2	12/01/87	3	4.0 L	ND	ND	ND	ND	ND	ND	ND	ND	ND
EPA2	07/26/84	4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
EPA4	12/01/87	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
EPA6	07/30/84	1	ND	ND	ND	ND	ND	3.2	0.1	ND	28.7	ND
EPA7	07/26/84	1	ND	ND	ND	ND	0.3	ND	ND	ND	ND	ND
MW1D	12/01/87	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW1S	12/01/87	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW1S	06/20/88	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW2D	12/01/87	3	ND	ND	650.0 JL	ND	ND	ND	ND	ND	ND	ND
MW2S	12/01/87	3	ND	9.0 L	ND	0.6 J	44.0	3.0	4.0	1.0	34.0	ND
MW2S	06/20/88	5	ND	ND	ND	ND	4.0 J	ND	ND	ND	16.0 J	ND
MW2S-D	12/01/87	3	ND	11.0 L	ND	0.6 J	52.0	3.0	4.0	1.0	35.0	ND
MW2S-D	06/20/88	5	ND	3.0	ND	0.9 J	6.0	3.0	5.0	0.4 J	114.0 J	ND
MW3	12/01/87	3	ND	ND	ND	ND	ND	ND	ND	ND	2.0	ND
MW3	06/20/88	5	ND	ND	2.0 J	ND	ND	0.6 J	0.5 J	ND	19.0 J	ND
MW4	12/01/87	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW4	06/20/88	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW4-D	12/01/87	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW5	12/01/87	3	ND	3.0 JL	ND	3.0 J	ND	28.0	5.0 J	2.0 J	232.0	ND
MW5	06/20/88	5	ND	3.0	ND	4.0	ND	53.0 J	6.0	3.0	396.0 J	ND
MW5-D	06/20/88	5	ND	2.0	ND	4.0	ND	25.0	8.0	2.0	575.0 J	ND

Table F-3
(Continued)

Station ID	Date	Lab ID	Acetone	Benzene	2-Butanone	Chloro-benzene	Chloroform	1,1-Dichloro-ethane	1,2-Dichloro-ethane	1,1-Dichloro-ethene	1,2-Dichloroethene	Carbon Tetrachloride
MW6	12/01/87	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW7	12/01/87	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW7	06/20/88	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW8	12/01/87	3	ND	ND	ND	0.3 J	2.0	3.0	0.7 J	ND	5.0	ND
MW8	06/20/88	5	ND	0.2 J	ND	0.4 J	ND	4.0	0.8 J	ND	30.0 J	ND
MW9	12/01/87	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PWB	12/01/87	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PWCF	12/01/87	3	1.0 JL	ND	ND	ND	ND	ND	ND	ND	ND	ND
PWD	12/01/87	3	2.0 L	ND	ND	ND	ND	ND	ND	ND	ND	ND
PWN	06/03/87	2	ND	ND	ND	ND	ND	2.0	ND	ND	ND	ND
PWN	12/01/87	3	1.0 JL	ND	ND	ND	ND	2.0	2.0	ND	ND	ND
PWN-D	06/03/87	2	ND	ND	ND	ND	ND	2.0	2.0	ND	ND	ND
PWN-D	12/01/87	3	ND	ND	ND	ND	ND	2.0	2.0	ND	ND	ND
PWNN	06/16/87	2	ND	ND	ND	ND	ND	ND	ND	3.0	ND	ND
PWNN	12/01/87	3	ND	ND	ND	ND	ND	ND	0.9 J	4.0	ND	ND
PWNS	12/01/87	3	2.0 L	ND	ND	ND	ND	ND	0.8 J	ND	ND	ND
PWO	06/16/87	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PWO	12/01/87	3	ND	ND	ND	ND	ND	ND	0.5 J	ND	ND	ND
PWP	06/18/87	2	ND	ND	ND	ND	ND	ND	2.0	ND	ND	ND
PWP	12/01/87	3	ND	ND	ND	ND	ND	0.4 J	1.0	ND	ND	ND
PWQ	06/16/87	2	ND	ND	ND	ND	1.0	ND	ND	ND	ND	13.0
PWQ	12/01/87	3	1.0 JL	ND	ND	ND	1.0	ND	ND	ND	ND	ND
PWV	06/16/87	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PWV	12/01/87	3	1.0 JL	ND	ND	ND	ND	ND	1.0	ND	ND	ND
PW9	06/20/88	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PW10	06/20/88	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PW11	06/20/88	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table F-3
(Continued)

Station ID	Date	Lab ID	Acetone	Benzene	2-Butanone	Chloro-benzene	Chloroform	1,1-Dichloro-ethane	1,2-Dichloro-ethane	1,1-Dichloro-ethene	1,2-Dichloroethene	Carbon Tetrachloride
PW12	06/20/88	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PW24	06/20/88	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PW25	06/20/88	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PW26	06/20/88	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PW39	06/20/88	5	ND	ND	ND	ND	ND	ND	1.0	ND	ND	ND
PW39-D	06/20/88	5	ND	ND	ND	ND	ND	ND	1.0	ND	ND	ND
PW41	06/20/88	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
W1D	07/27/84	1	ND	ND	ND	ND	ND	ND	0.5	ND	ND	ND
W1D	09/14/84	1	ND	ND	ND	ND	2.2	ND	ND	ND	ND	ND
W1D	06/18/87	2	ND	ND	ND	ND	48.0	4.0	6.0	ND	19.0	ND
W1D	12/01/87	3	ND	ND	ND	ND	36.0	3.0	4.0	0.8 J	17.0	ND
W1S	07/27/84	1	ND	ND	ND	ND	1.2	ND	ND	ND	2.1	ND
W1S	09/14/84	1	ND	16.9	ND	ND	2.9	ND	ND	ND	18.4	ND
W1S	12/01/87	3	ND	0.5 JL	ND	0.9 J	ND	1.0 J	4.0	0.4 J	29.0	ND
W1S	07/26/84	4	ND	ND	ND	ND	ND	ND	ND	12.0	ND	ND
W1S-D	06/18/87	2	ND	ND	ND	ND	ND	0.6 J	2.5	ND	16.0	ND
W1S-D	12/01/87	3	ND	0.5 JL	ND	0.8 J	ND	1.0 J	4.0	0.3 J	31.0	ND
W2D	12/01/87	3	1.0 JL	ND	ND	ND	ND	2.0	ND	ND	ND	ND
W2S	08/02/84	1	ND	10.0	ND	ND	ND	2.4	1.2	ND	24.2	ND
W2S	06/18/87	2	ND	0.7 J	ND	ND	ND	2.0	ND	ND	11.0	ND
W2S	12/01/87	3	ND	0.8 J	ND	ND	ND	2.0	ND	ND	12.0	ND
W3D	06/18/87	2	ND	ND	ND	ND	ND	ND	3.0	ND	ND	ND
W3D	12/01/87	3	ND	ND	ND	ND	ND	ND	1.0	ND	ND	ND
W3S	08/02/84	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
W3S	09/14/84	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
W3S	12/01/87	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
W4	07/27/84	1	ND	11.2	ND	ND	ND	2.2	ND	ND	19.3	ND
W4	07/26/84	4	ND	ND	ND	ND	ND	ND	ND	ND	26.0	ND
W4	09/14/84	4	ND	ND	ND	ND	ND	ND	ND	ND	7.0	ND

Table F-3
(Continued)

Station ID	Date	Lab ID	Acetone	Benzene	2-Butanone	Chloro-benzene	Chloroform	1,1-Dichloro-ethane	1,2-Dichloro-ethane	1,1-Dichloro-ethene	1,2-Dichloroethene	Carbon Tetrachloride
W5	08/02/84	1	ND	7.8	ND	ND	ND	2.0	ND	ND	15.4	ND
W5	06/17/87	2	ND	ND	ND	ND	ND	0.9 J	ND	ND	ND	ND
W5	12/01/87	3	ND	ND	ND	ND	ND	1.0 J	ND	ND	ND	ND
W5	07/26/84	4	ND	ND	ND	ND	ND	ND	ND	ND	11.0	ND
W5	09/14/84	4	ND	ND	ND	ND	ND	ND	ND	ND	6.0	ND
W6	08/02/84	1	ND	ND	ND	ND	2.4	ND	ND	ND	ND	ND
W6	06/19/87	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
W6	12/01/87	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
W7	08/02/84	1	ND	ND	ND	ND	ND	ND	ND	ND	2.4	ND
W7	12/01/87	3	ND	ND	ND	ND	ND	ND	ND	ND	0.3 J	ND
W8	09/14/84	1	ND	2.2	ND	ND	0.6	ND	ND	ND	ND	ND
W8	12/01/87	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
W8	07/26/84	4	ND	11.0	ND	ND	ND	ND	ND	ND	ND	ND
W9	12/01/87	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Station ID	Date	Lab ID	1,2-Dichloro-propane	Ethyl-benzene	2-Hexanone	Methylene Chloride	Tetra-chloroethene	Toluene	1,1,1-Trichloro-ethane	1,1,2-Trichloro-ethane	Trichloro-ethene	Vinyl Chloride	Total Xylenes	Styrene
BLANKS	06/18/87	2	ND	ND	ND	10.0	ND	ND	ND	ND	ND	ND	ND	ND
BLANKS	12/01/87	3	ND	0.3	ND	34.0	ND	0.9	ND	ND	0.2	ND	0.4	ND
BLANKS	06/20/88	5	ND	0.6 J	ND	1.0	0.7 J	2.0	ND	ND	ND	ND	ND	ND
EPA1	06/18/87	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.0
EPA1	12/01/87	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
EPA2	07/26/84	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
EPA2	06/18/87	2	ND	ND	ND	ND	1.0	ND	ND	1.0	ND	ND	ND	ND
EPA2	12/01/87	3	ND	ND	ND	ND	2.0	ND	ND	ND	0.2 JL	ND	ND	ND
EPA2	07/26/84	4	ND	ND	ND	ND	ND	9.7	ND	ND	ND	ND	ND	ND
EPA4	12/01/87	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
EPA6	07/30/84	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
EPA7	07/26/84	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW1D	12/01/87	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table F-3
(Continued)

Station ID	Date	Lab ID	1,2-Dichloro-propane	Ethyl-benzene	2-Hexanone	Methylene Chloride	Tetra-chloroethene	Toluene	1,1,1-Trichloro-ethane	1,1,2-Trichloro-ethane	Trichloro-ethene	Vinyl Chloride	Total Xylenes	Styrene
MW1S	12/01/87	3	ND	ND	ND	ND	ND	ND	ND	0.6 J	ND	ND	ND	ND
MW1S	06/20/88	5	ND	ND	ND	ND	ND	ND	ND	0.9 J	ND	ND	ND	ND
MW2D	12/01/87	3	ND	ND	ND	60.0 L	ND	ND	ND	ND	ND	ND	ND	ND
MW2S	12/01/87	3	ND	3.0 L	11.0	ND	2.0	13.0 L	ND	ND	13.0 L	1.0 J	9.0 L	ND
MW2S	06/20/88	5	ND	ND	ND	ND	ND	ND	ND	ND	6.0 J	ND	ND	ND
MW2S-D	12/01/87	3	ND	3.0 L	15.0	ND	2.0	15.0 L	ND	ND	15.0 L	ND	10.0 L	ND
MW2S-D	06/20/88	5	0.6 J	ND	ND	ND	0.7 L	1.0 L	ND	ND	6.0	ND	1.0	ND
MW3	12/01/87	3	ND	0.7 JL	ND	ND	0.5 J	0.5 JL	ND	ND	ND	ND	3.0 L	ND
MW3	06/20/88	5	ND	ND	ND	ND	0.4 JL	ND	ND	ND	0.3 J	ND	ND	ND
MW4	12/01/87	3	ND	ND	ND	ND	0.9 J	ND	ND	ND	ND	ND	ND	ND
MW4	06/20/88	5	ND	ND	ND	ND	1.0 L	ND	ND	ND	ND	ND	ND	ND
MW4-D	12/01/87	3	ND	ND	ND	ND	0.8 J	ND	ND	ND	ND	ND	ND	ND
MW5	12/01/87	3	2.0 J	ND	ND	ND	ND	6.0 JL	ND	ND	4.0 JL	3.0 J	ND	ND
MW5	06/20/88	5	2.0	ND	ND	ND	ND	ND	ND	ND	3.0	2.0	ND	ND
MW5-D	06/20/88	5	2.0	ND	ND	ND	ND	ND	ND	ND	3.0	3.0	ND	ND
MW6	12/01/87	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW7	12/01/87	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW7	06/20/88	5	ND	ND	ND	ND	ND	1.0 L	ND	ND	ND	ND	ND	ND
MW8	12/01/87	3	ND	ND	ND	ND	ND	0.4 JL	ND	ND	ND	ND	ND	ND
MW8	06/20/88	5	ND	ND	ND	ND	ND	1.0 L	ND	ND	ND	ND	ND	ND
MW9	12/01/87	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PWB	12/01/87	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PWCF	12/01/87	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PWD	12/01/87	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PWN	06/03/87	2	0.6 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PWN	12/01/87	3	0.8 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PWN-D	06/03/87	2	0.7 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PWN-D	12/01/87	3	0.8 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table F-3
(Continued)

Station ID	Date	Lab ID	1,2-Dichloro-propane	Ethyl-benzene	2-Hexanone	Methylene Chloride	Tetra-chloroethene	Toluene	1,1,1-Trichloro-ethane	1,1,2-Trichloro-ethane	Trichloro-ethene	Vinyl Chloride	Total Xylenes	Styrene
PWNN	06/16/87	2	ND	ND	ND	ND	ND	ND	ND	22.0	ND	ND	ND	ND
PWNN	12/01/87	3	ND	ND	ND	ND	ND	ND	ND	16.0	ND	ND	ND	ND
PWNS	12/01/87	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PWO	06/16/87	2	ND	ND	ND	3.0 JL	ND	ND	ND	ND	ND	ND	ND	ND
PWO	12/01/87	3	0.5 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PWP	12/01/87	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PWP	06/18/87	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.0
PWQ	06/16/87	2	ND	ND	ND	1.0 JL	ND	ND	ND	ND	ND	ND	ND	ND
PWQ	12/01/87	3	ND	ND	ND	ND	ND	ND	ND	ND	0.3 JL	ND	ND	ND
PWV	06/16/87	2	ND	ND	ND	1.0 JL	ND	ND	ND	ND	ND	ND	ND	ND
PWV	12/01/87	3	ND	ND	ND	ND	ND	ND	ND	0.9 J	ND	ND	ND	ND
PW9	06/20/88	5	ND	ND	ND	ND	ND	ND	ND	ND	1.0	ND	ND	ND
PW10	06/20/88	5	ND	ND	ND	ND	ND	ND	ND	ND	0.3 J	ND	ND	ND
PW11	06/20/88	5	ND	ND	ND	ND	ND	ND	ND	ND	0.5	ND	ND	ND
PW12	06/20/88	5	ND	ND	ND	ND	ND	2.0 L	ND	ND	ND	ND	ND	ND
PW24	06/20/88	5	ND	ND	ND	ND	ND	3.0 L	ND	ND	ND	ND	ND	ND
PW25	06/20/88	5	ND	ND	ND	ND	ND	3.0 L	ND	ND	ND	ND	ND	ND
PW26	06/20/88	5	ND	ND	ND	ND	ND	2.0 L	ND	ND	ND	ND	ND	ND
PW39	06/20/88	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PW39-D	06/20/88	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PW41	06/20/88	5	ND	ND	ND	ND	ND	ND	ND	ND	0.4 J	ND	ND	ND
W1D	07/27/84	1	ND	ND	ND	ND	0.1	ND	ND	ND	ND	ND	ND	ND
W1D	09/14/84	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
W1D	06/18/87	2	ND	ND	ND	ND	0.6 J	ND	ND	ND	8.0	ND	ND	ND
W1D	12/01/87	3	0.5 J	ND	ND	ND	0.7 J	ND	0.6 J	ND	7.0 L	ND	ND	ND
W1S	07/26/84	4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
W1S	07/27/84	1	ND	1.0	ND	ND	ND	2.0	ND	ND	1.0	ND	ND	ND
W1S	09/14/84	1	ND	ND	ND	ND	ND	ND	ND	ND	4.7	ND	ND	ND
W1S	12/01/87	3	0.2 J	ND	ND	ND	0.7 J	0.4 JL	ND	ND	6.0 L	ND	ND	ND

Table F-3
(Continued)

Station ID	Date	Lab ID	1,2-Dichloro-propane	Ethyl-benzene	2-Hexanone	Methylene Chloride	Tetra-chloroethene	Toluene	1,1,1-Trichloro-ethane	1,1,2-Trichloro-ethane	Trichloro-ethene	Vinyl Chloride	Total Xylenes	Styrene
W1S-D	06/18/87	2	ND	ND	ND	0.8 JL	ND	ND	ND	ND	5.8	ND	ND	ND
W1S-D	12/01/87	3	0.3 J	ND	ND	ND	0.7 J	ND	ND	ND	6.0 L	ND	ND	ND
W2D	12/01/87	3	ND	ND	ND	ND	ND	ND	0.5 J	ND	ND	ND	ND	ND
W2S	08/02/84	1	ND	ND	ND	0.8	ND	ND	ND	ND	ND	ND	ND	ND
W2S	06/18/87	2	ND	ND	ND	ND	ND	0.5 J	ND	ND	ND	ND	ND	ND
W2S	12/01/87	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
W3D	06/18/87	2	ND	ND	ND	2.0 L	1.0	ND	ND	ND	3.0	ND	ND	2.0
W3D	12/01/87	3	ND	ND	ND	ND	0.3 J	0.4 JL	0.7 J	ND	ND	ND	ND	ND
W3S	08/02/84	1	ND	ND	ND	0.2	ND	ND	0.4	ND	0.7	ND	ND	ND
W3S	09/14/84	1	ND	ND	ND	0.7	ND	ND	ND	ND	ND	ND	ND	ND
W3S	12/01/87	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
W4	07/26/84	4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
W4	07/27/84	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
W4	09/14/84	4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
W5	07/26/84	4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
W5	08/02/84	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
W5	09/14/84	4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
W5	06/17/87	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
W5	12/01/87	3	ND	ND	ND	ND	ND	0.5 JL	0.5 J	ND	ND	ND	ND	ND
W6	06/19/87	2	ND	ND	ND	2.0 L	ND	ND	ND	ND	ND	ND	ND	ND
W6	12/01/87	3	ND	ND	ND	ND	ND	ND	0.5 J	0.4 J	ND	ND	ND	ND
W6	08/02/84	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
W7	08/02/84	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
W7	12/01/87	3	ND	ND	ND	ND	ND	ND	0.3 J	ND	ND	ND	ND	ND
W8	07/26/84	4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
W8	09/14/84	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
W8	12/01/87	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
W9	12/01/87	3	ND	ND	ND	ND	0.4 J	ND	ND	ND	ND	ND	ND	ND

SEMIVOLATILES

Table F-4
PURITY OIL SALES--ANALYSIS RESULTS
Semivolatile Compounds
(µg/l)

Station ID	Date	Lab ID	Benzoic Acid	1,2-Dichloro-benzene	Phenol	2-Methyl-phenol	4-Methyl-phenol	2-4-Dimethyl-phenol	Naphthalene	2-Methyl-naphthalene
BLANKS	06/18/87	2	ND	ND	ND	ND	ND	ND	ND	ND
BLANKS	12/01/87	3	ND	ND	ND	ND	ND	ND	ND	ND
BLANKS	06/20/88	5	ND	ND	ND	ND	ND	ND	ND	ND
EPA1	07/26/84	1	ND	ND	26.0	ND	ND	ND	ND	ND
EPA1	12/01/87	3	ND	ND	ND	ND	ND	ND	ND	ND
EPA2	07/26/84	1	ND	ND	30.0	ND	ND	ND	ND	ND
EPA2	09/14/84	1	ND	ND	26.0	ND	ND	ND	ND	ND
EPA2	12/01/87	3	ND	ND	ND	ND	ND	ND	ND	ND
EPA4	12/01/87	3	ND	ND	ND	ND	ND	ND	ND	ND
EPA7	07/26/84	1	ND	ND	30.0	ND	ND	ND	ND	ND
MW1D	12/01/87	3	ND	ND	ND	ND	ND	ND	ND	ND
MW1D	06/20/88	5	ND	ND	ND	ND	ND	ND	ND	ND
MW1S	12/01/87	3	ND	ND	ND	ND	ND	ND	ND	ND
MW2D	12/01/87	3	ND	ND	ND	ND	ND	ND	ND	ND
MW2D	06/20/88	5	ND	ND	ND	ND	ND	ND	ND	ND
MW2S	12/01/87	3	ND	5.0 J	3.0 J	4.0 J	4.0 J	7.0 J	4.0 J	3.0 J
MW2S	06/20/88	5	ND	5.0 J	ND	ND	ND	ND	ND	ND
MW2S-D	12/01/87	3	ND	6.0 J	7.0 J	7.0 J	8.0 J	13.0	3.0 J	2.0 J
MW2S-D	06/20/88	5	ND	4.0 J	ND	ND	ND	ND	ND	ND
MW3	12/01/87	3	ND	ND	ND	ND	ND	ND	ND	ND
MW3	06/20/88	5	ND	ND	ND	ND	ND	ND	ND	ND
MW4	12/01/87	3	ND	ND	ND	ND	ND	ND	ND	ND
MW5	12/01/87	3	4.0 J	13.0	ND	ND	ND	ND	ND	ND
MW5	06/20/88	5	ND	17.0 J	ND	ND	ND	ND	ND	ND
MW5-D	06/20/88	5	ND	12.0 J	ND	ND	ND	ND	ND	ND
MW6	12/01/87	3	ND	ND	ND	ND	ND	ND	ND	ND
MW6	06/20/88	5	ND	ND	ND	ND	ND	ND	ND	ND
MW7	12/01/87	3	ND	ND	ND	ND	ND	ND	ND	ND

RD/R49/054-1

Table F-4
(Continued)

Station ID	Date	Lab ID	Benzoic Acid	1,2-Dichloro-benzene	Phenol	2-Methyl-phenol	4-Methyl-phenol	2-4-Dimethyl-phenol	Naphthalene	2-Methyl-naphthalene
MW8	12/01/87	3	ND	ND	ND	ND	ND	ND	ND	ND
MW8	06/20/88	5	2.0 J	ND	ND	ND	ND	ND	ND	ND
MW9	12/01/87	3	ND	ND	ND	ND	ND	ND	ND	ND
PWB	06/28/84	1	ND	ND	ND	ND	ND	ND	ND	ND
PWB	12/01/87	3	ND	ND	ND	ND	ND	ND	ND	ND
PWCF	12/01/87	3	ND	ND	4.0 J	ND	ND	ND	ND	ND
PWD	12/01/87	3	ND	ND	ND	ND	ND	ND	ND	ND
PWN	12/01/87	3	ND	ND	ND	ND	ND	ND	ND	ND
PWN-D	06/03/87	2	ND	ND	ND	ND	ND	ND	ND	ND
PWN-D	12/01/87	3	ND	ND	2.0 J	ND	ND	ND	ND	ND
PWNN	12/01/87	3	ND	ND	6.0 J	ND	ND	ND	ND	ND
PWNS	12/01/87	3	ND	ND	ND	ND	ND	ND	ND	ND
PWO	06/16/87	2	ND	ND	ND	ND	ND	ND	ND	ND
PWO	12/01/87	3	ND	ND	5.0 J	ND	ND	ND	ND	ND
PWP	12/01/87	3	ND	ND	5.0 J	ND	ND	ND	ND	ND
PWQ	12/01/87	3	ND	ND	ND	ND	ND	ND	ND	ND
PWV	06/28/84	1	ND	ND	ND	ND	ND	ND	ND	ND
PWV	12/01/87	3	ND	ND	5.0 J	ND	ND	ND	ND	ND
PW24	06/20/88	5	ND	ND	ND	ND	ND	ND	ND	ND
W1D	12/01/87	3	ND	ND	ND	ND	ND	ND	ND	ND
W1S	07/26/84	1	ND	ND	26.0	ND	ND	ND	ND	ND
W1S	12/01/87	3	4.0 J	ND	ND	ND	ND	ND	ND	ND
W1S	12/01/87	3	16.0 J	ND	ND	ND	ND	ND	ND	ND
W2D	07/26/84	1	ND	ND	40.0	ND	ND	ND	ND	ND
W2D	09/14/84	1	ND	ND	10.0	ND	ND	ND	ND	ND
W2D	06/18/87	2	ND	ND	ND	ND	ND	ND	ND	ND
W2D	12/01/87	3	ND	ND	ND	ND	ND	ND	ND	ND

Table F-4
(Continued)

Station ID	Date	Lab ID	Benzoic Acid	1,2-Dichloro-benzene	Phenol	2-Methyl-phenol	4-Methyl-phenol	2-4-Dimethyl-phenol	Naphthalene	2-Methyl-naphthalene
W2S	07/26/84	1	ND	ND	10.0	ND	ND	ND	ND	ND
W2S	09/14/84	1	ND	ND	110.0	ND	ND	ND	ND	ND
W2S	06/18/87	2	ND	ND	ND	ND	ND	ND	ND	ND
W2S	12/01/87	3	ND	ND	ND	ND	ND	ND	ND	ND
W3D	07/26/84	1	ND	ND	16.0	ND	ND	ND	ND	ND
W3D	09/14/84	1	ND	ND	18.0	ND	ND	ND	ND	ND
W3D	12/01/87	3	ND	ND	ND	ND	ND	ND	ND	ND
W3S	07/26/84	1	ND	ND	20.0	ND	ND	ND	ND	ND
W3S	06/18/87	2	ND	ND	ND	ND	ND	ND	ND	ND
W3S	12/01/87	3	ND	ND	ND	ND	ND	ND	ND	ND
W4	07/26/84	1	ND	ND	140.0	ND	ND	ND	ND	ND
W4	09/14/84	1	ND	ND	26.0	ND	ND	ND	ND	ND
W5	07/26/84	1	ND	ND	10.0	ND	ND	ND	ND	ND
W5	09/14/84	1	ND	ND	10.0	ND	ND	ND	ND	ND
W5	06/17/87	2	ND	ND	ND	ND	ND	ND	ND	ND
W5	12/01/87	3	ND	ND	ND	ND	ND	ND	ND	ND
W6	09/14/84	1	ND	ND	ND	ND	ND	ND	ND	ND
W6	06/19/87	2	ND	ND	ND	ND	ND	ND	ND	ND
W6	12/01/87	3	ND	ND	ND	ND	ND	ND	ND	ND
W7	09/14/84	1	ND	ND	10.0	ND	ND	ND	ND	ND
W7	12/01/87	3	ND	ND	ND	ND	ND	ND	ND	ND
W7-D	06/17/87	2	ND	ND	ND	ND	ND	ND	ND	ND
W8	07/26/84	1	ND	ND	8.0	ND	ND	ND	ND	ND
W8	12/01/87	3	ND	ND	ND	ND	ND	ND	ND	ND
W9	07/26/84	1	ND	ND	30.0	ND	ND	ND	ND	ND
W9	06/19/87	2	ND	ND	ND	ND	ND	ND	ND	ND
W9	12/01/87	3	ND	ND	ND	ND	ND	ND	ND	ND

Table F-4
(Continued)

Station ID	Date	Lab ID	Di-n-butyl-phthalate	Bis(2-ethyl hexyl) phthalate	Butyl-benzyl-phthalate	Di-n-octyl-phthalate	n-Nitroso-diphenyl-amine	1,4-Dimethyl-phthalate	Diethyl-phthalate	1,4-Dichloro-benzene
BLANKS	06/18/87	2	ND	35.0	19.0 J	330.0	ND	ND	ND	ND
BLANKS	12/01/87	3	4.0 J	10.0	ND	ND	ND	ND	ND	ND
BLANKS	06/20/88	5	ND	120.0	ND	ND	ND	ND	ND	ND
EPA1	07/26/84	1	ND	ND	ND	ND	ND	ND	ND	ND
EPA1	12/01/87	3	ND	ND	ND	ND	ND	ND	ND	ND
EPA2	07/26/84	1	ND	ND	ND	ND	ND	ND	ND	ND
EPA2	09/14/84	1	ND	ND	ND	ND	ND	ND	ND	ND
EPA2	12/01/87	3	ND	ND	ND	ND	ND	ND	ND	ND
EPA4	12/01/87	3	ND	ND	ND	ND	ND	ND	ND	ND
EPA7	07/26/84	1	ND	ND	ND	ND	ND	ND	ND	ND
MW1D	12/01/87	3	ND	2.0 JL	ND	ND	ND	ND	ND	ND
MW1D	06/20/88	5	ND	15.0 JL	ND	ND	ND	ND	ND	ND
MW1S	12/01/87	3	ND	1.0 JL	ND	ND	ND	ND	ND	ND
MW2D	12/01/87	3	1.0 JL	ND	ND	ND	ND	ND	ND	ND
MW2D	06/20/88	5	4.0 J	ND	ND	ND	ND	ND	ND	ND
MW2S	12/01/87	3	ND	ND	ND	ND	ND	ND	ND	ND
MW2S	06/20/88	5	2.0 J	ND	ND	ND	ND	52.0	9.0 J	ND
MW2S-D	12/01/87	3	ND	ND	ND	ND	ND	ND	ND	ND
MW2S-D	06/20/88	5	ND	4.0 JL	ND	ND	ND	57.0	ND	ND
MW3	12/01/87	3	ND	ND	ND	ND	ND	ND	ND	ND
MW3	06/20/88	5	1.0 J	ND	ND	ND	ND	ND	ND	ND
MW4	12/01/87	3	ND	ND	ND	ND	ND	ND	ND	ND
MW5	12/01/87	3	ND	2.0 JL	ND	ND	1.0 J	ND	ND	ND
MW5	06/20/88	5	ND	ND	ND	ND	ND	2.0 J	ND	2.0
MW5-D	06/20/88	5	3.0 J	ND	ND	ND	ND	ND	ND	ND
MW6	12/01/87	3	ND	2.0 JL	ND	ND	ND	ND	ND	ND
MW6	06/20/88	5	ND	230.0 L	ND	ND	ND	ND	ND	ND
MW7	12/01/87	3	ND	2.0 JL	ND	ND	ND	ND	ND	ND

Table F-4
(Continued)

Station ID	Date	Lab ID	Di-n-butyl-phthalate	Bis(2-ethyl hexyl) phthalate	Butyl-benzyl-phthalate	Di-n-octyl-phthalate	n-Nitroso-diphenyl-amine	1,4-Dimethyl-phthalate	Diethyl-phthalate	1,4-Dichloro-benzene
MW8	12/01/87	3	ND	2.0 JL	ND	ND	ND	ND	ND	ND
MW8	06/20/88	5	1.0 J	ND	ND	ND	ND	ND	ND	ND
MW9	12/01/87	3	ND	2.0 JL	ND	ND	ND	ND	ND	ND
PWB	06/28/84	1	ND	106.0	ND	26.0	ND	ND	ND	ND
PWB	12/01/87	3	ND	1.0 JL	ND	ND	ND	ND	ND	ND
PWCF	12/01/87	3	ND	3.0 JL	ND	ND	ND	ND	ND	ND
PWD	12/01/87	3	ND	10.0 L	ND	ND	ND	ND	ND	ND
PWN	12/01/87	3	ND	ND	ND	ND	ND	ND	ND	ND
PWN-D	06/03/87	2	ND	ND	ND	390.0 L	ND	ND	ND	ND
PWN-D	12/01/87	3	ND	ND	ND	ND	ND	ND	ND	ND
PWNN	12/01/87	3	ND	1.0 JL	ND	ND	ND	ND	ND	ND
PWNS	12/01/87	3	ND	10.0 L	ND	1.0 J	ND	ND	ND	ND
PWO	06/16/87	2	ND	ND	ND	10.0	ND	ND	ND	ND
PWO	12/01/87	3	ND	ND	ND	ND	ND	ND	ND	ND
PWP	12/01/87	3	ND	ND	ND	ND	ND	ND	ND	ND
PWQ	12/01/87	3	ND	1.0 JL	ND	ND	ND	ND	ND	ND
PWV	06/28/84	1	10.0	26.0	ND	ND	ND	ND	ND	ND
PWV	12/01/87	3	ND	1.0 JL	ND	ND	ND	ND	ND	ND
PW24	06/20/88	5	ND	50.0 JL	ND	ND	ND	ND	ND	ND
W1D	12/01/87	3	ND	ND	ND	ND	ND	ND	ND	ND
W1S	07/26/84	1	ND	ND	ND	ND	ND	ND	ND	ND
W1S	12/01/87	3	ND	ND	ND	ND	ND	ND	ND	ND
W1S	12/01/87	3	ND	ND	ND	ND	ND	ND	ND	ND
W2D	07/26/84	1	ND	ND	ND	ND	ND	ND	ND	ND
W2D	09/14/84	1	ND	ND	ND	ND	ND	ND	ND	ND
W2D	06/18/87	2	ND	28.0 L	ND	ND	ND	ND	ND	ND
W2D	12/01/87	3	ND	ND	ND	ND	ND	ND	ND	ND

Table F-4
(Continued)

Station ID	Date	Lab ID	Di-n-butyl-phthalate	Bis(2-ethyl hexyl) phthalate	Butyl-benzyl-phthalate	Di-n-octyl-phthalate	n-Nitroso-diphenyl-amine	1,4-Dimethyl-phthalate	Diethyl-phthalate	1,4-Dichloro-benzene
W2S	07/26/84	1	ND	ND	ND	ND	ND	ND	ND	ND
W2S	09/14/84	1	ND	ND	ND	ND	ND	ND	ND	ND
W2S	06/18/87	2	ND	27.0 L	ND	37.0 L	ND	ND	ND	ND
W2S	12/01/87	3	ND	ND	ND	ND	ND	ND	ND	ND
W3D	07/26/84	1	ND	ND	ND	ND	ND	ND	ND	ND
W3D	09/14/84	1	ND	ND	ND	ND	ND	ND	ND	ND
W3D	12/01/87	3	ND	ND	ND	ND	ND	ND	ND	ND
W3S	07/26/84	1	ND	ND	ND	ND	ND	ND	ND	ND
W3S	06/18/87	2	ND	710.0 JL	ND	ND	ND	ND	ND	ND
W3S	12/01/87	3	ND	ND	ND	ND	ND	ND	ND	ND
W4	07/26/84	1	ND	ND	ND	ND	ND	ND	ND	ND
W4	09/14/84	1	ND	ND	ND	ND	ND	ND	ND	ND
W5	07/26/84	1	ND	ND	ND	ND	ND	ND	ND	ND
W5	09/14/84	1	ND	ND	ND	ND	ND	ND	ND	ND
W5	06/17/87	2	ND	ND	ND	15.0 L	ND	ND	ND	ND
W5	12/01/87	3	ND	ND	ND	ND	ND	ND	ND	ND
W6	09/14/84	1	ND	12.0	ND	ND	ND	ND	ND	ND
W6	06/19/87	2	ND	30.0 JL	ND	ND	ND	ND	ND	ND
W6	12/01/87	3	ND	ND	ND	ND	ND	ND	ND	ND
W7	09/14/84	1	ND	ND	ND	ND	ND	ND	ND	ND
W7	12/01/87	3	ND	ND	ND	ND	ND	ND	ND	ND
W7-D	06/17/87	2	ND	8.0 JL	ND	ND	ND	ND	ND	ND
W8	07/26/84	1	ND	ND	ND	ND	ND	ND	ND	ND
W8	12/01/87	3	ND	1.0 JL	ND	ND	ND	ND	ND	ND
W9	07/26/84	1	ND	ND	ND	ND	ND	ND	ND	ND
W9	06/19/87	2	ND	ND	ND	16.0 L	ND	ND	ND	ND
W9	12/01/87	3	ND	ND	ND	ND	ND	ND	ND	ND

TENTATIVELY IDENTIFIED SEMIVOLATILES

Table F-5
PURITY OIL SALES--ANALYSIS RESULTS
Tentatively Identified Compounds
Semivolatiles

Station ID	Compound	Date	Lab ID	Concentration	Units
Blanks	1,2-BENZENEDICARBOXYLIC ACID	06/17/87	2	492.0000	ppb
Blanks	1,1,2-TRICHLOROETHANE	06/17/87	2	24.0000	ppb
Blanks	METHYL BENZENE	06/17/87	2	12.0000 B	ppb
Blanks	HEXAMETHYL CYCLOTRISILOXANE	06/17/87	2	18.0000 J	ppb
Blanks	CYCLOTETRA SILOXANE, OCTAMETHYL	06/17/87	2	10.0000 J	ppb
Blanks	2-HEXEN-1-OL	06/17/87	2	16.0000 A	ppb
Blanks	CYCLO HEXANONE	06/17/87	2	10.0000 A	ppb
Blanks	DECYL BENZENE	06/17/87	2	196.0000 B	ppb
Blanks	2-METHYL CYCLOPENTANOL	06/17/87	2	12.0000 B	ppb
Blanks	METHYL CYCLOPENTANE	06/17/87	2	1.0000 B	ppb
Blanks	HEXANE	06/17/87	2	14.8000 A	ppb
Blanks	UNKNOWNS	06/17/87	2	160.0000	ppb
Blanks	9-OCTADECEN-1-OL, (Z)-	12/01/87	3	100.0000 A	ppb
Blanks	2-CYCLOHEXEN-1-ONE	12/01/87	3	6.7000 B	ppb
Blanks	CYCLOPROPANE,1,1,2-TRIMETHYL-3-(2-METHYL-1-PROPENYL)	12/01/87	3	2.0000 A	ppb
Blanks	CYCLOPENTENE,1,3-DIMETHYL-2-(1-METHYETHL)	12/01/87	3	5.0000 B	ppb
Blanks	CYCLOPROPANE, TETRAMETHYL PROPYLIDINE	12/01/87	3	11.0000 A	ppb
Blanks	2-BUTANONE, 3-METHOXY-3-METHYL	12/01/87	3	27.0000 A	ppb
Blanks	1,2-CYCLOHEXANEDIOL	12/01/87	3	10.0000 A	ppb
Blanks	1H-IMIDAZOLE 2-CARBOXALDEHYDE	12/01/87	3	6.9000 A	ppb
Blanks	7-OXABICYCLO [4,1,0] HEPTANE	12/01/87	3	18.0000 B	ppb
Blanks	HEXANE, 2,3-DIMETHYL	12/01/87	3	12.0000 A	ppb
Blanks	CYCLOHEXANE, 1-ETHYL-2-METHYL-, TRANS-	12/01/87	3	9.0000 A	ppb
Blanks	3-HEXEN-1-OL	12/01/87	3	6.0000 A	ppb
Blanks	2-PROPANOL, 1-METHOXY-2-METHYL	12/01/87	3	6.0000 A	ppb
Blanks	UNKNOWN HYDROCARBON	12/01/87	3	6.0000 A	ppb
Blanks	UNKNOWNS	12/01/87	3	17.0000	ppb
EPA1	2-HEXEN-1-OL	06/17/87	2	10.0000 BL	ppb
EPA1	DECYL BENZENE	06/17/87	2	142.0000 B	ppb
EPA1	9-OCTADECEN-1-OL, (Z)-	12/01/87	3	44.0000 AL	ppb
EPA1	CYCLOPROPANE, TETRAMETHYL PROPYLIDINE	12/01/87	3	6.0000 AL	ppb
EPA1	2-BUTANONE, 3-METHOXY-3-METHYL	12/01/87	3	16.0000 AL	ppb
EPA1	CYCLOHEXANE, 1-BROMO-4-METHYL	12/01/87	3	4.0000 A	ppb
EPA1	UNKNOWNS	12/01/87	3	6.3000	ppb
EPA2	1,1,2,2-TETRACHLOROETHANE	07/26/84	1	2.1000 A	ppb
EPA2	2-HEXEN-1-OL	06/18/87	2	12.0000 BL	ppb
EPA2	1,1,2-TRICHLOROETHANE	06/18/87	2	10.0000 A	ppb
EPA2	CYCLO HEXANONE	06/18/87	2	10.0000 AL	ppb
EPA2	1,1,2,2-TETRACHLOROETHANE	06/18/87	2	1,040.0000	ppb
EPA2	1,2,3,3-TETRACHLORO 1-PROPENE	06/18/87	2	16.0000 A	ppb
EPA2	9-OCTADECEN-1-OL, (Z)-	12/01/87	3	84.0000 AL	ppb
EPA2	2-CYCLOHEXEN-1-ONE	12/01/87	3	5.0000 BL	ppb

Table F-5
(Continued)

Station ID	Compound	Date	Lab ID	Concentration	Units
EPA2	CYCLOPROPANE,1,1,2-TRIMETHYL-3-(2-METHYL-1-PROPENYL)	12/01/87	3	4.0000 AL	ppb
EPA2	UNKNOWN HYDROCARBON	12/01/87	3	4.4000	ppb
EPA2	UNKNOWNS	12/01/87	3	19.0000	ppb
EPA4	2-METHYL CYCLOPENTANOL	06/19/87	2	16.0000 BL	ppb
EPA4	9-OCTADECEN-1-OL, (Z)-	12/01/87	3	9.2000 AL	ppb
EPA4	CYCLOPROPANE, TETRAMETHYL PROPYLIDINE	12/01/87	3	8.0000 BL	ppb
EPA4	SILANE, TETRAMETHYL	12/01/87	3	13.0000 B	ppb
EPA4	CYCLOHEXANE, 1-ETHYL-1-METHYL	12/01/87	3	7.0000 B	ppb
EPA4	UNKNOWNS	12/01/87	3	9.0000	ppb
MW-D	UNKNOWNS	12/01/87	3	6.0000	ppb
MW1D	9-OCTADECEN-1-OL, (Z)-	12/01/87	3	28.0000 AL	ppb
MW1D	CYCLOPROPANE, TETRAMETHYL PROPYLIDINE	12/01/87	3	4.0000 AL	ppb
MW1D	2-BUTANONE, 3-METHOXY-3-METHYL	12/01/87	3	5.0000 AL	ppb
MW1D	FURAN, 2,5-DIETHYLTETRA-HYDRO	12/01/87	3	2.0000 A	ppb
MW1D	UNKNOWNS	12/01/87	3	22.0000	ppb
MW1D	UNKNOWNS	06/20/88	5	10.0000	ppb
MW1S	9-OCTADECEN-1-OL, (Z)-	12/01/87	3	100.0000 AL	ppb
MW1S	ETHANOL 1-(2-BUTOXYETHOXY)-	12/01/87	3	3.0000 A	ppb
MW1S	CYCLOPROPANE, TETRAMETHYL PROPYLIDINE	12/01/87	3	3.0000 AL	ppb
MW1S	CYCLOHEXANE, 1-ETHYL-1-METHYL	12/01/87	3	5.0000 AL	ppb
MW1S	2-BUTANONE, 3-METHOXY-3-METHYL	12/01/87	3	6.0000 AL	ppb
MW1S	1H-IMIDAZOLE 2-CARBOXALDEHYDE	12/01/87	3	11.0000 BL	ppb
MW1S	UNKNOWNS	12/01/87	3	22.0000	ppb
MW1S	2-BUTANONE, 3-METHOXY-3-METHYL	12/01/87	3	6.0000 A	ppb
MW2D	9-OCTADECEN-1-OL, (Z)-	12/01/87	3	49.0000 AL	ppb
MW2D	CYCLOPROPANE, TETRAMETHYL PROPYLIDINE	12/01/87	3	5.0000 BL	ppb
MW2D	2-BUTANONE, 3-METHOXY-3-METHYL	12/01/87	3	10.0000 AL	ppb
MW2D	1,2-CYCLOHEXANEDIOL	12/01/87	3	4.0000 AL	ppb
MW2D	UNKNOWNS	12/01/87	3	1,900.0000 L	ppb
MW2S	9-OCTADECEN-1-OL, (Z)-	12/01/87	3	33.0000 AL	ppb
MW2S	1-HEXANOL, 2-ETHYL	12/01/87	3	24.0000 A	ppb
MW2S	HEXANOIC ACID, 2-ETHYL-	12/01/87	3	4.0000 A	ppb
MW2S	ETHANOL 1-(2-BUTOXYETHOXY)-	12/01/87	3	10.0000 A	ppb
MW2S	CYCLOPROPANE, TETRAMETHYL PROPYLIDINE	12/01/87	3	11.0000 BL	ppb
MW2S	HYDROBROMIC ACID	12/01/87	3	11.0000 A	ppb
MW2S	2-BUTANONE, 3-METHOXY-3-METHYL	12/01/87	3	19.0000 AL	ppb
MW2S	BENZENE, 1,2,4-TRIMETHYL	12/01/87	3	8.0000 A	ppb
MW2S	NAPHTHALENE, 1-METHYL	12/01/87	3	3.0000 A	ppb
MW2S	PHENOL, 3,4-DIMETHYL	12/01/87	3	4.0000 A	ppb
MW2S	ETHANONE, 1-4-(1 HYDROXY-1-METHYL ETHYL)-PHENOL	12/01/87	3	3.0000 A	ppb
MW2S	ANILINE	12/01/87	3	1.2000 A	ppb

Table F-5
(Continued)

Station ID	Compound	Date	Lab ID	Concentration	Units
MW2S	PHENOL, 2,3-DIMETHYL	12/01/87	3	5.0000 B	ppb
MW2S	UNKNOWNS	12/01/87	3	17.0000	ppb
MW2S	DIMETHYLPHENOL	06/20/88	5	10.0000	ppb
MW2S	UNKNOWNS	06/20/88	5	50.0000	ppb
MW2S	UNKNOWN PHTHALATE	06/20/88	5	30.0000	ppb
MW2S-D	9-OCTADECEN-1-OL, (Z)-	12/01/87	3	130.0000 AL	ppb
MW2S-D	PHENOL, 2,3-DIMETHYL	12/01/87	3	4.0000 A	ppb
MW2S-D	BENZENE, 1,2,4-TRIMETHYL	12/01/87	3	6.0000 A	ppb
MW2S-D	ETHANOL, 2-ETHOXY-	12/01/87	3	15.0000 A	ppb
MW2S-D	CYCLOHEXANE, 1,1,-DIMETHYL-	12/01/87	3	10.0000 A	ppb
MW2S-D	BENZOIC ACID, 2,3-DIMETHYL-	12/01/87	3	4.0000 A	ppb
MW2S-D	PENTANE, 3-METHOXY-	12/01/87	3	8.4000 B	ppb
MW2S-D	HEXANOIC ACID, 2-ETHYL-	12/01/87	3	8.0000 A	ppb
MW2S-D	UNKNOWNS	12/01/87	3	13.0000	ppb
MW2S-D	BENZENE, 1,2,3-TRIMETHYL	12/01/87	3	7.0000 A	ppb
MW2S-D	UNKNOWNS	06/20/88	5	60.0000	ppb
MW2S-D	UNKNOWN PHTHALATE	06/20/88	5	8.0000	ppb
MW3	9-OCTADECEN-1-OL, (Z)-	12/01/87	3	26.0000 AL	ppb
MW3	ETHANOL 1-(2-BUTOXYETHOXY)-	12/01/87	3	6.0000 A	ppb
MW3	CYCLOPROPANE, TETRAMETHYL PROPYLIDINE	12/01/87	3	5.0000 BL	ppb
MW3	2-BUTANONE, 3-METHOXY-3-METHYL	12/01/87	3	4.8000 AL	ppb
MW3	BENZOIC ACID, 2,5-DIMETHYL	12/01/87	3	5.0000 A	ppb
MW3	1H-INDENE, 2,3-DIHYDRO-4-METH	12/01/87	3	4.0000 A	ppb
MW3	HEPTADECANE	12/01/87	3	6.0000 A	ppb
MW3	BENZENE, 1,2,3,5-TETRAMETHYL	12/01/87	3	4.6000 A	ppb
MW3	DECANE, 2-METHYL	12/01/87	3	5.3000 A	ppb
MW3	NAPHTHALENE, 1,5-DIMETHYL	12/01/87	3	3.0000 A	ppb
MW3	1,4-METHANONAPHTHALENE-9-OL,	12/01/87	3	3.0000 A	ppb
MW3	UNKNOWNS	12/01/87	3	13.0000	ppb
MW3	UNKNOWNS	06/20/88	5	8.0000	ppb
MW4	9-OCTADECEN-1-OL, (Z)-	12/01/87	3	38.0000 AL	ppb
MW4	CYCLOPROPANE, TETRAMETHYL PROPYLIDINE	12/01/87	3	4.0000 BL	ppb
MW4	2-BUTANONE, 3-METHOXY-3-METHYL	12/01/87	3	7.0000 AL	ppb
MW4	UNKNOWNS	12/01/87	3	11.0000	ppb
MW4-D	9-OCTADECEN-1-OL, (Z)-	12/01/87	3	15.0000 AL	ppb
MW4-D	CYCLOPROPANE, TETRAMETHYL PROPYLIDINE	12/01/87	3	4.0000 BL	ppb
MW4-D	2-BUTANONE, 3-METHOXY-3-METHYL	12/01/87	3	8.0000 AL	ppb
MW4-D	UNKNOWNS	12/01/87	3	7.0000	ppb
MW4-D	CYCLOHEXANE, 1-ETHYL-1-METHYL	12/01/87	3	5.0000 A	ppb
MW5	9-OCTADECEN-1-OL, (Z)-	12/01/87	3	48.0000 AL	ppb
MW5	1-HEXANOL, 2-ETHYL	12/01/87	3	83.0000 A	ppb
MW5	HEXANOIC ACID, 2-ETHYL-	12/01/87	3	15.0000 A	ppb

Table F-5
(Continued)

Station ID	Compound	Date	Lab ID	Concentration	Units
MW5	ETHANOL 1-(2-BUTOXYETHOXY)-	12/01/87	3	5.0000 A	ppb
MW5	ETHANOL, 2-ETHOXY-	12/01/87	3	69.0000 A	ppb
MW5	BUTANOICACID, 4-BUTOXY	12/01/87	3	53.0000 A	ppb
MW5	ETHANE,1,1-OXYBIS[2-ETHOXY	12/01/87	3	26.0000 A	ppb
MW5	ETHANE,1,1-OXYBIS[2-METHOXY-	12/01/87	3	7.0000 A	ppb
MW5	ETHANOL,2-[2-[2-METHOXY]ETHOXY	12/01/87	3	5.0000 A	ppb
MW5	PHENOL,3-(1,1-DIMETHYLETHYL)	12/01/87	3	12.0000 A	ppb
MW5	ETHANOL,2-(2-BUTOXY ETHOXY)-	12/01/87	3	24.0000 A	ppb
MW5	UNKNOWNS	12/01/8&	3	35.0000	ppb
MW5	UNKNOWNS	06/20/88	5	100.0000	ppb
MW5	UNKNOWN PHTHALATE	06/20/88	5	40.0000	ppb
MW5-D	C4-PHENOL	06/20/88	5	20.0000	ppb
MW5-D	C5-PHENOL	06/20/88	5	10.0000	ppb
MW5-D	UNKNOWNS	06/20/88	5	20.0000	ppb
MW6	9-OCTADECEN-1-OL, (Z)-	12/01/87	3	51.0000 AL	ppb
MW6	2-CYCLOHEXEN-1-ONE	12/01/87	3	9.0000 AL	ppb
MW6	1,2-CYCLOHEXANEDIOL	12/01/87	3	4.0000 AL	ppb
MW6	UNKNOWNS	12/01/87	3	14.0000	ppb
MW6	UNKNOWNS	06/20/88	5	30.0000	ppb
MW7	9-OCTADECEN-1-OL, (Z)-	12/01/87	3	15.0000 AL	ppb
MW7	CYCLOPROPANE,1,1,2-TRIMETHYL-3-(2-METHYL-1-PROPENYL)	12/01/87	3	2.0000 AL	ppb
MW7	CYCLOPROPANE, TETRAMETHYL PROPYLIDINE	12/01/87	3	7.0000 AL	ppb
MW7	2-BUTANONE, 3-METHOXY-3-METHYL	12/01/87	3	15.0000 AL	ppb
MW7	7-OXABICYCLO [4,1,0] HEPTANE	12/01/87	3	4.0000 AL	ppb
MW7	UNKNOWNS	12/01/87	3	6.0000	ppb
MW8	9-OCTADECEN-1-OL, (Z)-	12/01/87	3	16.0000 AL	ppb
MW8	CYCLOPROPANE,1,1,2-TRIMETHYL-3-(2-METHYL-1-PROPENYL)	12/01/87	3	2.0000 AL	ppb
MW8	CYCLOPROPANE, TETRAMETHYL PROPYLIDINE	12/01/87	3	7.0000 AL	ppb
MW8	UNKNOWNS	12/01/87	3	5.0000	ppb
MW8	ETHANOL 1-(2-BUTOXYETHOXY)-	12/01/87	3	2.0000 A	ppb
MW8	UNKNOWNS	06/20/88	5	30.0000	ppb
MW9	9-OCTADECEN-1-OL, (Z)-	12/01/87	3	110.0000 AL	ppb
MW9	CYCLOPROPANE, TETRAMETHYL PROPYLIDINE	12/01/87	3	2.0000 AL	ppb
MW9	HYDROBROMIC ACID	12/01/87	3	10.0000 AL	ppb
MW9	ETHANOL,2-(2-BUTOXY ETHOXY)-	12/01/87	3	2.0000 A	ppb
MW9	CYCLOHEXANOL, 2-BROMO-TRANS	12/01/87	3	5.0000 A	ppb
MW9	UNKNOWNS	12/01/87	3	24.0000	ppb
MW9	UNKNOWNS	06/20/88	5	10.0000	ppb
PWB	1,3,5 CYCLOHEPTATRIENE	06/16/87	2	12.0000 B	ppb
PWB	9-OCTADECEN-1-OL, (Z)-	12/01/87	3	66.0000 AL	ppb
PWB	2-BUTANONE, 3-METHOXY-3-METHYL	12/01/87	3	17.0000 AL	ppb
PWB	UNKNOWNS	12/01/87	3	7.0000	ppb

Table F-5
(Continued)

Station ID	Compound	Date	Lab ID	Concentration	Units
PWBNS	METHYL BENZENE	06/18/87	2	12.0000 BL	ppb
PWBNS	HEXAMETHYL CYCLOTRISILOXANE	06/18/87	2	18.0000 BL	ppb
PWCF	1,3,5 CYCLOHEPTATRIENE	06/16/87	2	16.0000 B	ppb
PWCF	9-OCTADECEN-1-OL, (Z)-	12/01/87	3	26.0000 AL	ppb
PWCF	CYCLOPROPANE,1,1,2-TRIMETHYL-3-(2-METHYL-1-PROPENYL)	12/01/87	3	8.0000 AL	ppb
PWCF	2-BUTANONE, 3-METHOXY-3-METHYL	12/01/87	3	17.0000 AL	ppb
PWCF	7-OXABICYCLO [4,1,0] HEPTANE	12/01/87	3	5.0000 AL	ppb
PWCF	UNKNOWNS	12/01/87	3	4.6000	ppb
PWD	METHYL BENZENE	06/05/87	2	8.0000 BL	ppb
PWD	HEXAMETHYL CYCLOTRISILOXANE	06/05/87	2	18.0000 BL	ppb
PWD	9-OCTADECEN-1-OL, (Z)-	12/01/87	3	30.0000 AL	ppb
PWD	2-CYCLOHEXEN-1-ONE	12/01/87	3	7.0000 AL	ppb
PWD	OXABICYCLO [4,1,0] HEPTANE	12/01/87	3	15.0000 B	ppb
PWN	METHYL BENZENE	06/03/87	2	14.0000 AL	ppb
PWN	ETHANOL 2-(2-BUTOXYETHOXY	06/03/87	2	26.0000 B	ppb
PWN	2-METHYL CYCLOPENTANOL	06/03/87	2	10.0000 BL	ppb
PWN	9-OCTADECEN-1-OL, (Z)-	12/01/87	3	37.0000 AL	ppb
PWN	OXABICYCLO [4,1,0] HEPTANE	12/01/87	3	13.0000 B	ppb
PWN	1H-IMIDAZOLE 2-CARBOXALDEHYDE	12/01/87	3	6.0000 AL	ppb
PWN	1,4-DIOXANE, 2,5-DIMETHYL	12/01/87	3	3.0000 A	ppb
PWN	ETHANOL, 2-BUTOXY-	12/01/87	3	61.0000 A	ppb
PWN	UNKNOWNS	12/01/87	3	15.0000	ppb
PWN-D	2-HEXEN-1-OL	06/03/87	2	10.0000 AL	ppb
PWN-D	1,2-BENZENEDICARBOXYLIC ACID	06/03/87	2	3,540.0000 L	ppb
PWN-D	UNKNOWNS	06/03/87	2	560.0000	ppb
PWN-D	THIOPHENE, TETRAHYDRO-1, 1-DIOXIDE	12/01/87	3	4.0000 A	ppb
PWN-D	BUTANOICACID, 4-BUTOXY	12/01/87	3	49.0000 A	ppb
PWN-D	9-OCTADECEN-1-OL, (Z)-	12/01/87	3	71.0000 AL	ppb
PWN-D	UNKNOWNS	12/01/87	3	13.0000 A	ppb
PWN-D	1,4-DIOXANE, 2,5-DIMETHYL	12/01/87	3	4.0000 A	ppb
PWN-D	7-OXABICYCLO [4,1,0] HEPTANE	12/01/87	3	15.0000 BL	ppb
PWN-D	2-CYCLOHEXEN-1-ONE	12/01/87	3	7.0000 AL	ppb
PWNN	1,3,5 CYCLOHEPTATRIENE	06/16/87	2	12.0000 B	ppb
PWNN	HEXAMETHYL CYCLOTRISILOXANE	06/16/87	2	10.0000 AL	ppb
PWNN	1,2-CYCLOHEXANEDIOL, TRANS-	12/01/87	3	5.0000 A	ppb
PWNN	7-OXABICYCLO [4,1,0] HEPTANE	12/01/87	3	12.0000 BL	ppb
PWNN	3(214)-PYRIDAZINONE	12/01/87	3	8.0000 A	ppb
PWNN	1,12-TRI-DECADIENE	12/01/87	3	25.0000 B	ppb
PWNS	HEXAMETHYL CYCLOTRISILOXANE	06/05/87	2	12.0000 AL	ppb
PWNS	METHYL BENZENE	06/05/87	2	10.0000 BL	ppb
PWNS	9-OCTADECEN-1-OL, (Z)-	12/01/87	3	43.0000 AL	ppb
PWNS	2H-AZEPIN-2-ONE, BEXAHYDRO-	12/01/87	3	3.0000 A	ppb

Table F-5
(Continued)

Station ID	Compound	Date	Lab ID	Concentration	Units
PWNS	OXABICYCLO [4,1,0] HEPTANE	12/01/87	3	10.0000 B	ppb
PWNS	2H-AZEPIN-2-ONE,HEXAHDRO	12/01/87	3	3.0000 A	ppb
PWNS	1H-IMIDAZOLE 2-CARBOXALDEHYDE	12/01/87	3	6.0000 BL	ppb
PWNS	NONANOIC-ACID	12/01/87	3	2.0000 A	ppb
PWNS	HEXADECANOICACID	12/01/87	3	1.0000 A	ppb
PWNS	SULFUR, MOL.(58)	12/01/87	3	42.0000 A	ppb
PWNS	OXABICYCLO [4,1,0] HEPTANE	12/01/87	3	10.0000 B	ppb
PWNS	2H-AZEPIN-2-ONE,HEXAHDRO	12/01/87	3	3.0000 A	ppb
PWNS	1H-IMIDAZOLE 2-CARBOXALDEHYDE	12/01/87	3	6.0000 BL	ppb
PWNS	NONANOIC-ACID	12/01/87	3	2.0000 A	ppb
PWNS	HEXADECANOICACID	12/01/87	3	1.0000 A	ppb
PWNS	SULFUR, MOL.(58)	12/01/87	3	42.0000 A	ppb
PWO	1,3,5 CYCLOHEPTATRIENE	06/16/87	2	14.0000 B	ppb
PWO	HEXAMETHYL CYCLOTRISILOXANE	06/16/87	2	12.0000 AL	ppb
PWO	2-HEXEN-1-OL	06/16/87	2	10.0000 AL	ppb
PWO	9-OCTADECEN-1-OL, (Z)-	12/01/87	3	10.0000 AL	ppb
PWO	CYCLOPROPANE,1,1,2-TRIMETHYL-3-(2-METHYL-1-PROPENYL)	12/01/87	3	7.0000 AL	ppb
PWO	NONANOIC-ACID	12/01/87	3	1.0000 A	ppb
PWO	1,3,6-TRIOXOCANE, 2-METHYL	12/01/87	3	8.0000 A	ppb
PWO	UNKNOWNS	12/01/87	3	6.1000	ppb
PWP	HEXAMETHYL CYCLOTRISILOXANE	06/16/87	2	18.0000 AL	ppb
PWP	METHYL BENZENE	06/16/87	2	14.0000 BL	ppb
PWP	9-OCTADECEN-1-OL, (Z)-	12/01/87	3	15.0000 AL	ppb
PWP	CYCLOPROPANE,1,1,2-TRIMETHYL-3-(2-METHYL-1-PROPENYL)	12/01/87	3	7.0000 AL	ppb
PWP	CYCLOPROPANE, TETRAMETHYL PROPYLIDINE	12/01/87	3	2.0000 AL	ppb
PWP	2-BUTANONE, 3-METHOXY-3-METHYL	12/01/87	3	14.0000 AL	ppb
PWP	1,2-CYCLOHEXANEDIOL	12/01/87	3	4.3000 AL	ppb
PWP	UNKNOWNS	12/01/87	3	7.0000	ppb
PWQ	9-OCTADECEN-1-OL, (Z)-	12/01/87	3	15.0000 AL	ppb
PWQ	CYCLOPROPANE,1,1,2-TRIMETHYL-3-(2-METHYL-1-PROPENYL)	12/01/87	3	2.0000 AL	ppb
PWQ	CYCLOPROPANE, TETRAMETHYL PROPYLIDINE	12/01/87	3	8.0000 AL	ppb
PWQ	1,2-CYCLOHEXANEDIOL	12/01/87	3	4.0000 AL	ppb
PWQ	PENTANE, 3-METHOXY-	12/01/87	3	19.0000 A	ppb
PWQ	PENTANE, 3-ETHYL-	12/01/87	3	7.0000 A	ppb
PWV	HEXAMETHYL CYCLOTRISILOXANE	06/16/87	2	22.0000 AL	ppb
PWV	METHYL BENZENE	06/16/87	2	18.0000 BL	ppb
PWV	2-HEXEN-1-OL	06/16/87	2	10.0000 BL	ppb
PWV	9-OCTADECEN-1-OL, (Z)-	12/01/87	3	4.0000 AL	ppb
PWV	OXABICYCLO [4,1,0] HEPTANE	12/01/87	3	11.0000 B	ppb
PWV	1H-IMIDAZOLE 2-CARBOXALDEHYDE	12/01/87	3	5.6000 AL	ppb
PWV	1,2-CYCLOHEXANEDIOL, TRANS-	12/01/87	3	5.0000 A	ppb
PWV	THIOPHENE, TETRAHYDRO-1, 1-DIOXIDE	12/01/87	3	2.0000 A	ppb
PWV	UNKNOWNS	12/01/87	3	4.4000	ppb

Table F-5
(Continued)

Station ID	Compound	Date	Lab ID	Concentration	Units
PW36a	UNKNOWNS	06/20/88	5	40.0000	ppb
PW40	C14H2604 ACID	06/20/88	5	100.0000	ppb
PW7	UNKNOWNS	06/20/88	5	50.0000	ppb
W1D	2-HEXEN-1-OL	06/18/87	2	10.0000 AL	ppb
W1D	METHYL CYCLOHEXANE	06/18/87	2	12.0000 A	ppb
W1D	9-OCTADECEN-1-OL, (Z)-	12/01/87	3	50.0000 AL	ppb
W1D	CYCOLHEXANE, (1,1,2-TRIMETHYL)	12/01/87	3	12.0000 B	ppb
W1D	2-HEPTENAL,(E)-	12/01/87	3	4.0000 C	ppb
W1D	CYCLOPROPANE, TETRAMETHYL PROPYLIDINE	12/01/87	3	8.0000 BL	ppb
W1D	1,3-DIOXOLANE-2-METHANOL	12/01/87	3	15.0000 A	ppb
W1D	1-BUTANOL, 3-METHOXY	12/01/87	3	4.0000 B	ppb
W1D	UNKNOWNS	12/01/87	3	9.0000	ppb
W1S	2-HEXEN-1-OL	06/18/87	2	18.0000 BL	ppb
W1S	CYCLO HEXANONE	06/18/87	2	12.0000 AL	ppb
W1S	1,3,6-TRIOXOCANE	06/18/87	2	8.0000 C	ppb
W1S	9-OCTADECEN-1-OL, (Z)-	12/01/87	3	63.0000 AL	ppb
W1S	CYCLOPROPANE,1,1,2-TRIMETHYL-3-(2-METHYL-1-PROPENYL)	12/01/87	3	5.0000 AL	ppb
W1S	ETHANOL 1-(2-BUTOXYETHOXY)-	12/01/87	3	12.0000 A	ppb
W1S	UNKNOWNS	12/01/87	3	8.8000	ppb
W1S-D	2-METHYL CYCLOPENTANOL	06/18/87	2	24.0000 BL	ppb
W1S-D	9-OCTADECEN-1-OL, (Z)-	06/18/87	2	40.0000 A	ppb
W1S-D	ETHANOL 1-(2-BUTOXYETHOXY)-	06/18/87	2	12.0000 A	ppb
W1S-D	1,3-DIOXOLANE,2-PROPYL-	06/18/87	2	17.0000 A	ppb
W1S-D	THIOCYANICACID, ETHYLESTER	06/18/87	2	6.0000 B	ppb
W1S-D	CYCOLHEXANE, (1,1,2-TRIMETHYL)	06/18/87	2	7.0000 B	ppb
W1S-D	UNKNOWNS	06/18/87	2	14.0000	ppb
W1S-D	9-OCTADECEN-1-OL, (Z)-	12/01/87	3	40.0000 AL	ppb
W1S-D	ETHANOL 1-(2-BUTOXYETHOXY)-	12/01/87	3	8.0000 A	ppb
W1S-D	1,3-DIOXOLANE,2-PROPYL-	12/01/87	3	17.0000 A	ppb
W1S-D	THIOCYANICACID, ETHYLESTER	12/01/87	3	6.0000 B	ppb
W1S-D	CYCOLHEXANE, (1,1,2-TRIMETHYL)	12/01/87	3	7.0000 B	ppb
W1S-D	UNKNOWNS	12/01/87	3	6.7000	ppb
W2D	2-HEXEN-1-OL	06/18/87	2	10.0000 AL	ppb
W2D	9-OCTADECEN-1-OL, (Z)-	12/01/87	3	15.0000 AL	ppb
W2D	2-CYCLOHEXEN-1-ONE	12/01/87	3	6.5000 BL	ppb
W2D	UNKNOWNS	12/01/87	3	15.0000	ppb
W2S	ETHANOL 2-(2-BUTOXYETHOXY	06/18/87	2	30.0000 A	ppb
W2S	9-OCTADECEN-1-OL, (Z)-	12/01/87	3	65.0000 AL	ppb
W2S	2-CYCLOHEXEN-1-ONE	12/01/87	3	5.7000 BL	ppb
W2S	1-HEXANOL, 2-ETHYL	12/01/87	3	14.0000 A	ppb
W2S	HEXANOIC ACID, 2-ETHYL-	12/01/87	3	13.0000 A	ppb

Table F-5
(Continued)

Station ID	Compound	Date	Lab ID	Concentration	Units
W2S	2H-AZEPIN-2-ONE,HEXAHDRO	12/01/87	3	4.0000 A	ppb
W2S	HEXANOIC ACID, 2-ETHYL-	12/01/87	3	13.0000 A	ppb
W2S	UNKNOWNS	12/01/87	3	11.0000	ppb
W3D	9-OCTADECEN-1-OL, (Z)-	12/01/87	3	39.0000 AL	ppb
W3D	2-CYCLOHEXEN-1-ONE	12/01/87	3	7.0000 BL	ppb
W3D	UNKNOWNS	12/01/87	3	15.0000	ppb
W3S	9-OCTADECEN-1-OL, (Z)-	12/01/87	3	46.0000 AL	ppb
W3S	2-CYCLOHEXEN-1-ONE	12/01/87	3	6.0000 BL	ppb
W3S	HEXANOIC ACID, 2-ETHYL-	12/01/87	3	3.0000 A	ppb
W3S	2H-AZEPIN-2-ONE,HEXAHDRO	12/01/87	3	5.0000 A	ppb
W3S	UNKNOWNS	12/01/87	3	14.0000	ppb
W5	9-OCTADECEN-1-OL, (Z)-	12/01/87	3	53.0000 AL	ppb
W5	CYCLOPROPANE, TETRAMETHYL PROPYLIDINE	12/01/87	3	6.0000 AL	ppb
W5	2-BUTANONE, 3-METHOXY-3-METHYL	12/01/87	3	15.0000 AL	ppb
W5	HEXANE, 2,3-DIMETHYL	12/01/87	3	4.1000 AL	ppb
W5	CYCLOHEXANE, 1-ETHYL-2-METHYL-, TRANS-	12/01/87	3	5.0000 AL	ppb
W5	3-HEXEN-1-OL	12/01/87	3	4.0000 AL	ppb
W5	UNKNOWNS	12/01/87	3	4.0000	ppb
W6	9-OCTADECEN-1-OL, (Z)-	12/01/87	3	47.0000 AL	ppb
W6	CYCLOPROPANE, TETRAMETHYL PROPYLIDINE	12/01/87	3	10.0000 AL	ppb
W6	2-BUTANONE, 3-METHOXY-3-METHYL	12/01/87	3	25.0000 AL	ppb
W6	HEXANE, 2,3-DIMETHYL	12/01/87	3	10.0000 AL	ppb
W6	CYCLOHEXANE, 1-ETHYL-2-METHYL-, TRANS-	12/01/87	3	8.0000 AL	ppb
W6	3-HEXEN-1-OL	12/01/87	3	5.0000 AL	ppb
W6	2-PROPANOL, 1-METHOXY-2-METHYL	12/01/87	3	6.0000 AL	ppb
W7	2-HEXEN-1-OL	06/17/87	2	16.0000 AL	ppb
W7	CYCLO HEXANONE	06/17/87	2	10.0000 AL	ppb
W7	DECYL BENZENE	06/17/87	2	134.0000 BL	ppb
W7	9-OCTADECEN-1-OL, (Z)-	12/01/87	3	69.0000 AL	ppb
W7	CYCLOPROPANE, TETRAMETHYL PROPYLIDINE	12/01/87	3	11.0000 AL	ppb
W7	2-BUTANONE, 3-METHOXY-3-METHYL	12/01/87	3	30.0000 AL	ppb
W7	HEXANE, 2,3-DIMETHYL	12/01/87	3	11.0000 AL	ppb
W7	CYCLOHEXANE, 1-ETHYL-2-METHYL-, TRANS-	12/01/87	3	8.0000 AL	ppb
W7	3-HEXEN-1-OL	12/01/87	3	6.0000 AL	ppb
W7	2-PROPANOL, 1-METHOXY-2-METHYL	12/01/87	3	8.0000 AL	ppb
W7	UNKNOWNS	12/01/87	3	5.0000	ppb
W7-D	2-HEXEN-1-OL	06/17/87	2	14.0000 AL	ppb
W7-D	CYCLO HEXANONE	06/17/87	2	10.0000 AL	ppb
W7-D	DECYL BENZENE	06/17/87	2	122.0000 BL	ppb
W7-D	UNKNOWNS	06/17/87	2	10.0000	ppb
W7-D	2,3-DICHLORO-2-METHYL BUTANE	06/17/87	2	12.0000	ppb

Table F-5
(Continued)

Station ID	Compound	Date	Lab ID	Concentration	Units
W8	2-HEXEN-1-OL	06/19/87	2	14.0000 AL	ppb
W8	9-OCTADECEN-1-OL, (Z)-	12/01/87	3	110.0000 AL	ppb
W8	CYCLOPROPANE, TETRAMETHYL PROPYLIDINE	12/01/87	3	11.0000 AL	ppb
W8	2-BUTANONE, 3-METHOXY-3-METHYL	12/01/87	3	27.0000 AL	ppb
W8	HEXANE, 2,3-DIMETHYL	12/01/87	3	10.0000 AL	ppb
W8	CYCLOHEXANE, 1-ETHYL-2-METHYL-, TRANS-	12/01/87	3	9.0000 AL	ppb
W8	3-HEXEN-1-OL	12/01/87	3	5.0000 AL	ppb
W8	2-PROPANOL, 1-METHOXY-2-METHYL	12/01/87	3	6.0000 AL	ppb
W8	UNKNOWNS	12/01/87	3	5.0000	ppb
W9	2-METHYL CYCLOPENTANOL	06/19/87	2	45.0000 BL	ppb
W9	CYCLO HEXANONE	06/19/87	2	25.0000 AL	ppb
W9	METHYL CYCLOHEXANE	06/19/87	2	35.0000 B	ppb
W9	PHTHALATE	06/19/87	2	50.0000 A	ppb
W9	9-OCTADECEN-1-OL, (Z)-	12/01/87	3	1.0000 AL	ppb
W9	1,3-DIOXOLANE,2-PROPYL-	12/01/87	3	6.0000 A	ppb
W9	THIOCYANICACID, ETHYLESTER	12/01/87	3	5.0000 B	ppb
W9	CYCLOPROPANE, TETRAMETHYL PROPYLIDINE	12/01/87	3	6.0000 BL	ppb
W9	CYCLOHEXANE, 1-ETHYL-1-METHYL	12/01/87	3	7.0000 BL	ppb
W9	UNKNOWNS	12/01/87	3	9.0000	ppb

TENTATIVELY IDENTIFIED VOLATILES

Table F-6
PURITY OIL SALES--ANALYSIS RESULTS
Tentatively Identified Compounds
Volatiles
(µg/l)

Station ID	Lab ID	Date	Hexane	Foramide	Tetrahydro-furan	2-Methyl-1-pentene	Methyl-cyclohexane	Unknown
BLANKS	2	06/19/87	14.8	ND	ND	ND	ND	1.0
BLANKS	3	12/01/87	ND	ND	ND	ND	ND	ND
MW2D	3	12/01/87	ND	ND	40.0 A	ND	ND	ND
MW2S	3	12/01/87	ND	ND	ND	2.0 A	3.0 A	0.1, 1.0, 0.1
MW2S	5	06/20/88	ND	ND	ND	ND	ND	ND
MW3	3	12/01/87	ND	ND	ND	ND	ND	1.0, 3.0, 3.0
MW3	5	06/20/88	ND	ND	ND	ND	ND	ND
MW5	5	06/20/88	ND	ND	ND	ND	ND	1.6, 7.0, 44.0, 20.0, 9.8
MW5-D	5	06/20/88	ND	ND	ND	ND	ND	3.7, 14.0, 13.0, 0.8
PWB	2	06/16/87	1.2 AL	ND	ND	ND	ND	ND
PWCF	2	09/02/87	1.2 AL	ND	ND	ND	ND	ND
PWD	2	06/05/87	1.2 AL	ND	ND	ND	ND	ND
PWN	2	06/03/87	1.2 AL	ND	ND	ND	ND	ND
PWN	3	12/01/87	ND	ND	ND	ND	ND	1.0
PWNS	2	06/05/87	1.0 AL	1.2 A	ND	ND	ND	ND
PWO	2	06/16/87	8.2 AL	ND	ND	ND	ND	ND
PWP	2	06/16/87	2.8 AL	ND	ND	ND	ND	ND
PWQ	2	06/16/87	7.6 AL	ND	ND	ND	ND	ND
PWV	2	06/16/87	7.8 AL	ND	ND	ND	ND	ND
W1S-D	2	06/18/87	4.8 AL	ND	ND	ND	ND	14.0
W5	3	12/01/87	ND	ND	ND	ND	ND	3.0, 0.2, 1.0
W6	2	06/19/87	7.8 AL	ND	ND	ND	ND	ND
W7-D	2	06/17/87	2.2 AL	ND	ND	ND	ND	8.0, 10.0

Table F-6
(continued)

Station ID	Lab ID	Date	C3-Alkyl-benzene	C5-Alkane	C5-Alkyl-benzene	Tetrahydro-thiophene	Unknwn Alkane
BLANKS	2	06/19/87	ND	ND	ND	ND	ND
BLANKS	3	12/01/87	ND	ND	ND	ND	ND
MW2D	3	12/01/87	ND	ND	ND	ND	ND
MW2S	3	12/01/87	ND	ND	ND	ND	ND
MW2S	5	06/20/88	ND	ND	ND	0.7	ND
MW3	3	12/01/87	ND	ND	ND	ND	ND
MW3	5	06/20/88	1.4	ND	ND	ND	ND
MW5	5	06/20/88	27.0	ND	36.0	9.0	36.0
MW5-D	5	06/20/88	2.5	2.8	ND	ND	16.0, 15.0, 0.4
PWB	2	06/16/87	ND	ND	ND	ND	ND
PWCF	2	09/02/87	ND	ND	ND	ND	ND
PWD	2	06/05/87	ND	ND	ND	ND	ND
PWN	2	06/03/87	ND	ND	ND	ND	ND
PWN	3	12/01/87	ND	ND	ND	ND	ND
PWNS	2	06/05/87	ND	ND	ND	ND	ND
PWO	2	06/16/87	ND	ND	ND	ND	ND
PWP	2	06/16/87	ND	ND	ND	ND	ND
PWQ	2	06/16/87	ND	ND	ND	ND	ND
PWV	2	06/16/87	ND	ND	ND	ND	ND
W1S-D	2	06/18/87	ND	ND	ND	ND	ND
W5	3	12/01/87	ND	ND	ND	ND	ND
W6	2	06/19/87	ND	ND	ND	ND	ND
W7-D	2	06/17/87	ND	ND	ND	ND	ND

EPA/ERT STUDY

Table F-7
EPA/ERT STUDY
CHEMICAL CONCENTRATIONS IN GROUNDWATER SAMPLES FROM MONITORING WELLS

Well Number	EPA-1	EPA-2	EPA-3	EPA-4	EPA-5	EPA-6	EPA-7
Well Elevation (water table)	252.57	254.18	252.13	253.13	251.40	252.70	251.31
Compound (µg/l)							
Arsenic	16	12	15	30	<5	13	<5
Chromium	<50	<50	65	60	260	<50	<50
Copper	715	1450	790	1680	425	1650	530
Lead	<100	<100	280	230	ND	<100	ND
Mercury	4	2	0.6	1	0.3	0.3	<0.2
Selenium	ND	6	<5	<5	<5	<5	<5
Zinc	950	1400	400	525	325	510	180
Cadmium	25	35	30	25	30	20	55
Chloroform					69		72
Methylene Chloride			32	10		<10	
1,1-Dichloroethane						34	
1,2-Dichloroethane						12	
1,2-trans-Dichloroethylene						214	<10

ND - Not Detected.
< - Below minimum detectable limit.

RD/R47/014

CATIONS AND ANIONS BALANCE

WELL: W1D

CATIONS	CONVERSION mg/l TO meq	mg/l	meq	% OF TOTAL
Ca	0.0499	67	3.34	40
Mg	0.0822	37.5	3.08	37
Na	0.0435	40	1.74	
K	0.0256	4.9	0.13	22
			8.29	100
ANIONS				
Cl	0.0282	56	1.58	
NO3	0.0161	3.5	0.06	20
HCO3	0.0164	335	5.49	
CO3	0.0333	0	0.00	68
SO4	0.0208	48	1.00	12
			8.13	100

WELL: W1S

CATIONS	CONVERSION mg/l TO meq	mg/l	meq	% OF TOTAL
Ca	0.0499	110	5.49	35
Mg	0.0822	61.5	5.06	33
Na	0.0435	110	4.78	
K	0.0256	7.5	0.19	32
			15.52	100
ANIONS				
Cl	0.0282	110	3.10	
NO3	0.0161	0.9	0.01	21
HCO3	0.0164	542	8.89	
CO3	0.0333	0	0.00	60
SO4	0.0208	130	2.70	18
			14.71	100

WELL: MW1D

CATIONS	CONVERSION mg/l TO meq	mg/l	meq	% OF TOTAL
Ca	0.0499	75.7	3.78	39
Mg	0.0822	43.4	3.57	37
Na	0.0435	49.6	2.16	
K	0.0256	6.2	0.16	24
			9.66	100
ANIONS				
Cl	0.0282	86	2.43	
NO3	0.0161	7	0.11	41
HCO3	0.0164	173	2.84	
CO3	0.0333	0	0.00	46
SO4	0.0208	36	0.75	12
			6.12	100

WELL: MW2D

CATIONS	CONVERSION mg/l TO meq	mg/l	meq	% OF TOTAL
Ca	0.0499	26.5	1.32	38
Mg	0.0822	4.8	0.39	11
Na	0.0435	38.5	1.67	
K	0.0256	3.7	0.09	51
			3.49	100
ANIONS				
Cl	0.0282	88	2.48	
NO3	0.0161	4.2	0.07	39
HCO3	0.0164	192	3.15	
CO3	0.0333	0	0.00	49
SO4	0.0208	37	0.77	12
			6.47	100

WELL: W2D

CATIONS	CONVERSION mg/l TO meq	mg/l	meq	% OF TOTAL
Ca	0.0499	25	1.25	46
Mg	0.0822	12	0.99	36
Na	0.0435	10	0.44	
K	0.0256	1.4	0.04	17
			2.70	100
ANIONS				
Cl	0.0282	3	0.08	
NO3	0.0161	0.14	0.00	3
HCO3	0.0164	145	2.38	
CO3	0.0333	0	0.00	94
SO4	0.0208	3	0.06	2
			2.53	100

WELL: W2S

CATIONS	CONVERSION mg/l TO meq	mg/l	meq	% OF TOTAL
Ca	0.0499	48	2.40	43
Mg	0.0822	23.5	1.93	35
Na	0.0435	27	1.17	
K	0.0256	2.8	0.07	22
			5.57	100
ANIONS				
Cl	0.0282	11	0.31	
NO3	0.0161	0.03	0.00	5
HCO3	0.0164	310	5.08	
CO3	0.0333	0	0.00	86
SO4	0.0208	24	0.50	8
			5.89	100

WELL: W3D

CATIONS	CONVERSION mg/l TO meq	mg/l	meq	% OF TOTAL
Ca	0.0499	34	1.70	45
Mg	0.0822	14.5	1.19	31
Na	0.0435	20	0.87	
K	0.0256	2.1	0.05	24
			3.81	100
ANIONS				
Cl	0.0282	9	0.25	
NO3	0.0161	0.4	0.01	7
HCO3	0.0164	151	2.48	
CO3	0.0333	0	0.00	65
SO4	0.0208	51	1.06	28
			3.80	100

WELL: W3S

CATIONS	CONVERSION mg/l TO meq	mg/l	meq	% OF TOTAL
Ca	0.0499	190	9.48	48
Mg	0.0822	80.5	6.62	33
Na	0.0435	80	3.48	
K	0.0256	7	0.18	19
			19.76	100
ANIONS				
Cl	0.0282	16	0.45	
NO3	0.0161	0.4	0.01	2
HCO3	0.0164	461	7.56	
CO3	0.0333	0	0.00	41
SO4	0.0208	500	10.40	56
			18.42	100

WELL: W5

CATIONS	CONVERSION mg/l TO meq	mg/l	meq	% OF TOTAL
Ca	0.0499	110	5.49	44
Mg	0.0822	52	4.27	34
Na	0.0435	61	2.65	
K	0.0256	5	0.13	22
			12.54	100
ANIONS				
Cl	0.0282	65	1.83	
NO3	0.0161	1.8	0.03	17
HCO3	0.0164	425	6.97	
CO3	0.0333	0	0.00	64
SO4	0.0208	98	2.04	19
			10.87	100

WELL: W6

CATIONS	CONVERSION mg/l TO meq	mg/l	meq	% OF TOTAL
Ca	0.0499	44	2.20	43
Mg	0.0822	24	1.97	39
Na	0.0435	20	0.87	
K	0.0256	2.8	0.07	18
			5.11	100
ANIONS				
Cl	0.0282	12	0.34	
NO3	0.0161	0.8	0.01	6
HCO3	0.0164	215	3.53	
CO3	0.0333	0	0.00	55
SO4	0.0208	120	2.50	39
			6.37	100

WELL: W7-D

CATIONS	CONVERSION mg/l TO meq	mg/l	meq	% OF TOTAL
Ca	0.0499	27	1.35	47
Mg	0.0822	13.5	1.11	39
Na	0.0435	8	0.35	
K	0.0256	1.9	0.05	14
			2.85	100
ANIONS				
Cl	0.0282	8	0.23	
NO3	0.0161	0.7	0.01	7
HCO3	0.0164	170	2.79	
CO3	0.0333	0	0.00	88
SO4	0.0208	7	0.15	5
			3.17	100

WELL: W8

CATIONS	CONVERSION mg/l TO meq	mg/l	meq	% OF TOTAL
Ca	0.0499	61	3.04	52
Mg	0.0822	26.5	2.18	37
Na	0.0435	13	0.57	
K	0.0256	2.8	0.07	11
			5.86	100
ANIONS				
Cl	0.0282	12	0.34	
NO3	0.0161	0.8	0.01	6
HCO3	0.0164	190	3.12	
CO3	0.0333	0	0.00	50
SO4	0.0208	130	2.70	44
			6.17	100

WELL: W9

CATIONS	CONVERSION mg/l TO meq	mg/l	meq	% OF TOTAL
Ca	0.0499	45	2.25	42
Mg	0.0822	22	1.81	33
Na	0.0435	29	1.26	
K	0.0256	3.6	0.09	25
			5.41	100
ANIONS				
Cl	0.0282	26	0.73	
NO3	0.0161	3.5	0.06	16
HCO3	0.0164	236	3.87	
CO3	0.0333	0	0.00	76
SO4	0.0208	20	0.42	8
			5.08	100

WELL: EPA1

CATIONS	CONVERSION mg/l TO meq	mg/l	meq	% OF TOTAL
Ca	0.0499	110	5.49	29
Mg	0.0822	46.5	3.82	20
Na	0.0435	218	9.48	
K	0.0256	8.5	0.22	51
			19.01	100
ANIONS				
Cl	0.0282	69	1.95	
NO3	0.0161	17.8	0.29	13
HCO3	0.0164	742	12.17	
CO3	0.0333	0	0.00	73
SO4	0.0208	110	2.29	14
			16.69	100

WELL: EPA2

CATIONS	CONVERSION mg/l TO meq	mg/l	meq	% OF TOTAL
Ca	0.0499	140	6.99	29
Mg	0.0822	68.5	5.63	23
Na	0.0435	266	11.57	
K	0.0256	9.9	0.25	48
			24.44	100
ANIONS				
Cl	0.0282	90	2.54	
NO3	0.0161	13	0.21	12
HCO3	0.0164	878	14.40	
CO3	0.0333	0	0.00	63
SO4	0.0208	280	5.82	25
			22.97	100

WELL: EPA4

CATIONS	CONVERSION mg/l TO meq	mg/l	meq	% OF TOTAL
Ca	0.0499	5.7	0.28	10
Mg	0.0822	22.5	1.85	67
Na	0.0435	13	0.57	
K	0.0256	2.9	0.07	23
			2.77	100
ANIONS				
Cl	0.0282	16	0.45	
NO3	0.0161	0.9	0.01	8
HCO3	0.0164	310	5.08	
CO3	0.0333	0	0.00	86
SO4	0.0208	17	0.35	6
			5.90	100

WELL: MW2S-D

CATIONS	CONVERSION mg/l TO meq	mg/l	meq	% OF TOTAL
Ca	0.0499	93.8	4.68	25
Mg	0.0822	53.9	4.43	24
Na	0.0435	207	9.00	
K	0.0256	10.5	0.27	50
			18.38	100
ANIONS				
Cl	0.0282	103	2.90	
NO3	0.0161	0.2	0.00	25
HCO3	0.0164	320	5.25	
CO3	0.0333	0	0.00	45
SO4	0.0208	169	3.52	30
			11.67	100

WELL: MW3

CATIONS	CONVERSION mg/l TO meq	mg/l	meq	% OF TOTAL
Ca	0.0499	85.1	4.25	38
Mg	0.0822	48.7	4.00	35
Na	0.0435	66.8	2.91	
K	0.0256	5.4	0.14	27
			11.29	100
ANIONS				
Cl	0.0282	8.9	0.25	
NO3	0.0161	0	0.00	10
HCO3	0.0164	48	0.79	
CO3	0.0333	32	1.07	73
SO4	0.0208	21	0.44	17
			2.54	100

WELL: MW6

CATIONS	CONVERSION mg/l TO meq	mg/l	meq	% OF TOTAL
Ca	0.0499	105	5.24	46
Mg	0.0822	40.4	3.32	29
Na	0.0435	59.7	2.60	
K	0.0256	4.6	0.12	24
			11.28	100
ANIONS				
Cl	0.0282	18	0.51	
NO3	0.0161	1	0.02	7
HCO3	0.0164	184	3.02	
CO3	0.0333	0	0.00	40
SO4	0.0208	196	4.08	54
			7.62	100

WELL: MW7

CATIONS	CONVERSION mg/l TO meq	mg/l	meq	% OF TOTAL
Ca	0.0499	108	5.39	38
Mg	0.0822	48.4	3.98	28
Na	0.0435	109	4.74	
K	0.0256	7	0.18	34
			14.29	100
ANIONS				
Cl	0.0282	142	4.00	
NO3	0.0161	25	0.40	40
HCO3	0.0164	251	4.12	
CO3	0.0333	0	0.00	37
SO4	0.0208	126	2.62	24
			11.14	100

WELL: MW4-D

CATIONS	CONVERSION mg/l TO meq	mg/l	meq	% OF TOTAL
Ca	0.0499	61.3	3.06	49
Mg	0.0822	25.7	2.11	34
Na	0.0435	21.4	0.93	
K	0.0256	4.4	0.11	17
			6.21	100
ANIONS				
Cl	0.0282	1.8	0.05	
NO3	0.0161	0.1	0.00	2
HCO3	0.0164	133	2.18	
CO3	0.0333	0	0.00	74
SO4	0.0208	34	0.71	24
			2.94	100

WELL: MW5

CATIONS	CONVERSION mg/l TO meq	mg/l	meq	% OF TOTAL
Ca	0.0499	80.3	4.01	19
Mg	0.0822	46.6	3.83	18
Na	0.0435	293	12.75	
K	0.0256	6	0.15	62
			20.74	100
ANIONS				
Cl	0.0282	101	2.85	
NO3	0.0161	0	0.00	21
HCO3	0.0164	413	6.77	
CO3	0.0333	5.1	0.17	50
SO4	0.0208	195	4.06	29
			13.85	100

WELL: MW8

CATIONS	CONVERSION mg/l TO meq	mg/l	meq	% OF TOTAL
Ca	0.0499	83.3	4.16	41
Mg	0.0822	41.2	3.39	33
Na	0.0435	58	2.52	
K	0.0256	5.2	0.13	26
			10.20	100
ANIONS				
Cl	0.0282	28	0.79	
NO3	0.0161	2.4	0.04	14
HCO3	0.0164	234	3.84	
CO3	0.0333	0	0.00	66
SO4	0.0208	54	1.12	19
			5.79	100

WELL: MW9

CATIONS	CONVERSION mg/l TO meq	mg/l	meq	% OF TOTAL
Ca	0.0499	57.2	2.85	43
Mg	0.0822	30.2	2.48	37
Na	0.0435	29.4	1.28	
K	0.0256	2.9	0.07	20
			6.69	100
ANIONS				
Cl	0.0282	14	0.39	
NO3	0.0161	2.8	0.05	11
HCO3	0.0164	143	2.35	
CO3	0.0333	0	0.00	59
SO4	0.0208	57	1.19	30
			3.97	100

Appendix G
WATER LEVELS IN MONITORING WELLS

GROUNDWATER ELEVATIONS

Well No.	Well Location X	Well Location Y	Present Well Elevation	5/27/86	7/9/86	8/11/86	8/22/86	9/23/86	10/21/86	11/14/86	12/22/86
W1S	9540.00	6750.00	294.18	250.36	249.99	250.08	250.11	250.22	250.23	250.34	250.21
W1D	9545.00	6750.00	294.04	250.45	249.90	250.13	250.10	250.12	250.36	250.38	250.20
W2S	9230.00	6710.00	296.75	249.83	249.42	249.60	249.58	249.64	249.74	249.66	249.45
W2D	9235.00	6710.00	296.71	249.82	249.46	249.54	249.52	249.57	249.75	249.58	249.46
W3S	8890.00	6730.00	296.68	249.19	248.51	248.72	248.66	248.97	248.87	248.76	248.60
W3D	8895.00	6730.00	296.68	249.05	248.49	248.74	248.68	248.77	248.85	248.76	248.58
W4	9300.00	6810.00	291.00	249.42	249.33	247.07	249.48	249.52	249.64	249.69	249.43
W5	9440.00	6860.00	291.04	249.74	249.49	249.54	249.59	249.64	249.79	249.83	249.65
W6	8830.00	6840.00	289.58	248.53	248.24	NA	248.32	248.42	248.53	248.53	248.29
W7	9100.00	6830.00	290.08	249.23	248.65	NA	248.85	248.90	249.02	249.06	248.87
W8	8500.00	6890.00	289.73	247.84	247.30	247.70	247.76	247.83	247.99	247.90	247.68
W9	8830.00	6560.00	289.96	249.12	248.85	NA	249.00	249.21	249.22	249.05	248.86
EPA1	9560.00	7150.00	290.64	249.45	249.08	249.15	249.17	249.17	249.33	249.48	249.26
EPA2	9760.00	6580.00	291.52	251.15	250.96	251.01	251.07	251.00	251.21	251.30	251.17
EPA4	9430.00	6590.00	290.78	250.55	250.17	NA	NA	250.42	250.53	250.34	250.10
PWB	10210.00	6420.00	292.50	NA	NA	NA	NA	NA	NA	NA	NA
PWD	9190.00	7440.00	289.73	NA	NA	NA	NA	NA	NA	NA	NA
PWNS	8610.00	7730.00	289.80	NA	NA	NA	NA	NA	NA	NA	NA
PWCF	8350.00	7840.00	290.79	NA	NA	NA	NA	NA	NA	NA	NA
PWQ	8570.00	8360.00	290.47	NA	NA	NA	NA	NA	NA	NA	NA
PWO	7700.00	8400.00	287.86	NA	NA	NA	NA	NA	NA	NA	NA
PWP	7470.00	8370.00	287.85	NA	NA	NA	NA	NA	NA	NA	NA
PWNN	7800.00	7650.00	288.18	NA	NA	NA	NA	NA	NA	NA	NA
PWV	7690.00	8060.00	288.88	NA	NA	NA	NA	NA	NA	NA	NA
MW1S	9870.00	6410.00	289.27	NA	NA	NA	NA	NA	NA	NA	NA
MW1D	9870.00	6380.00	289.74	NA	NA	NA	NA	NA	NA	NA	NA
MW2S	9940.00	6740.00	295.64	NA	NA	NA	NA	NA	NA	NA	NA
MW2D	9450.00	6740.00	296.94	NA	NA	NA	NA	NA	NA	NA	NA
MW3	9080.00	6720.00	296.67	NA	NA	NA	NA	NA	NA	NA	NA
MW4	8650.00	6760.00	295.97	NA	NA	NA	NA	NA	NA	NA	NA
MW5	9400.00	6860.00	290.91	NA	NA	NA	NA	NA	NA	NA	NA
MW6	8770.00	6860.00	289.84	NA	NA	NA	NA	NA	NA	NA	NA
MW7	9150.00	7250.00	291.08	NA	NA	NA	NA	NA	NA	NA	NA
MW8	8790.00	7270.00	290.72	NA	NA	NA	NA	NA	NA	NA	NA
MW9	8260.00	7340.00	289.61	NA	NA	NA	NA	NA	NA	NA	NA

GROUNDWATER ELEVATIONS
(Continued)

Well No.	Well Location X	Well Location Y	Present Well Elevation	1/19/87	2/17/87	4/10/87	4/28/87	5/21/87	6/30/87	8/17/87	9/15/87	10/26/87	1/14/88	12/28/87	2/18/88	3/3/88	4/2/88
W1S	9540.00	6750.00	294.18	250.40	250.38	250.56	250.47	250.41	250.10	249.95	249.01	248.61	248.54	248.46	248.41	248.44	248.70
W1D	9545.00	6750.00	294.04	250.37	250.32	250.56	250.47	250.37	250.06	249.91	248.99	248.58	248.50	248.46	248.39	248.44	248.70
W2S	9230.00	6710.00	296.75	249.60	249.63	249.93	249.76	249.73	249.54	249.24	248.27	247.79	247.81	247.77	247.73	248.02	248.10
W2D	9235.00	6710.00	296.71	249.61	249.58	249.92	249.74	249.68	249.48	249.19	248.19	247.81	247.78	247.76	247.71	248.00	248.08
W3S	8890.00	6730.00	296.68	248.76	248.76	249.06	248.86	248.81	248.62	248.32	247.23	246.95	246.97	246.92	246.88	247.47	247.16
W3D	8895.00	6730.00	296.68	248.73	248.75	249.02	248.86	248.83	248.57	248.32	247.19	246.88	247.45	246.92	246.89	247.48	247.15
W4	9300.00	6810.00	291.00	249.59	249.68	249.90	249.71	249.68	NA	249.28	248.08	247.87	247.75	247.76	247.73	247.87	248.00
W5	9440.00	6860.00	291.04	249.78	249.82	250.05	249.90	249.82	249.58	249.43	248.43	247.95	247.90	247.94	247.88	247.92	248.14
W6	8830.00	6840.00	289.58	248.48	248.49	248.74	248.53	248.53	248.33	248.07	247.22	246.72	246.68	246.67	246.65	246.95	246.80
W7	9100.00	6830.00	290.08	249.06	249.05	249.25	249.13	249.12	248.83	249.63	247.60	247.25	247.16	247.17	247.13	247.40	247.40
W8	8500.00	6890.00	289.73	247.88	247.90	248.11	247.88	247.68	247.55	247.32	246.11	245.93	245.92	245.97	245.92	246.04	245.98
W9	8830.00	6560.00	289.96	249.05	249.03	249.24	248.99	249.07	248.83	248.54	247.49	247.14	247.10	247.13	247.10	248.09	247.47
EPA1	9560.00	7150.00	290.64	249.41	249.47	NA	249.64	249.45	249.23	249.09	248.10	247.62	247.52	247.58	247.55	247.49	247.69
EPA2	9760.00	6580.00	291.52	251.25	251.23	251.52	251.32	251.23	251.00	250.90	250.09	249.53	249.35	249.40	249.29	249.22	249.51
EPA4	9430.00	6590.00	290.78	250.22	250.22	250.49	250.27	250.38	250.39	249.95	248.92	248.38	248.31	248.34	248.28	248.63	248.90
PWB	10210.00	6420.00	292.50	NA	NA	NA	NA	252.36	252.39	NA	NA	NA	NA	NA	250.60	250.38	250.90
PWD	9190.00	7440.00	289.73	NA	NA	NA	NA	248.28	NA	NA	NA	NA	NA	NA	246.60	246.46	246.51
PWNS	8610.00	7730.00	289.80	NA	NA	NA	NA	246.63	246.20	NA	244.84	244.62	NA	NA	244.73	244.58	244.59
PWCF	8350.00	7840.00	290.79	NA	NA	NA	NA	245.81	245.63	NA	244.21	244.08	NA	NA	244.29	244.09	243.79
PWQ	8570.00	8360.00	290.47	NA	NA	NA	NA	245.22	244.99	NA	243.58	243.46	NA	NA	243.72	243.47	243.31
PWO	7700.00	8400.00	287.86	NA	NA	NA	NA	243.63	243.40	NA	241.69	241.91	NA	NA	242.23	241.96	239.10
PWP	7470.00	8370.00	287.85	NA	NA	NA	NA	243.21	242.92	NA	NA	NA	NA	NA	241.55	241.38	233.68
PWNN	7800.00	7650.00	288.18	NA	NA	NA	NA	245.15	244.91	NA	243.37	243.30	NA	NA	243.66	243.41	242.82
PWV	7690.00	8060.00	288.88	NA	NA	NA	NA	244.05	243.84	NA	242.11	242.32	NA	NA	242.66	242.41	240.83
MW1S	9870.00	6410.00	289.27	NA	NA	NA	NA	NA	NA	NA	NA	NA	249.97	250.03	249.93	249.81	250.17
MW1D	9870.00	6380.00	289.74	NA	NA	NA	NA	NA	NA	NA	NA	NA	249.89	249.91	249.84	249.70	250.02
MW2S	9940.00	6740.00	295.64	NA	NA	NA	NA	NA	NA	NA	NA	NA	248.43	248.47	248.36	248.43	248.72
MW2D	9450.00	6740.00	296.94	NA	NA	NA	NA	NA	NA	NA	NA	NA	248.34	248.37	248.26	248.24	248.44
MW3	9080.00	6720.00	296.67	NA	NA	NA	NA	NA	NA	NA	NA	NA	247.54	247.49	247.45	247.89	247.79
MW4	8650.00	6760.00	295.97	NA	NA	NA	NA	NA	NA	NA	NA	NA	246.37	246.42	246.37	246.77	246.69
MW5	9400.00	6860.00	290.91	NA	NA	NA	NA	NA	NA	NA	NA	NA	247.83	247.26	247.82	247.86	248.18
MW6	8770.00	6860.00	289.84	NA	NA	NA	NA	NA	NA	NA	NA	NA	246.77	246.69	246.64	246.97	246.84
MW7	9150.00	7250.00	291.08	NA	NA	NA	NA	NA	NA	NA	NA	NA	246.65	246.70	246.68	246.65	246.73
MW8	8790.00	7270.00	290.72	NA	NA	NA	NA	NA	NA	NA	NA	NA	245.94	245.98	245.95	245.91	245.93
MW9	8260.00	7340.00	289.61	NA	NA	NA	NA	NA	NA	NA	NA	NA	244.92	244.89	244.89	244.80	244.74

RD/R103/d.2

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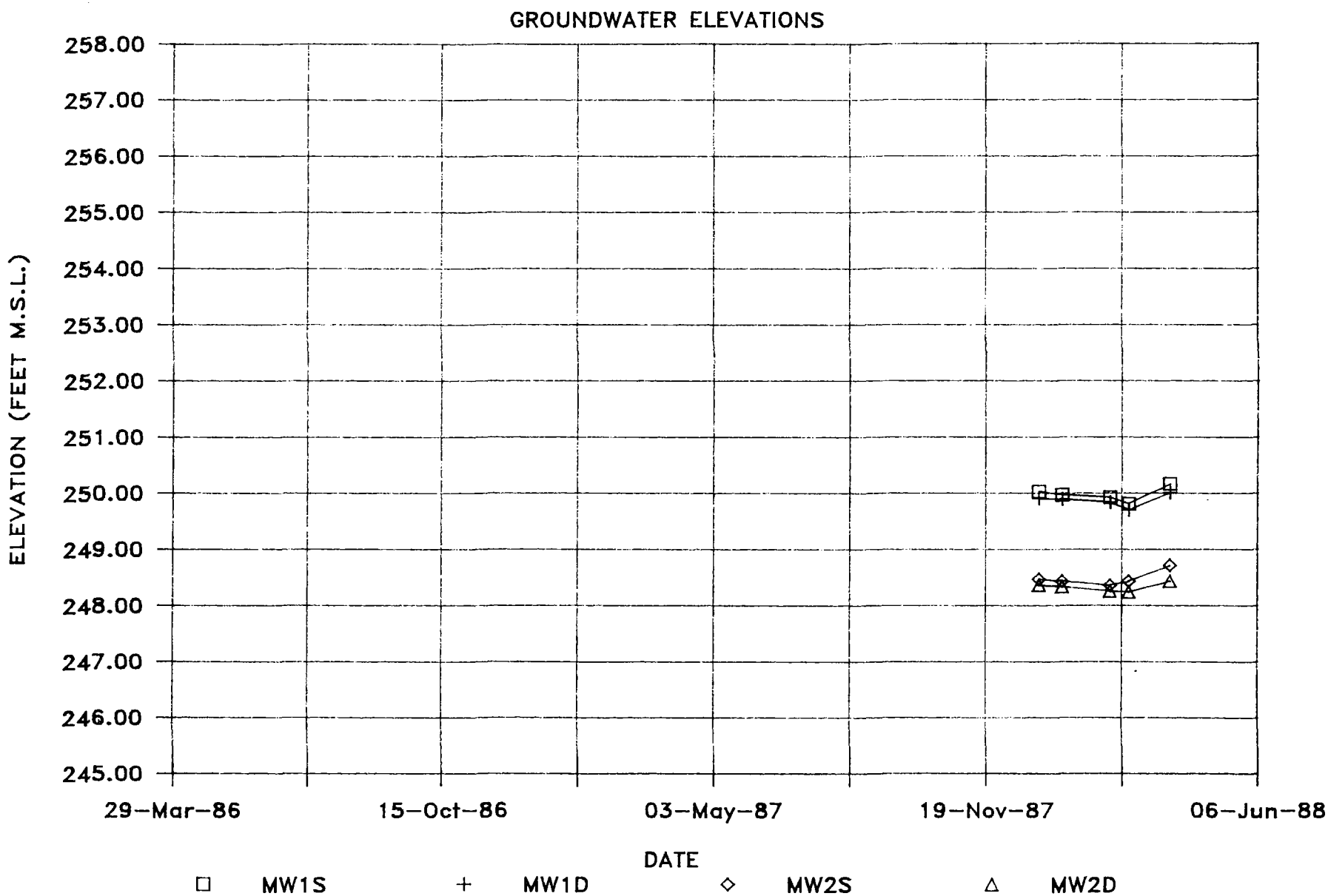
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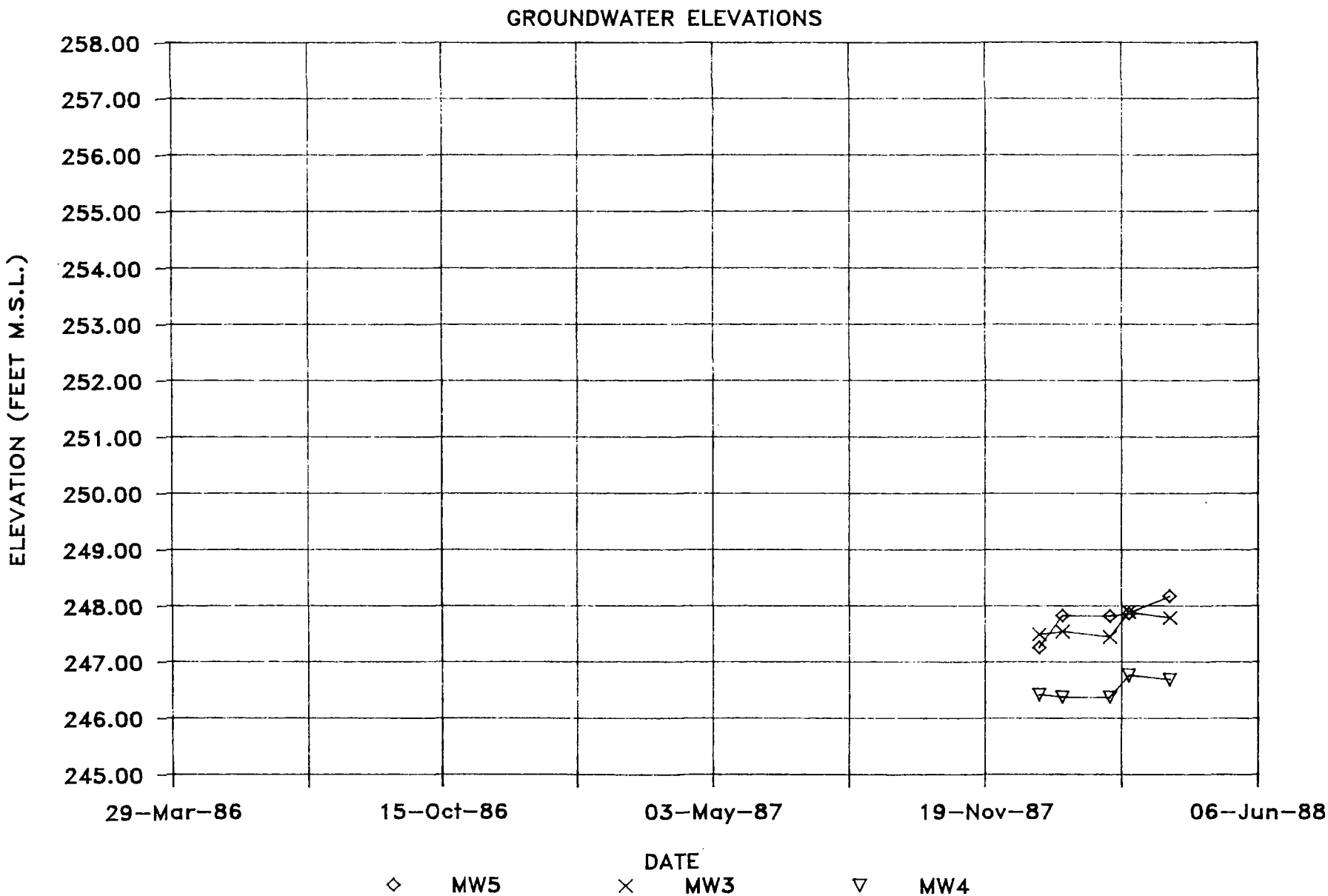
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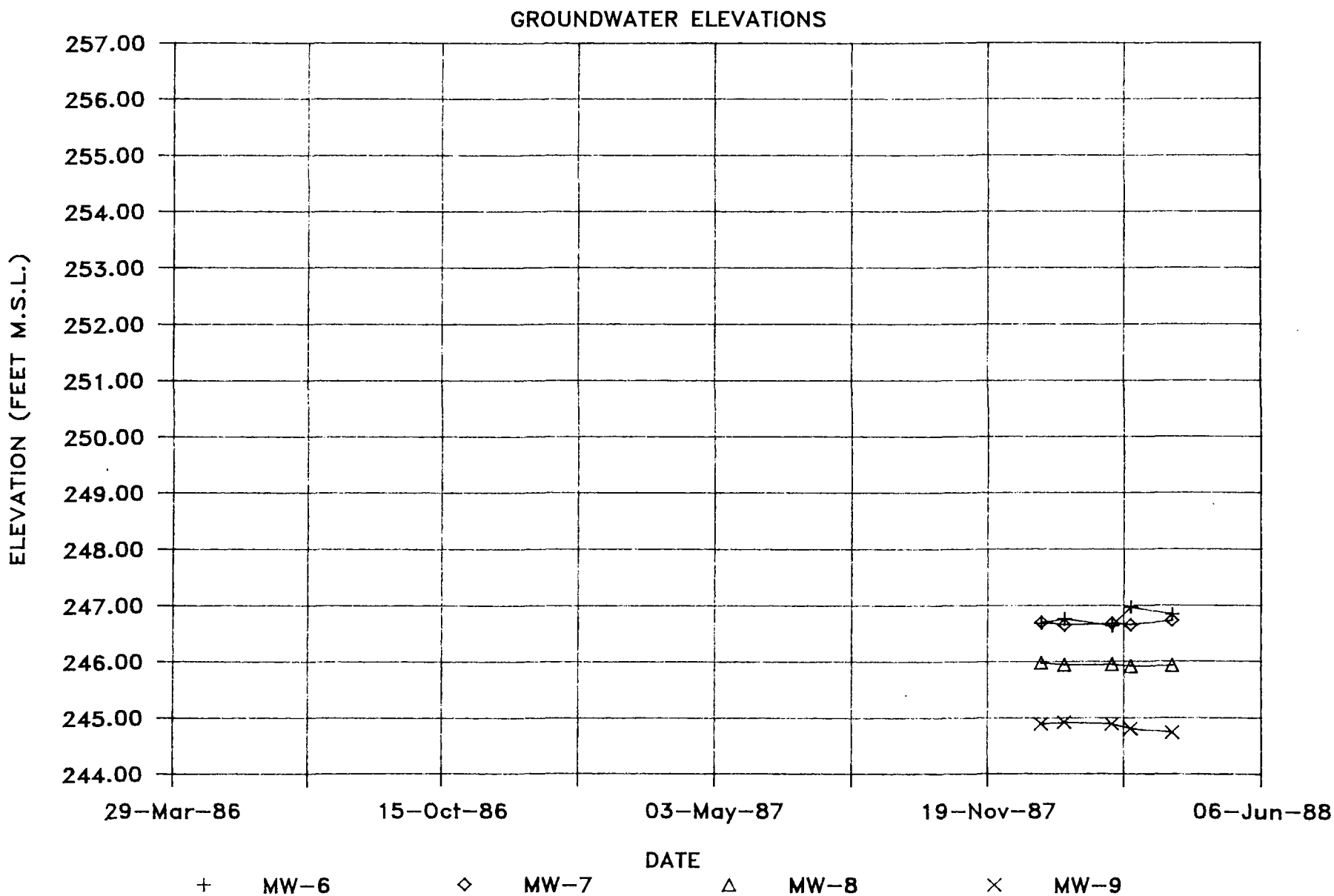
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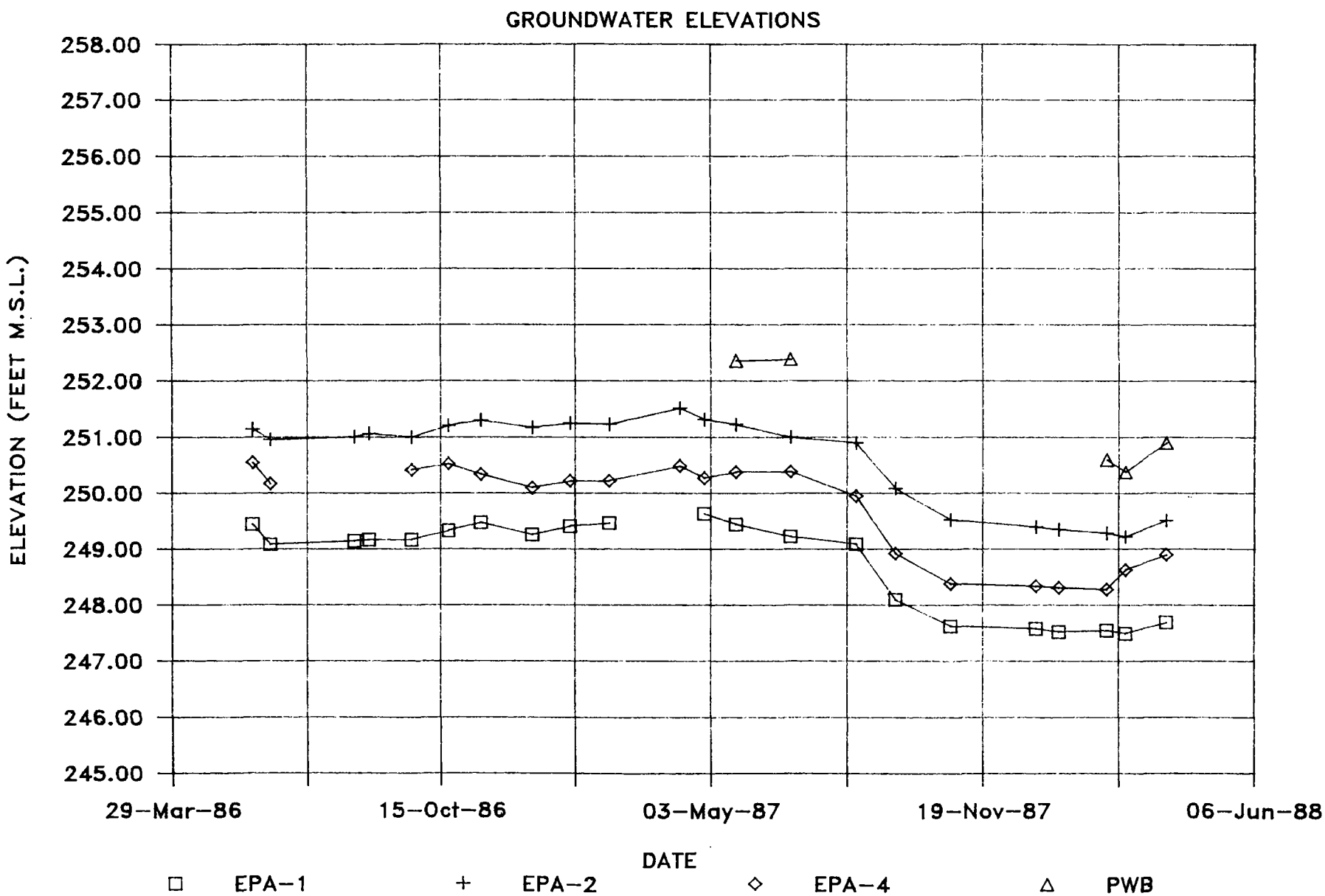
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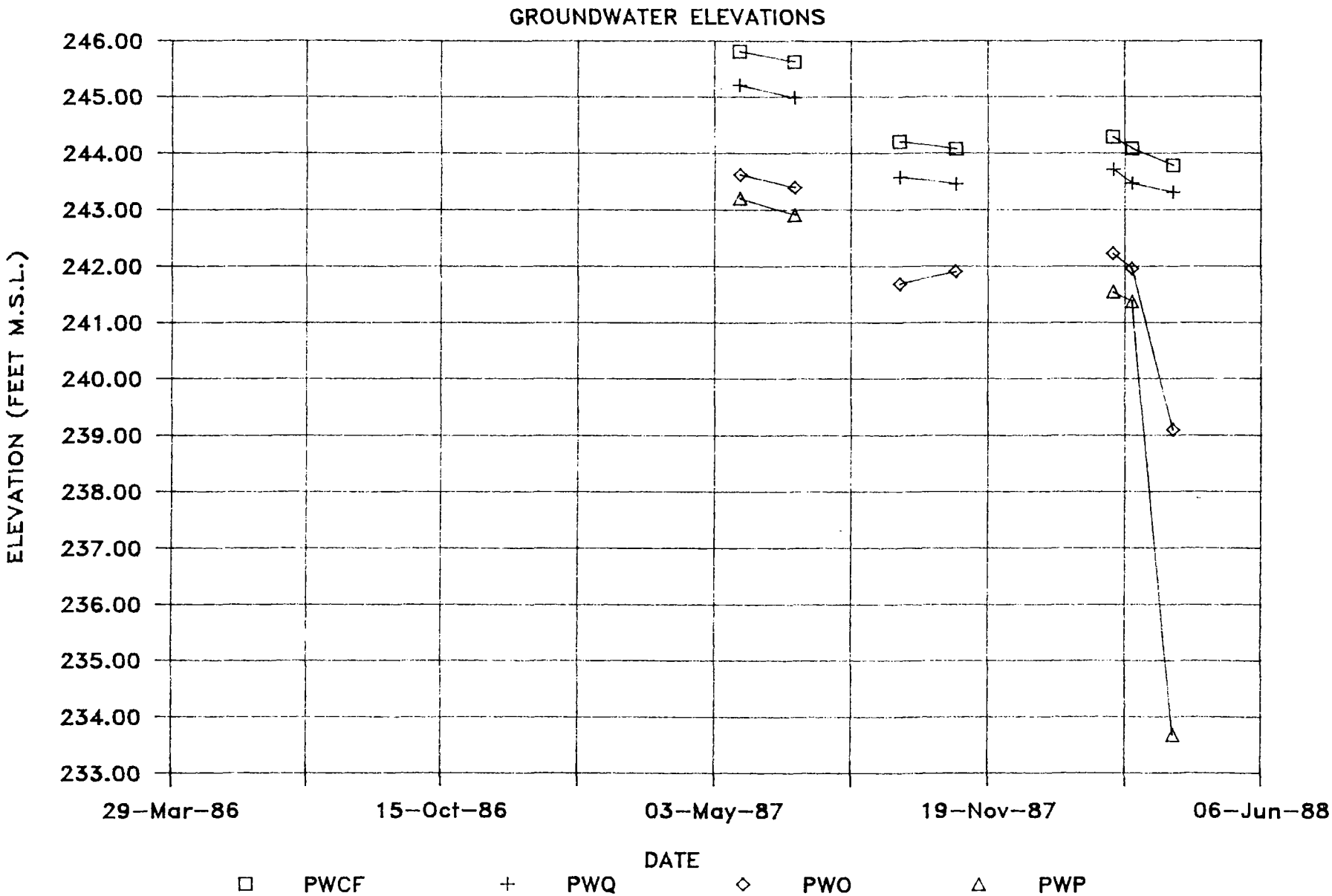
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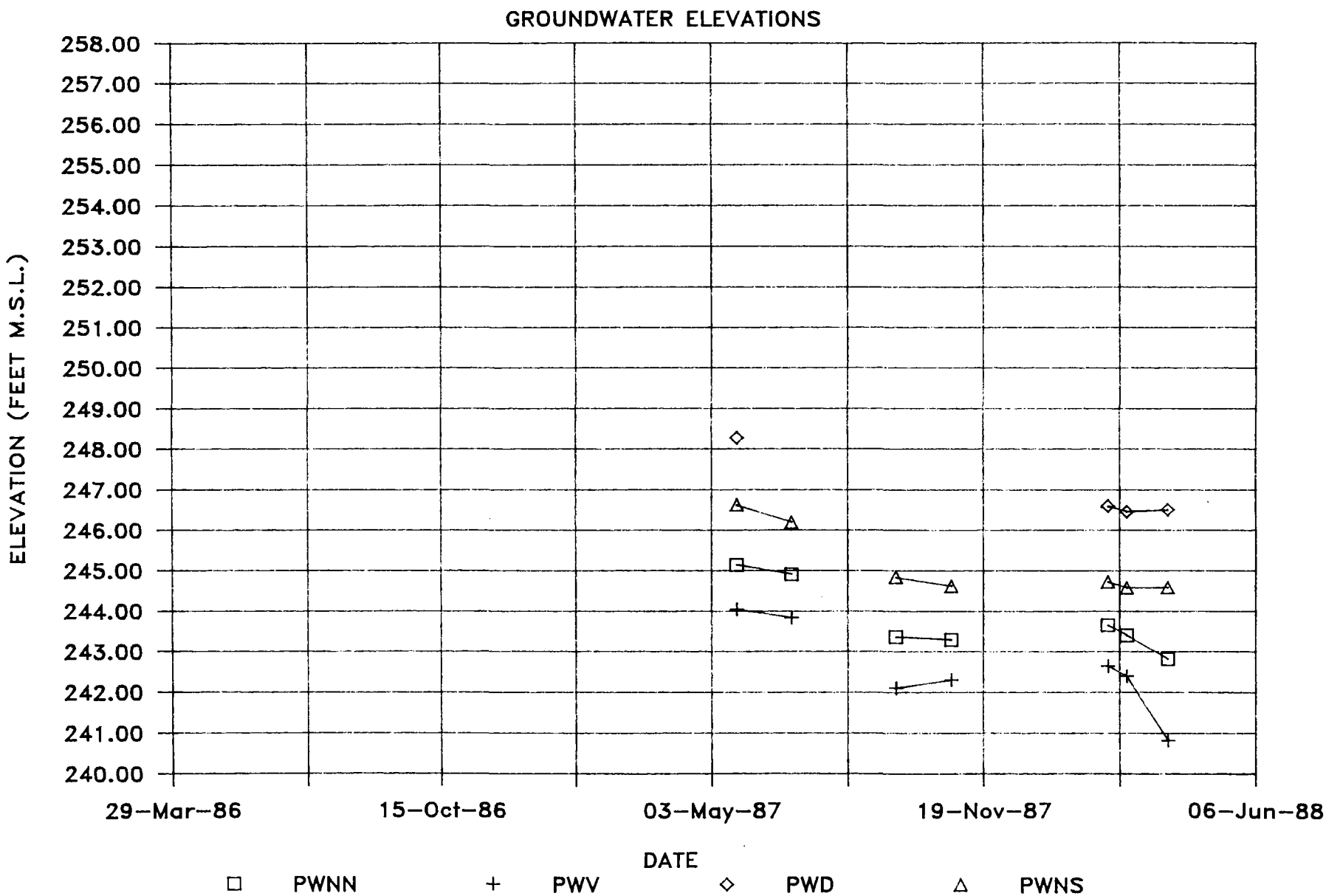
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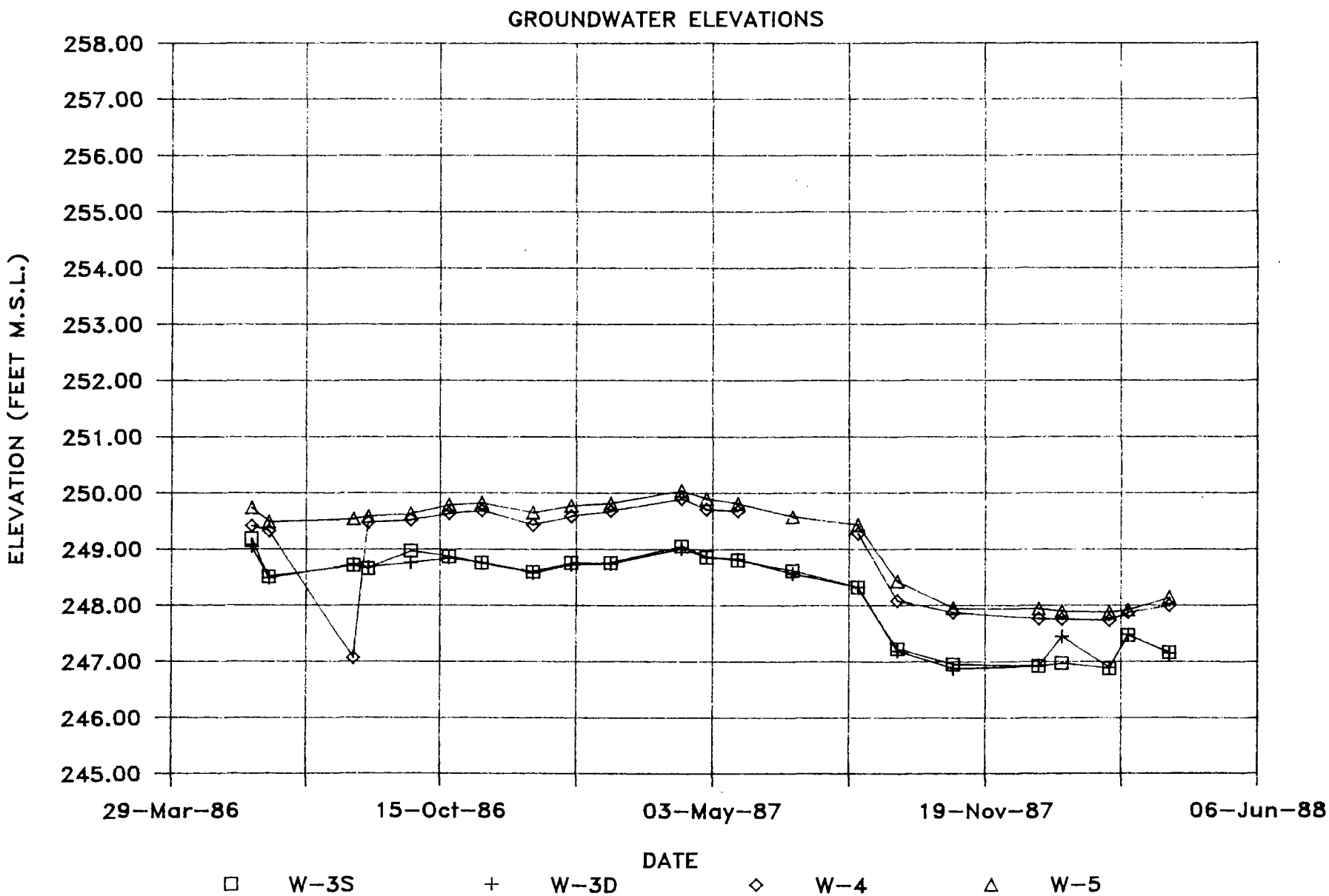
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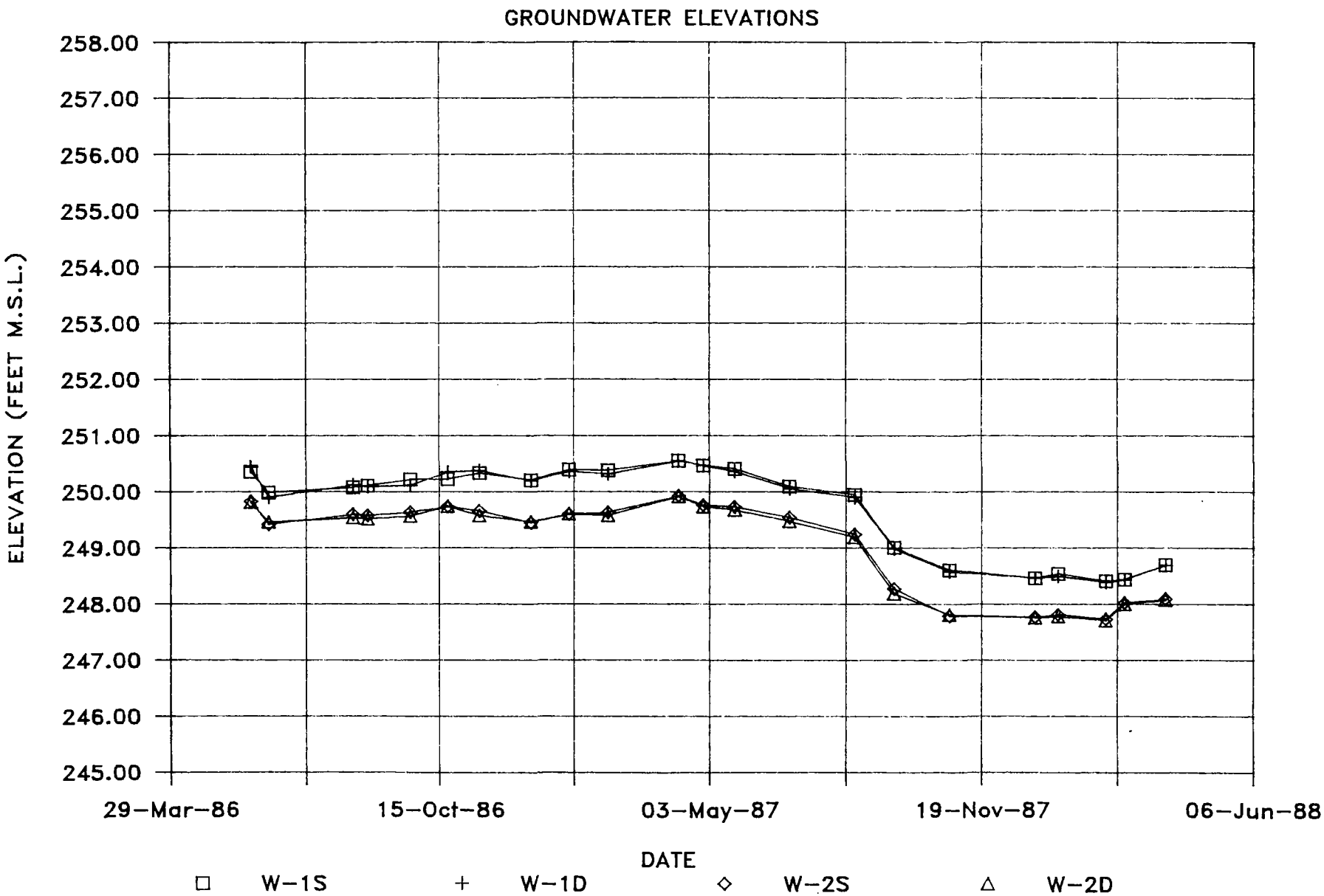
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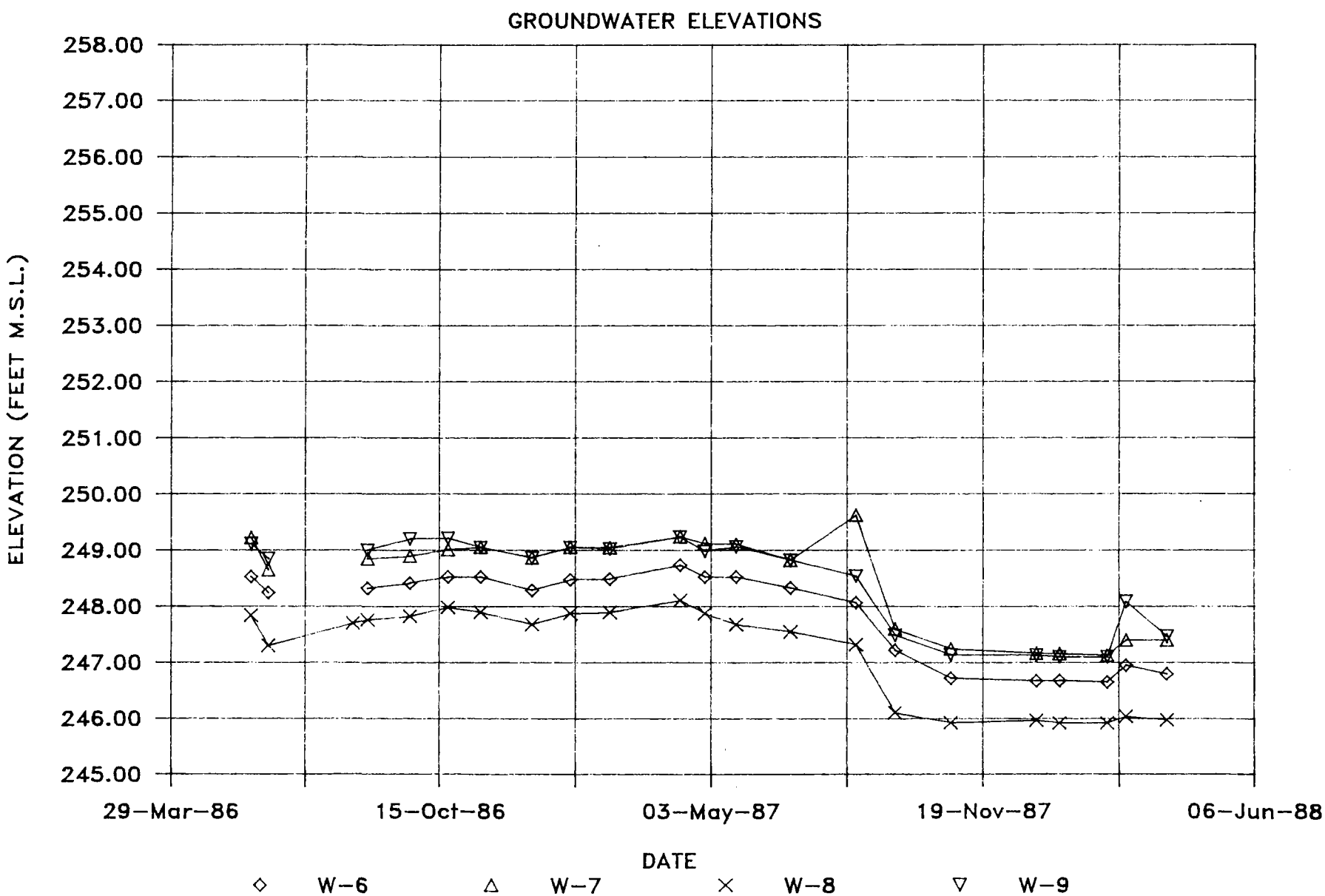
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Appendix H
GROUNDWATER USE SURVEY

GROUNDWATER USE/WELL SURVEY
PURITY OIL SALES
FRESNO, CALIFORNIA

		Well Information						Pump Information					
Map Symbol	Org. HLA ID	Name and Address	Depth (feet)	Diameter (inches)	Construction	Reported Depth to Water (feet)	Well Log	Type & Make	Setting (feet)	HP	Servicer	Water Use	Other
1	F	DiSalvo Trucking 2076 E. Muscat Ave. 209/268-7657	Unknown	Unknown	Unknown	Unknown	Unknown	Sub	Unknown	1.5	Kleinham & Souza	Domestic Industry	Signed access form.
2	H	Lehmann Family Trst 3460 S. Cedar Ave. 209/233-6964	120 - 140	8	Unknown	46	Unknown	Sub Berkeley	84	1.5	Gleim-Crown	Domestic Industry	Signed access form.
3	G	Richard Peters Fms. 2044 E. Muscat Ave. 209/442-4484	130	8	Open Bottom	Unknown	Y	Sub	Unknown	Unknown	Gleim-Crown	Domestic Industry	Signed access form.
4		H. M. Largent, Inc. 3252 S. Cedar 209/233-2168	180	8	Open Bottom	65	Unknown	Sub	85	1.0	Gleim-Crown	Domestic Industry	Signed access form.
5	I	Carbonic Sales 3299 S. Cedar 209/233-2168	Unknown	8	Unknown	Unknown	Unknown	Sub Sta-Rite	Unknown	3.0	Barney Huntington	Domestic Industry	Signed access form.
6	K	TSE Brakes 3183 S. Parkway Dr. 209/485-8810	Unknown	8	Unknown	Unknown	Unknown	Sub	Unknown	1.0	Johnson Brothers Tezak	Domestic Industry	Signed access form.
7	T	Truck Parts, Inc. 3180 S. Parkway Dr. 209/485-8810	156	6	105' if csq.	49	Y	Sub	Unknown	Unknown	REDA	Domestic Industry	Signed access form. Drilled 18 years ago.
8	U	Willig Trucking 3128 S. Parkway Dr. 209/268-0781	160	6	136' of csq. Open Bottom	50	Y	Sub	Unknown	Unknown	Johnson Brothers	Domestic Industry	Unknown; pending.
9		Kuckenbecker Tractor Co. 3040 S. Parkway Dr. 209/485-9090	250 - 285	10	216' of blank 34' of screen	48	Y	Sub Jacuzzi	112	5	Gleim-Crown	Domestic Industry	Signed access form.
10	J	Saf-T-Cab, Inc. 3241 S. Parkway Dr. 209/268-5541	143	6	Open Bottom	42	Y	Sub McDonald	84	1.5	Gleim-Crown	Domestic	Signed access form.

GROUNDWATER USE/WELL SURVEY
(continued)

		Well Information						Pump Information					
Map Symbol	Org. HLA ID	Name and Address	Depth (feet)	Diameter (inches)	Construction	Reported Depth to Water (feet)	Well Log	Type & Make	Setting (feet)	HP	Servicer	Water Use	Other
11		Smith Tank Lines 2999 S. Orange Ave. 209/266-0116	150-200	Unknown	Unknown	40	Unknown	Turbine US Elect.	Unknown	5	Gleim-Crown	Industry Motor	Signed access form.
12		Pacific Dist., Inc. 1314 E. North Ave. 209/233-1153	Unknown	Unknown	Unknown	Unknown	Unknown	Sub	Unknown	Unknown	Unknown	Domestic Industry	Signed access form.
13	Z	Pepsi-Cola of San Joaquin 1150 E. North Ave. 209/485-5050	280	12	268' of csg. Open Bottom	54	Y	Sub Turbine	120	25/15	Gleim-Crown	Industry	Signed access form.
14		Forklift Wholesale 1078 North Ave. 209/	120	6	Open Bottom	45	Y	Sub	Unknown	Unknown	Unknown	Unknown	Unknown
15		Melvin Coelho 1099 North Ave. 209/266-3406	98	8	Open Bottom	44	Y	Sub	70	3	Gleim-Crown	Domestic	Signed access form.
16		1069 North Ave. 209/	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown
17		1055 North Ave. 209/	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown
18		Morrie's Muffler 1038 North Ave. 209/233-0111	Unknown	Unknown	Unknown	Unknown	Unknown	Sub	Unknown	Unknown	Gleim-Crown	Domestic	Signed access form.
19		Alfred O'Neal 791 North Ave. 209/486-5347	84	6	Unknown	52	Y	Sub Sta-Rite	63	1.0	Gleim-Crown	Domestic	Signed access form for domestic well only.
20	A	Harold Habib 2946 East Ave. 209/264-9852 (H)	225	8	Unknown	52	Y	Sub	94	3.0	Gleim-Crown	Domestic	Unknown

RDD/R47/021-2

GROUNDWATER USE/WELL SURVEY
(continued)

		Well Information						Pump Information					
Map Symbol	Org. HLA ID	Name and Address	Depth (feet)	Diameter (inches)	Construction	Reported Depth to Water (feet)	Well Log	Type & Make	Setting (feet)	HP	Servicer	Water Use	Other
20	B	Harold Habib 2946 East Ave. 209/264-9852	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Irrigation	Unknown
21		Mendes Trucking 2953 East Ave. 209/237-1405	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Harold Habib owner.
22		Lloyd Hooper 2898 S. East Ave. 209/	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown
23		Lummus Indust. Inc. 2956 S. Orange Ave. 209/268-4477	Unknown	Unknown	Unknown	Unknown	Unknown	Sub	Unknown	Unknown	Unknown	Domestic	Signed access form.
24	Y	Valley Detroit Diesel Allison 2935 S. Orange Ave. 209/486-6900	160 (130)	6 (8)	Screened 60' to 90'	42 (49)	Y	Sub Jacuzzi	Unknown	2.0	Schwartz & Sons	Domestic Industry	Signed access form. () reported on drill log
25		Century Wheel & Rim 2888 S. Orange 209/237-7467	Unknown	8	Unknown	Unknown	Unknown	Sub Franklin	Unknown	3.0	Gleim-Crown	Domestic	Signed access form.
26		Hardwoods Inc. 2822 S. Orange 209/266-3600	165	8	Open Bottom	68	Y	Unknown	Unknown	Unknown	Unknown	Domestic	Signed access form.
27		Ace Sprinkler Co. 2803 S. Orange 209/441-1235	110	8	Open Bottom	52	Y	Sub	Unknown	Unknown	Unknown	Domestic Industry	Unknown
28	CC	Groeniger & Co. 2812 S. Orange 209/442-3333	197	8	Screened 137' - 197' gravel pack	48	Y	Sub Franklin	126	7.5	Anderson Pump	Domestic Industry	Unknown
29		V of C Veterinary Diagnostic Lab 2789 S. Orange 209/266-9418	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Signed access form.

GROUNDWATER USE/WELL SURVEY
(continued)

		Well Information						Pump Information					
Map Symbol	Org. HLA ID	Name and Address	Depth (feet)	Diameter (inches)	Construction	Reported Depth to Water (feet)	Well Log	Type & Make	Setting (feet)	HP	Servicer	Water Use	Other
30		Bairos Recycling 2788 S. Orange 209/	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown.
31		Cossett Enterprises 2768 Railroad Ave. 209/268-4344	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Will not sign access form.
32		Caltrans 2796 Railroad 209/488-4180	225	8	184' Screened	53	Y	Sub Johnson	Unknown	3.0	Unknown	Domestic Industry	Signed access form.
33		Fleming Co., Inc. 2797 S. Orange 209/442-4700	246	Unknown	Unknown	Unknown	Unknown	Turbine	Unknown	Unknown	Unknown	Large Industry	Signed access form.
34		Northrup King 2850 S. Golden State Blvd. 209/237-4731	143	8	Open Bottom	47	Y	Sub Jacuzzi	84	5	Gleim-Crown	Industry	Signed access form.
35		KBK Oils, Inc. Golden St. Blvd. and Cedar Ave. 209/233-3144	Unknown	Unknown	Unknown	Unknown	Unknown	Sub Jacuzzi	Unknown	0.5	Gleim-Crown	Domestic	
36		Manna Pro Corp. 2962 S. Cedar 209/486-1810	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Three wells--signed access form.
37		Red-Top Farm Chem. S Hwy 99 & S Cedar 209/442-1220	125	Unknown	Unknown	Unknown	Y	Unknown	Unknown	Unknown	Unknown	Unknown	Signed access form.
38	L	Ritche Trucking Service 3251 S. Cedar 209/264-1885	120 - 140	Unknown	Unknown	Unknown	Unknown	Sub Sta-Rite	Unknown	1.0	Unknown	Domestic Industry	

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GROUNDWATER USE/WELL SURVEY
(continued)

		Well Information						Pump Information					
Map Symbol	Org. HLA ID	Name and Address	Depth (feet)	Diameter (inches)	Construction	Reported Depth to Water (feet)	Well Log	Type & Make	Setting (feet)	HP	Servicer	Water Use	Other
39		Gary Howard S.W. Corner Cedar/North Ave. 209/486-4310	150	16	Unknown	45 - 50	Y	Diesel Powered	120	30.0	Unknown	Irr.	
40	DD	City of Fresno 615 W. East Ave. 209/488-1412	450	20	Screen & gravel pack 150' - 140'	46	Y	Turbine DWT	190	275	City of Fresno	Municipal	Signed access form.
41		V/M Custom Boat Trailer Orange Avenue 209/486-0410	110	6	Open Bottom	45	Y	Sub	100+	Unknown	Gleim-Crown	Domestic	Signed access form.
A	A	Mr. Richert Coast Laboratories 3386 S. Maple Ave. (209)264-1655	80	6 to 8	Unknown	Unknown	N	Unknown	60	1	Self	Domestic 2 to 3 adults	
B	B	Leroy Hammond Vangas 3363 S. Golden State (209)252-8811	Unknown	Unknown	Unknown	Unknown	N	Unknown	Unknown	Unknown	Barney Huntington	50 adults - drinking, domestic	
C	C	Burkhardt Trailer 3183 S. Golden State Blvd.	Unknown	Unknown	Unknown	Unknown	N	Sub Sta-Rite	Unknown	1	Unknown	15 to 16 adults domestic, drinking, steam cleaning	
D	D	Donald Nelson Nelson Sign Service 3147 S. Golden State Blvd. (209)233-1543	Unknown	Unknown	Unknown	Unknown	N	Sub	80	3	Unknown	Washing trucks, domestic (no drinking)	

GROUNDWATER USE/WELL SURVEY
(continued)

Map Symbol	Org. HLA ID	Well Information: Name and Address	Depth (feet)	Diameter (inches)	Construction	Reported Depth to Water (feet)	Well Log	Pump Information: Type & Make	Setting (feet)	HP	Servicer	Water Use	Other
E	E	Jerry Goble Gobles Transport Refrigeration 3021 Golden State Blvd. (209)442-4291	170	6	Screen & gravel pack	Unknown	Y	Unknown	Unknown	Unknown	Tezak	Washing trucks (no drinking)	Owner--Gus Cossette 264-5911
M	M	Dale Reitz Overstreet General Tire 2099 E. North Ave. (209)237-7156	Unknown	Unknown	Unknown	Unknown	N	Pressure Gould	Surface	1	Barney Huntington 268-4751	13 adults - domestic, drinking, washing, sole source	Owner--John Stanfield 268-4344
N	N	Peters Truck Lines 3053 S. Golden State Frontage Road (209)445-0225	113	8	Open bottom	40		Sub	84 Fairbanks	3	Barney	Domestic, for drinking	Owner--John Huntington not used
O	O	Jim Kourafas Truck Dispatch Service 2055 North Ave. (209) 486-7920	110	8	Open end	40	Y	Unknown	Unknown	Unknown	Unknown	8 adults - domestic, drinking	
P	P	Peter Tapia Sierra Nevada Trailers 3014 S. Cedar (209)264-4234	148	8	Open bottom	58	Y	Unknown	Unknown	Unknown	Unknown	Not used fear of contamination	Won't sign hold harmless agreement
Q	Q	Ray Noble General Crane & Trucking 2147 E. North Ave. (209)266-8271	85	6	Unknown	46	N	Sub Berkeley	78	1-1/2	Gleim - Crown	Unknown	

GROUNDWATER USE/WELL SURVEY
(continued)

Map Symbol	Org. HLA ID	Well Information: Name and Address	Depth (feet)	Diameter (inches)	Construction	Reported Depth to Water (feet)	Well Log	Pump Information: Type & Make	Setting (feet)	HP	Servicer	Water Use	Other
R	R	Jack Witz Producers Cotton Oil Company 2907 S. Maple, (main office) (209)442-4400	318	10	Screen	42	Y	Peerless		20	Unknown	80 adults - drinking, seasonal	Won't sign hold harmless agreement
S	S	Kuckenbecker Tractor Co. 3100 S. Parkway (209)485-9090	131	6	Unknown	48	N	P Paco	88	2	Gleim - Crown	20 adults - domestic, drinking	Has been sampled
V	V	Tim Miller Master Fence Fittings 3050 S. Cedar (209)264-2144	160	6	Screen and gravel pack	45	N	S	105	2	Valley Well & Pump 264-9043	8 adults - drinking, domestic	Valley Steel Contractors would know driller
W	W	Don Van Vranken Beacon Cardlock Fuels 3767 So. Hwy 99 (at Central Ave)	108	8	Open bottom	42	N	S Pioneer	63	3	Rodgers Pump Co. 591-7128	Public - Truck shop & cafe, truck washing	Upgradient
X	X	Mrs. Ethyl Gordon Fresno Iron & Metal 3270 S. Golden State Blvd. (209)268-6279	Unknown	Unknown	Unknown	Unknown	N	Sub Unknown	Unknown	Unknown	Unknown	8 adults- domestic, drinking	Well about 30 years old
AA	AA	Fagundes 3314 S. Cherry (209)486-4004	96	8	Open bottom	45	Y	Sub Jacuzzi		3/4-1-1/2	Driller - Herb Schwartz	Domestic, drinking	Runs dairy south of Center School on Cherry

GROUNDWATER USE/WELL SURVEY
(continued)

		Well Information						Pump Information					
Map Symbol	Org. HLA ID	Name and Address	Depth (feet)	Diameter (inches)	Construction	Reported Depth to Water (feet)	Well Log	Type & Make	Setting (feet)	HP	Servicer	Water Use	Other
BB	BB	Fike 274 E. North Ave. Realtor - Scott Bryant (209)233-3550	125	6	Screen and gravel pack		Y	Sub Jacuzzi	105	1	Gleim - Crown	Domestic, drinking	Corner of Rose and North
EE	EE	Malaga County Water District Well 1 Winery Ave. between Frank & Harrison Streets	498	16	Screen and gravel pack	Unknown	Y	DWT	Unknown	75	Unknown	Municipal	
FF	FF	Malaga County Water District Well 4	500	Unknown	Unknown	Unknown	Y	Unknown	Unknown	Unknown	Unknown	Municipal	
GG	GG	Malaga County Water District Well 3 Central Ave. West of Willow	420	16	Screen and gravel pack	Unknown	Y	DWT Byron Jackson	Unknown	125	Unknown	Municipal	
HH	HH	Calwa County Water District Well 4 South side of Commerce, 1/4 mile East of Maple	214	16	Open bottom	Unknown	Y	Unknown	Unknown	Unknown	Unknown	Municipal	
II	II	Malaga County Water District Well 2 Central Ave. at 99	352	16	Screen and gravel pack	43	Y	Unknown	Unknown	75	Unknown	Municipal	Not in service
NN	NN	Atlas Freight 2095 E. North Avenue (209)264-9772	Unknown	Unknown	Unknown	Unknown	N	Sub	Unknown	Unknown	Unknown	Unknown	
CF	CF	KasCo Fab 3150 S. Golden State Blvd. (209)442-1018	Unknown	Unknown	Unknown	Unknown	N	Sub	Unknown	Unknown	Unknown	Domestic Industry	

Appendix I
AIR MONITORING

Appendix I
AIR MONITORING

QUALITY CONTROL PROGRAM

The onsite quality control program consisted of a system of procedures which assured that the data output from the onsite measurement systems met prescribed standards. The details of the QC program that are described below for the various measurement systems were extracted from the original Investigation Report.

AIR EMISSIONS MEASUREMENT

A primary objective of this program was to evaluate existing air quality at the Purity site as well as possible emissions due to investigative and/or remedial activities. Air quality sampling and analysis included site survey sampling, direct emissions measurements (surface and downhole), and downwind monitoring, using several sampling/analytical techniques.

Prior to initiation of any other onsite activities, a two-part survey of the surface was conducted. The initial survey qualitatively assessed emissions to identify areas of high emission rates. The second part of the survey quantitated emission rates and included collection of samples for speciation work.

For the initial survey, the survey design established a reference grid system. The grid points were surveyed using a randomized block design. A total of 10 blocks were used, and surveying within each block was performed randomly. A duplicate measurement was performed for each block and a control point was measured several times. Replicate and control point measurements provided an indication of sampling variability and temporal effects.

PORTABLE ANALYZERS

Portable total hydrocarbon (THC) and SO_2 analyzers were used for several types of onsite measurement activities, including the preliminary site survey, surface and downhole flux chamber measurements, and downwind monitoring. Similar QC procedures were used for these analyzers.

A multipoint calibration, including zero and at least five upscale concentrations, was performed at the beginning of the field investigation to establish linearity of the analyzer. Calibration points were generated by dynamic dilution of a high-concentration, certified standard mixture of

CH_4 or benzene in air for the THC analyzers and SO_2 in air for the SO_2 analyzers. Analyzer linearity was considered acceptable if the correlation coefficient for the multipoint curve was >0.995.

Each day prior to sampling, a zero/span (i.e., two-point) calibration was performed. Ultrahigh purity (UHP), hydrocarbon-free air was used as the zero point. The span point was generated by dilution of the high-level calibration standard, as for the multipoint calibration. Analyzer performance was considered acceptable if the measured concentration was within 15 percent of the dilution concentration.

Each day, after calibration of a given analyzer, the instrument was challenged with a standard gas mixture (methane, benzene, or SO_2, as appropriate) at a concentration corresponding to a mid-level value. The concentration measured by the analyzer for this QC standard was recorded. Analyzer performance was considered acceptable if the measured concentration was within 15 percent of the certified concentration. If this criterion was not met, the zero/span calibration was repeated. If the criterion still was not met, a multipoint calibration was performed.

At the conclusion of each day's testing, the QC standard gas mixture was reintroduced to the analyzer and the measured value recorded. The difference between the before-testing and after-testing values provided a measure of upscale drift. The zero gas was also analyzed upon completion of testing each day to provide a measure of zero drift.

ISOLATION FLUX CHAMBER

Isolation flux chambers were used to quantitate surface emissions after "hot spots" had been identified via the surface survey. Also, downhole chambers were used to quantitate emissions at various depths in the waste.

Several tests were performed to characterize new enclosures prior to use. Blank chambers were checked for contamination by placing the enclosure over a flat inert surface, exposing the enclosure to sunlight, and running a test using UHP sweep air and routine operating conditions.

Enclosure efficiency was checked prior to field use. The flux chambers were placed over a flat-surface Teflon (TFE) plug, which had an inlet port at the center of the plug for gases to be introduced. UHP sweep air was added concurrently through the enclosure sweep air inlet, and the emission rate of compounds entering the enclosure was determined using routine operating conditions. The measured emission rate was then compared to the true emission rate, and relative

recovery was calculated. The calculated relative recoveries were 43 percent for the surface flux chamber and 58 percent for the downhole flux chamber.

In addition to the enclosure characterization procedures described above, several QC checks were performed on a routine basis during use of the surface flux chamber. Sample blanks were analyzed once daily. Approximately 10 percent of the sampling points were sampled in duplicate. Two background samples were obtained from a location similar to the emitting sample sites, which had been determined to be free from contamination.

GAS METERING

The gas measurement device was calibrated against an NBS-traceable bubble meter.

TEMPERATURE SENSOR AND READOUT

Prior to field use, the temperature sensor and readout were calibrated against a mercury-in-glass thermometer meeting ASTM E-1 No. 63F specifications.

CANISTER SAMPLING AND ANALYSIS

Because emission samples collected using the canister sampling technique constitute the primary basis for both speciation and quantitation of air emissions, QC procedures associated with this sampling method were especially important to overall data quality. QC associated with sample collection is described below.

QC procedures associated associated with the sample collection aspect of this methodology focused on ensuring and documenting sample integrity and providing information, which was used to document sampling variability. These procedures included the following:

- A chain-of-custody form was an integral part of the data sheet associated with each canister sample.
- Each canister was cleaned and evacuated at Radian's Austin, Texas laboratory, and the absolute pressure was measured and recorded on the accompanying data sheet.
- The absolute pressure of each canister was checked in the field prior to sampling.

- The canister sampling system (exclusive of the canister) was thoroughly purged prior to sample collection.

- Canister pressures were checked and recorded after sample collection, and canister valves were closed and sealed with Swagelock plugs prior to shipment.

METEROLOGICAL MEASUREMENT

Prior to use onsite, all meterological equipment was thoroughly checked to ensure that each component was operable. Temperature, wind speed, and wind direction sensors were checked daily against reported meterological conditions.

LABORATORY QUALITY CONTROL PROGRAM RESULTS

QC procedures were an integral part of all the analytical methods. These QC procedures served two major functions. First, they were designed to provide a system of ongoing checks to ensure that the analytical data met prescribed standards. Second, results of the major QC checks provided a quantitative measure of the data quality.

Various QC procedures were used in support of the analytical program, tailored to the specific analytical methods employed. Grouped according to similarity in QC procedures, four analytical approaches were used:

- Onsite, real-time survey analyses using portable analyzers

- Offsite analysis of air samples collected in evacuated canisters

The major QC procedures used in evaluating data quality for the analytical approaches, along with corresponding QC data, are presented below.

QUALITY CONTROL FOR PORTABLE ANALYZERS

Five types of portable gas analyzers were used to provide semiquantitative total hydrocarbon (THC) and sulfur dioxide (SO_2) concentration data.

The instruments used were as follows:

- AID Model 580 THC Analyzer (3)
- HNU Model PI-101 THC Analyzer (1)
- Century System OVA-108 THC Analyzer (2)

- Ecolyzer Model 2000 SO_2 Analyzer (1)
- Interscan Model 1240 SO_2 Analyzer (1)

The instruments were challenged with a zero- and mid-level gas at the beginning and end of each day of use. In addition, a calibration gas was introduced each day to verify that the instrument response factor was within 15 percent of the response factor observed during initial multipoint calibration checks. If the response factor was not within 15 percent, the multipoint calibration check was repeated.

The most useful information for assessing instrument performance is the daily drift check data obtained by comparing the instrument's relative response to the mid-level and zero gas from the beginning and the end of each day. This information is summarized by analyzer in Table I-1. The mid-level gas drift (average and standard deviation) was within ±15 percent in all cases, and the zero draft was within ±10 percent for each analyzer. This performance is considered acceptable.

QUALITY CONTROL FOR AIR CANISTER ANALYSES

Canister samples were analyzed in Radian's Austin laboratory using a Varian 3700 gas chromatograph (GC) equipped with a fused silica capillary column and dual (PID/FID) detectors.

QC procedures for these analyses included:

- Initial multipoint calibration/linearity check
- Daily single-point response factor (RF) checks
- Daily retention time checks using a 38-component standard
- Control sample analyses
- System blanks

A multipoint calibration/linearity check was performed prior to sample analysis using three volumes of a propane/hexane standard plus system blank (ultra-high-purity air). Results of the multipoints indicated excellent linearity over the working range, with correlation coefficients for both compounds exceeding the acceptance criterion of 0.995. In addition to establishing response linearity, the linearity check data also were used to calculate average response factors for propane and hexane.

Single-point response factors for propane and hexane were determined each day that samples were analyzed and were used for quantitation of all sample components. Daily response factors were compared to the latest average response

Table I-1

SUMMARY OF DRIFT CHECK DATA FOR PORTABLE THC AND SO_2 ANALYZERS

Instrument	ID No.	% Upscale Drift	Range (%)	Std Dev[a]	No. of Tests	Average % Zero Drift	Range (%)	Std. Dev[a]	No. of Tests
AID	103304	-2.9	-22.5 -5.45	±5.8	28	-0.10	-2.2 -0.6	±0.51	27
AID	207263	-0.20	-0.95 - 0.9	±0.72	5	0.11	-0.2 - 0.5	±0.25	5
AID	307263	-0.45	-3.0 - 1.2	±1.21	8	0.14	-0.05 - 0.5	±0.20	7
HNV	1	-2.3	-17 -6.7	±5.8	27	0.26	-3.0 -3.5	±1.63	27
OVA	C5788	-3.6	-35 -5.0	±8.5	21	-0.021	-0.5 -0.14	±0.127	20
OVA	C5799	-0.43	-0.9-(-)0.05	±0.43	3	0.0067	-0.01 -0.02	±0.0153	3
Ecolyzer	A1674	-4.2	-32 -5.0	±7.1	28	1.2	-3.0 -4.0	±1.7	28
Interscan	--	-7.2	-21 -16	±6.3	38	2.2	-30 -24.8	±5.5	21

[a]STD DEV = Standard Deviation

RD/R75/012

linearity factor and were required to agree within ±30 percent before sample analyses proceeded. The ±30 percent acceptance criterion was met for both species on all 6 days that canister samples were analyzed. For propane, the mean difference between daily RFs and the multipoint RF was 2.1 percent, with a standard deviation of 9.4 percent. For hexane, the mean difference was 6.6 percent, with a standard deviation of 10.3 percent.

A 36-component hydrocarbon standard was used to evaluate any shifts in compound retention times or changes in column separation efficiency. The components of this standard are listed below. Sample components were identified based on preestablished retention times relative to toluene and isobutane, using a computerized auto-identification scheme.

Ethane	n-Hexane
Ethylene	Methylcyclopentane
Acetylene	Benzene
Propane	Isoheptane
Isobutane	3-Methylhexane
1-Butene	2,2,4-Trimethylpentane
n-Butene	n-Heptane
trans-2-Butene	Methylcyclohexane
cis-2-Butene	Toluene
Isopentane	Ethylbenzene
1-Pentane	m-Xylene
2-Methyl-1-Butene	p-Xylene
n-Pentane	o-Xylene
trans-2-Pentane	n-Nonane
cis-2-Pentene	n-Propylbenzene
Cyclopentene	p-Ethyltoluene
Isohexane	1,3,5-Trimethylbenzene
3-Methylpentane	1,2,4-Trimethylbenzene

Periodically, following daily instrument calibration and prior to analysis of samples, a QC check sample was analyzed. This control sample was a 12-component hydrocarbon mixture. Analyses of this mixture were required to meet both qualitative and quantitative acceptance criteria. First, as a check of the computer auto-identification routine, correct identification of 90 percent of the compounds was required.

Second, a 30-percent control limit was used for quantitation of the control sample components. Again, 90 percent of the components were required to meet this criterion. Results of these analyses are given in Table I-2. All compounds were correctly identified each day. Only one quantitation (ethylbenzene on July 13, 1984) failed the 30 percent control limit.

Each day, prior to sample analyses, analytical system blank checks were performed to demonstrate acceptable blank levels.

Table I-2
CONTROL SAMPLE ANALYSES RESULTS

Compound	Mean Concentration (ppb)	Date and Percent Difference[a] from Mean				
		6/14/84	6/15/84	6/22/84	6/29/84	7/13/84
Ethane	30.69	18.3	0.4	-5.5	-1.9	-0.6
Propane	121.2	17.8	-1.0	-4.3	3.1	-2.1
1-Butene	53.57	20.8	-2.4	-11.7	6.2	3.8
n-Butane	62.59	17.6	-0.3	-1.3	-1.0	7.2
1-Hexene	81.01	1.1	0.9	-0.5	1.2	-3.5
n-Hexane	87.85	-1.2	-0.5	-12.8	-6.7	-6.2
Benzene	85.44	-14.8	NR	0.1	-2.4	-3.9
Toluene	101.4	-16.0	NR	1.4	-3.2	-4.7
n-Octane	112.4	-12.9	NR	2.1	1.9	25.2
Ethylbenzene	101.9	-14.0	NR	0.5	0.2	58.7
Propylbenzene	96.4	-11.1	NR	2.4	5.9	-0.6
n-Decane	103.9	8.3	NR	-5.0	22.3	25.3

[a]Percent difference = (concentration--mean) x 100/mean.

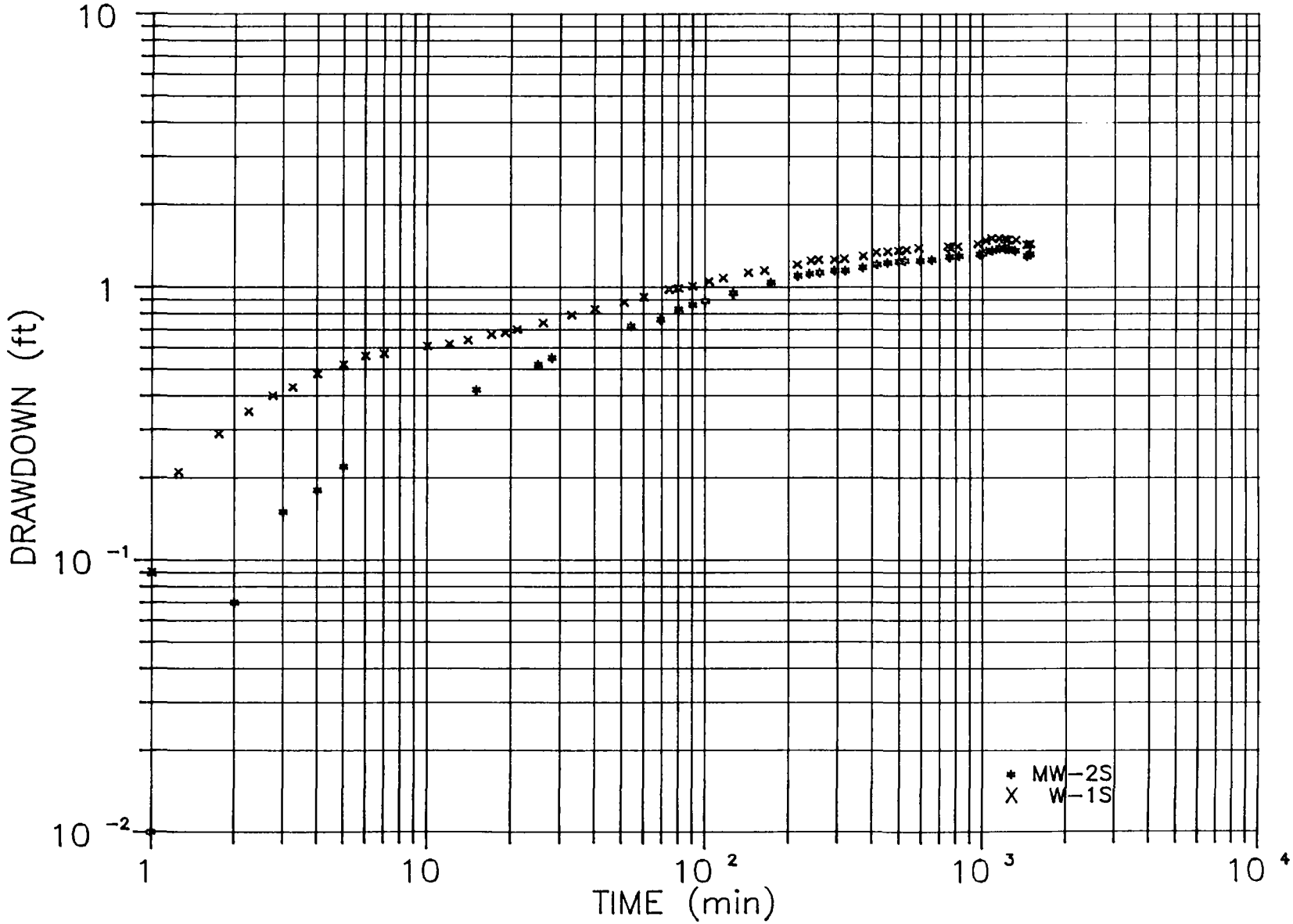
RD/R75/014

The blank checks comprised analysis of approximately 1 liter of UHP nitrogen. The acceptance criterion was an analytical blank value less than or equal to 20 parts per billion, volume of carbon (ppbv-C). This criterion was met each day except on July 15, and 16, 1984.

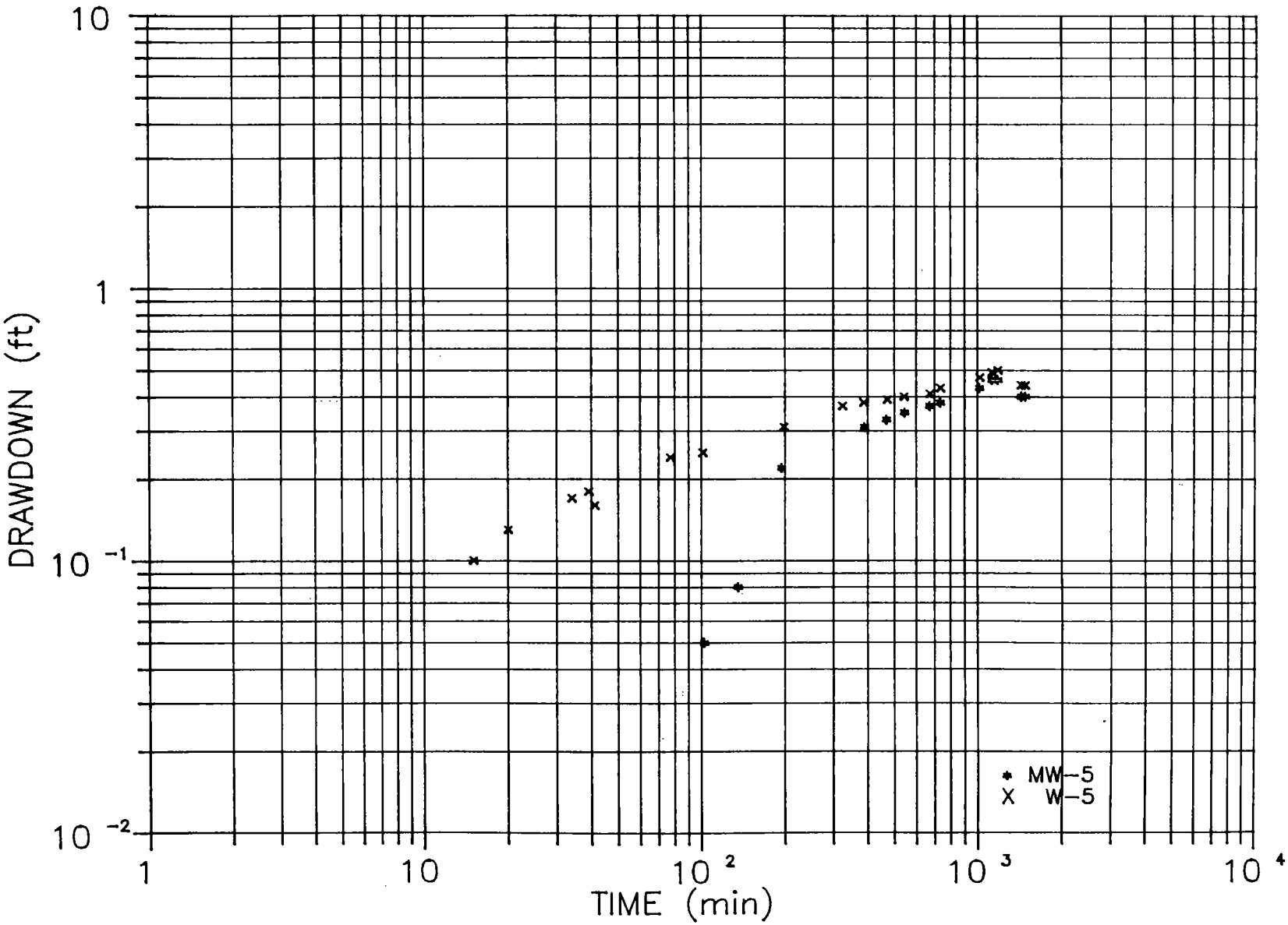
Appendix J
RESULTS OF HYDRAULIC CONDUCTIVITY TESTING

24-HOUR PUMP TEST DRAWDOWN AND RECOVERY PLOTS

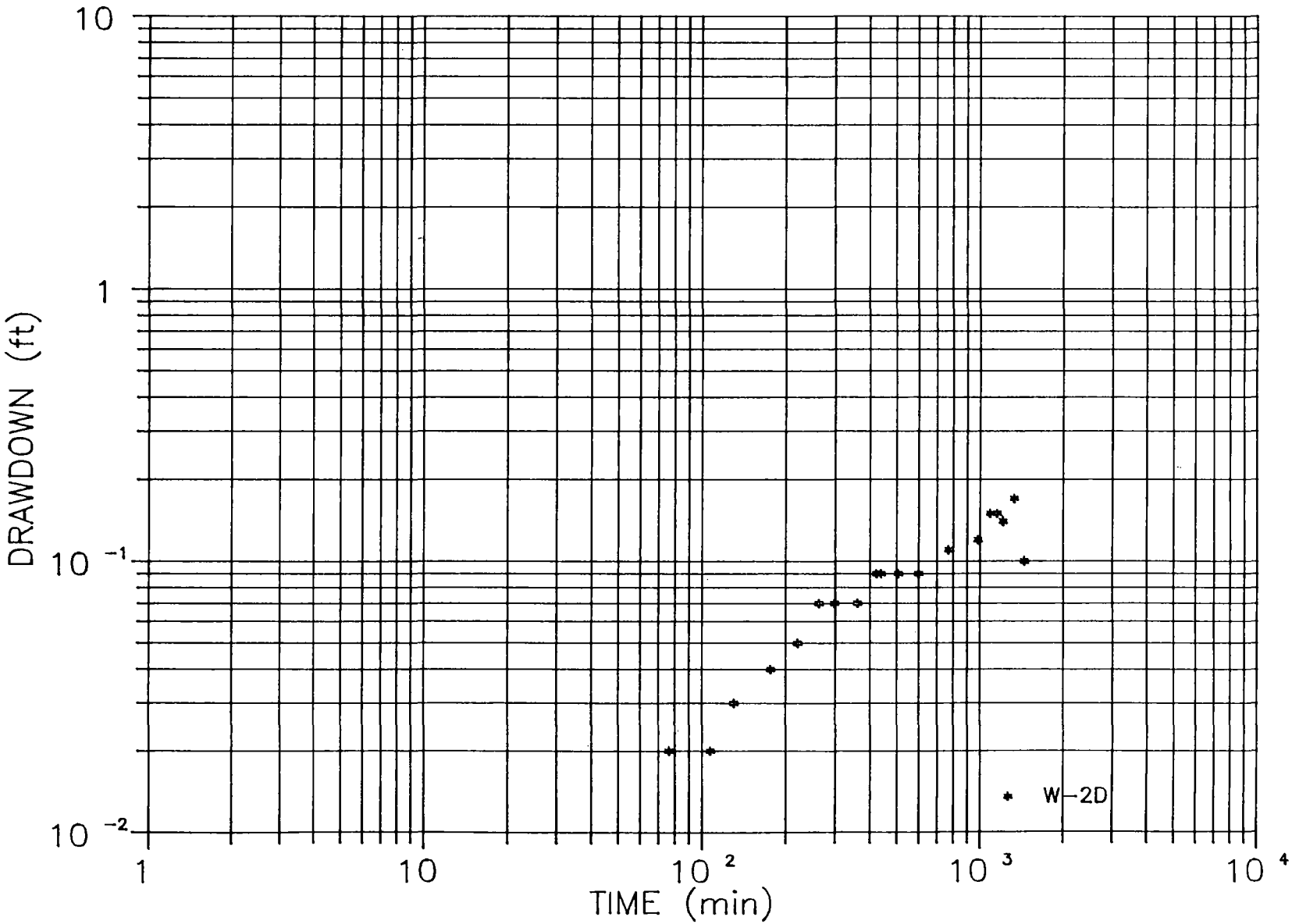
PURITY OIL SALES SITE
24-HOUR PUMPING TEST
DRAWDOWN DATA



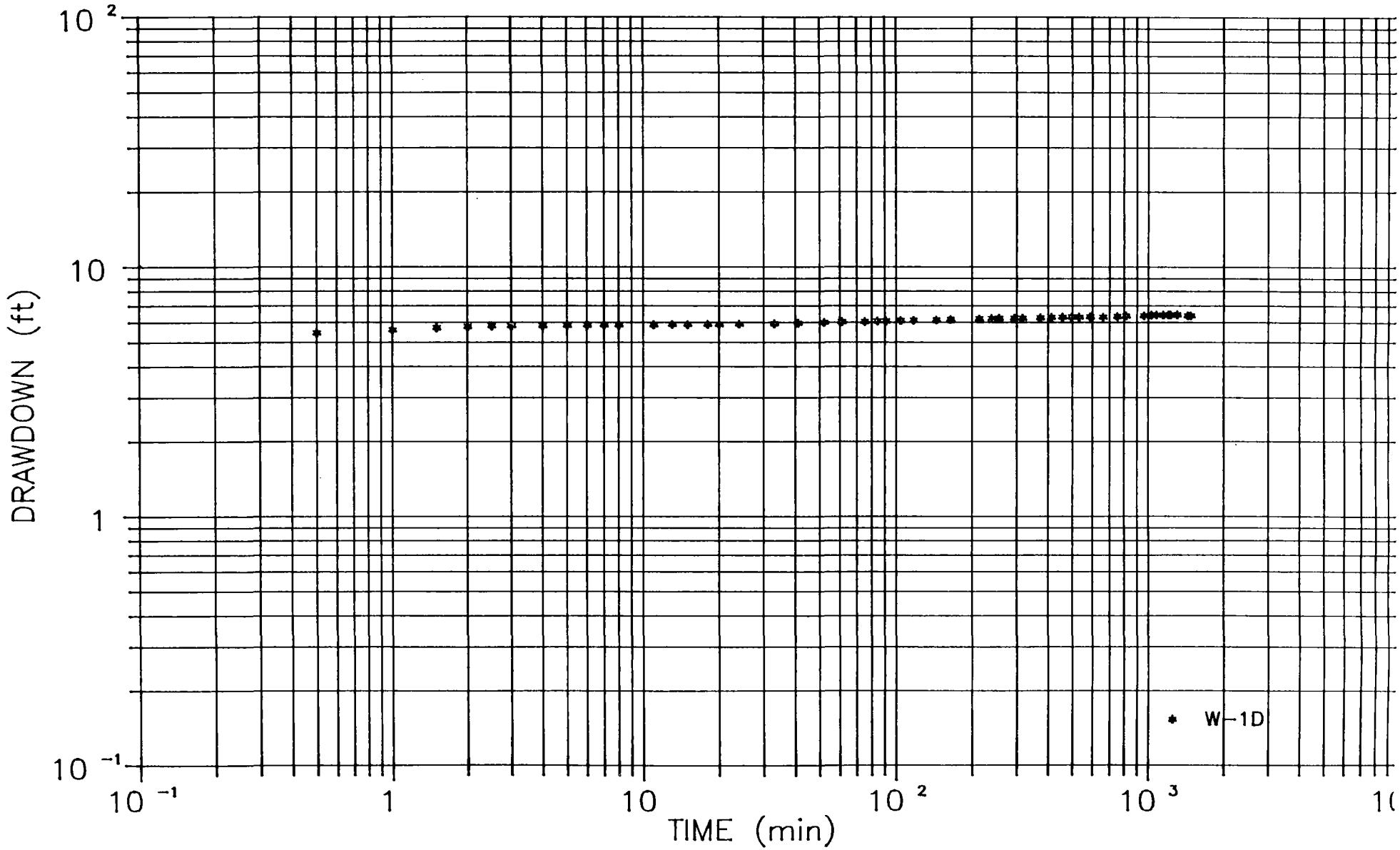
PURITY OIL SALES SITE
24-HOUR PUMPING TEST
DRAWDOWN DATA



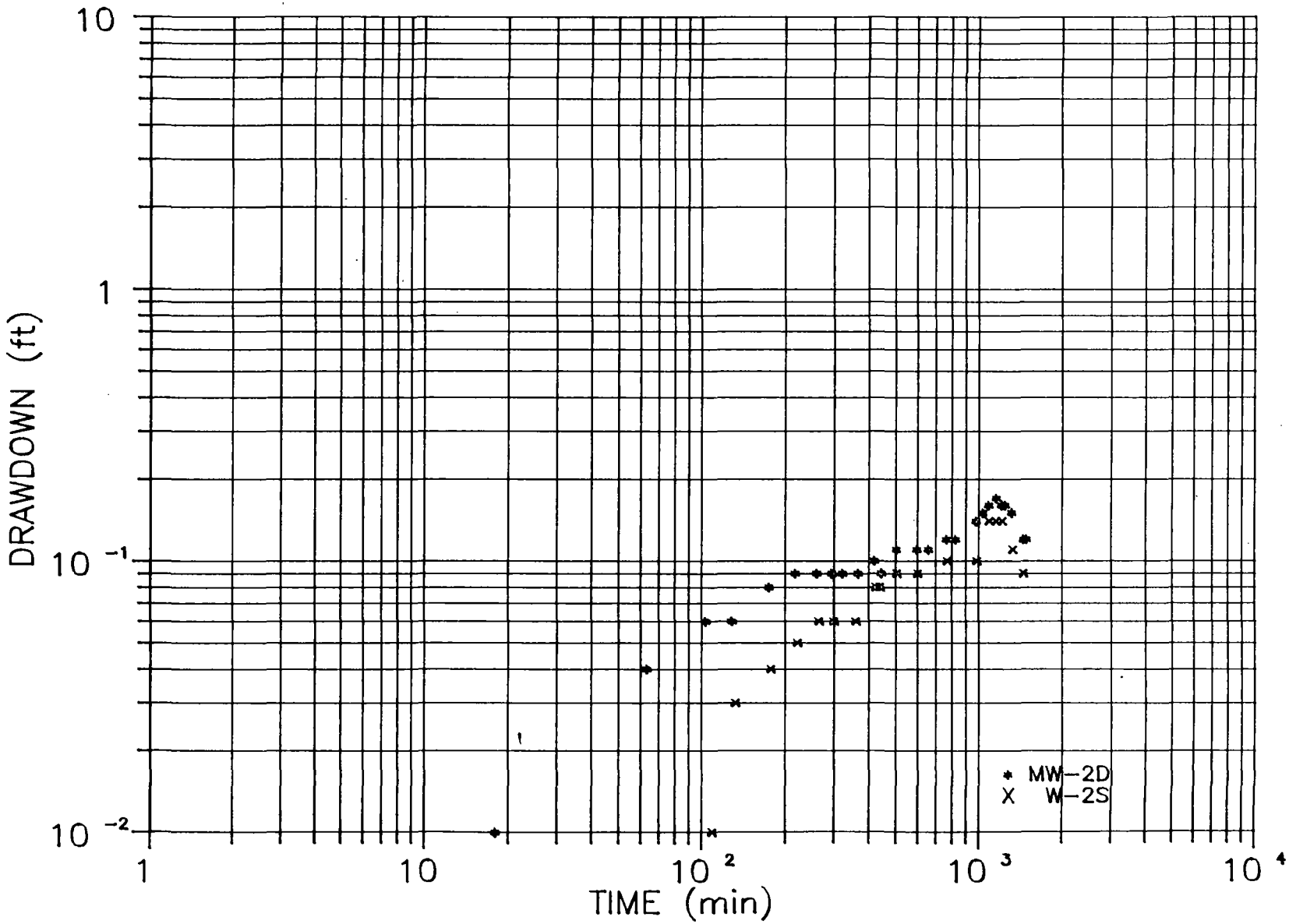
PURITY OIL SALES SITE
24-HOUR PUMPING TEST
DRAWDOWN DATA

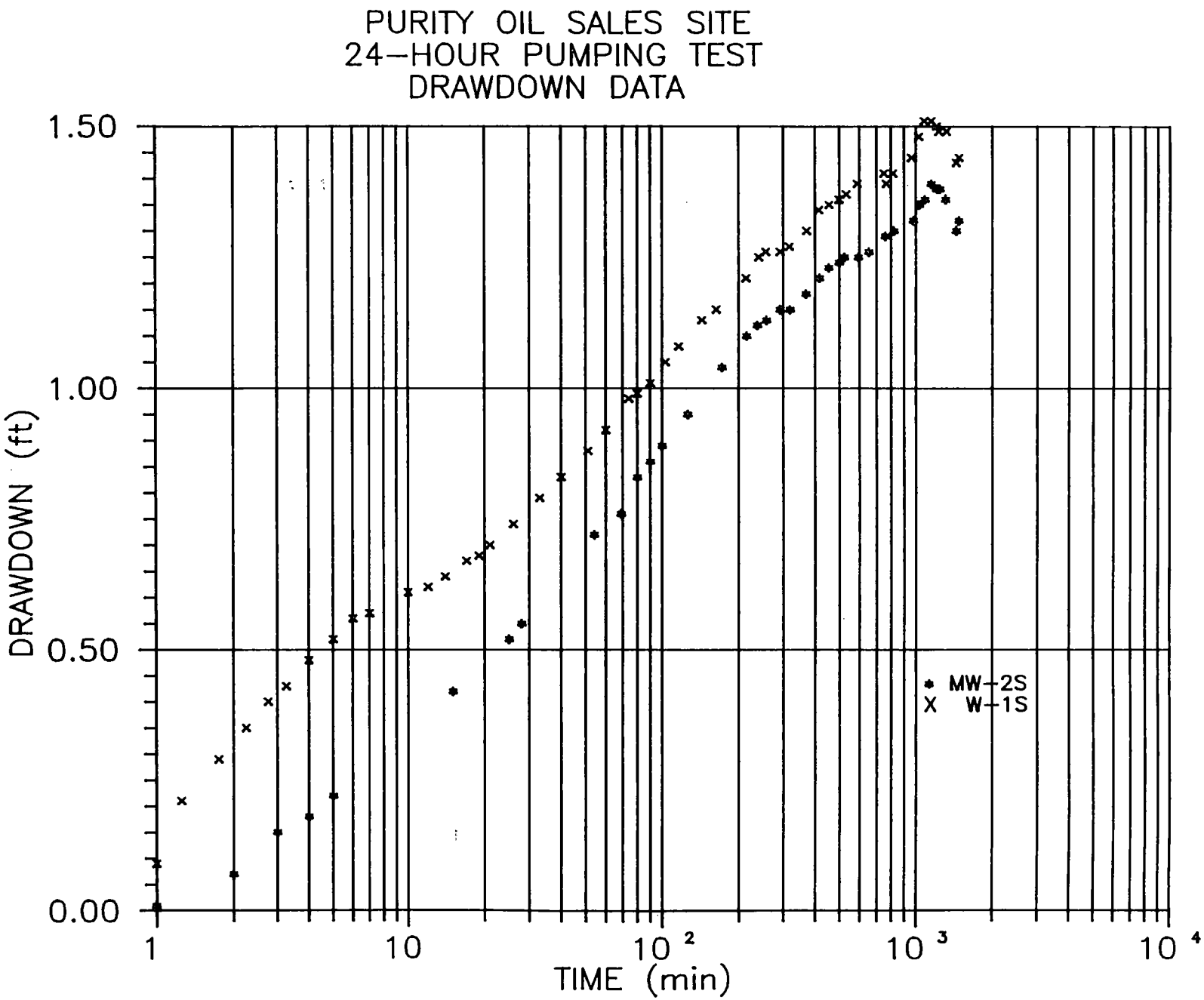


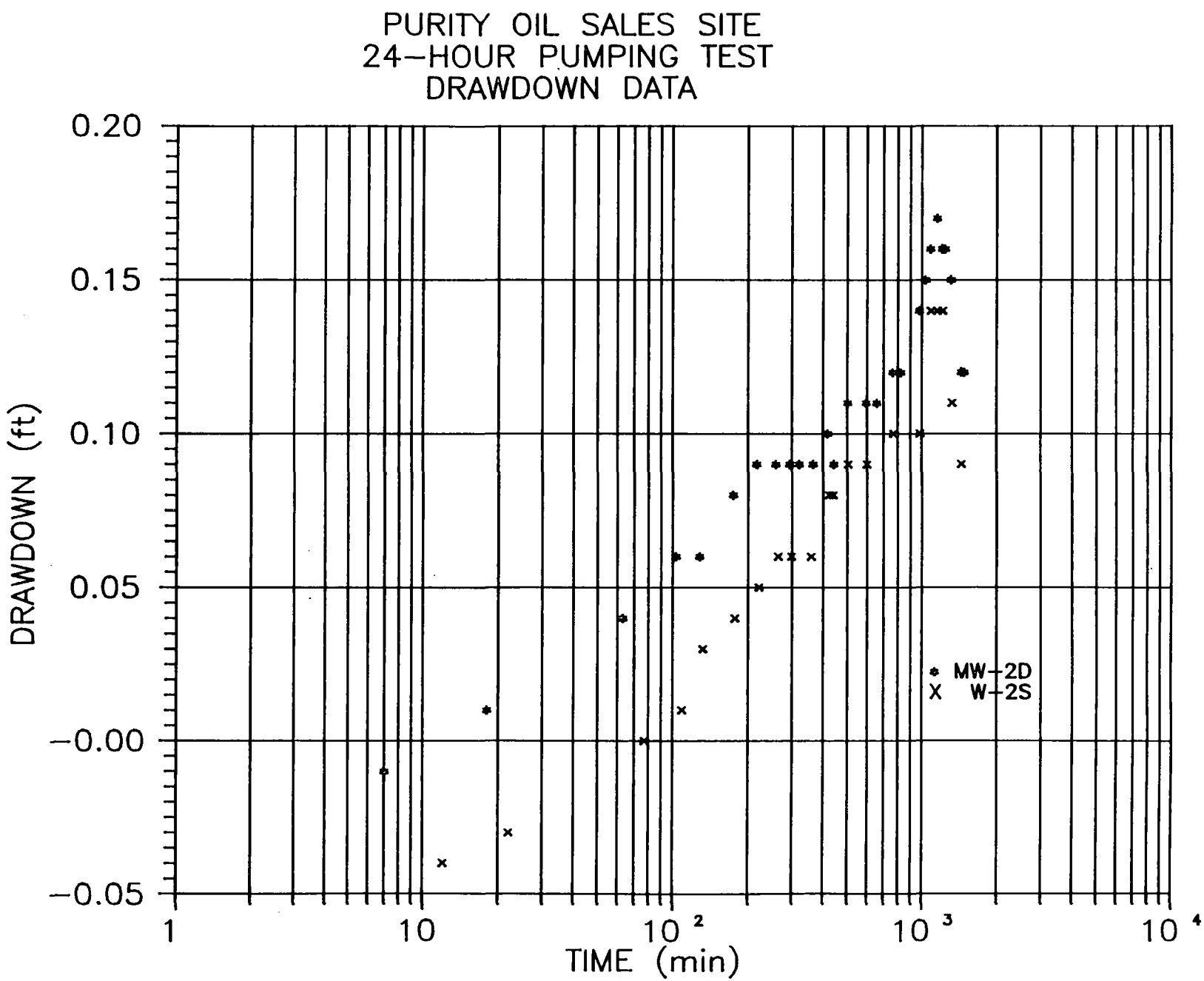
PURITY OIL SALES SITE
24-HOUR PUMPING TEST
DRAWDOWN DATA

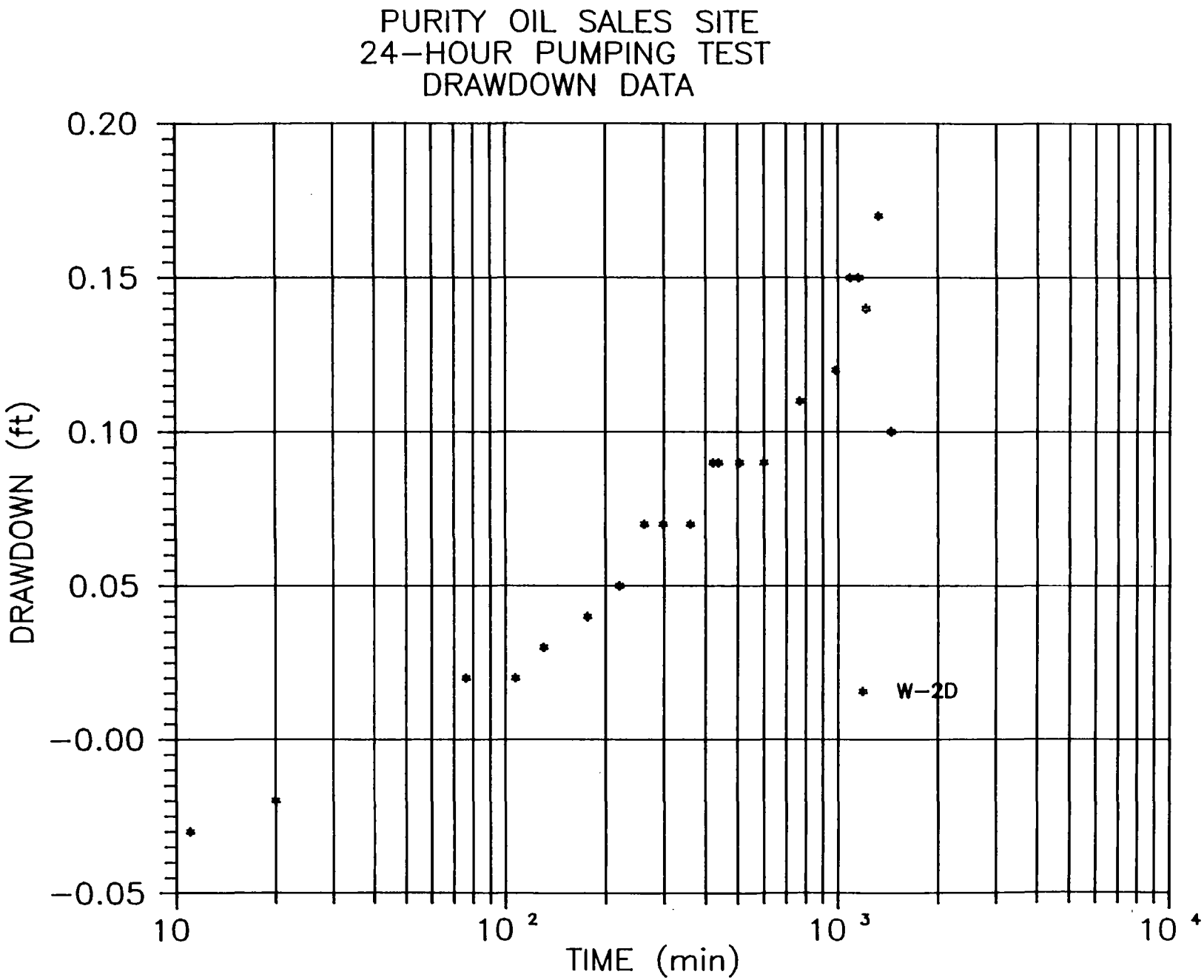


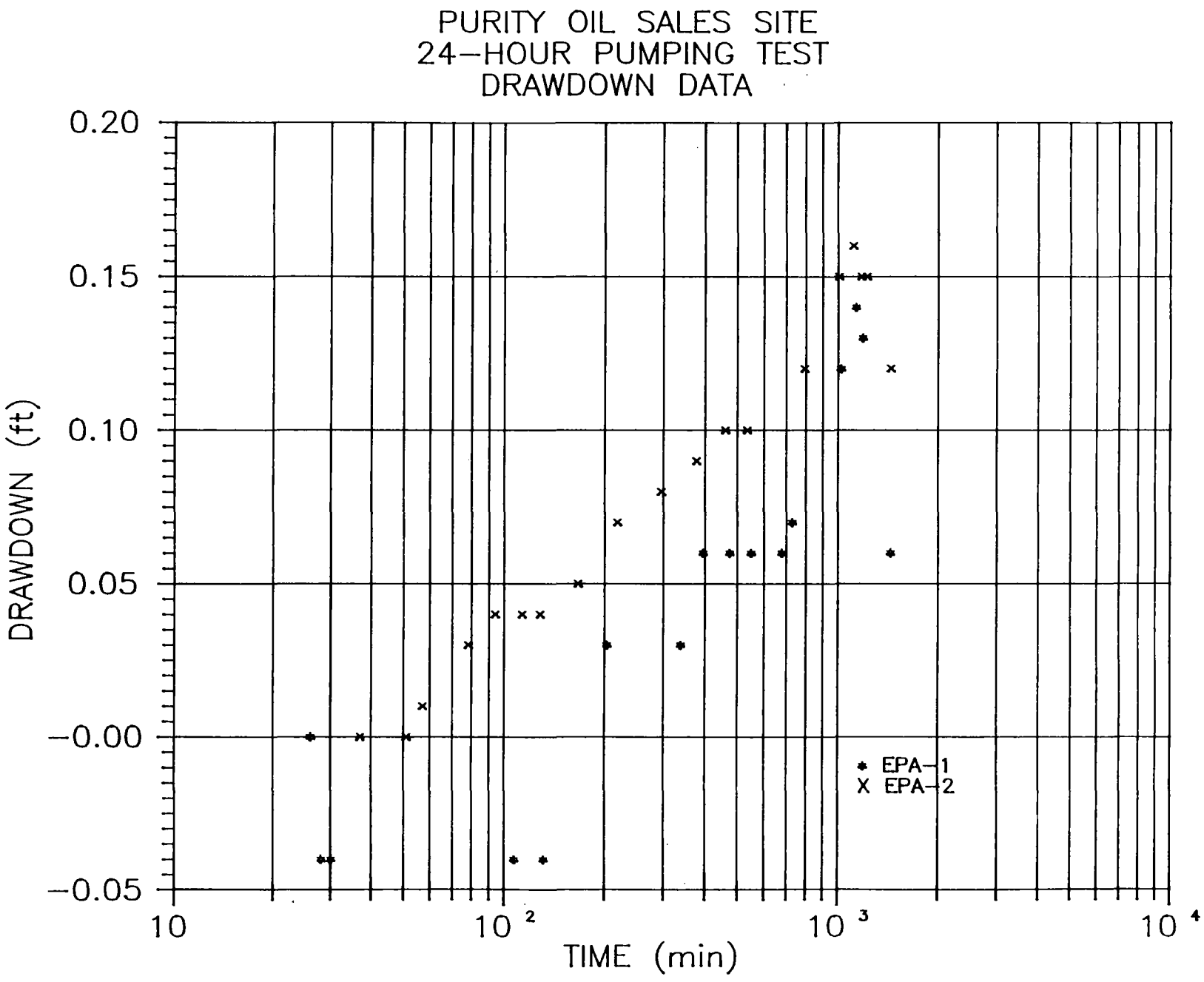
PURITY OIL SALES SITE
24-HOUR PUMPING TEST
DRAWDOWN DATA

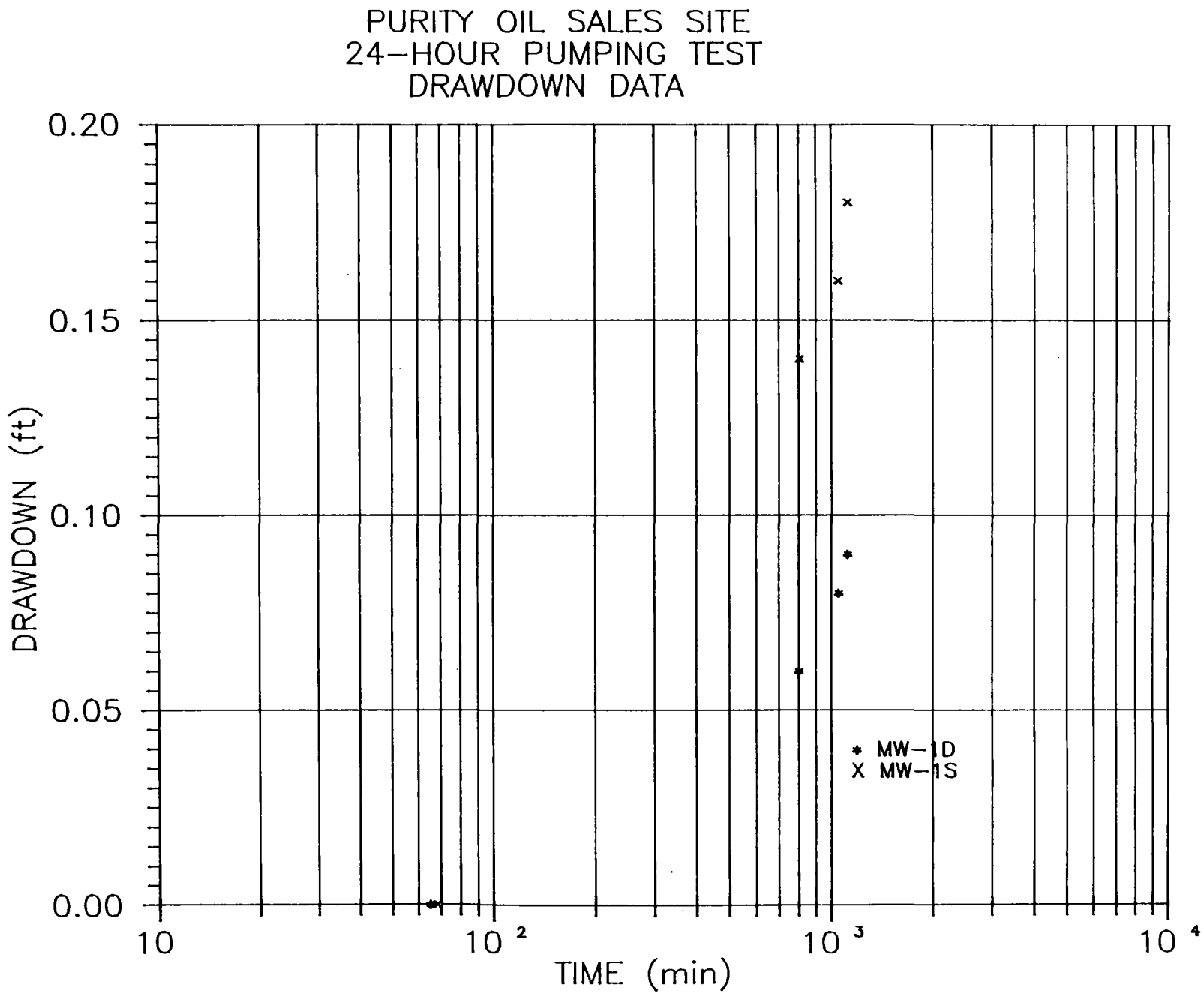


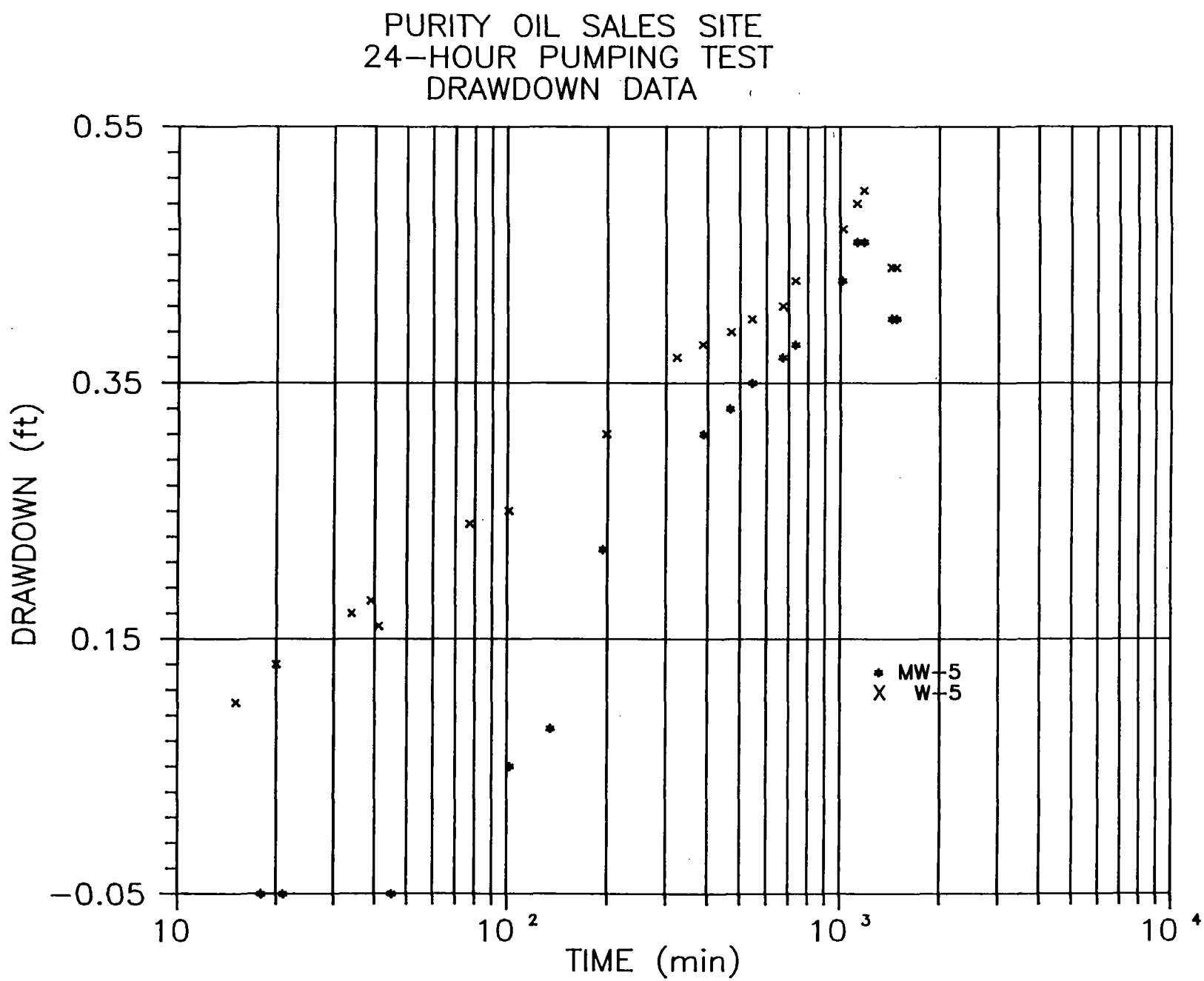

PURITY OIL SALES SITE
24-HOUR PUMPING TEST
DRAWDOWN DATA
1.50
1.00
0.50
0.00
DRAWDOWN (ft)
1
10
10 2
10 3
10 4
TIME (min)
MW-2S
W-1S

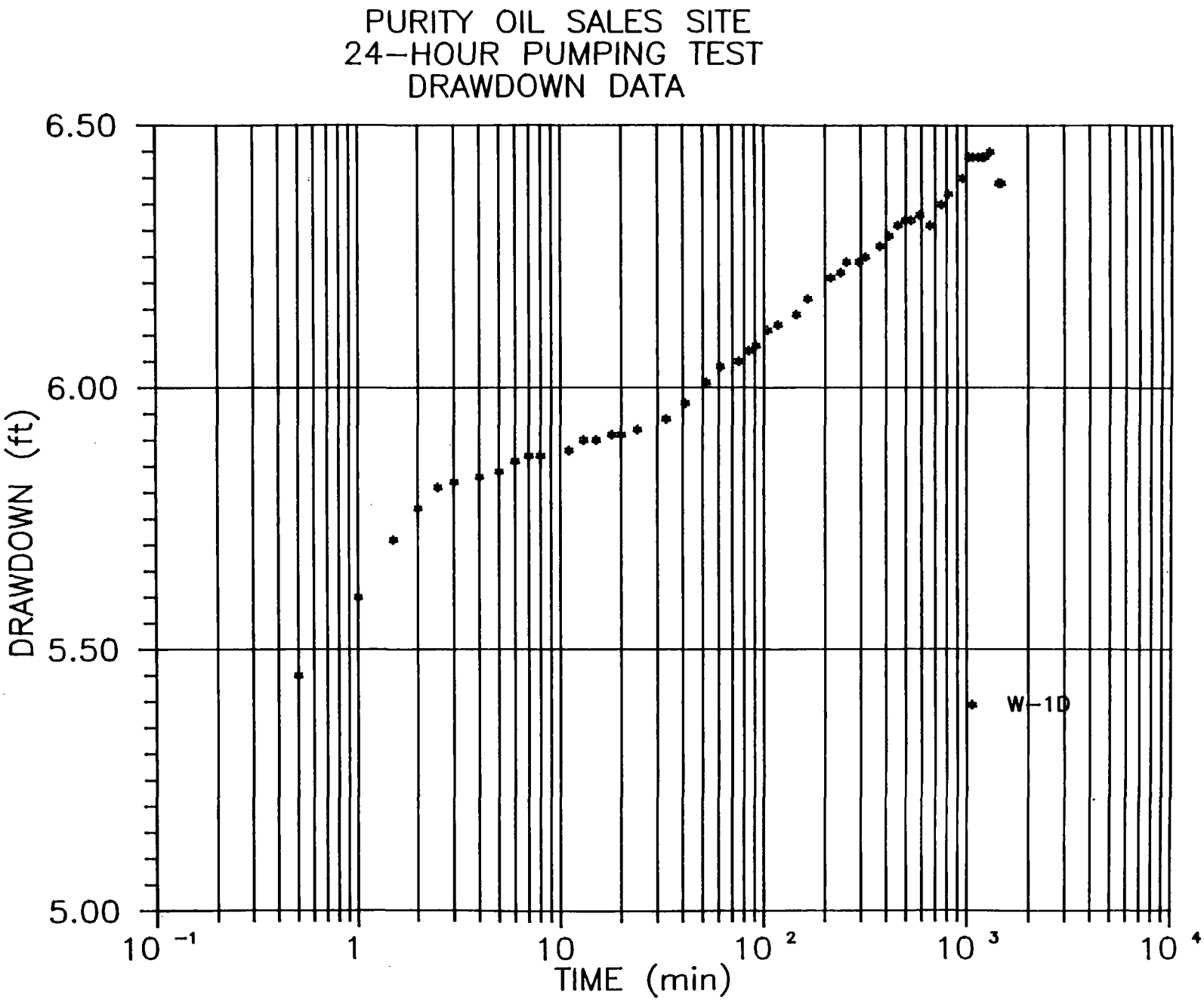

PURITY OIL SALES SITE
24-HOUR PUMPING TEST
DRAWDOWN DATA
DRAWDOWN (ft)
0.20
0.15
0.10
0.05
-0.00
-0.05
1
10
10 2
10 3
10 4
TIME (min)
MW-2D
W-2S


PURITY OIL SALES SITE
24-HOUR PUMPING TEST
DRAWDOWN DATA
0.20
0.15
0.10
0.05
-0.00
-0.05
DRAWDOWN (ft)
10
10 2
10 3
10 4
TIME (min)
W-2D

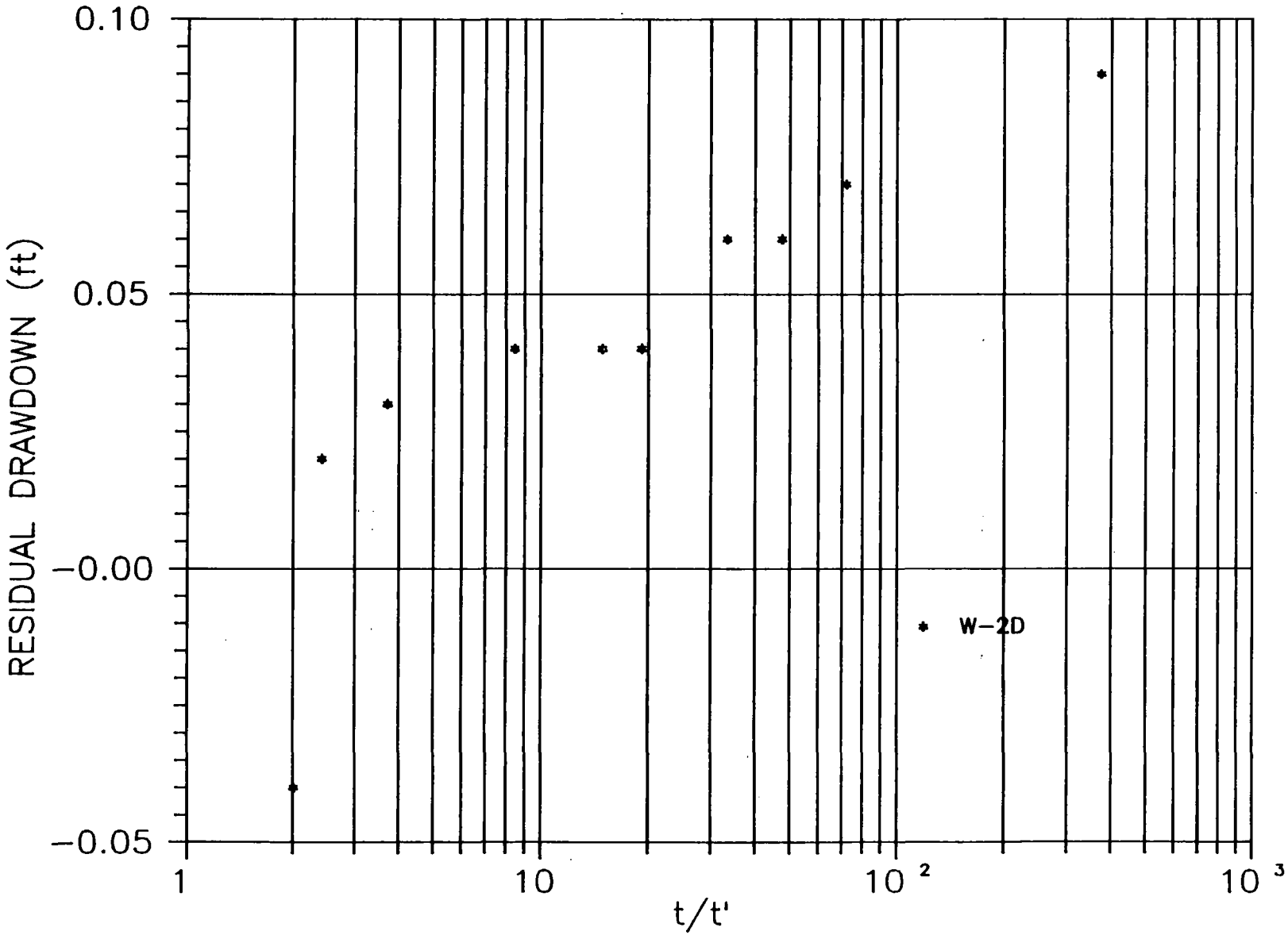

PURITY OIL SALES SITE
24-HOUR PUMPING TEST
DRAWDOWN DATA
0.20
0.15
0.10
0.05
-0.00
-0.05
DRAWDOWN (ft)
10
10 2
10 3
10 4
TIME (min)
EPA-1
EPA-2

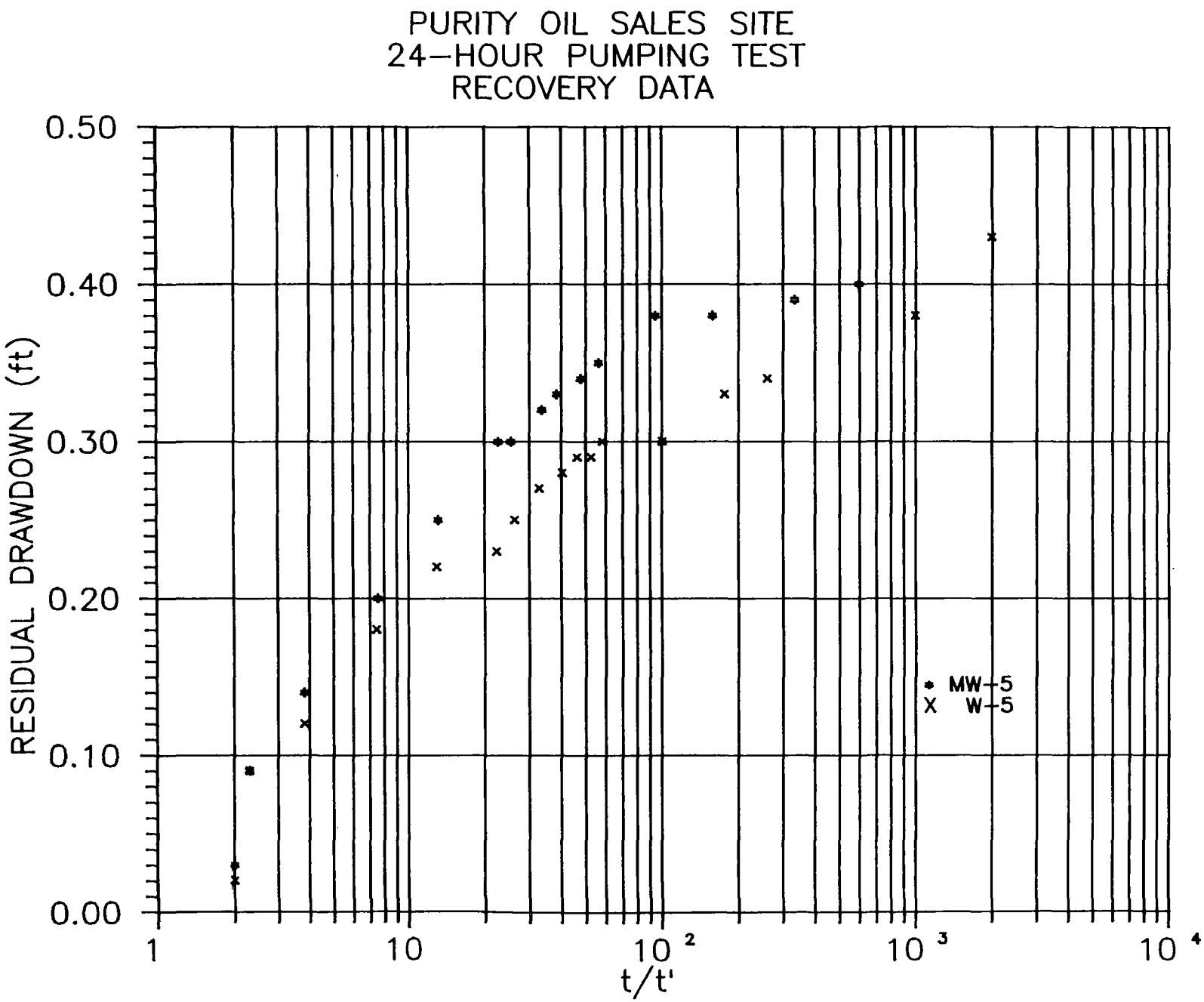

PURITY OIL SALES SITE
24-HOUR PUMPING TEST
DRAWDOWN DATA
0.20
0.15
0.10
0.05
0.00
DRAWDOWN (ft)
10
10 2
10 3
10 4
TIME (min)
* MW-1D
X MW-1S

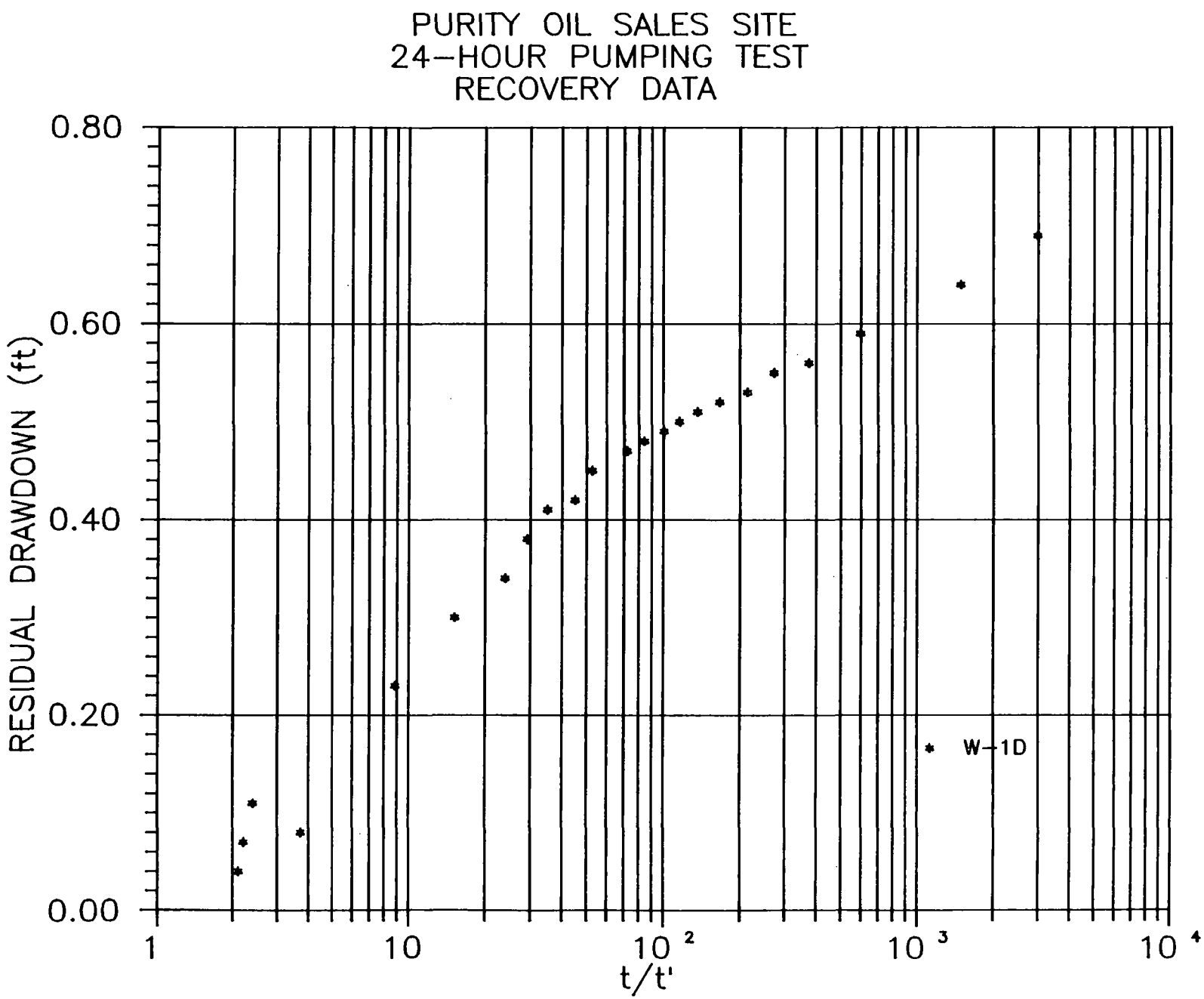

PURITY OIL SALES SITE
24-HOUR PUMPING TEST
DRAWDOWN DATA
0.55
0.35
0.15
-0.05
DRAWDOWN (ft)
10
10 2
10 3
10 4
TIME (min)
MW-5
W-5

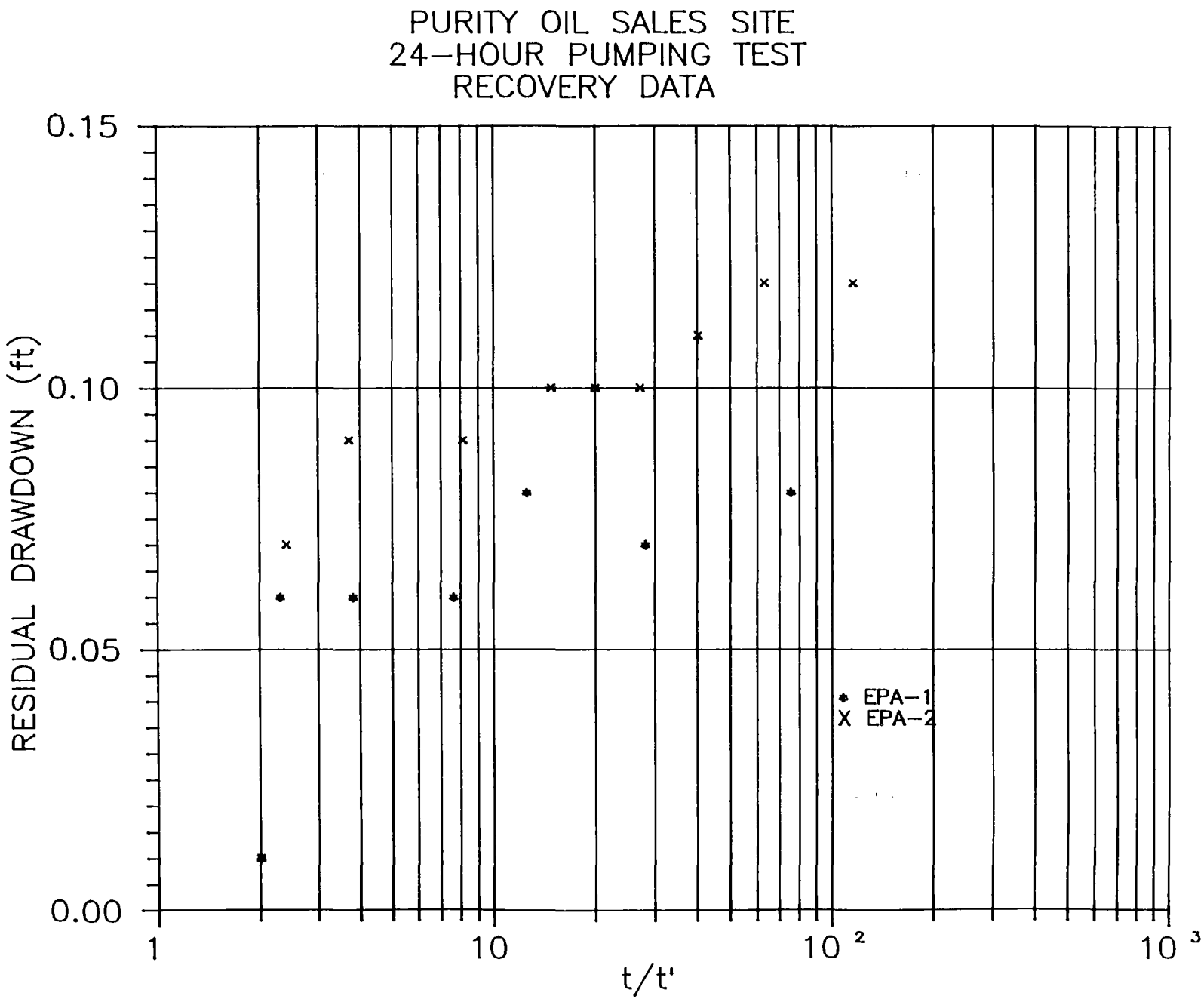

PURITY OIL SALES SITE
24-HOUR PUMPING TEST
DRAWDOWN DATA
6.50
6.00
5.50
5.00
DRAWDOWN (ft)
10 -1
1
10
10 2
10 3
10 4
TIME (min)
W-1D

PURITY OIL SALES SITE
24-HOUR PUMPING TEST
RECOVERY DATA

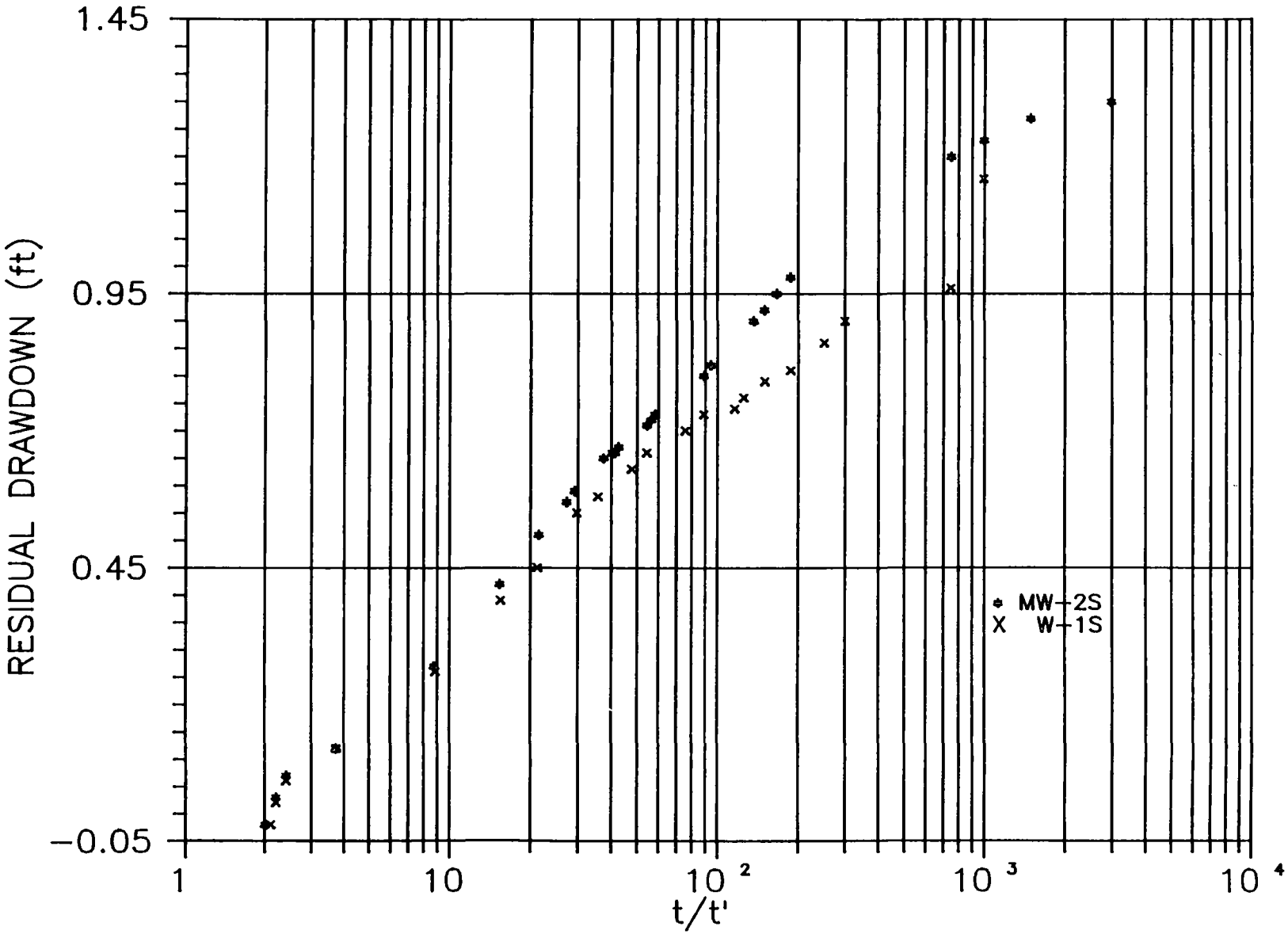


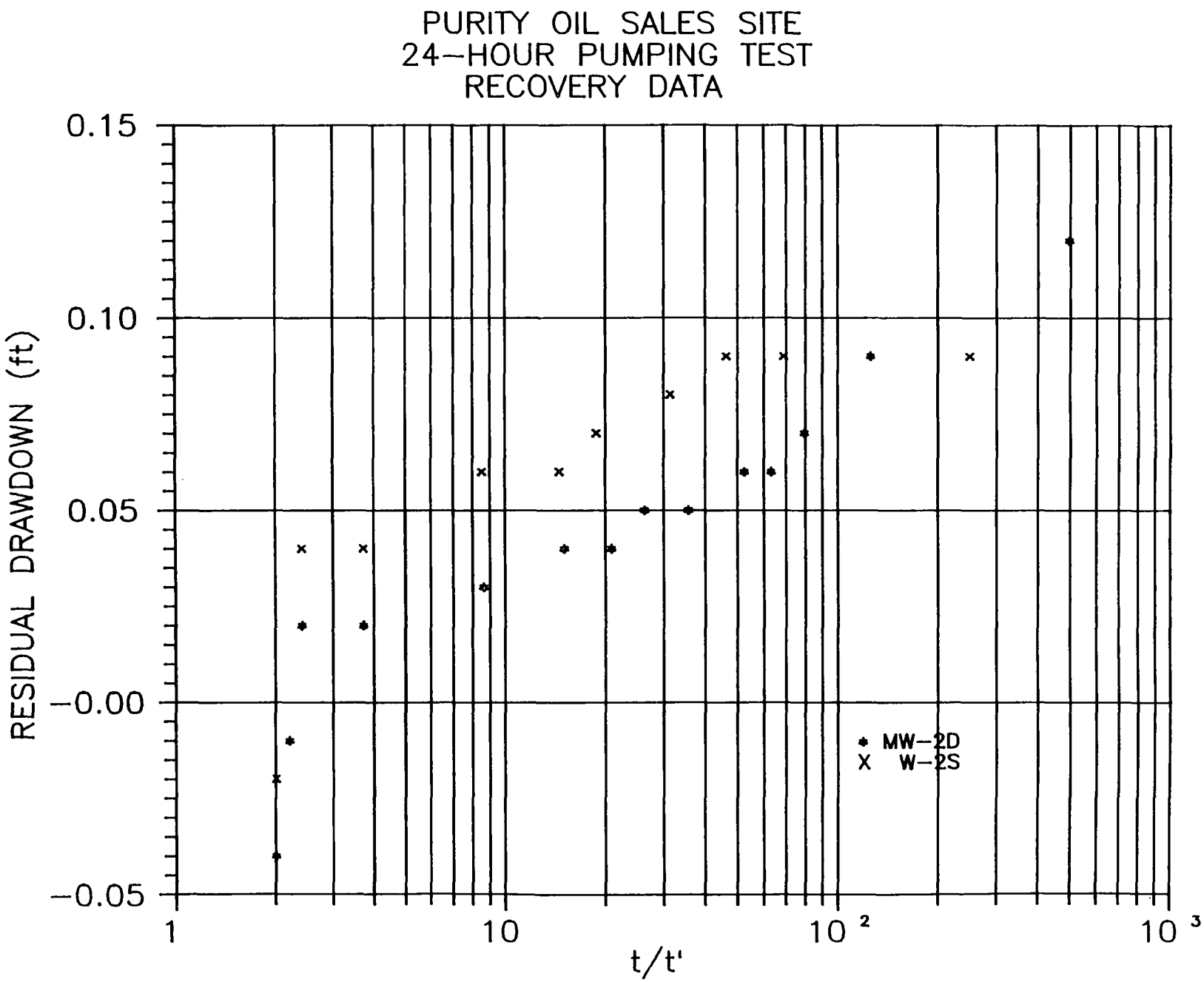

PURITY OIL SALES SITE
24-HOUR PUMPING TEST
RECOVERY DATA
RESIDUAL DRAWDOWN (ft)
0.50
0.40
0.30
0.20
0.10
0.00
1
10
10 2
10 3
10 4
t/t'
MW-5
W-5


PURITY OIL SALES SITE
24-HOUR PUMPING TEST
RECOVERY DATA
RESIDUAL DRAWDOWN (ft)
0.80
0.60
0.40
0.20
0.00
1
10
10 2
10 3
10 4
t/t'
W-1D


PURITY OIL SALES SITE
24-HOUR PUMPING TEST
RECOVERY DATA
RESIDUAL DRAWDOWN (ft)
0.15
0.10
0.05
0.00
1
10
10 2
10 3
t/t'
EPA-1
X EPA-2

PURITY OIL SALES SITE
24-HOUR PUMPING TEST
RECOVERY DATA




PURITY OIL SALES SITE
24-HOUR PUMPING TEST
RECOVERY DATA
RESIDUAL DRAWDOWN (ft)
0.15
0.10
0.05
-0.00
-0.05
1
10
10 2
10 3
t/t'
MW-2D
W-2S

SLUG TEST DATA

SLUG TEST DATA
SITE NAME: PURITY OIL SALE FILE NAME: SLMW1S
MONITORING WELL: MW-1S

VOLUME REMOVED (GAL):40 STATIC DEPTH TO WATER (ft): 39.29
PUMP ON: date: 12-31-87 time: 12:41
PUMP OFF: date: 12-31-87 time: 12.45
MEASURING POINT FOR WATER LEVELS: Top of Sanitary Seal

ELAPSED TIME (t) (minutes)	RESIDUAL DRAWDOWN (s) (feet)	DEPTH TO WATER (feet)	COMMENTS
0.00	0.00	39.29	40 GAL PUMPED
0.25	10.98	50.27	FLOW WAS STILL GOING
0.50	9.11	48.40	SHUT PUMP OFF AT 40 GAL
0.75	8.36	47.65	
1.00	7.32	46.61	
1.25	6.73	46.02	
1.50	6.05	45.34	
1.75	5.39	44.68	
2.00	4.84	44.13	
2.50	3.85	43.14	
3.00	3.11	42.40	
3.50	2.54	41.83	
4.00	2.06	41.35	
4.50	1.69	40.98	
5.00	1.18	40.47	
6.00	0.71	40.00	
7.00	0.39	39.68	
8.00	0.28	39.57	
9.00	0.25	39.54	
10.00	0.17	39.46	
11.00	0.09	39.38	
12.00	0.05	39.34	
13.00	0.04	39.33	
14.00	0.04	39.33	
15.00	0.02	39.31	

r= 4.25
t= 45.00
h= 320.52
del y= 28.56
d= 225.48
r/h= 0.013
d/h= 0.70
S= 10.00

K1= 1.87
K2= 2.93
K3= 2.91

K1= Van Bavel and Kirkham (1948) method
K2= Ernst (1950) method, boundary at base of borehole
K3=Ernst (1950) method, boundary at a depth >=1/2 h below auger hole bottom
K is in inches/hours

SLUG TEST DATA
SITE NAME: PURITY OIL SALE FILE NAME: SLMW2SA
MONITORING WELL: MW-2S
VOLUME REMOVED (GAL):20 STATIC DEPTH TO WATER (ft): 47.18
PUMP ON: date: 12-29-87 time: 14:58
PUMP OFF: date: 12-29-87 time:
MEASURING POINT FOR WATER LEVELS: Top of Sanitary Seal

ELAPSED TIME (t) (minutes)	RESIDUAL DRAWDOWN (s) (feet)	DEPTH TO WATER (feet)	COMMENTS
0.00	0.00	47.18	20 GAL PUMPED
0.50	17.14	64.32	
1.00	16.46	63.64	
1.25	16.20	63.38	
1.50	15.67	62.85	
1.75	15.30	62.48	
2.00	15.08	62.26	
2.50	14.63	61.81	
3.00	14.20	61.38	
3.50	13.92	61.10	
4.00	13.60	60.78	
4.50	13.45	60.63	
5.00	13.19	60.37	
6.00	12.75	59.93	
7.00	12.48	59.66	
8.00	12.22	59.40	
9.00	11.72	58.90	WELL SOUNDER STUCK

r= 4.00
t= 90.00
h= 237.84
del y= 24.72
d= 44.52
r/h= 0.017
d/h= 0.19
S= 9.50

K1= 1.08
K2= 1.03
K3= 1.00

K1= Van Bavel and Kirkham (1948) method
K2= Ernst (1950) method, boundary at base of borehole
K3=Ernst (1950) method, boundary at a depth >=1/2 h below auger hole bottom
K is in inches/hours

SLUG TEST DATA
SITE NAME: PURITY OIL SALE FILE NAME: SLMW2SB
MONITORING WELL: MW-2S
VOLUME REMOVED (GAL):28 STATIC DEPTH TO WATER (ft): 47.25
PUMP ON: date: 12-30-87 time: 9:18
PUMP OFF: date: 12-30-87 time: 9:22
MEASURING POINT FOR WATER LEVELS: Top of Sanitary Seal

ELAPSED TIME (t) (minutes)	RESIDUAL DRAWDOWN (s) (feet)	DEPTH TO WATER (feet)	COMMENTS
0.00	0.00	47.25	28 GAL PUMPED
1.25	16.06	63.31	
1.50	15.75	63.00	
1.75	15.38	62.63	
2.00	15.06	62.31	
2.50	14.53	61.78	
3.00	14.10	61.35	
3.50	13.75	61.00	
4.00	13.45	60.70	
4.50	13.17	60.42	
5.00	12.91	60.16	
6.00	12.47	59.72	
7.00	12.09	59.34	
8.00	11.75	59.00	
9.00	11.42	58.67	
10.00	11.11	58.36	
11.00	10.66	57.91	
12.00	10.42	57.67	
13.00	10.07	57.32	
14.00	9.83	57.08	
15.00	9.54	56.79	
20.00	8.59	55.84	
25.00	7.43	54.68	
30.00	6.93	54.18	
35.00	6.39	53.64	
40.00	5.82	53.07	
45.00	5.30	52.55	
50.00	4.81	52.06	
55.00	4.55	51.80	
60.00	4.11	51.36	
70.00	3.42	50.67	
80.00	2.90	50.15	
90.00	2.26	49.51	
100.00	2.13	49.38	
110.00	1.75	49.00	
120.00	1.57	48.82	
140.00	1.12	48.37	
160.00	0.72	47.97	
180.00	0.51	47.76	
200.00	0.27	47.52	

r=	4.00
t=	45.00
h=	237.00
del y=	12.00
d=	50.28
r/h=	0.017
d/h=	0.21
S=	9.40

K1=	1.06
K2=	1.02
K3=	0.99

K1= Van Bavel and Kirkham (1948) method
K2= Ernst (1950) method, boundary at base of borehole
K3=Ernst (1950) method, boundary at a depth >=1/2 h below auger hole bottom
K is in inches/hours

SLUG TEST DATA
SITE NAME: PURITY OIL SALE FILE NAME: SLMW2DA
MONITORING WELL: MW-2D
VOLUME REMOVED (GAL):25 STATIC DEPTH TO WATER (ft): 48.72
PUMP ON: date: 12-31-87 time: 8:15
PUMP OFF: date: 12-31-87 time: 8:18
MEASURING POINT FOR WATER LEVELS: Top of Sanitary Seal

ELAPSED TIME (t) (minutes)	RESIDUAL DRAWDOWN (s) (feet)	DEPTH TO WATER (feet)	COMMENTS
0.00	0.00	48.72	WIRE HUNG UP AROUND 63.0
5.00	11.97	60.69	READINGS DIFFICULT TO OBTAIN
6.00	11.71	60.43	
7.00	11.41	60.13	
9.00	11.15	59.87	
10.00	11.02	59.74	
11.00	10.74	59.46	
12.00	10.58	59.30	
13.00	10.38	59.10	
14.00	10.28	59.00	
15.00	10.06	58.78	
20.00	9.31	58.03	
25.00	8.48	57.20	
30.00	7.71	56.43	
35.00	7.06	55.78	
40.00	6.23	54.95	
45.00	5.79	54.51	
50.00	5.28	54.00	
55.00	4.70	53.42	
60.00	4.06	52.78	
70.00	3.19	51.91	
80.00	2.48	51.20	
90.00	1.78	50.50	
100.00	1.37	50.09	
110.00	0.93	49.65	
120.00	0.61	49.33	END

r= 4.50
t= 360.00
h= 1395.36
del y= 13.08
d= 1268.10
r/h= 0.003
d/h= 0.91
S= 15.00

K1= 0.02
K2= 0.03

K1= Van Bavel and Kirkham (1948) method
K2= Ernst (1950) method, boundary at base of borehole
K is in inches/hours

SLUG TEST DATA
SITE NAME: PURITY OIL SALE FILE NAME: SLMW2DB
MONITORING WELL: MW-2D
VOLUME REMOVED (GAL):150 STATIC DEPTH TO WATER (ft): 48.61
PUMP ON: date: 12-30-87 time: 12:55
PUMP OFF: date: 12-30-87 time: 13:16
MEASURING POINT FOR WATER LEVELS: Top of Sanitary Seal

ELAPSED TIME (t) (minutes)	RESIDUAL DRAWDOWN (s) (feet)	DEPTH TO WATER (feet)	COMMENTS
0.00	0.00	48.61	150 GAL PUMPED
0.25	93.39	142.00	UNABLE TO GET RELIABLE READING
0.50	93.39	142.00	" "
0.75	93.39	142.00	" "
1.00	93.39	142.00	" "
1.25	92.39	141.00	" "
1.50	92.39	141.00	" "
1.75	92.39	141.00	" "
2.00	92.39	141.00	" "
2.50	92.07	140.68	
3.00	92.13	140.74	
3.50	91.51	140.12	
4.00	91.32	139.93	
4.50	91.27	139.88	
5.00	90.80	139.41	
6.00	90.16	138.77	
7.00	89.76	138.37	
8.00	89.48	138.09	
9.00	89.09	137.70	
10.00	88.53	137.14	
11.00	88.15	136.76	
12.00	87.86	136.47	
13.00	87.39	136.00	
14.00	86.92	135.53	
15.00	86.54	135.15	
20.00	84.57	133.18	
25.00	82.69	131.30	
30.00	80.65	129.26	
35.00	78.89	127.50	
40.00	77.24	125.85	
45.00	75.46	124.07	
50.00	73.58	122.19	
55.00	72.04	120.65	
60.00	70.39	119.00	
70.00	67.17	115.78	
80.00	64.20	112.81	
90.00	61.25	109.86	
100.00	58.09	106.70	
110.00	55.91	104.52	
120.00	53.39	102.00	
140.00	47.60	96.21	
160.00	44.50	93.11	
180.00	39.72	88.33	
200.00	36.79	85.40	
220.00	33.39	82.00	
240.00	30.41	79.02	

r= 4.50
t= 240.00
h= 1396.68
del y= 31.08
d= 291.54
r/h= 0.003
d/h= 0.21
S= 20.00

K1= 0.05
K2= 0.02

K1= Van Bavel and Kirkham (1948) method
K2= Ernst (1950) method, boundary at base of borehole
K is in inches/hours

SLUG TEST DATA
SITE NAME: PURITY OIL SALE FILE NAME: SLMW6
MONITORING WELL: MW-6
VOLUME REMOVED (GAL):25 STATIC DEPTH TO WATER (ft): 43.08
PUMP ON: date: 12-29-87 time: 12:13
PUMP OFF: date: 12-29-87 time: 12:16
MEASURING POINT FOR WATER LEVELS: Top of Sanitary Seal

ELAPSED TIME (t) (minutes)	RESIDUAL DRAWDOWN (s) (feet)	DEPTH TO WATER (feet)	COMMENTS
0.00	0.00	43.08	50 GAL PUMPED
0.25	17.05	60.13	
0.50	16.38	59.46	
0.75	15.92	59.00	
1.00	15.45	58.53	
1.25	15.08	58.16	
1.50	14.78	57.86	
1.75	14.44	57.52	
2.00	14.05	57.13	
2.50	13.15	56.23	
3.00	12.42	55.50	
3.50	11.37	54.45	
4.00	10.09	53.17	
4.50	9.77	52.85	
5.00	9.10	52.18	
6.00	7.92	51.00	
7.00	6.38	49.46	
8.00	5.39	48.47	
9.00	4.59	47.67	
10.00	3.74	46.82	
11.00	3.37	46.45	
12.00	2.59	45.67	
13.00	2.00	45.08	
14.00	1.75	44.83	
15.00	1.34	44.42	
16.00	1.07	44.15	
17.00	0.80	43.88	
18.00	0.69	43.77	
19.00	0.53	43.61	
20.00	0.20	43.28	
25.00	0.05	43.13	
30.00	-0.03	43.05	
35.00	0.00	43.08	

r= 3.75
t= 30.00
h= 263.04
del y= 13.56
d= 65.22
r/h= 0.014
d/h= 0.25
S= 9.80

K1= 1.46
K2= 1.29
K3= 1.27

K1= Van Bavel and Kirkham (1948) method
K2= Ernst (1950) method, boundary at base of borehole
K3=Ernst (1950) method, boundary at a depth >=1/2 h below auger hole bottom
K is in inches/hours

SLUG TEST DATA
SITE NAME: PURITY OIL SALE FILE NAME: SLMW7
MONITORING WELL: MW-7
VOLUME REMOVED (GAL):50 STATIC DEPTH TO WATER (ft): 44.25
PUMP ON: date: 12-29-87 time: 9:40
PUMP OFF: date: 12-29-87 time: 9:50
MEASURING POINT FOR WATER LEVELS: Top of Sanitary Seal

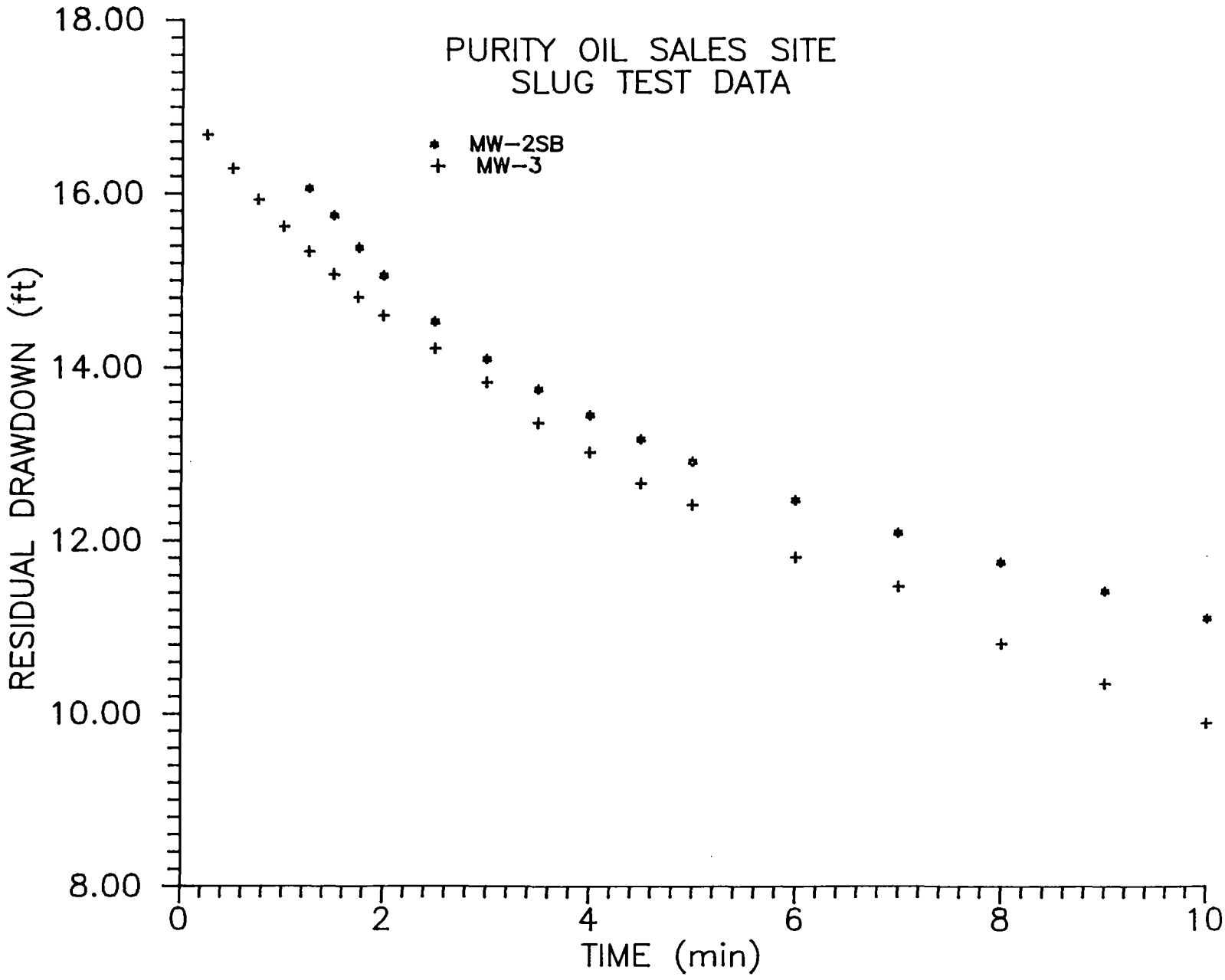
ELAPSED TIME (t) (minutes)	RESIDUAL DRAWDOWN (s) (feet)	DEPTH TO WATER (feet)	COMMENTS
0.00	0.00	44.25	50 GAL PUMPED
0.25	15.02	59.27	
0.50	14.20	58.45	
0.75	13.08	57.33	
1.00	12.22	56.47	
1.25	11.07	55.32	
1.50	10.40	54.65	
1.75	9.58	53.83	
2.00	8.98	53.23	
2.50	7.51	51.76	
3.00	6.25	50.50	
3.50	5.44	49.69	
4.00	4.78	49.03	
4.50	4.00	48.25	
5.00	3.41	47.66	
6.00	2.60	46.85	
7.00	1.92	46.17	
8.00	1.33	45.58	
9.00	0.97	45.22	
10.00	0.68	44.93	
11.00	0.48	44.73	
12.00	0.32	44.57	
13.00	0.28	44.53	
14.00	0.23	44.48	
15.00	0.17	44.42	
16.00	0.18	44.43	
17.00	0.14	44.39	
18.00	0.13	44.38	
19.00	0.11	44.36	
20.00	0.11	44.36	
25.00	0.10	44.35	
30.00	0.11	44.36	
35.00	0.06	44.31	
40.00	0.04	44.29	
45.00	0.05	44.30	
50.00	0.05	44.30	
55.00	0.05	44.30	
60.00	0.05	44.30	

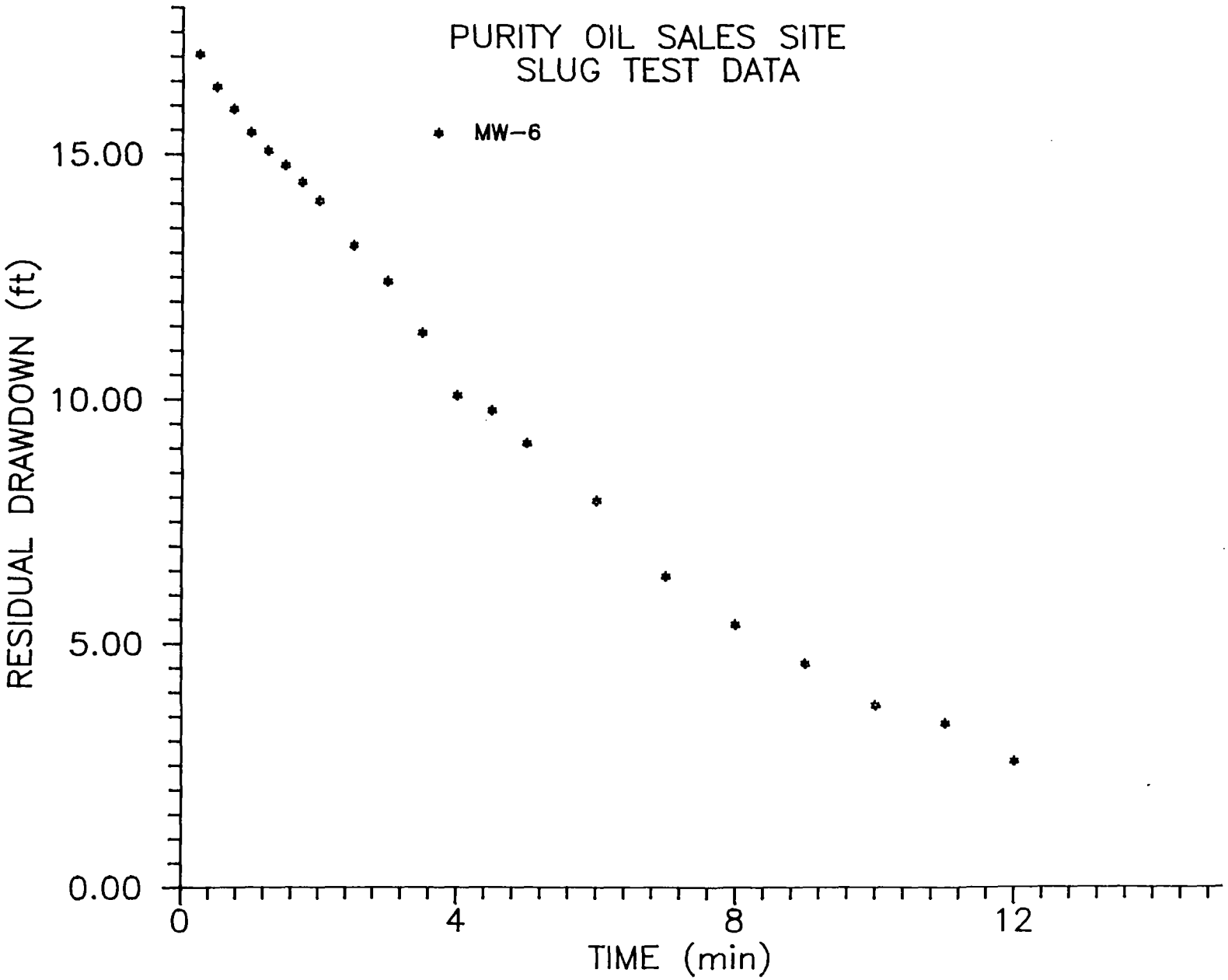
r= 4.25
t= 60.00
h= 237.00
del y= 47.40
d= 80.46
r/h= 0.018
d/h= 0.34
S= 8.00

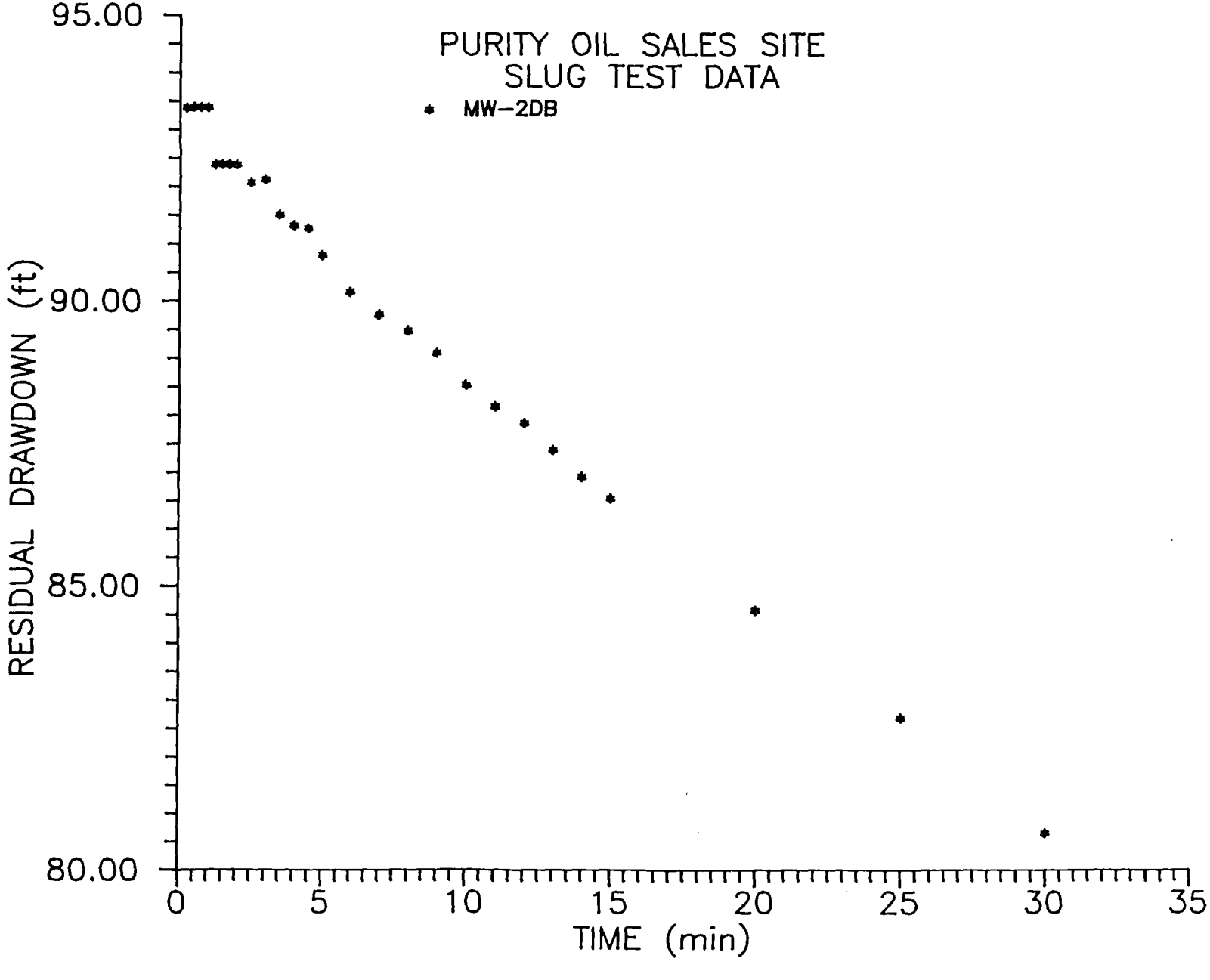
K1= 3.93
K2= 3.65
K3= 3.52

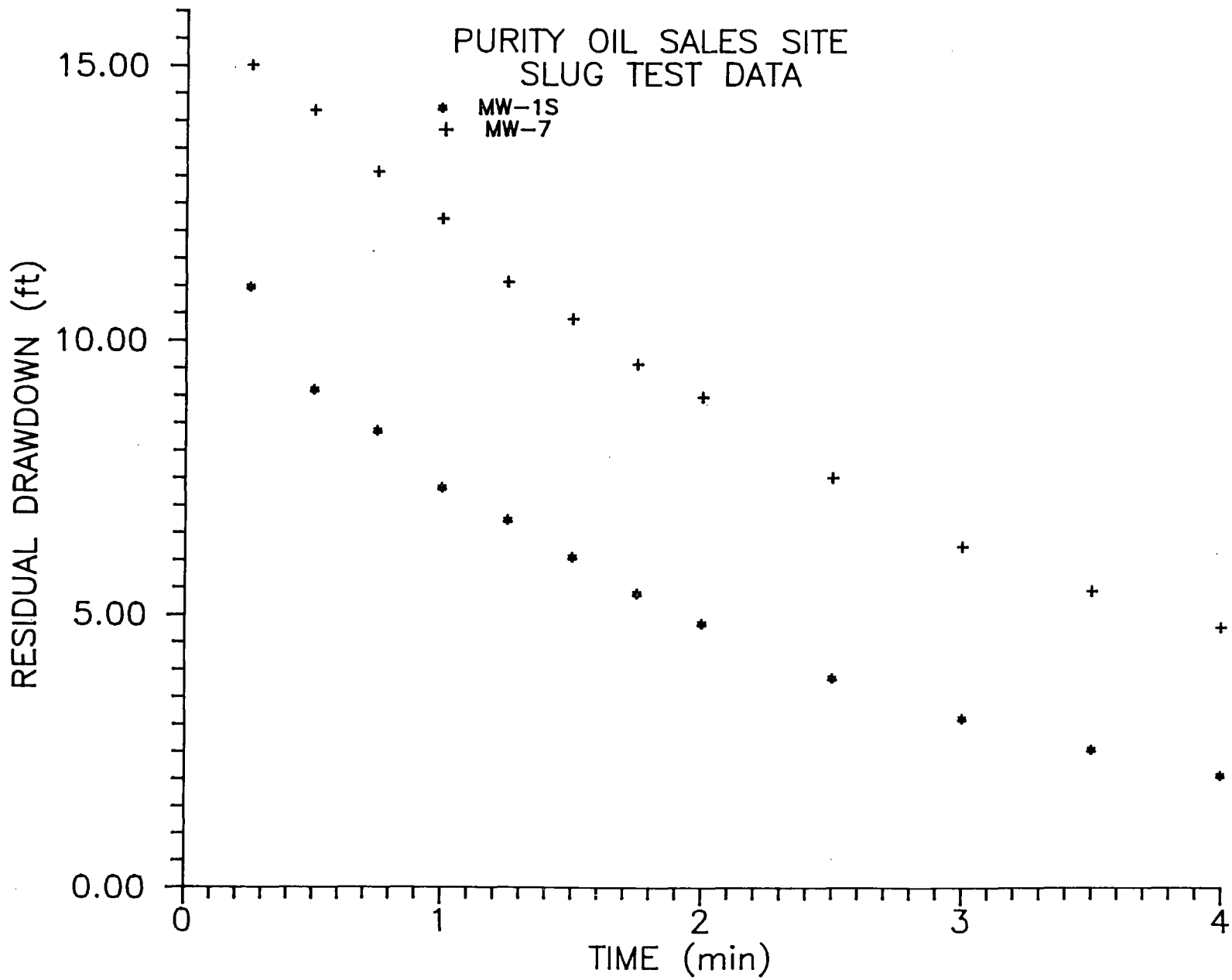
K1= Van Bavel and Kirkham (1948) method
K2= Ernst (1950) method, boundary at base of borehole
K3=Ernst (1950) method, boundary at a depth >=1/2 h below auger hole bottom
K is in inches/hours

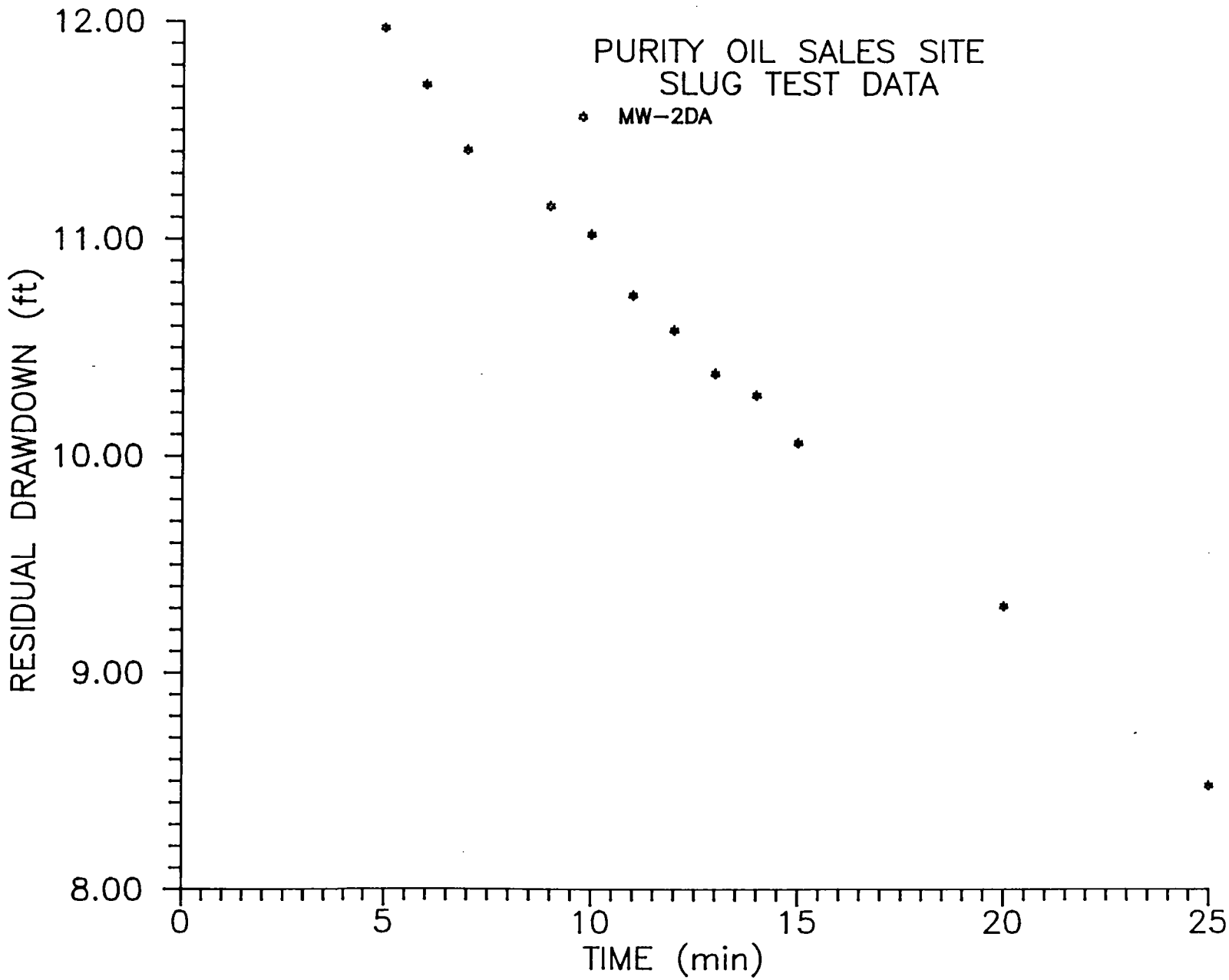
PLOTS OF SLUG TEST RESULTS

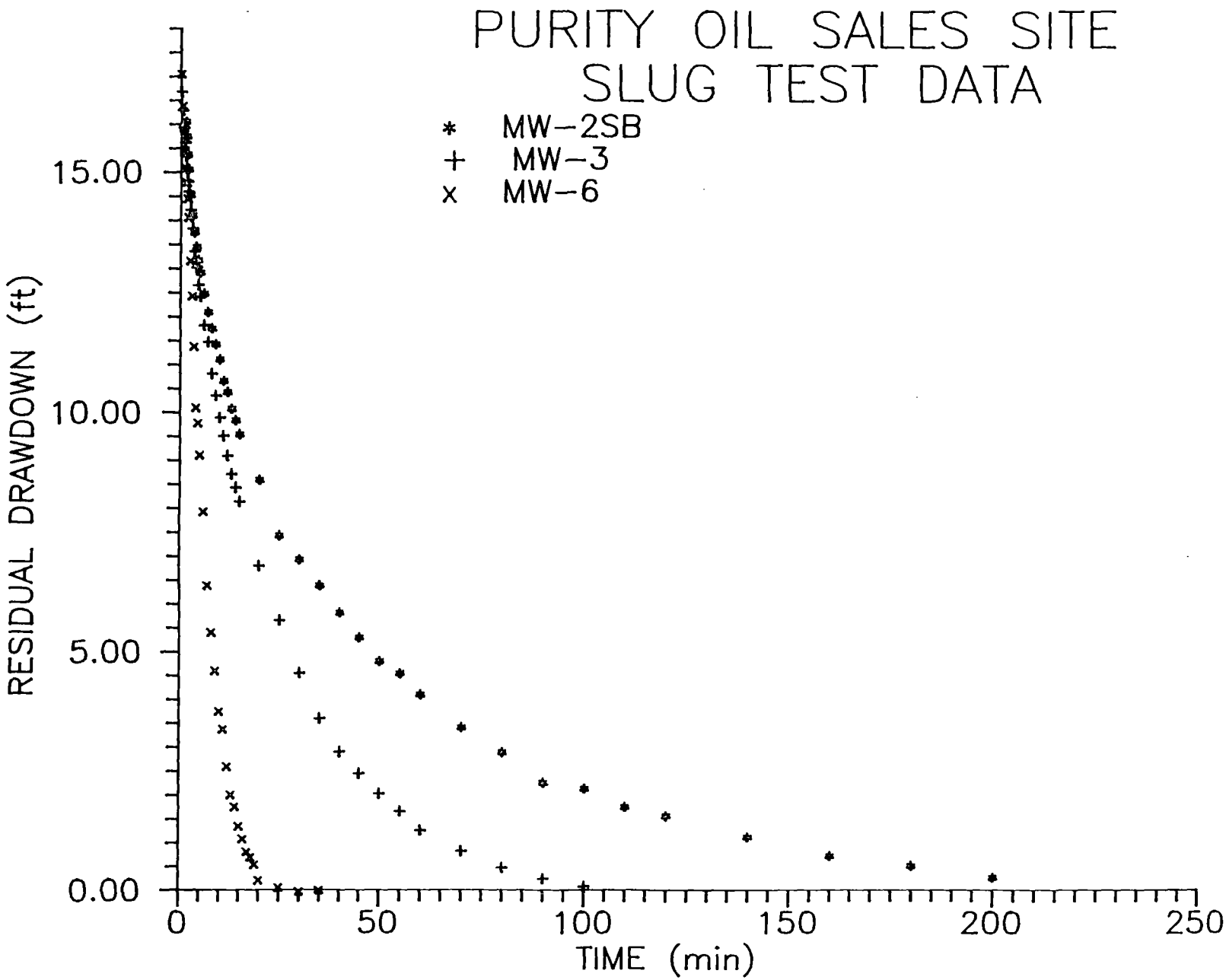

PURITY OIL SALES SITE
SLUG TEST DATA
MW-2SB
MW-3
RESIDUAL DRAWDOWN (ft)
18.00
16.00
14.00
12.00
10.00
8.00
0
2
4
6
8
10
TIME (min)

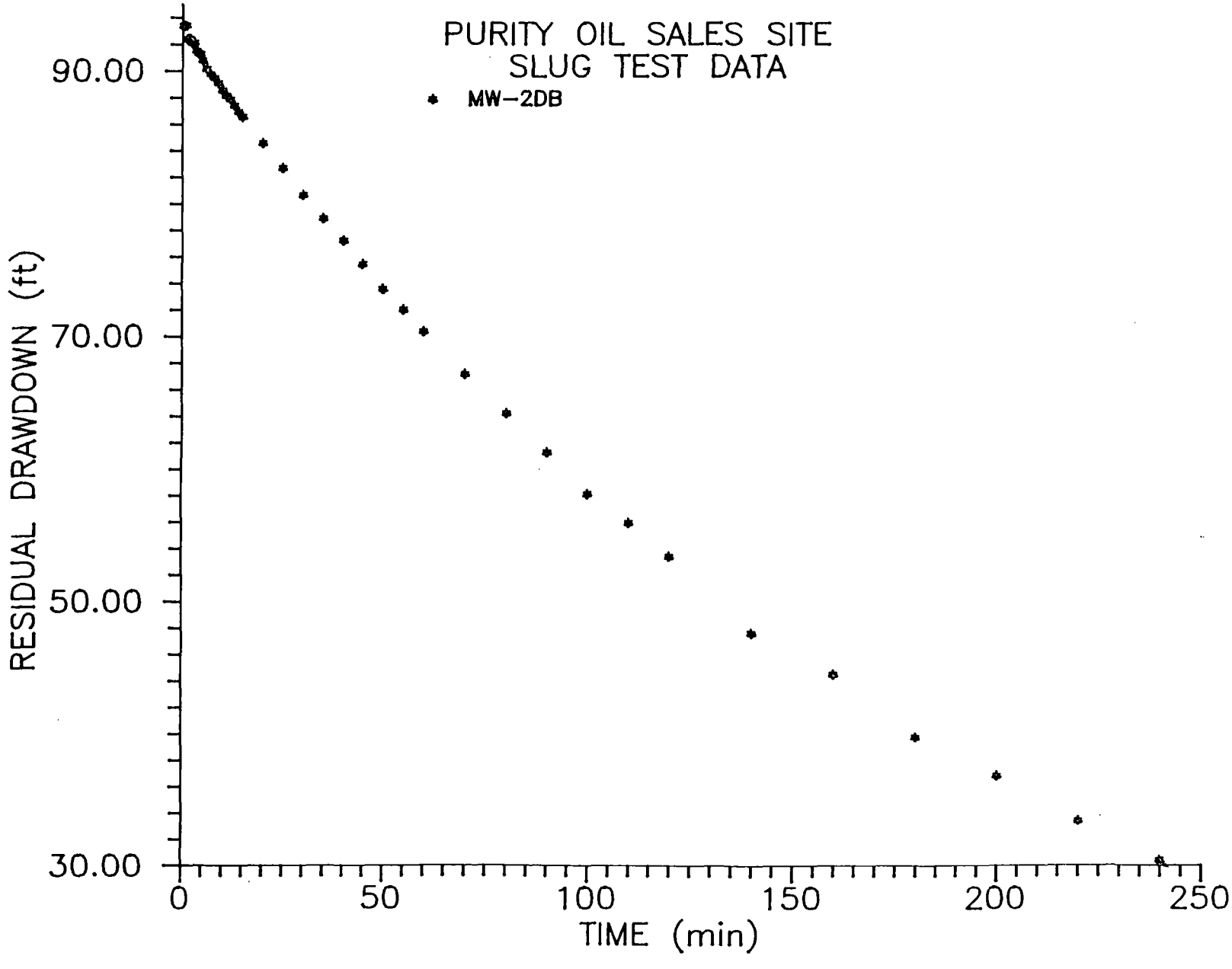

PURITY OIL SALES SITE
SLUG TEST DATA
MW-6
RESIDUAL DRAWDOWN (ft)
15.00
10.00
5.00
0.00
0
4
8
12
TIME (min)

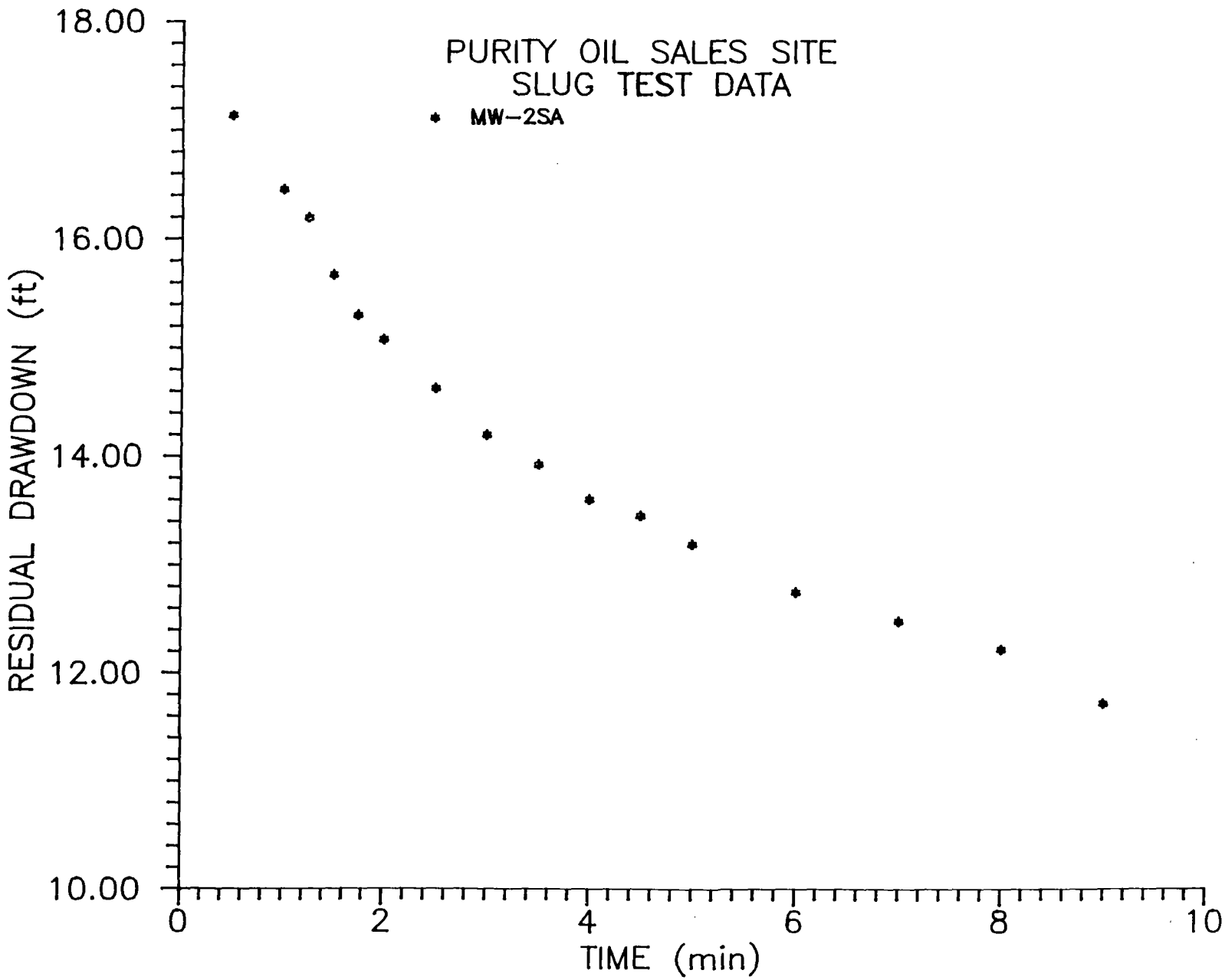

PURITY OIL SALES SITE
SLUG TEST DATA
MW-2DB
RESIDUAL DRAWDOWN (ft)
95.00
90.00
85.00
80.00
0
5
10
15
20
25
30
35
TIME (min)

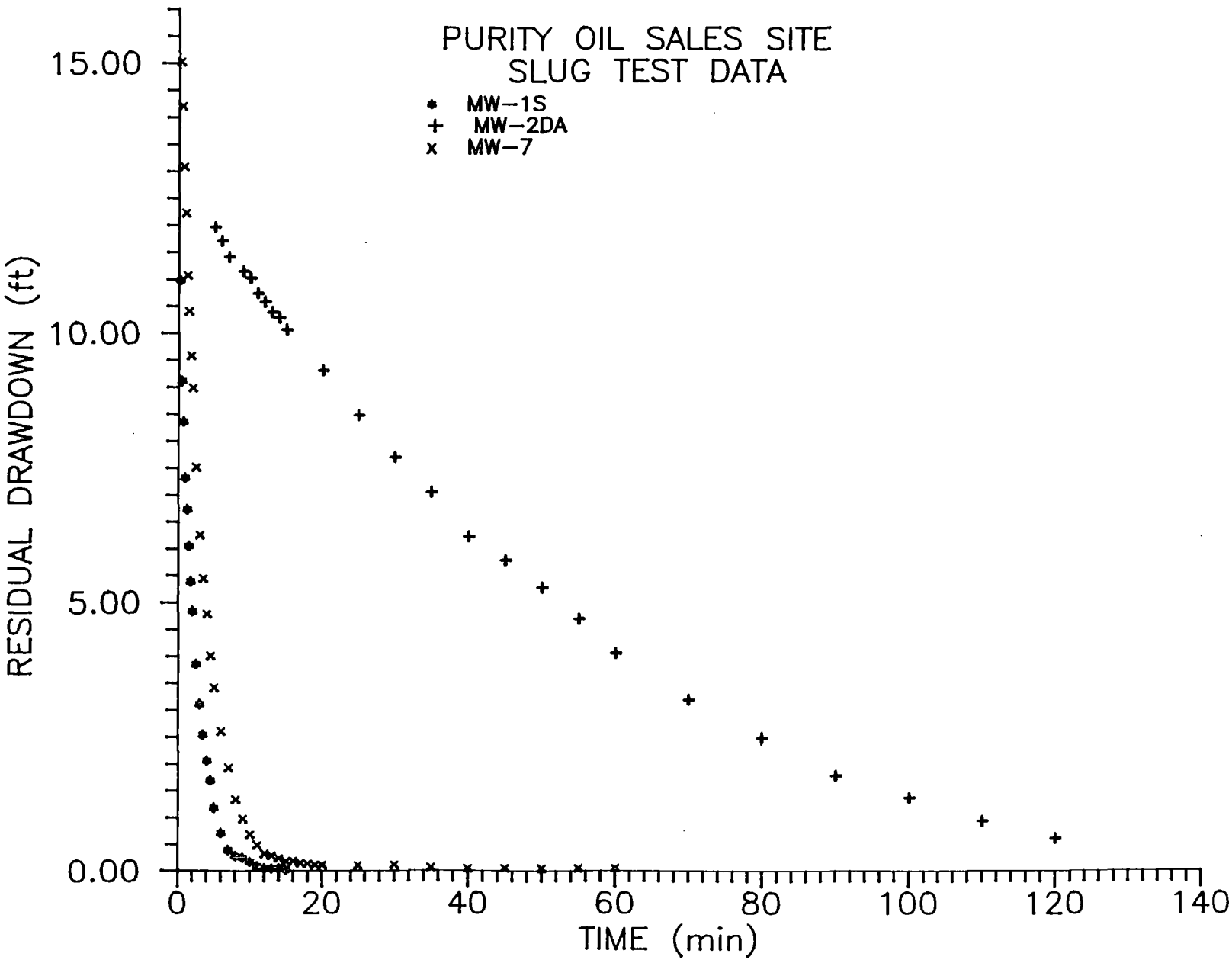

PURITY OIL SALES SITE
SLUG TEST DATA
MW-1S
MW-7
RESIDUAL DRAWDOWN (ft)
15.00
10.00
5.00
0.00
0
1
2
3
4
TIME (min)


PURITY OIL SALES SITE
SLUG TEST DATA
MW-2DA
RESIDUAL DRAWDOWN (ft)
12.00
11.00
10.00
9.00
8.00
0
5
10
15
20
25
TIME (min)


PURITY OIL SALES SITE
SLUG TEST DATA
* MW-2SB
+ MW-3
x MW-6
RESIDUAL DRAWDOWN (ft)
15.00
10.00
5.00
0.00
0
50
100
150
200
250
TIME (min)


PURITY OIL SALES SITE
SLUG TEST DATA
MW-2DB
RESIDUAL DRAWDOWN (ft)
90.00
70.00
50.00
30.00
0
50
100
150
200
250
TIME (min)


PURITY OIL SALES SITE
SLUG TEST DATA
MW-2SA
RESIDUAL DRAWDOWN (ft)
18.00
16.00
14.00
12.00
10.00
0
2
4
6
8
10
TIME (min)


PURITY OIL SALES SITE
SLUG TEST DATA
MW-1S
MW-2DA
MW-7
RESIDUAL DRAWDOWN (ft)
15.00
10.00
5.00
0.00
0
20
40
60
80
100
120
140
TIME (min)

INDIVIDUAL PUMP TEST DRAWDOWN AND RECOVERY DATA

FLOW MONITOR DATA
SITE NAME: PURITY OIL SALES SITE TEST: 24-HOUR PUMPING TEST
PUMPED WELL: W-1D FILE NAME: PUMPW1D
DISTANCE FROM PUMPED WELL (ft): .3
AVE PUMPING RATE (gpm): 52.1
PUMP ON: date: 2-10-88 time: 14:00
PUMP OFF: date: 2-11-88 time: 14:45

TIME (min)	ELAPSED TIME (min)	DELTA TIME (min)	GALLONS PUMPED	GPM	EC micromhos	pH	TEMP (celsius)	COMMENTS
14:00	0.0	0.0	16996.2					
14:06	6.0	6.0	17318.0	53.63				
14:24	24.0	18.0	18256.0	52.11				
14:30	30.0	6.0			690	7.3	23.0	
14:46	46.0	16.0	19409.5	52.43	650	7.5	21.0	
15:00	60.0	14.0	20209.4	57.14	680	6.9	22.0	
15:25	85.0	25.0	21457.5	49.92	680	6.9	22.0	
16:36	156.0	71.0	25187.3	52.53	610	6.9	20.0	
16:44	164.0	8.0	25617.2	53.74	610	6.9	20.0	
19:06	306.0	142.0	33011.6	52.07				
21:25	445.0	139.0	40291.0	52.37	520	7.1	19.0	
22:44	524.0	79.0	44447.0	52.61	490	7.0	17.0	
23:51	591.0	67.0	47796.0	49.99	510	7.1	17.0	
1:01	661.0	70.0	51596.0	54.29	500	7.2	17.0	
2:33	753.0	92.0	56387.0	52.08	580	7.2	18.0	
3:37	817.0	64.0	59721.0	52.09				
6:43	1003.0	186.0	69427.1	52.18				
8:20	1100.0	97.0	74746.8	54.84				
10:21	1221.0	121.0	80801.2	50.04	600	7.2	19.5	
11:53	1313.0	92.0	85620.0	52.38	620	7.0	22.0	
14:05	1445.0	132.0	92330.0	50.83	620	7.1	22.0	
14:45	1485.0	40.0	94396.5	51.66				PUMP OFF

24-HOUR PUMPING TEST - DRAWDOWN DATA
SITE NAME: PURITY OIL SALES SITE FILE NAME: BLUE
MONITORING WELL: MW-6 PUMPED WELL: W-1D
DISTANCE FROM PUMPED WELL (ft): .3
AVERAGE DISCHARGE (gpm):52.1 STATIC DEPTH TO WATER (ft): 43.03
PUMP ON: date: 2-10-88 time: 14:00
PUMP OFF: date: 2-11-88 time: 14:45
MEASURING POINT FOR WATER LEVELS: Top of Sanitary Seal

ELAPSED TIME (t) (minutes)	DRAWDOWN (s) (feet)	DEPTH TO WATER (feet)	COMMENTS
0.0	0.00	43.03	PUMP ON
842.0	0.00	43.03	
1318.0	0.17	43.20	

24-HOUR PUMPING TEST - RECOVERY DATA
SITE NAME: PURITY OIL SALES SITE FILE NAME: BLUE
MONITORING WELL: MW-6 PUMPED WELL: W-1D
DISTANCE FROM PUMPED WELL (ft): .3
AVERAGE DISCHARGE (gpm): 52.1 STATIC DEPTH TO WATER (ft): 43.03
PUMP ON: date: 2-10-88 time: 14:00
PUMP OFF: date: 2-11-88 time: 14:45
MEASURING POINT FOR WATER LEVELS: Top of Sanitary Seal

ELAPSED TIME (t) (min)	RECOVERY TIME (t') (min)	(t/t') (min/min)	RESIDUAL DRAWDOWN (s) (feet)	DEPTH TO WATER (feet)
1485.0	0			PUMP OFF
2756.0	1271.0	2.2	0.16	43.19

24-HOUR PUMPING TEST - DRAWDOWN DATA
SITE NAME: PURITY OIL SALES SITE FILE NAME: DW6
MONITORING WELL: W-6 PUMPED WELL: W-1D
DISTANCE FROM PUMPED WELL (ft): .3
AVERAGE DISCHARGE (gpm):52.1 STATIC DEPTH TO WATER (ft): 42.94
PUMP ON: date: 2-10-88 time: 14:00
PUMP OFF: date: 2-11-88 time: 14:45
MEASURING POINT FOR WATER LEVELS: Top of Sanitary Seal

ELAPSED TIME (t) (minutes)	DRAWDOWN (s) (feet)	DEPTH TO WATER (feet)	COMMENTS
0.0	0.00	42.94	PUMP ON
839.0	0.00	42.94	
1310.0	-0.13	42.81	

24-HOUR PUMPING TEST - RECOVERY DATA
SITE NAME: PURITY OIL SALES SITE FILE NAME: DW6
MONITORING WELL: W-6 PUMPED WELL: W-1D
DISTANCE FROM PUMPED WELL (ft): .3
AVERAGE DISCHARGE (gpm): 52.1 STATIC DEPTH TO WATER (ft): 42.94
PUMP ON: date: 2-10-88 time: 14:00
PUMP OFF: date: 2-11-88 time: 14:45
MEASURING POINT FOR WATER LEVELS: Top of Sanitary Seal

ELAPSED TIME (t) (min)	RECOVERY TIME (t') (min)	(t/t') (min/min)	RESIDUAL DRAWDOWN (s) (feet)	DEPTH TO WATER (feet)
1485.0	0			PUMP OFF
2753.0	1268.0	2.2	0.00	42.94

24-HOUR PUMPING TEST - DRAWDOWN DATA
SITE NAME: PURITY OIL SALES SITE FILE NAME: DW7
MONITORING WELL: W-7 PUMPED WELL: W-1D
DISTANCE FROM PUMPED WELL (ft): .3
AVERAGE DISCHARGE (gpm):52.1 STATIC DEPTH TO WATER (ft): 42.92
PUMP ON: date: 2-10-88 time: 14:00
PUMP OFF: date: 2-11-88 time: 14:45
MEASURING POINT FOR WATER LEVELS: Top of Sanitary Seal

ELAPSED TIME (t) (minutes)	DRAWDOWN (s) (feet)	DEPTH TO WATER (feet)	COMMENTS
0.0	0.00	42.92	PUMP ON
847.0	0.00	42.92	
1324.0	0.05	42.97	

24-HOUR PUMPING TEST - RECOVERY DATA
SITE NAME: PURITY OIL SALES SITE FILE NAME: DW7
MONITORING WELL: W-7 PUMPED WELL: W-1D
DISTANCE FROM PUMPED WELL (ft): .3
AVERAGE DISCHARGE (gpm): 52.1 STATIC DEPTH TO WATER (ft): 42.92
PUMP ON: date: 2-10-88 time: 14:00
PUMP OFF: date: 2-11-88 time: 14:45
MEASURING POINT FOR WATER LEVELS: Top of Sanitary Seal

ELAPSED TIME (t) (min)	RECOVERY TIME (t') (min)	(t/t') (min/min)	RESIDUAL DRAWDOWN (s) (feet)	DEPTH TO WATER (feet)
1485.0	0			PUMP OFF
2762.0	1277.0	2.2	0.07	42.99

24-HOUR PUMPING TEST - DRAWDOWN DATA
SITE NAME: PURITY OIL SALES SITE FILE NAME: DMW1D
MONITORING WELL: MW-1D PUMPED WELL: W-1D
DISTANCE FROM PUMPED WELL (ft): .3
AVERAGE DISCHARGE (gpm):52.1 STATIC DEPTH TO WATER (ft): 39.88
PUMP ON: date: 2-10-88 time: 14:00
PUMP OFF: date: 2-11-88 time: 14:45
MEASURING POINT FOR WATER LEVELS: Top of Sanitary Seal

ELAPSED TIME (t) (minutes)	DRAWDOWN (s) (feet)	DEPTH TO WATER (feet)	COMMENTS
0.0	0.00	39.88	PUMP ON
65.0	0.00	39.88	
800.0	0.06	39.94	
1049.0	0.08	39.96	
1115.0	0.09	39.97	

24-HOUR PUMPING TEST - RECOVERY DATA
SITE NAME: PURITY OIL SALES SITE FILE NAME: DMW1D
MONITORING WELL: MW-1D PUMPED WELL: W-1D
DISTANCE FROM PUMPED WELL (ft): .3
AVERAGE DISCHARGE (gpm): 52.1 STATIC DEPTH TO WATER (ft): 39.88
PUMP ON: date: 2-10-88 time: 14:00
PUMP OFF: date: 2-11-88 time: 14:45
MEASURING POINT FOR WATER LEVELS: Top of Sanitary Seal

ELAPSED TIME (t) (min)	RECOVERY TIME (t') (min)	(t/t') (min/min)	RESIDUAL DRAWDOWN (s) (feet)	DEPTH TO WATER (feet)
1485.0	0			PUMP OFF
1624.0	139.0	11.7	0.03	39.91
2599.0	1114.0	2.3	0.03	39.91
3072.0	1587.0	1.9	0.00	39.88

24-HOUR PUMPING TEST - DRAWDOWN DATA
SITE NAME: PURITY OIL SALES SITE FILE NAME: DMW1S
MONITORING WELL: MW-1S PUMPED WELL: W-1D
DISTANCE FROM PUMPED WELL (ft): .3
AVERAGE DISCHARGE (gpm):52.1 STATIC DEPTH TO WATER (ft): 39.22
PUMP ON: date: 2-10-88 time: 14:00
PUMP OFF: date: 2-11-88 time: 14:45
MEASURING POINT FOR WATER LEVELS: Top of Sanitary Seal

ELAPSED TIME (t) (minutes)	DRAWDOWN (s) (feet)	DEPTH TO WATER (feet)	COMMENTS
0.0	0.00	39.22	PUMP ON
68.0	0.00	39.22	
804.0	0.14	39.36	
1047.0	0.16	39.38	
1117.0	0.18	39.40	

24-HOUR PUMPING TEST - RECOVERY DATA
SITE NAME: PURITY OIL SALES SITE FILE NAME: DMW1S
MONITORING WELL: MW-1S PUMPED WELL: W-1D
DISTANCE FROM PUMPED WELL (ft): .3
AVERAGE DISCHARGE (gpm): 52.1 STATIC DEPTH TO WATER (ft): 39.22
PUMP ON: date: 2-10-88 time: 14:00
PUMP OFF: date: 2-11-88 time: 14:45
MEASURING POINT FOR WATER LEVELS: Top of Sanitary Seal

ELAPSED TIME (t) (min)	RECOVERY TIME (t') (min)	(t/t') (min/min)	RESIDUAL DRAWDOWN (s) (feet)	DEPTH TO WATER (feet)
1485.0	0			PUMP OFF
1622.0	137.0	11.8	0.13	39.35
2602.0	1117.0	2.3	0.13	39.35
3074.0	1589.0	1.9	0.10	39.32

24-HOUR PUMPING TEST - DRAWDOWN DATA
SITE NAME: PURITY OIL SALES SITE FILE NAME: EPA
MONITORING WELL: EPA-4 PUMPED WELL: W-1D
DISTANCE FROM PUMPED WELL (ft): .3
AVERAGE DISCHARGE (gpm):52.1 STATIC DEPTH TO WATER (ft): 42.56
PUMP ON: date: 2-10-88 time: 14:00
PUMP OFF: date: 2-11-88 time: 14:45
MEASURING POINT FOR WATER LEVELS: Top of Sanitary Seal

ELAPSED TIME (t) (minutes)	DRAWDOWN (s) (feet)	DEPTH TO WATER (feet)	COMMENTS
0.0	0.00	42.56	PUMP ON
804.0	0.00	42.56	
1295.0	0.08	42.64	

24-HOUR PUMPING TEST - RECOVERY DATA
SITE NAME: PURITY OIL SALES SITE FILE NAME: EPA
MONITORING WELL: EPA-4 PUMPED WELL: W-1D
DISTANCE FROM PUMPED WELL (ft): .3
AVERAGE DISCHARGE (gpm): 52.1 STATIC DEPTH TO WATER (ft): 42.56
PUMP ON: date: 2-10-88 time: 14:00
PUMP OFF: date: 2-11-88 time: 14:45
MEASURING POINT FOR WATER LEVELS: Top of Sanitary Seal

ELAPSED TIME (t) (min)	RECOVERY TIME (t') (min)	(t/t') (min/min)	RESIDUAL DRAWDOWN (s) (feet)	DEPTH TO WATER (feet)
1485.0	0			PUMP OFF
2616.0	1131.0	2.3	-0.01	42.55

24-HOUR PUMPING TEST - DRAWDOWN DATA
SITE NAME: PURITY OIL SALES SITE FILE NAME: DW9
MONITORING WELL: W-9 PUMPED WELL: W-1D
DISTANCE FROM PUMPED WELL (ft): .3
AVERAGE DISCHARGE (gpm):52.1 STATIC DEPTH TO WATER (ft): 42.89
PUMP ON: date: 2-10-88 time: 14:00
PUMP OFF: date: 2-11-88 time: 14:45
MEASURING POINT FOR WATER LEVELS: Top of Sanitary Seal

ELAPSED TIME (t) (minutes)	DRAWDOWN (s) (feet)	DEPTH TO WATER (feet)	COMMENTS
0.0	0.00	42.89	PUMP ON
811.0	0.00	42.89	
1290.0	0.01	42.90	

24-HOUR PUMPING TEST - RECOVERY DATA
SITE NAME: PURITY OIL SALES SITE FILE NAME: DW9
MONITORING WELL: W-9 PUMPED WELL: W-1D
DISTANCE FROM PUMPED WELL (ft): .3
AVERAGE DISCHARGE (gpm): 52.1 STATIC DEPTH TO WATER (ft): 42.89
PUMP ON: date: 2-10-88 time: 14:00
PUMP OFF: date: 2-11-88 time: 14:45
MEASURING POINT FOR WATER LEVELS: Top of Sanitary Seal

ELAPSED TIME (t) (min)	RECOVERY TIME (t') (min)	(t/t') (min/min)	RESIDUAL DRAWDOWN (s) (feet)	DEPTH TO WATER (feet)
1485.0	0			PUMP OFF
2611.0	1126.0	2.3	-0.01	42.88

24-HOUR PUMPING TEST - DRAWDOWN DATA
SITE NAME: PURITY OIL SALES SITE FILE NAME: EPA2
MONITORING WELL: EPA2 PUMPED WELL: W-1D
DISTANCE FROM PUMPED WELL (ft): .3
AVERAGE DISCHARGE (gpm):52.1 STATIC DEPTH TO WATER (ft): 42.20
PUMP ON: date: 2-10-88 time: 14:00
PUMP OFF: date: 2-11-88 time: 14:45
MEASURING POINT FOR WATER LEVELS: Top of Sanitary Seal

ELAPSED TIME (t) (minutes)	DRAWDOWN (s) (feet)	DEPTH TO WATER (feet)	COMMENTS
0.0	0.00	42.20	PUMP ON
37.0	0.00	42.20	
51.0	0.00	42.20	
57.0	0.01	42.21	
78.0	0.03	42.23	
94.0	0.04	42.24	
113.0	0.04	42.24	
128.0	0.04	42.24	
166.0	0.05	42.25	
218.0	0.07	42.27	
296.0	0.08	42.28	
377.0	0.09	42.29	
459.0	0.10	42.30	
534.0	0.10	42.30	
793.0	0.12	42.32	
1005.0	0.15	42.35	
1108.0	0.16	42.36	
1173.0	0.15	42.35	
1217.0	0.15	42.35	
1438.0	0.12	42.32	

24-HOUR PUMPING TEST - RECOVERY DATA

SITE NAME: PURITY OIL SALES SITE FILE NAME: EPA2

MONITORING WELL: EPA-2 PUMPED WELL: W-1D

DISTANCE FROM PUMPED WELL (ft): .3

AVERAGE DISCHARGE (gpm): 32.1 STATIC DEPTH TO WATER (ft): 42.20

PUMP ON: date: 2-10-88 time: 14:00

PUMP OFF: date: 2-11-88 time: 14:45

MEASURING POINT FOR WATER LEVELS: Top of Sanitary Seal

ELAPSED TIME (t) (min)	RECOVERY TIME (t') (min)	(t/t') (min/min)	RESIDUAL DRAWDOWN (s) (feet)	DEPTH TO WATER (feet)
1485.0	0			PUMP OFF
1498.0	13.0	115.2	0.12	42.32
1509.0	24.0	62.9	0.12	42.32
1523.0	38.0	40.1	0.11	42.31
1542.0	57.0	27.1	0.10	42.30
1563.0	78.0	20.0	0.10	42.30
1593.0	108.0	14.8	0.10	42.30
1694.0	209.0	8.1	0.09	42.29
2026.0	541.0	3.7	0.09	42.29
2567.0	1082.0	2.4	0.07	42.27
2944.0	1459.0	2.0	0.01	42.21

24-HOUR PUMPING TEST - DRAWDOWN DATA
SITE NAME: PURITY OIL SALES SITE FILE NAME: EPA1
MONITORING WELL: EPA-1 PUMPED WELL: W-1D
DISTANCE FROM PUMPED WELL (ft): .3
AVERAGE DISCHARGE (gpm):52.1 STATIC DEPTH TO WATER (ft): 43.04
PUMP ON: date: 2-10-88 time: 14:00
PUMP OFF: date: 2-11-88 time: 14:45
MEASURING POINT FOR WATER LEVELS: Top of Sanitary Seal

ELAPSED TIME (t) (minutes)	DRAWDOWN (s) (feet)	DEPTH TO WATER (feet)	COMMENTS
0.0	0.00	43.04	PUMP ON
26.0	0.00	43.04	
28.0	-0.04	43.00	
30.0	-0.04	43.00	
107.0	-0.04	43.00	
131.0	-0.04	43.00	
203.0	0.03	43.07	
338.0	0.03	43.07	
394.0	0.06	43.10	
473.0	0.06	43.10	
548.0	0.06	43.10	
677.0	0.06	43.10	
727.0	0.07	43.11	
1019.0	0.12	43.16	
1129.0	0.14	43.18	
1184.0	0.13	43.17	
1434.0	0.06	43.10	

24-HOUR PUMPING TEST - RECOVERY DATA
SITE NAME: PURITY OIL SALES SITE FILE NAME: EPA1
MONITORING WELL: EPA-1 PUMPED WELL: W-1D
DISTANCE FROM PUMPED WELL (ft): .3
AVERAGE DISCHARGE (gpm): 52.1 STATIC DEPTH TO WATER (ft): 43.04
PUMP ON: date: 2-10-88 time: 14:00
PUMP OFF: date: 2-11-88 time: 14:45
MEASURING POINT FOR WATER LEVELS: Top of Sanitary Seal

ELAPSED TIME (t) (min)	RECOVERY TIME (t') (min)	(t/t') (min/min)	RESIDUAL DRAWDOWN (s) (feet)	DEPTH TO WATER (feet)
1485.0	0			PUMP OFF
1505.0	20.0	75.3	0.08	43.12
1540.0	55.0	28.0	0.07	43.11
1614.0	129.0	12.5	0.08	43.12
1711.0	226.0	7.6	0.06	43.10
2012.0	527.0	3.8	0.06	43.10
2593.0	1108.0	2.3	0.06	43.10
3030.0	1545.0	2.0	0.01	43.05

24-HOUR PUMPING TEST - DRAWDOWN DATA
SITE NAME: PURITY OIL SALES SITE FILE NAME: DMW5
MONITORING WELL: MW-5 PUMPED WELL: W-1D
DISTANCE FROM PUMPED WELL (ft): .3
AVERAGE DISCHARGE (gpm):52.1 STATIC DEPTH TO WATER (ft): 43.05
PUMP ON: date: 2-10-88 time: 14:00
PUMP OFF: date: 2-11-88 time: 14:45
MEASURING POINT FOR WATER LEVELS: Top of Sanitary Seal

ELAPSED TIME (t) (minutes)	DRAWDOWN (s) (feet)	DEPTH TO WATER (feet)	COMMENTS
0.0	0.00	43.05	PUMP ON
18.0	-0.05	43.00	
21.0	-0.05	43.00	
45.0	-0.05	43.00	
102.0	0.05	43.10	
135.0	0.08	43.13	
194.0	0.22	43.27	
328.0	0.57	43.62	
388.0	0.31	43.36	
466.0	0.33	43.38	
543.0	0.35	43.40	
670.0	0.37	43.42	
733.0	0.38	43.43	
1014.0	0.43	43.48	
1124.0	0.46	43.51	
1180.0	0.46	43.51	
1430.0	0.40	43.45	
1479.0	0.40	43.45	PUMP OFF

24-HOUR PUMPING TEST - RECOVERY DATA
SITE NAME: PURITY OIL SALES SITE FILE NAME: DMW5
MONITORING WELL: MW-5 PUMPED WELL: W-1D
DISTANCE FROM PUMPED WELL (ft): .3
AVERAGE DISCHARGE (gpm): 52.1 STATIC DEPTH TO WATER (ft): 43.05
PUMP ON: date: 2-10-88 time: 14:00
PUMP OFF: date: 2-11-88 time: 14:45
MEASURING POINT FOR WATER LEVELS: Top of Sanitary Seal

ELAPSED TIME (t) (min)	RECOVERY TIME (t') (min)	(t/t') (min/min)	RESIDUAL DRAWDOWN (s) (feet)	DEPTH TO WATER (feet)
1485.0	0			PUMP OFF
1487.5	2.5	595.0	0.40	43.45
1489.5	4.5	331.0	0.39	43.44
1494.5	9.5	157.3	0.38	43.43
1501.0	16.0	93.8	0.38	43.43
1512.0	27.0	56.0	0.35	43.40
1517.0	32.0	47.4	0.34	43.39
1525.0	40.0	38.1	0.33	43.38
1531.0	46.0	33.3	0.32	43.37
1546.0	61.0	25.3	0.30	43.35
1554.0	69.0	22.5	0.30	43.35
1608.0	123.0	13.1	0.25	43.30
1715.0	230.0	7.5	0.20	43.25
2016.0	531.0	3.8	0.14	43.19
2588.0	1103.0	2.3	0.09	43.14
3022.0	1537.0	2.0	0.03	43.08

24-HOUR PUMPING TEST - DRAWDOWN DATA
SITE NAME: PURITY OIL SALES SITE FILE NAME: DW5
MONITORING WELL: W-5 PUMPED WELL: W-10
DISTANCE FROM PUMPED WELL (ft): .3
AVERAGE DISCHARGE (gpm):52.1 STATIC DEPTH TO WATER (ft): 43.12
PUMP ON: date: 2-10-88 time: 14:00
PUMP OFF: date: 2-11-88 time: 14:45
MEASURING POINT FOR WATER LEVELS: Top of Sanitary Seal

ELAPSED TIME (t) (minutes)	DRAWDOWN (s) (feet)	DEPTH TO WATER (feet)	COMMENTS
0.0	0.00	43.12	PUMP ON
15.0	0.10	43.22	
20.0	0.13	43.25	
34.0	0.17	43.29	
39.0	0.18	43.30	
41.0	0.16	43.28	
77.0	0.24	43.36	
101.0	0.25	43.37	
198.0	0.31	43.43	
323.0	0.37	43.49	
386.0	0.38	43.50	
469.0	0.39	43.51	
541.0	0.40	43.52	
673.0	0.41	43.53	
734.0	0.43	43.55	
1017.0	0.47	43.59	
1126.0	0.49	43.61	
1182.0	0.50	43.62	
1428.0	0.44	43.56	
1478.0	0.44	43.56	PUMP OFF

24-HOUR PUMPING TEST - RECOVERY DATA
SITE NAME: PURITY OIL SALES SITE FILE NAME: PSMW1D
MONITORING WELL: W-5 PUMPED WELL: W-1D
DISTANCE FROM PUMPED WELL (ft): .5
AVERAGE DISCHARGE (gpm): 52.1 STATIC DEPTH TO WATER (ft): 43.12
PUMP ON: date: 2-10-88 time: 14:00
PUMP OFF: date: 2-11-88 time: 14:45
MEASURING POINT FOR WATER LEVELS: Top of Sanitary Seal

ELAPSED TIME (t) (min)	RECOVERY TIME (t') (min)	(t/t') (min/min)	RESIDUAL DRAWDOWN (s) (feet)	DEPTH TO WATER (feet)
1485.00	0.00			PUMP OFF
1485.75	0.75	1981.0	0.43	43.55
1486.50	1.50	991.0	0.38	43.50
1490.75	5.75	259.3	0.34	43.46
1493.50	8.50	175.7	0.33	43.45
1500.00	15.00	100.0	0.30	43.42
1511.00	26.00	58.1	0.30	43.42
1514.00	29.00	52.2	0.29	43.41
1518.00	33.00	46.0	0.29	43.41
1523.00	38.00	40.1	0.28	43.40
1532.00	47.00	32.6	0.27	43.39
1544.00	59.00	26.2	0.25	43.37
1555.00	70.00	22.2	0.23	43.35
1610.00	125.00	12.9	0.22	43.34
1716.00	231.00	7.4	0.18	43.30
2018.00	533.00	3.8	0.12	43.24
2587.00	1102.00	2.3	0.09	43.21
3020.00	1535.00	2.0	0.02	43.14

24-HOUR PUMPING TEST - DRAWDOWN DATA
SITE NAME: PURITY OIL SALES SITE FILE NAME: DW1S
MONITORING WELL: W-1S PUMPED WELL: W-1D
DISTANCE FROM PUMPED WELL (ft): .3
AVERAGE DISCHARGE (gpm):52.1 STATIC DEPTH TO WATER (ft): 45.79
PUMP ON: date: 2-10-88 time: 14:00
PUMP OFF: date: 2-11-88 time: 14:45
MEASURING POINT FOR WATER LEVELS: Top of Sanitary Seal

ELAPSED TIME (t) (minutes)	DRAWDOWN (s) (feet)	DEPTH TO WATER (feet)	COMMENTS
0.00	0.00	45.79	PUMP ON
1.00	0.09	45.88	
1.25	0.21	46.00	
1.75	0.29	46.08	
2.25	0.35	46.14	
2.75	0.40	46.19	
3.25	0.43	46.22	
4.00	0.48	46.27	
5.00	0.52	46.31	
6.00	0.56	46.35	
7.00	0.57	46.36	
10.00	0.61	46.40	
12.00	0.62	46.41	
14.00	0.64	46.43	
17.00	0.67	46.46	
19.00	0.68	46.47	
21.00	0.70	46.49	
26.00	0.74	46.53	
33.00	0.79	46.58	
40.00	0.83	46.62	
51.00	0.88	46.67	
60.00	0.92	46.71	
74.00	0.98	46.77	
80.00	0.99	46.78	
90.00	1.01	46.80	
103.00	1.05	46.84	
116.00	1.08	46.87	
143.00	1.13	46.92	
163.00	1.15	46.94	
214.00	1.21	47.00	
240.00	1.25	47.04	
256.00	1.26	47.05	
292.00	1.26	47.05	
317.00	1.27	47.06	
371.00	1.30	47.09	
413.00	1.34	47.13	
454.00	1.35	47.14	
497.00	1.36	47.15	
531.00	1.37	47.16	
588.00	1.39	47.18	
765.00	1.39	47.18	
748.00	1.41	47.20	
812.00	1.41	47.20	

960.00	1.44	47.23
1025.00	1.48	47.27
1077.00	1.51	47.30
1147.00	1.51	47.3
1204.00	1.50	47.29
1228.00	1.49	47.28
1319.00	1.49	47.28
1438.00	1.43	47.22
1478.00	1.44	47.23

24-HOUR PUMPING TEST - RECOVERY DATA
SITE NAME: PURITY OIL SALES SITE FILE NAME: DW1S
MONITORING WELL: W-1S PUMPED WELL: W-1D
DISTANCE FROM PUMPED WELL (ft): .3
AVERAGE DISCHARGE (gpm): 52.1 STATIC DEPTH TO WATER (ft): 45.79
PUMP ON: date: 2-10-88 time: 14:00
PUMP OFF: date: 2-11-88 time: 14:45
MEASURING POINT FOR WATER LEVELS: Top of Sanitary Seal

ELAPSED TIME (t) (min)	RECOVERY TIME (t') (min)	(t/t') (min/min)	RESIDUAL DRAWDOWN (s) (feet)	DEPTH TO WATER (feet)
1485.00	0.00			PUMP OFF
1486.50	1.50	991.0	1.16	46.95
1487.00	2.00	743.5	0.96	46.75
1490.00	5.00	298.0	0.90	46.69
1491.00	6.00	248.5	0.86	46.65
1493.00	8.00	186.6	0.81	46.60
1495.00	10.00	149.5	0.79	46.58
1497.00	12.00	124.8	0.76	46.55
1498.00	13.00	115.2	0.74	46.53
1502.00	17.00	88.4	0.73	46.52
1505.00	20.00	75.3	0.70	46.49
1513.00	28.00	54.0	0.66	46.45
1517.00	32.00	47.4	0.63	46.42
1528.00	43.00	35.5	0.58	46.37
1537.00	52.00	29.6	0.55	46.34
1559.00	74.00	21.1	0.45	46.24
1588.00	103.00	15.4	0.39	46.18
1675.00	190.00	8.8	0.26	46.05
2031.00	546.00	3.7	0.12	45.91
2537.00	1052.00	2.4	0.06	45.85
2753.00	1268.00	2.2	0.02	45.81
2899.00	1414.00	2.1	-0.02	45.77

24-HOUR PUMPING TEST - DRAWDOWN DATA
SITE NAME: PURITY OIL SALES SITE FILE NAME: DMW2D
MONITORING WELL: MW-2D PUMPED WELL: W-1D
DISTANCE FROM PUMPED WELL (ft): .3
AVERAGE DISCHARGE (gpm):52.1 STATIC DEPTH TO WATER (ft): 48.68
PUMP ON: date: 2-10-88 time: 14:00
PUMP OFF: date: 2-11-88 time: 14:45
MEASURING POINT FOR WATER LEVELS: Top of Sanitary Seal

ELAPSED TIME (t) (minutes)	DRAWDOWN (s) (feet)	DEPTH TO WATER (feet)	COMMENTS
0.0	0.00	48.68	PUMP ON
7.0	-0.01	48.67	
18.0	0.01	48.69	
63.0	0.04	48.72	
103.0	0.06	48.74	
128.0	0.06	48.74	
174.0	0.08	48.76	
217.0	0.09	48.77	
259.0	0.09	48.77	
294.0	0.09	48.77	
321.0	0.09	48.77	
365.0	0.09	48.77	
417.0	0.10	48.78	
442.0	0.09	48.77	
501.0	0.11	48.79	
595.0	0.11	48.79	
656.0	0.11	48.79	
762.0	0.12	48.80	
822.0	0.12	48.80	
975.0	0.14	48.82	
1032.0	0.15	48.83	
1082.0	0.16	48.84	
1151.0	0.17	48.85	
1206.0	0.16	48.84	
1238.0	0.16	48.84	
1310.0	0.15	48.83	
1442.0	0.12	48.80	
1480.0	0.12	48.80	

24-HOUR PUMPING TEST - RECOVERY DATA
SITE NAME: PURITY OIL SALES SITE FILE NAME: DMW2D
MONITORING WELL: MW-2D PUMPED WELL: W-1D
DISTANCE FROM PUMPED WELL (ft): .7
AVERAGE DISCHARGE (gpm): 52.1 STATIC DEPTH TO WATER (ft): 48.68
PUMP ON: date: 2-10-88 time: 14:00
PUMP OFF: date: 2-11-88 time: 14:45
MEASURING POINT FOR WATER LEVELS: Top of Sanitary Seal

ELAPSED TIME (t) (min)	RECOVERY TIME (t') (min)	(t/t') (min/min)	RESIDUAL DRAWDOWN (s) (feet)	DEPTH TO WATER (feet)
1485.0	0			PUMP OFF
1488.0	3.0	496.0	0.12	48.80
1497.0	12.0	124.8	0.09	48.77
1504.0	19.0	79.2	0.07	48.75
1509.0	24.0	62.9	0.06	48.74
1514.0	29.0	52.2	0.06	48.74
1528.0	43.0	35.5	0.05	48.73
1544.0	59.0	26.2	0.05	48.73
1560.0	75.0	20.8	0.04	48.72
1591.0	106.0	15.0	0.04	48.72
1681.0	196.0	8.6	0.03	48.71
2035.0	550.0	3.7	0.02	48.70
2542.0	1057.0	2.4	0.02	48.70
2753.0	1268.0	2.2	-0.01	48.67
2902.0	1417.0	2.0	-0.04	48.64

24-HOUR PUMPING TEST - DRAWDOWN DATA
SITE NAME: PURITY OIL SALES SITE FILE NAME: DW2D
MONITORING WELL: W-2D PUMPED WELL: W-1D
DISTANCE FROM PUMPED WELL (ft): .3
AVERAGE DISCHARGE (gpm):52.1 STATIC DEPTH TO WATER (ft): 49.01
PUMP ON: date: 2-10-88 time: 14:00
PUMP OFF: date: 2-11-88 time: 14:45
MEASURING POINT FOR WATER LEVELS: Top of Sanitary Seal

ELAPSED TIME (t) (minutes)	DRAWDOWN (s) (feet)	DEPTH TO WATER (feet)	COMMENTS
0.0	0.00	49.01	PUMP ON
11.0	-0.03	48.98	
20.0	-0.02	48.99	
76.0	0.02	49.03	
107.0	0.02	49.03	
130.0	0.03	49.04	
176.0	0.04	49.05	
220.0	0.05	49.06	
262.0	0.07	49.08	
298.0	0.07	49.08	
360.0	0.07	49.08	
421.0	0.09	49.10	
437.0	0.09	49.10	
506.0	0.09	49.10	
599.0	0.09	49.10	
767.0	0.11	49.12	
981.0	0.12	49.13	
1087.0	0.15	49.16	
1153.0	0.15	49.16	
1211.0	0.14	49.15	
1325.0	0.17	49.18	
1444.0	0.10	49.11	

24-HOUR PUMPING TEST - RECOVERY DATA
SITE NAME: PURITY OIL SALES SITE FILE NAME: DW2D
MONITORING WELL: W-2D PUMPED WELL: W-1D
DISTANCE FROM PUMPED WELL (ft): .3
AVERAGE DISCHARGE (gpm): 52.1 STATIC DEPTH TO WATER (ft): 49.01
PUMP ON: date: 2-10-88 time: 14:00
PUMP OFF: date: 2-11-88 time: 14:45
MEASURING POINT FOR WATER LEVELS: Top of Sanitary Seal

ELAPSED TIME (t) (min)	RECOVERY TIME (t') (min)	(t/t') (min/min)	RESIDUAL DRAWDOWN (s) (feet)	DEPTH TO WATER (feet)
1485.0	0			PUMP OFF
1489.0	4.0	372.3	0.09	49.10
1506.0	21.0	71.7	0.07	49.08
1517.0	32.0	47.4	0.06	49.07
1531.0	46.0	33.3	0.06	49.07
1567.0	82.0	19.1	0.04	49.05
1593.0	108.0	14.8	0.04	49.05
1685.0	200.0	8.4	0.04	49.05
2039.0	554.0	3.7	0.03	49.04
2545.0	1060.0	2.4	0.02	49.03
2907.0	1422.0	2.0	-0.04	48.97

24-HOUR PUMPING TEST - DRAWDOWN DATA
SITE NAME: PURITY OIL SALES SITE FILE NAME: DW2S
MONITORING WELL: W-2S PUMPED WELL: W-1D
DISTANCE FROM PUMPED WELL (ft): .3
AVERAGE DISCHARGE (gpm):52.1 STATIC DEPTH TO WATER (ft): 49.04
PUMP ON: date: 2-10-88 time: 14:00
PUMP OFF: date: 2-11-88 time: 14:45
MEASURING POINT FOR WATER LEVELS: Top of Sanitary Seal

ELAPSED TIME (t) (minutes)	DRAWDOWN (s) (feet)	DEPTH TO WATER (feet)	COMMENTS
0.0	0.00	49.04	PUMP ON
12.0	-0.04	49.00	
22.0	-0.03	49.01	
77.0	0.00	49.04	
109.0	0.01	49.05	
132.0	0.03	49.07	
177.0	0.04	49.08	
221.0	0.05	49.09	
264.0	0.06	49.10	
299.0	0.06	49.10	
358.0	0.06	49.10	
423.0	0.08	49.12	
438.0	0.08	49.12	
504.0	0.09	49.13	
600.0	0.09	49.13	
769.0	0.10	49.14	
984.0	0.10	49.14	
1088.0	0.14	49.18	
1154.0	0.14	49.18	
1213.0	0.14	49.18	
1323.0	0.11	49.15	
1445.0	0.09	49.13	

24-HOUR PUMPING TEST - RECOVERY DATA
SITE NAME: PURITY OIL SALES SITE FILE NAME: DW2S
MONITORING WELL: W-2S PUMPED WELL: W-1D
DISTANCE FROM PUMPED WELL (ft): .3
AVERAGE DISCHARGE (gpm): 52.1 STATIC DEPTH TO WATER (ft): 49.04
PUMP ON: date: 2-10-88 time: 14:00
PUMP OFF: date: 2-11-88 time: 14:45
MEASURING POINT FOR WATER LEVELS: Top of Sanitary Seal

ELAPSED TIME (t) (min)	RECOVERY TIME (t') (min)	(t/t') (min/min)	RESIDUAL DRAWDOWN (s) (feet)	DEPTH TO WATER (feet)
1485.0	0			PUMP OFF
1491.0	6.0	248.5	0.09	49.13
1507.0	22.0	68.5	0.09	49.13
1518.0	33.0	46.0	0.09	49.13
1534.0	49.0	31.3	0.08	49.12
1569.0	84.0	18.7	0.07	49.11
1595.0	110.0	14.5	0.06	49.10
1684.0	199.0	8.5	0.06	49.10
2038.0	553.0	3.7	0.04	49.08
2547.0	1062.0	2.4	0.04	49.08
2909.0	1424.0	2.0	-0.02	49.02

24-HOUR PUMPING TEST - DRAWDOWN DATA
SITE NAME: PURITY OIL SALES SITE FILE NAME: DMW3
MONITORING WELL: MW-3 PUMPED WELL: W-1D
DISTANCE FROM PUMPED WELL (ft): .3
AVERAGE DISCHARGE (gpm):52.1 STATIC DEPTH TO WATER (ft): 49.19
PUMP ON: date: 2-10-88 time: 14:00
PUMP OFF: date: 2-11-88 time: 14:45
MEASURING POINT FOR WATER LEVELS: Top of Sanitary Seal

ELAPSED TIME (t) (minutes)	DRAWDOWN (s) (feet)	DEPTH TO WATER (feet)	COMMENTS
0.0	0.00	49.19	PUMP ON
135.0	0.03	49.22	
224.0	0.06	49.25	
427.0	0.07	49.26	
772.0	0.03	49.22	
987.0	0.11	49.30	
1093.0	0.14	49.33	
1158.0	0.14	49.33	
1329.0	0.11	49.30	
1447.0	0.08	49.27	

24-HOUR PUMPING TEST - RECOVERY DATA
SITE NAME: PURITY OIL SALES SITE FILE NAME: DMW3
MONITORING WELL: MW-3 PUMPED WELL: W-1D
DISTANCE FROM PUMPED WELL (ft): .3
AVERAGE DISCHARGE (gpm): 52.1 STATIC DEPTH TO WATER (ft): 49.19
PUMP ON: date: 2-10-88 time: 14:00
PUMP OFF: date: 2-11-88 time: 14:45
MEASURING POINT FOR WATER LEVELS: Top of Sanitary Seal

ELAPSED TIME (t) (min)	RECOVERY TIME (t') (min)	(t/t') (min/min)	RESIDUAL DRAWDOWN (s) (feet)	DEPTH TO WATER (feet)
1485.0	0			PUMP OFF
2550.0	1065.0	2.4	0.06	49.25
2914.0	1429.0	2.0	0.01	49.20

24-HOUR PUMPING TEST - DRAWDOWN DATA
SITE NAME: PURITY OIL SALES SITE FILE NAME: DW3S
MONITORING WELL: W-3S PUMPED WELL: W-1D
DISTANCE FROM PUMPED WELL (ft): .3
AVERAGE DISCHARGE (gpm):52.1 STATIC DEPTH TO WATER (ft): 49.77
PUMP ON: date: 2-10-88 time: 14:00
PUMP OFF: date: 2-11-88 time: 14:45
MEASURING POINT FOR WATER LEVELS: Top of Sanitary Seal

ELAPSED TIME (t) (minutes)	DRAWDOWN (s) (feet)	DEPTH TO WATER (feet)	COMMENTS
0.0	0.00	49.77	PUMP ON
137.0	0.01	49.78	
227.0	0.03	49.80	
430.0	0.04	49.81	
775.0	0.05	49.82	
990.0	0.07	49.84	
1096.0	0.09	49.86	
1161.0	0.09	49.86	
1332.0	0.05	49.82	
1450.0	0.03	49.80	

24-HOUR PUMPING TEST - RECOVERY DATA
SITE NAME: PURITY OIL SALES SITE FILE NAME: DW3S
MONITORING WELL: W-3S PUMPED WELL: W-1D
DISTANCE FROM PUMPED WELL (ft): .3
AVERAGE DISCHARGE (gpm): 52.1 STATIC DEPTH TO WATER (ft): 49.77
PUMP ON: date: 2-10-88 time: 14:00
PUMP OFF: date: 2-11-88 time: 14:45
MEASURING POINT FOR WATER LEVELS: Top of Sanitary Seal

ELAPSED TIME (t) (min)	RECOVERY TIME (t') (min)	(t/t') (min/min)	RESIDUAL DRAWDOWN (s) (feet)	DEPTH TO WATER (feet)
1485.0	0			PUMP OFF
2553.0	1068.0	2.4	0.06	49.83
2918.0	1433.0	2.0	0.00	49.77

24-HOUR PUMPING TEST - DRAWDOWN DATA
SITE NAME: PURITY OIL SALES SITE FILE NAME: DW3D
MONITORING WELL: W-3D PUMPED WELL: W-1D
DISTANCE FROM PUMPED WELL (ft): .3
AVERAGE DISCHARGE (gpm):52.1 STATIC DEPTH TO WATER (ft): 49.77
PUMP ON: date: 2-10-88 time: 14:00
PUMP OFF: date: 2-11-88 time: 14:45
MEASURING POINT FOR WATER LEVELS: Top of Sanitary Seal

ELAPSED TIME (t) (minutes)	DRAWDOWN (s) (feet)	DEPTH TO WATER (feet)	COMMENTS
0.0	0.00	49.77	PUMP ON
139.0	0.01	49.78	
228.0	0.03	49.80	
432.0	0.03	49.80	
777.0	0.05	49.82	
991.0	0.07	49.84	
1097.0	0.09	49.86	
1162.0	0.09	49.86	
1334.0	0.06	49.83	
1451.0	0.03	49.80	

24-HOUR PUMPING TEST - RECOVERY DATA
SITE NAME: PURITY OIL SALES SITE FILE NAME: DW3S
MONITORING WELL: W-3D PUMPED WELL: W-1D
DISTANCE FROM PUMPED WELL (ft): .3
AVERAGE DISCHARGE (gpm): 52.1 STATIC DEPTH TO WATER (ft): 49.77
PUMP ON: date: 2-10-88 time: 14:00
PUMP OFF: date: 2-11-88 time: 14:45
MEASURING POINT FOR WATER LEVELS: Top of Sanitary Seal

ELAPSED TIME (t) (min)	RECOVERY TIME (t') (min)	(t/t') (min/min)	RESIDUAL DRAWDOWN (s) (feet)	DEPTH TO WATER (feet)
1485.0	0			PUMP OFF
2554.0	1069.0	2.4	0.05	49.82
2919.0	1434.0	2.0	0.00	49.77

24-HOUR PUMPING TEST - DRAWDOWN DATA
SITE NAME: PURITY OIL SALES SITE FILE NAME: DMW4
MONITORING WELL: MW-4 PUMPED WELL: W-1D
DISTANCE FROM PUMPED WELL (ft): .3
AVERAGE DISCHARGE (gpm):52.1 STATIC DEPTH TO WATER (ft): 49.58
PUMP ON: date: 2-10-88 time: 14:00
PUMP OFF: date: 2-11-88 time: 14:45
MEASURING POINT FOR WATER LEVELS: Top of Sanitary Seal

ELAPSED TIME (t) (minutes)	DRAWDOWN (s) (feet)	DEPTH TO WATER (feet)	COMMENTS
0.0	0.00	49.58	PUMP ON
142.0	0.00	49.58	
232.0	0.01	49.59	
782.0	0.02	49.60	
994.0	0.04	49.62	
1099.0	0.05	49.63	
1165.0	0.05	49.63	
1337.0	0.02	49.60	
1453.0	0.02	49.60	

24-HOUR PUMPING TEST - RECOVERY DATA
SITE NAME: PURITY OIL SALES SITE FILE NAME: DMW4
MONITORING WELL: MW-4 PUMPED WELL: W-1D
DISTANCE FROM PUMPED WELL (ft): .3
AVERAGE DISCHARGE (gpm): 52.1 STATIC DEPTH TO WATER (ft): 49.58
PUMP ON: date: 2-10-88 time: 14:00
PUMP OFF: date: 2-11-88 time: 14:45
MEASURING POINT FOR WATER LEVELS: Top of Sanitary Seal

ELAPSED TIME (t) (min)	RECOVERY TIME (t') (min)	(t/t') (min/min)	RESIDUAL DRAWDOWN (s) (feet)	DEPTH TO WATER (feet)
1485.0	0			PUMP OFF
2557.0	1072.0	2.4	0.03	49.61
2922.0	1437.0	2.0	-0.01	49.57

24-HOUR PUMPING TEST - DRAWDOWN DATA
SITE NAME: PURITY OIL SALES SITE FILE NAME: DMW2S
MONITORING WELL: MW-2S PUMPED WELL: W-1D
DISTANCE FROM PUMPED WELL (ft): .3
AVERAGE DISCHARGE (gpm):52.1 STATIC DEPTH TO WATER (ft): 47.30
PUMP ON: date: 2-10-88 time: 14:00
PUMP OFF: date: 2-11-88 time: 14:45
MEASURING POINT FOR WATER LEVELS: Top of Sanitary Seal

ELAPSED TIME (t) (minutes)	DRAWDOWN (s) (feet)	DEPTH TO WATER (feet)	COMMENTS
0.0	0.00	47.30	PUMP ON
1.0	0.01	47.31	
2.0	0.07	47.37	
3.0	0.15	47.45	
4.0	0.18	47.48	
5.0	0.22	47.52	
15.0	0.42	47.72	
25.0	0.52	47.82	
28.0	0.55	47.85	
54.0	0.72	48.02	
69.0	0.76	48.06	
80.0	0.83	48.13	
90.0	0.86	48.16	
100.0	0.89	48.19	
126.0	0.95	48.25	
172.0	1.04	48.34	
215.0	1.10	48.40	
237.0	1.12	48.42	
258.0	1.13	48.43	
292.0	1.15	48.45	
319.0	1.15	48.45	
369.0	1.18	48.48	
416.0	1.21	48.51	
453.0	1.23	48.53	
498.0	1.24	48.54	
523.0	1.25	48.55	
594.0	1.25	48.55	
654.0	1.26	48.56	
758.0	1.29	48.59	
820.0	1.30	48.60	
976.0	1.32	48.62	
1030.0	1.35	48.65	
1083.0	1.36	48.66	
1149.0	1.39	48.69	
1208.0	1.38	48.68	
1240.0	1.38	48.68	
1308.0	1.36	48.66	
1440.0	1.30	48.60	
1477.0	1.32	48.62	

24-HOUR PUMPING TEST - RECOVERY DATA
SITE NAME: PURITY OIL SALES SITE FILE NAME: DMW2S
MONITORING WELL: MW-2S PUMPED WELL: W-1D
DISTANCE FROM PUMPED WELL (ft): .3
AVERAGE DISCHARGE (gpm): 52.1 STATIC DEPTH TO WATER (ft): 47.3
PUMP ON: date: 2-10-88 time: 14:00
PUMP OFF: date: 2-11-88 time: 14:45
MEASURING POINT FOR WATER LEVELS: Top of Sanitary Seal

ELAPSED TIME (t) (min)	RECOVERY TIME (t') (min)	(t/t') (min/min)	RESIDUAL DRAWDOWN (s) (feet)	DEPTH TO WATER (feet)
1485.0	0			PUMP OFF
1485.5	0.5	2971.0	1.30	48.60
1486.0	1.0	1486.0	1.27	48.57
1486.5	1.5	991.0	1.23	48.53
1487.0	2.0	743.5	1.20	48.50
1493.0	8.0	186.6	0.98	48.28
1494.0	9.0	166.0	0.95	48.25
1495.0	10.0	149.5	0.92	48.22
1496.0	11.0	136.0	0.90	48.20
1501.0	16.0	93.8	0.82	48.12
1502.0	17.0	88.4	0.80	48.10
1511.0	26.0	58.1	0.73	48.03
1512.0	27.0	56.0	0.72	48.02
1513.0	28.0	54.0	0.71	48.01
1521.0	36.0	42.3	0.67	47.97
1522.0	37.0	41.1	0.66	47.96
1523.0	38.0	40.1	0.66	47.96
1526.0	41.0	37.2	0.65	47.95
1538.0	53.0	29.0	0.59	47.89
1542.0	57.0	27.1	0.57	47.87
1558.0	73.0	21.3	0.51	47.81
1589.0	104.0	15.3	0.42	47.72
1679.0	194.0	8.7	0.27	47.57
2033.0	548.0	3.7	0.12	47.42
2540.0	1055.0	2.4	0.07	47.37
2752.0	1267.0	2.2	0.03	47.33
2905.0	1420.0	2.0	-0.02	47.28

24-HOUR PUMPING TEST - DRAWDOWN DATA
SITE NAME: PURITY OIL SALES SITE FILE NAME: DW1D
MONITORING WELL: W-1D PUMPED WELL: W-1D
DISTANCE FROM PUMPED WELL (ft): .3
AVERAGE DISCHARGE (gpm):52.1 STATIC DEPTH TO WATER (ft): 46.16
PUMP ON: date: 2-10-88 time: 14:00
PUMP OFF: date: 2-11-88 time: 14:45
MEASURING POINT FOR WATER LEVELS: Top of Sanitary Seal

ELAPSED TIME (t) (minutes)	DRAWDOWN (s) (feet)	DEPTH TO WATER (feet)	COMMENTS
0.0	0.00	46.16	PUMP ON
0.5	5.45	51.61	
1.0	5.60	51.76	
1.5	5.71	51.87	
2.0	5.77	51.93	
2.5	5.81	51.97	
3.0	5.82	51.98	
4.0	5.83	51.99	
5.0	5.84	52.00	
6.0	5.86	52.02	
7.0	5.87	52.03	
8.0	5.87	52.03	
11.0	5.88	52.04	
13.0	5.90	52.06	
15.0	5.90	52.06	
18.0	5.91	52.07	
20.0	5.91	52.07	
24.0	5.92	52.08	
33.0	5.94	52.10	
41.0	5.97	52.13	
52.0	6.01	52.17	
61.0	6.04	52.20	
75.0	6.05	52.21	
84.0	6.07	52.23	
91.0	6.08	52.24	
104.0	6.11	52.27	
117.0	6.12	52.28	
144.0	6.14	52.30	
164.0	6.17	52.33	
213.0	6.21	52.37	
238.0	6.22	52.38	
255.0	6.24	52.40	
293.0	6.24	52.40	
316.0	6.25	52.41	
372.0	6.27	52.43	
412.0	6.29	52.45	
456.0	6.31	52.47	
496.0	6.32	52.48	
530.0	6.32	52.48	
586.0	6.33	52.49	
659.0	6.31	52.47	
750.0	6.35	52.51	
814.0	6.37	52.53	

958.0	6.40	52.56	
1027.0	6.44	52.60	
1076.0	6.44	52.60	
1146.0	6.44	52.60	
1203.0	6.44	52.60	
1227.0	6.44	52.60	
1305.0	6.45	52.61	
1437.0	6.39	52.55	
1479.0	6.39	52.55	PUMP OFF

24-HOUR PUMPING TEST - RECOVERY DATA
SITE NAME: PURITY OIL SALES SITE FILE NAME: DW1D
MONITORING WELL: W-1D PUMPED WELL: W-1D
DISTANCE FROM PUMPED WELL (ft): .3
AVERAGE DISCHARGE (gpm): 52.1 STATIC DEPTH TO WATER (ft): 43.05
PUMP ON: date: 2-10-88 time: 14:00
PUMP OFF: date: 2-11-88 time: 14:45
MEASURING POINT FOR WATER LEVELS: Top of Sanitary Seal

ELAPSED TIME (t) (min)	RECOVERY TIME (t') (min)	(t/t') (min/min)	RESIDUAL DRAWDOWN (s) (feet)	DEPTH TO WATER (feet)
1485.0	0			PUMP OFF
1485.5	0.5	2971.0	0.69	46.85
1486.0	1.0	1486.0	0.64	46.80
1487.5	2.5	595.0	0.59	46.75
1489.0	4.0	372.3	0.56	46.72
1490.5	5.5	271.0	0.55	46.71
1492.0	7.0	213.1	0.53	46.69
1494.0	9.0	166.0	0.52	46.68
1496.0	11.0	136.0	0.51	46.67
1498.0	13.0	115.2	0.50	46.66
1500.0	15.0	100.0	0.49	46.65
1503.0	18.0	83.5	0.48	46.64
1506.0	21.0	71.7	0.47	46.63
1514.0	29.0	52.2	0.45	46.61
1519.0	34.0	44.7	0.42	46.58
1529.0	44.0	34.8	0.41	46.57
1538.0	53.0	29.0	0.38	46.54
1550.0	65.0	23.8	0.34	46.50
1590.0	105.0	15.1	0.30	46.46
1676.0	191.0	8.8	0.23	46.39
2030.0	545.0	3.7	0.08	46.24
2535.0	1050.0	2.4	0.11	46.27
2752.0	1267.0	2.2	0.07	46.23
2897.0	1412.0	2.1	0.04	46.20

PUMPING TEST DRAWDOWN DATA
SITE NAME: PURITY OIL SALES SITE FILE NAME:PSMW1D
MONITORING WELL: MW-1D PUMPED WELL: MW-1D
RADIUS OF PUMPED WELL (ft): .5
AVERAGE DISCHARGE (gpm):2.5 STATIC DEPTH TO WATER (ft): 39.98
PUMP ON: date: 11-19-87 time: 11:30
PUMP OFF: date: 11-19-87 time: 4:00
MEASURING POINT FOR WATER LEVELS: Top of Sanitary Seal

ELAPSED TIME (t) (minutes)	DRAWDOWN (s) (feet)	DEPTH TO WATER (feet)	DISCHARGE (Q) (gpm)	COMMENTS
0.0	0.00	39.98	0	OPENED UP
0.5	2.98	42.96	8	
1.0	6.02	46.00	8	
2.0	10.22	50.20	8	
2.5	13.15	53.13	8	
3.0	14.53	54.51	8	
3.5	17.97	57.95	8	
4.0	19.85	59.83	8	
4.5	21.22	61.20	8	
5.0	23.74	63.72	6	
8.0	21.52	61.50		
9.0	19.92	59.90		
13.0	35.17	75.15		
14.0	35.84	75.82		
15.0	36.25	76.23		
20.0	37.87	77.85	1.8	
25.0	37.37	77.35	2.4	MW-1S=39.3'
30.0	39.02	79.00	2.5	
35.0	39.68	79.66	2.5	
40.0	39.58	79.56	2.5	
45.0	39.97	79.95	2.5	
50.0	39.92	79.90	2.5	
55.0	40.00	79.98	2.5	
60.0	39.08	79.06	2.5	EC=660 micromhos
65.0	38.25	78.23	2.5	MW-1s=39.3'
70.0	37.85	77.83	2.5	
75.0	38.35	78.33	2.5	
80.0	39.50	79.48	2.5	
90.0	40.66	80.64	2.5	
100.0	42.52	82.50	2.5	
110.0	43.64	83.62	2.5	
120.0	44.65	84.63	2.5	
130.0	45.54	85.52	2.5	
140.0	45.81	85.79	2.5	
150.0	44.97	84.95	2.5	
160.0	45.48	85.46	2.5	
170.0	45.33	85.31	2.5	
180.0	46.37	86.35	2.5	11 DRUMS FULL
200.0	47.22	87.20	2.5	MW-1S=39.3'
220.0	44.67	84.65	2.5	EC=710 micromhos
240.0	44.42	84.40	2.5	
260.0	40.59	80.57	2.5	
270.0	40.70	80.68	2.5	

PUMPING TEST RECOVERY DATA
SITE NAME: PURITY OIL SALES SITE FILE NAME: PSMW1D
MONITORING WELL: MW-1D PUMPED WELL: MW-1D
RADIUS OF PUMPED WELL (ft): .5
STATIC DEPTH TO WATER (ft): 39.98
PUMP ON: date: 11-19-87 time: 11:30
PUMP OFF: date: 11-19-87 time: 4:00
MEASURING POINT FOR WATER LEVELS: Top of Sanitary Seal

ELAPSED TIME (t) (min)	RECOVERY TIME (t') (min)	(t/t') (min/min)	RESIDUAL DRAWDOWN (s) (feet)	DEPTH TO WATER (feet)
270.0	0			PUMP OFF
270.5	0.5	541.0	39.79	79.77
271.0	1.0	271.0	39.09	79.07
271.5	1.5	181.0	38.42	78.40
272.0	2.0	136.0	37.63	77.61
272.5	2.5	109.0	36.85	76.83
273.0	3.0	91.0	36.13	76.11
273.5	3.5	78.1	35.54	75.52
274.0	4.0	68.5	34.82	74.80
274.5	4.5	61.0	34.14	74.12
275.0	5.0	55.0	33.60	73.58
276.0	6.0	46.0	32.24	72.22
277.0	7.0	39.6	30.98	70.96
278.0	8.0	34.8	29.73	69.71
279.0	9.0	31.0	28.60	68.58
280.0	10.0	28.0	27.58	67.56
281.0	11.0	25.5	26.52	66.50
282.0	12.0	23.5	25.42	65.40
283.0	13.0	21.8	24.50	64.48
284.0	14.0	20.3	23.50	63.48
285.0	15.0	19.0	22.65	62.63
290.0	20.0	14.5	18.38	58.36
295.0	25.0	11.8	14.82	54.80
300.0	30.0	10.0	11.77	51.75
305.0	35.0	8.7	8.96	48.94
310.0	40.0	7.8	7.24	47.22
315.0	45.0	7.0	5.67	45.65
320.0	50.0	6.4	4.38	44.36
325.0	55.0	5.9	3.26	43.24
330.0	60.0	5.5	2.46	42.44
335.0	65.0	5.2	1.73	41.71
340.0	70.0	4.9	1.18	41.16
345.0	75.0	4.6	0.82	40.80
350.0	80.0	4.4	0.50	40.48
355.0	85.0	4.2	0.26	40.24
360.0	90.0	4.0	0.07	40.05
365.0	95.0	3.8	0.00	39.98

PUMPING TEST DRAWDOWN DATA
SITE NAME: PURITY OIL SALES SITE FILE NAME:PSMW1S
MONITORING WELL: MW-1S PUMPED WELL: MW-1S
RADIUS OF PUMPED WELL (ft): .4
AVERAGE DISCHARGE (gpm): 2.8 STATIC DEPTH TO WATER (ft) 39.10
PUMP ON: date: 11-06-87 time: 10:00
PUMP OFF: date: 11-06-87 time: 12:33
MEASURING POINT FOR WATER LEVELS: Top of Sanitary Seal

ELAPSED TIME (t) (minutes)	DRAWDOWN (s) (feet)	DEPTH TO WATER (feet)	DISCHARGE (Q) (gpm)	COMMENTS
0.0	0.00	39.10	0	MW-1D=39.93
0.5	1.20	40.30	4	
1.0	2.00	41.10	4	
1.5	2.80	41.90	4	
2.0	2.60	41.70	4	
2.5	2.90	42.00	4	
3.0	2.90	42.00	4	
3.5	2.80	41.90	4	
4.0	3.30	42.40	4	
4.5	3.10	42.20	1.5	
5.0	2.70	41.80	4	
6.0	4.30	43.40	4	
7.0	4.10	43.20	3	
8.0	3.90	43.00	3	
9.0	3.40	42.50	2	
10.0	3.80	42.90	4	
11.0	3.60	42.70	2.8	
12.0	3.50	42.60	2.8	
13.0	3.60	42.70	2.8	
14.0	3.40	42.50	2.8	
15.0	3.40	42.50	2.8	MW-1D=39.93
20.0	3.40	42.50	2.8	EC=196 micromhos
25.0	3.40	42.50	2.8	TEMP=26 C
30.0	3.40	42.50	2.8	
35.0	3.50	42.60	2.8	EC=189 micromhos
40.0	3.50	42.60	2.8	TEMP=23 C
45.0	3.50	42.60	2.8	
50.0	3.60	42.70	2.8	
55.0	3.50	42.60	2.8	
60.0	3.50	42.60	2.8	
65.0	3.60	42.70	2.8	MW-1D=39.93'
70.0	3.90	43.00	2.8	
75.0	4.10	43.20	2.8	
80.0	3.90	43.00	2.8	MW-1D=39.93
85.0	3.75	42.85	2.8	
90.0	3.78	42.88	2.8	MW-1D=39.91
100.0	3.85	42.95	2.8	
110.0	3.77	42.87	2.8	
120.0	3.77	42.87	2.8	TEMP=21 C EC=170 micromhos
130.0	3.83	42.93	2.8	
140.0	3.82	42.92	2.8	MW-1D=39.90
150.0	3.83	42.93	2.8	

PUMPING TEST RECOVERY DATA
SITE NAME: PURITY OIL SALES SITE FILE NAME:PSMW1S
MONITORING WELL: MW-1S PUMPED WELL: MW-1S
RADIUS OF PUMPED WELL (ft): .4
STATIC DEPTH TO WATER (ft): 39.10
PUMP ON: date: 11-06-87 time: 10:00
PUMP OFF: date: 11-06-87 time: 12:33
MEASURING POINT FOR WATER LEVELS: Top of Sanitary Seal

ELAPSED TIME (t) (min)	RECOVERY TIME (t') (min)	(t/t') (min/min)	RESIDUAL DRAWDOWN (s) (feet)	DEPTH TO WATER (feet)
153.0	0			PUMP OFF
153.5	0.5	307.0	3.25	42.35
154.0	1.0	154.0	2.38	41.48
154.5	1.5	103.0	1.73	40.83
155.0	2.0	77.5	1.25	40.35
155.5	2.5	62.2	0.90	40.00
156.0	3.0	52.0	0.73	39.83
156.5	3.5	44.7	0.60	39.70
157.0	4.0	39.3	0.43	39.53
157.5	4.5	35.0	0.35	39.45
158.0	5.0	31.6	0.30	39.40
159.0	6.0	26.5	0.20	39.30
160.0	7.0	22.9	0.17	39.27
161.0	8.0	20.1	0.13	39.23
162.0	9.0	18.0	0.10	39.20
163.0	10.0	16.3	0.07	39.17
164.0	11.0	14.9	0.06	39.16
165.0	12.0	13.8	0.04	39.14
166.0	13.0	12.8	0.04	39.14
167.0	14.0	11.9	0.04	39.14

PUMPING TEST DRAWDOWN DATA
SITE NAME: PURITY OIL SALES SITE FILE NAME:PSMW3
MONITORING WELL: MW-3 PUMPED WELL: MW-3
RADIUS OF PUMPED WELL (ft): 0.4
AVERAGE DISCHARGE (gpm):.61 STATIC DEPTH TO WATER (ft):49.35
PUMP ON: date: 11-23-87 time: 9:30
PUMP OFF: date: 11-23-87 time: 1:30
MEASURING POINT FOR WATER LEVELS: Top of Sanitary Seal

ELAPSED TIME (t) (minutes)	DRAWDOWN (s) (feet)	DEPTH TO WATER (feet)	DISCHARGE (Q) (gpm)	COMMENTS
0.0	0.00	49.35	2.5	
0.5	1.60	50.95	1	
1.0	1.40	50.75		
1.5	7.86	57.21		
2.0	8.20	57.55		
2.5	8.40	57.75		
3.0	2.82	52.17		
3.5	3.20	52.55		
4.0	3.48	52.83		
4.5	3.86	53.21		
5.0	4.12	53.47		
6.0	5.10	54.45	1.3	
7.0	5.37	54.72		
8.0	5.82	55.17		
9.0	6.45	55.80		
11.0	7.55	56.90	1.3	
12.0	8.01	57.36		
13.0	8.55	57.90		
14.0	9.05	58.40		
15.0	9.70	59.05		
20.0	12.05	61.40	1	EC=310 micromhos
25.0	11.73	61.08	0.7	TEMP=26 C
30.0	13.27	62.62	1	
35.0	15.01	64.36	1	1 GPM IS TOO MUCH, TRY 0.75
40.0	15.51	64.86		
45.0	15.83	65.18	0.85	
50.0	15.95	65.30	0.67	
55.0	15.95	65.30	0.76	
60.0	16.65	66.00		
65.0	16.01	65.36	0.5	
70.0	15.68	65.03	0.85	EC=250 micromhos
75.0	16.71	66.06		
80.0	17.30	66.65		
85.0	17.21	66.56	0.6	
90.0	17.25	66.60		
100.0	17.25	66.60		
110.0	17.26	66.61	0.57	
120.0	17.23	66.58	0.57	
130.0	17.27	66.62	0.57	
140.0	17.12	66.47	0.57	
150.0	17.25	66.60	0.57	
160.0	17.22	66.57	0.57	EC=220 micromhos
170.0	17.24	66.59	0.57	
180.0	17.25	66.60	0.57	
200.0	17.19	66.54	0.57	
220.0	17.21	66.56	0.57	EC=258 micromhos
240.0	17.25	66.60	0.57	

PUMPING TEST RECOVERY DATA
SITE NAME: PURITY OIL SALES SITE FILE NAME:PSMW3
MONITORING WELL: MW-3 PUMPED WELL: MW-3
RADIUS OF PUMPED WELL (ft): .4
STATIC DEPTH TO WATER (ft): 49.35
PUMP ON: date: 11-23-87 time: 9:30
PUMP OFF: date: 11-23-87 time: 1:30
MEASURING POINT FOR WATER LEVELS: Top of Sanitary Seal

ELAPSED TIME (t) (min)	RECOVERY TIME (t') (min)	(t/t') (min/min)	RESIDUAL DRAWDOWN (s) (feet)	DEPTH TO WATER (feet)
240.0	0			PUMP OFF
240.5	0.5	481.0	16.65	66.00
241.0	1.0	241.0	16.45	65.80
241.5	1.5	161.0	16.17	65.52
242.0	2.0	121.0	15.88	65.23
242.5	2.5	97.0	15.65	65.00
243.0	3.0	81.0	15.41	64.76
243.5	3.5	69.6	15.20	64.55
244.0	4.0	61.0	14.95	64.30
244.5	4.5	54.3	14.71	64.06
245.0	5.0	49.0	14.52	63.87
246.0	6.0	41.0	14.10	63.45
247.0	7.0	35.3	13.70	63.05
248.0	8.0	31.0	13.15	62.50
249.0	9.0	27.7	12.70	62.05
250.0	10.0	25.0	12.40	61.75
251.0	11.0	22.8	12.00	61.35
252.0	12.0	21.0	11.70	61.05
253.0	13.0	19.5	11.25	60.60
254.0	14.0	18.1	10.91	60.26
255.0	15.0	17.0	10.49	59.84
260.0	20.0	13.0	8.82	58.17
265.0	25.0	10.6	7.34	56.69
270.0	30.0	9.0	6.42	55.77
275.0	35.0	7.9	5.33	54.68
280.0	40.0	7.0	4.38	53.73
285.0	45.0	6.3	3.53	52.88
290.0	50.0	5.8	3.03	52.38
295.0	55.0	5.4	2.52	51.87
300.0	60.0	5.0	2.05	51.40
305.0	65.0	4.7	1.65	51.00
310.0	70.0	4.4	1.45	50.80
315.0	75.0	4.2	1.15	50.50
320.0	80.0	4.0	0.91	50.26
325.0	85.0	3.8	0.76	50.11
330.0	90.0	3.7	0.65	50.00
340.0	100.0	3.4	0.35	49.70
350.0	110.0	3.2	0.20	49.55
360.0	120.0	3.0	0.05	49.40
370.0	130.0	2.8	-0.01	49.34

PUMPING TEST DRAWDOWN DATA
SITE NAME: PURITY OIL SALES SITE FILE NAME:PSMW4
MONITORING WELL: MW-4 PUMPED WELL: MW-4
RADIUS OF PUMPED WELL (ft): 0.4
AVERAGE DISCHARGE (gpm):.9 STATIC DEPTH TO WATER (ft):49.70
PUMP ON: date: 11-20-87 time: 10:20
PUMP OFF: date: 11-20-87 time: 3:20
MEASURING POINT FOR WATER LEVELS: Top of Sanitary Seal

ELAPSED TIME (t) (minutes)	DRAWDOWN (s) (feet)	DEPTH TO WATER (feet)	DISCHARGE (Q) (gpm)	COMMENTS
0.0	0.00	49.70	0	
1.0	2.52	52.22	2	
1.5	2.27	51.97		
2.0	2.35	52.05		
2.5	2.30	52.00	1	FLOW WON'T STEADY OUT
3.0	2.30	52.00		
3.5	2.20	51.90		
4.0	1.31	51.01	0.5	
5.0	3.19	52.89		
6.0	4.30	54.00		
7.0	4.92	54.62	1.2	
10.0	5.88	55.58	1.2	
12.0	6.41	56.11	1.5	WILL SHOOT FOR 1 GPM
14.0	8.62	58.32		
15.0	8.84	58.54	1.5	
20.0	11.30	61.00		
25.0	11.98	61.68	1.2	
30.0	12.80	62.50		
35.0	13.08	62.78	1	
40.0	12.06	61.76	1	
45.0	11.60	61.30	1	EC=500 micromhos
50.0	11.17	60.87		
55.0	10.45	60.15		FLOW VARIES 0.7 TO 1.2
60.0	10.62	60.32		
65.0	11.08	60.78		
70.0	10.58	60.28		
75.0	11.11	60.81		
80.0	9.85	59.55	0.7	ADJUSTED FLOW AGAIN
85.0	10.52	60.22		
90.0	10.03	59.73		FLOW WILL NOT STAY CONSTANT
100.0	10.50	60.20		
110.0	10.08	59.78		EC=500 micromhos
120.0	11.04	60.74		
130.0	11.65	61.35		
140.0	12.51	62.21		
150.0	12.08	61.78		
160.0	13.85	63.55		
170.0	13.95	63.65		
180.0	13.51	63.21		EC=500 micromhos
200.0	13.08	62.78		
220.0	12.85	62.55	1	
240.0	12.10	61.80		
260.0	11.37	61.07		
280.0	13.05	62.75		
300.0	12.85	62.55		

PUMPING TEST RECOVERY DATA
SITE NAME: PURITY OIL SALES SITE FILE NAME:PSMW4
MONITORING WELL: MW-4 PUMPED WELL: MW-4
RADIUS OF PUMPED WELL (ft): 0.4
STATIC DEPTH TO WATER (ft):49.70
PUMP ON: date: 11-20-87 time: 10:20
PUMP OFF: date: 11-20-87 time: 3:20
MEASURING POINT FOR WATER LEVELS: Top of Sanitary Seal

ELAPSED TIME (t) (min)	RECOVERY TIME (t') (min)	(t/t') (min/min)	RESIDUAL DRAWDOWN (s) (feet)	DEPTH TO WATER (feet)
300.0	0			PUMP OFF
300.5	0.5	601.0	12.26	61.96
301.0	1.0	301.0	11.30	61.00
302.0	2.0	151.0	11.12	60.82
302.5	2.5	121.0	10.58	60.28
303.0	3.0	101.0	10.10	59.80
303.5	3.5	86.7	9.68	59.38
304.0	4.0	76.0	9.40	59.10
304.5	4.5	67.7	8.85	58.55
305.0	5.0	61.0	8.30	58.00
306.0	6.0	51.0	7.53	57.23
307.0	7.0	43.9	7.10	56.80
308.0	8.0	38.5	6.56	56.26
309.0	9.0	34.3	6.13	55.83
310.0	10.0	31.0	5.55	55.25
311.0	11.0	28.3	4.93	54.63
312.0	12.0	26.0	4.40	54.10
313.0	13.0	24.1	3.91	53.61
314.0	14.0	22.4	3.50	53.20
315.0	15.0	21.0	3.08	52.78
320.0	20.0	16.0	1.70	51.40
330.0	30.0	11.0	1.40	51.10
335.0	35.0	9.6	0.18	49.88
340.0	40.0	8.5	0.00	49.70

PUMPING TEST DRAWDOWN DATA
SITE NAME: PURITY OIL SALES SITE FILE NAME:PSMW5
MONITORING WELL: MW-5 PUMPED WELL: MW-5
RADIUS OF PUMPED WELL (ft): 0.4
AVERAGE DISCHARGE (gpm):1.1 STATIC DEPTH TO WATER (ft):43.25
PUMP ON: date: 11-17-87 time: 9:05
PUMP OFF: date: 11-17-87 time: 2:05
MEASURING POINT FOR WATER LEVELS: Top of Sanitary Seal

ELAPSED TIME (t) (minutes)	DRAWDOWN (s) (feet)	DEPTH TO WATER (feet)	DISCHARGE (Q) (gpm)	COMMENTS
0.0	0.00	43.25	0	
0.5	0.75	44.00	6	
1.0	0.16	43.41	0	
2.5	0.27	43.52		
4.0	0.75	44.00		FLOW RATE NEAR ZERO HERE
6.0	1.55	44.80		
7.0	1.90	45.15		
8.0	1.98	45.23		
9.0	2.10	45.35		
10.0	2.10	45.35		
11.0	2.12	45.37		
12.0	2.02	45.27		FLOW WILL NOT HOLD STEADY
13.0	2.02	45.27		
14.0	5.65	48.90	2.7	
20.0	7.13	50.38	1	
25.0	8.65	51.90	2	
30.0	8.80	52.05	1.7	
35.0	8.48	51.73	1.4	
40.0	7.83	51.08	1.3	
45.0	7.93	51.18	1.4	WILL HOLD AT 1.4 GPM
50.0	7.95	51.20	1.4	EC=1720 micromhos
55.0	8.52	51.77	1	
60.0	7.93	51.18	1.4	
65.0	7.87	51.12		
70.0	7.62	50.87	1	
75.0	7.93	51.18	1.4	
80.0	8.38	51.63		EC=1700 micromhos
85.0	8.73	51.98.	1.4	
90.0	8.83	52.08	1.4	
100.0	8.57	51.82	1	
110.0	7.95	51.20		STILL ODOR
120.0	7.50	50.75	1	
130.0	8.12	51.37		
140.0	7.71	50.96		
150.0	8.06	51.31	1	WATER HAS CLEARED UP
160.0	7.98	51.23		BUT STILL CLOUDY
180.0	7.75	51.00	1	
200.0	8.77	52.02		FLOW RATE WAS UP FOR A MINUTE
220.0	6.90	50.15	1	
240.0	8.38	51.63	1	
260.0	7.75	51.00	0.9	EC=1750 micromhos
280.0	7.50	50.75	1	
300.0	7.33	50.58		

PUMPING TEST RECOVERY DATA.
SITE NAME: PURITY OIL SALES SITE FILE NAME:PSMW5
MONITORING WELL: MW-5 PUMPED WELL: MW-5
RADIUS OF PUMPED WELL (ft): 0.4
STATIC DEPTH TO WATER (ft):43.25
PUMP ON: date: 11-17-87 time: 9:05
PUMP OFF: date: 11-17-87 time: 2:05
MEASURING POINT FOR WATER LEVELS: Top of Sanitary Seal

ELAPSED TIME (t) (min)	RECOVERY TIME (t') (min)	(t/t') (min/min)	RESIDUAL DRAWDOWN (s) (feet)	DEPTH TO WATER (feet)
300.0	0			PUMP OFF
300.5	0.5	601.0	6.75	50.00
301.0	1.0	301.0	6.31	49.56
301.5	1.5	201.0	6.00	49.25
302.0	2.0	151.0	5.75	49.00
302.5	2.5	121.0	5.49	48.74
303.0	3.0	101.0	5.23	48.48
303.5	3.5	86.7	4.97	48.22
304.0	4.0	76.0	4.81	48.06
304.5	4.5	67.7	4.47	47.72
305.0	5.0	61.0	4.26	47.51
306.0	6.0	51.0	3.98	47.23
307.0	7.0	43.9	3.57	46.82
308.0	8.0	38.5	3.08	46.33
309.0	9.0	34.3	2.56	45.81
310.0	10.0	31.0	2.38	45.63
311.0	11.0	28.3	2.06	45.31
312.0	12.0	26.0	1.90	45.15
313.0	13.0	24.1	1.72	44.97
314.0	14.0	22.4	1.47	44.72
315.0	15.0	21.0	1.35	44.60
320.0	20.0	16.0	0.64	43.89
325.0	25.0	13.0	0.05	43.30
330.0	30.0	11.0	-0.05	43.20
335.0	35.0	9.6	-0.09	43.16
340.0	40.0	8.5	-0.10	43.15
345.0	45.0	7.7	-0.10	43.15

PUMPING TEST DRAWDOWN DATA
SITE NAME: PURITY OIL SALES SITE FILE NAME:PSMW6
MONITORING WELL: MW-6 PUMPED WELL: MW-6
RADIUS OF PUMPED WELL (ft): 0.7
AVERAGE DISCHARGE (gpm):1.0 STATIC DEPTH TO WATER (ft):43.33
PUMP ON: date: 11-13-87 time: 10:20
PUMP OFF: date: 11-13-87 time: 4:30
MEASURING POINT FOR WATER LEVELS: Top of Sanitary Seal

ELAPSED TIME (t) (minutes)	DRAWDOWN (s) (feet)	DEPTH TO WATER (feet)	DISCHARGE (Q) (gpm)	COMMENTS
0.0	0.00	43.33	10	WATER IS CLOUDY
0.5	4.76	48.09		
1.0	4.95	48.28		
1.5	4.96	48.29	0.7	
2.0	5.05	48.38		THE FLOW
2.5	5.22	48.55	1.3	RATE WILL
3.0	5.35	48.68		NOT STAY
3.5	5.35	48.68		STEADY
4.0	5.28	48.61		
5.0	6.78	50.11	2.5	
6.0	8.95	52.28		
7.0	9.43	52.76	1.75	
8.0	9.62	52.95		
9.0	9.72	53.05	1.33	
10.0	9.42	52.75		
11.0	9.34	52.67	1.3	
12.0	9.05	52.38		
13.0	8.99	52.32		
14.0	8.94	52.27		
15.0	8.83	52.16	1.33	
20.0	8.18	51.51		
25.0	7.33	50.66	1	
30.0	6.51	49.84	1.75	
35.0	9.04	52.37		EC=1120 micromhos
40.0	8.99	52.32	1.28	
45.0	8.38	51.71	1.13	
50.0	7.85	51.18	1.1	WATER IS CLEARING UP
55.0	7.26	50.59		
60.0	6.87	50.20		
65.0	5.90	49.23	1	1.7 GPM AFTER ADJUSTMENT
70.0	8.58	51.91	1.7	
75.0	9.89	53.22		
80.0	9.41	52.74	1.15	NO ADJUSTMENT MADE
85.0	8.33	51.66	1.05	
90.0	8.04	51.37		
100.0	7.41	50.74	1.05	
110.0	7.00	50.33		NO ADJUSTMENT MADE
120.0	6.07	49.40		
130.0	6.02	49.35	0.9	1.36 GPM AFTER ADJUSTMENT
140.0	7.34	50.67	1.07	
150.0	7.43	50.76		EC=1180 micromhos
160.0	7.25	50.58	1	
170.0	6.90	50.23		
180.0	7.16	50.49		
190.0	6.99	50.32		
200.0	6.90	50.23		
210.0	6.55	49.88		
220.0	6.27	49.60		
230.0	6.34	49.67	0.92	
240.0	6.12	49.45		
250.0	5.69	49.02	0.83	
260.0	8.05	51.38	1.35	
270.0	7.89	51.22		
280.0	7.87	51.20	1	
290.0	7.46	50.79		
300.0	7.01	50.34		EC=1150 micromhos
315.0	7.16	50.49		
330.0	6.99	50.32	1	
345.0	6.67	50.00		
400.0	6.67	50.00	1	
410.0	6.47	49.80		

PUMPING TEST RECOVERY DATA
SITE NAME: PURITY OIL SALES SITE FILE NAME:PSMW6
MONITORING WELL: MW-6 PUMPED WELL: MW-6
RADIUS OF PUMPED WELL (ft): 0.7
STATIC DEPTH TO WATER (ft):43.33
PUMP ON: date: 11-13-87 time: 10:20
PUMP OFF: date: 11-13-87 time: 4:30
MEASURING POINT FOR WATER LEVELS: Top of Sanitary Seal

ELAPSED TIME (t) (min)	RECOVERY TIME (t') (min)	(t/t') (min/min)	RESIDUAL DRAWDOWN (s) (feet)	DEPTH TO WATER (feet)
410.0	0			PUMP OFF
410.5	0.5	821.0	5.79	49.12
411.0	1.0	411.0	5.43	48.76
411.5	1.5	274.3	5.01	48.34
412.0	2.0	206.0	4.67	48.00
412.5	2.5	165.0	4.30	47.63
413.0	3.0	137.7	3.94	47.27
413.5	3.5	118.1	3.54	46.87
414.0	4.0	103.5	3.29	46.62
414.5	4.5	92.1	2.99	46.32
415.0	5.0	83.0	2.78	46.11
417.0	7.0	59.6	2.12	45.45
418.0	8.0	52.3	1.67	45.00
419.0	9.0	46.6	1.19	44.52
420.0	10.0	42.0	0.80	44.13
421.0	11.0	38.3	0.45	43.78

PUMPING TEST DRAWDOWN DATA
SITE NAME: PURITY OIL SALES SITE FILE NAME:PSMW8
MONITORING WELL: MW-8 PUMPED WELL: MW-8
RADIUS OF PUMPED WELL (ft): 0.4
AVERAGE DISCHARGE (gpm):1.1 STATIC DEPTH TO WATER (ft):44.88
PUMP ON: date: 11-11-87 time: 8:20
PUMP OFF: date: 11-11-87 time: 1:20
MEASURING POINT FOR WATER LEVELS: Top of Sanitary Seal

ELAPSED TIME (t) (minutes)	DRAWDOWN (s) (feet)	DEPTH TO WATER (feet)	DISCHARGE (Q) (gpm)	COMMENTS
0.0	0.00	44.88	10	WIDE OPEN
0.5	0.62	45.50	1.8	
1.0	1.12	46.00		
1.5	1.35	46.23		
2.0	1.62	46.50		
2.5	1.93	46.81		
3.0	2.19	47.07		
3.5	2.40	47.28		
4.0	2.56	47.44	1.2	
4.5	2.81	47.69		
5.0	2.84	47.72		
6.0	2.96	47.84	1.2	
7.0	3.03	47.91		
8.0	3.11	47.99		
9.0	3.13	48.01		
10.0	3.20	48.08		EC=700 micromhos, 19 C
11.0	3.25	48.13		
12.0	3.30	48.18	1.1	
13.0	3.35	48.23		
14.0	3.39	48.27		
15.0	3.44	48.32		
20.0	3.66	48.54		EC=690 micromhos, 19 C
25.0	3.85	48.73		
30.0	3.98	48.86		
35.0	4.10	48.98		
40.0	4.22	49.10		
45.0	4.27	49.15		
50.0	4.32	49.20		
55.0	4.36	49.24	1.1	
60.0	4.38	49.26		
65.0	4.40	49.28		
70.0	4.41	49.29		
75.0	4.44	49.32		
80.0	4.45	49.33		
85.0	4.47	49.35		
90.0	4.39	49.27		
100.0	4.49	49.37		
110.0	4.52	49.40		
120.0	4.54	49.42		
130.0	4.54	49.42		EC=700 micromhos, 19 C
140.0	4.59	49.47		
150.0	4.55	49.43		
160.0	4.48	49.36		
170.0	4.24	49.12		
180.0	4.17	49.05		
190.0	4.14	49.02		
200.0	4.12	49.00		
210.0	4.14	49.02		
220.0	4.17	49.05		
230.0	4.16	49.04		
240.0	4.18	49.06		
250.0	4.19	49.07		
260.0	4.20	49.08		
270.0	4.19	49.07		EC=680 micromhos, 18 C
280.0	4.19	49.07		
290.0	4.20	49.08		
300.0	4.19	49.07		PUMP OFF

PUMPING TEST RECOVERY DATA
SITE NAME: PURITY OIL SALES SITE FILE NAME:PSMW8
MONITORING WELL: MW-8 PUMPED WELL: MW-8
RADIUS OF PUMPED WELL (ft): 0.4
STATIC DEPTH TO WATER (ft):44.88
PUMP ON: date: 11-11-87 time: 8:20
PUMP OFF: date: 11-11-87 time: 1:20
MEASURING POINT FOR WATER LEVELS: Top of Sanitary Seal

ELAPSED TIME (t) (min)	RECOVERY TIME (t') (min)	(t/t') (min/min)	RESIDUAL DRAWDOWN (s) (feet)	DEPTH TO WATER (feet)
300.0	0			PUMP OFF
300.5	0.5	601.0	3.94	48.82
301.0	1.0	301.0	3.75	48.63
301.5	1.5	201.0	3.58	48.46
302.0	2.0	151.0	3.38	48.26
302.5	2.5	121.0	3.24	48.12
303.0	3.0	101.0	3.10	47.98
303.5	3.5	86.7	2.94	47.82
304.0	4.0	76.0	2.82	47.70
304.5	4.5	67.7	2.72	47.60
305.0	5.0	61.0	2.59	47.47
306.0	6.0	51.0	2.30	47.18
307.0	7.0	43.9	2.09	46.97
308.0	8.0	38.5	1.87	46.75
309.0	9.0	34.3	1.65	46.53
310.0	10.0	31.0	1.52	46.40
311.0	11.0	28.3	1.34	46.22
313.0	13.0	24.1	1.06	45.94
314.0	14.0	22.4	0.94	45.82
315.0	15.0	21.0	0.83	45.71
320.0	20.0	16.0	0.48	45.36
325.0	25.0	13.0	0.29	45.17
330.0	30.0	11.0	0.15	45.03
335.0	35.0	9.6	0.06	44.94
340.0	40.0	8.5	0.03	44.91
345.0	45.0	7.7	-0.03	44.85

PUMPING TEST DRAWDOWN DATA
SITE NAME: PURITY OIL SALES SITE FILE NAME:PSMW9
MONITORING WELL: MW-9 PUMPED WELL: MW-9
RADIUS OF PUMPED WELL (ft): 0.4
AVERAGE DISCHARGE (gpm):1.1 STATIC DEPTH TO WATER (ft):44.85
PUMP ON: date: 11-10-87 time: 9:50
PUMP OFF: date: 11-10-87 time: 2:50
MEASURING POINT FOR WATER LEVELS: Top of Sanitary Seal

ELAPSED TIME (t) (minutes)	DRAWDOWN (s) (feet)	DEPTH TO WATER (feet)	DISCHARGE (Q) (gpm)	COMMENTS
0.0	0.00	44.85	12	
0.5	3.95	48.80		
1.0	3.95	48.80		
1.5	3.97	48.82	0.8	
2.0	4.00	48.85	0.8	
2.5	3.97	48.82	0.8	
3.0	3.98	48.83	0.8	
3.5	3.95	48.80	1.1	
			1.1	
4.5	4.24	49.09	1.1	
5.0	4.60	49.45	1.1	
6.0	4.75	49.60	1.1	
7.0	4.91	49.76	1.1	
8.0	5.08	49.93	1.1	
9.0	5.45	50.30	1.1	
10.0	5.57	50.42	1.1	
11.0	5.63	50.48	1.1	
12.0	5.70	50.55	1.1	
13.0	5.76	50.61	1.1	
14.0	5.90	50.75	1.1	
15.0	6.01	50.86	1.1	
20.0	6.32	51.17	1.1	
25.0	6.50	51.35	1.1	
30.0	6.53	51.38	1.1	
35.0	6.56	51.41	1.1	
40.0	6.63	51.48	1.1	
45.0	6.51	51.36	1.1	
50.0	6.49	51.34	1.1	
55.0	6.63	51.48	1.1	
60.0	6.60	51.45	1.1	EC=580 micromhos
65.0	6.77	51.62	1.1	
70.0	6.80	51.65	1.1	
75.0	6.85	51.70	1.1	
80.0	6.85	51.70	1.1	
85.0	6.90	51.75	1.1	
90.0	6.86	51.71	1.1	
100.0	6.87	51.72	1.1	
110.0	6.85	51.70	1.1	EC=600 micromhos
120.0	6.83	51.68	1.1	
130.0	6.85	51.70	1.1	
140.0	6.92	51.77	1.1	
150.0	6.96	51.81	1.1	
160.0	7.10	51.95	1.1	
170.0	6.77	51.62	1.1	EC=590 micromhos
180.0	6.93	51.78	1.1	
190.0	6.96	51.81	1.1	
200.0	6.96	51.81	1.1	
210.0	6.97	51.82	1.1	
220.0	6.96	51.81	1.1	EC=600 micromhos
230.0	7.00	51.85	1.1	
240.0	7.01	51.86	1.1	
250.0	7.06	51.91	1.1	
260.0	7.07	51.92	1.1	
270.0	7.08	51.93	1.1	
280.0	7.09	51.94	1.1	
290.0	7.12	51.97	1.1	
300.0	7.11	51.96	1.1	PUMP OFF

PUMPING TEST RECOVERY DATA
SITE NAME: PURITY OIL SALES SITE FILE NAME:PSMW9
MONITORING WELL: MW-9 PUMPED WELL: MW-9
RADIUS OF PUMPED WELL (ft): 0.4
STATIC DEPTH TO WATER (ft):44.85
PUMP ON: date: 11-10-87 time: 9:50
PUMP OFF: date: 11-10-87 time: 2:50
MEASURING POINT FOR WATER LEVELS: Top of Sanitary Seal

ELAPSED TIME (t) (min)	RECOVERY TIME (t') (min)	(t/t') (min/min)	REISDUAL DRAWDOWN (s) (feet)	DEPTH TO WATER (feet)
300.0	0			PUMP OFF
300.5	0.5	601.0	6.87	51.72
301.0	1.0	301.0	6.23	51.08
301.5	1.5	201.0	5.80	50.65
302.0	2.0	151.0	5.35	50.20
302.5	2.5	121.0	4.83	49.68
303.0	3.0	101.0	4.62	49.47
303.5	3.5	86.7	4.13	48.98
304.0	4.0	76.0	3.84	48.69
304.5	4.5	67.7	3.43	48.28
305.0	5.0	61.0	3.15	48.00
306.0	6.0	51.0	2.34	47.19
307.0	7.0	43.9	2.10	46.95
308.0	8.0	38.5	1.67	46.52
309.0	9.0	34.3	1.46	46.31
310.0	10.0	31.0	1.17	46.02
311.0	11.0	28.3	0.91	45.76
312.0	12.0	26.0	0.65	45.50
313.0	13.0	24.1	0.55	45.40
314.0	14.0	22.4	0.50	45.35
315.0	15.0	21.0	0.32	45.17
320.0	20.0	16.0	0.08	44.93
325.0	25.0	13.0	0.10	44.95
330.0	30.0	11.0	-0.07	44.78
335.0	35.0	9.6	-0.10	44.75

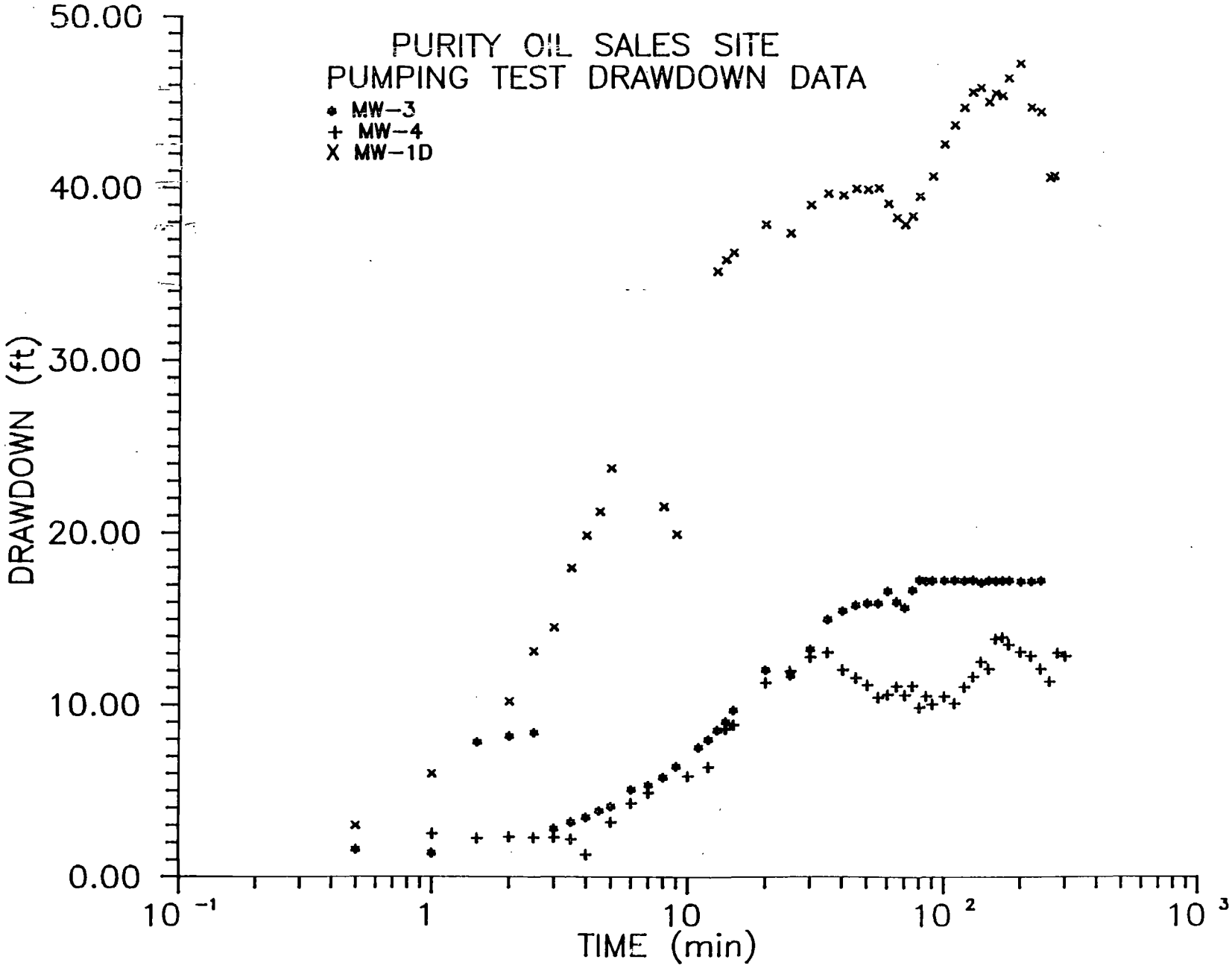
PUMPING TEST DRAWDOWN DATA
SITE NAME: PURITY OIL SALES SITE FILE NAME:PSW5
MONITORING WELL: W-5 PUMPED WELL: MW-5
RADIUS OF PUMPED WELL (ft): 0.4
AVERAGE DISCHARGE (gpm):1.1 STATIC DEPTH TO WATER (ft):43.10
PUMP ON: date: 11-17-87 time:
PUMP OFF: date: 11-17-87 time:
MEASURING POINT FOR WATER LEVELS: Top of Sanitary Seal

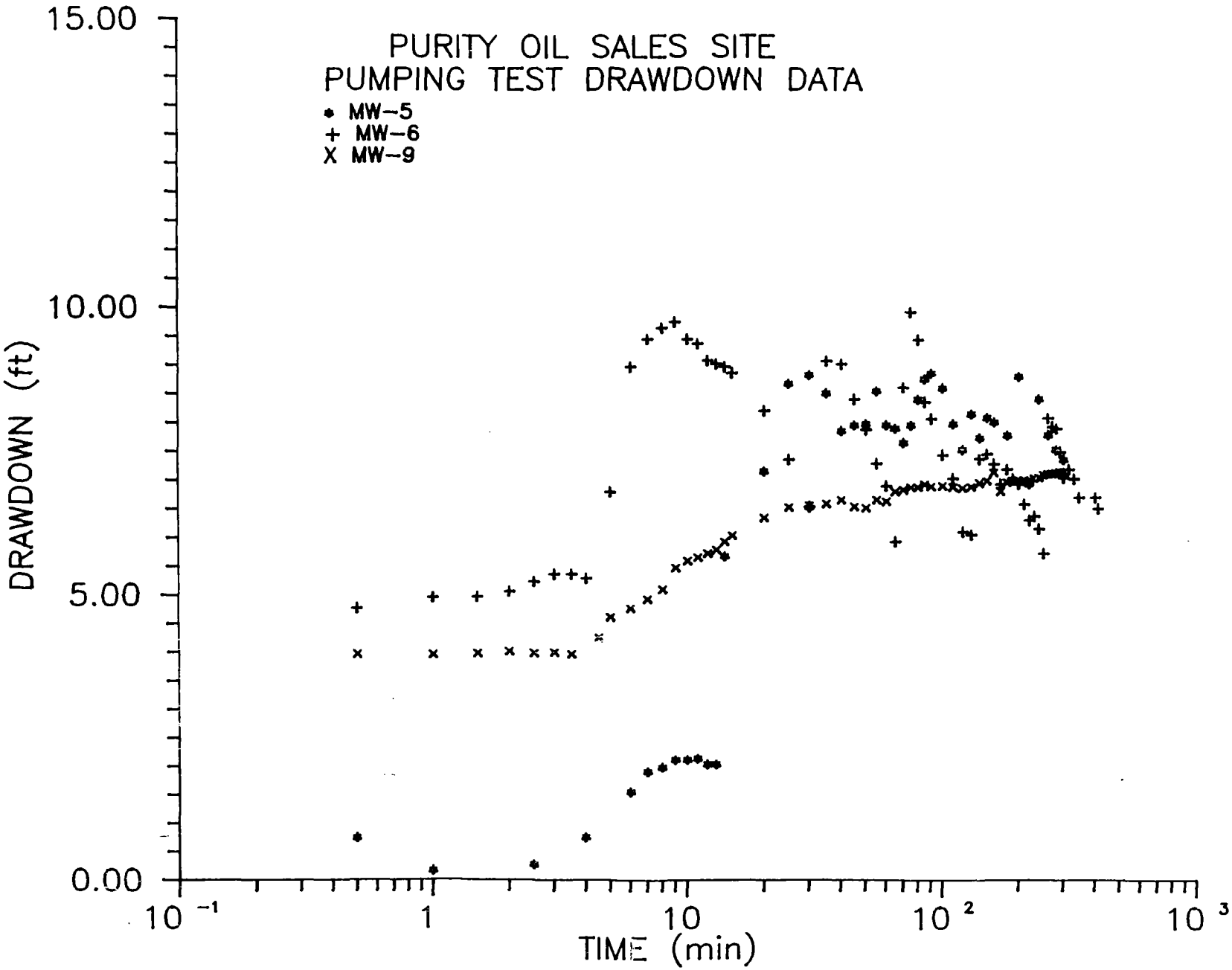
ELAPSED TIME (t) (minutes)	DRAWDOWN (s) (feet)	DEPTH TO WATER (feet)	DISCHARGE (Q) (gpm)	COMMENTS
0.0	0.00	43.10		
25.0	0.01	43.11		
45.0	0.00	43.10		
65.0	0.00	43.10		
90.0	0.00	43.10		
120.0	0.00	43.10		
130.0	0.00	43.10		THE WATER LEVEL DID NOT CHANGE IN OVER TWO HOURS STOPPED TEST AT LAST READING

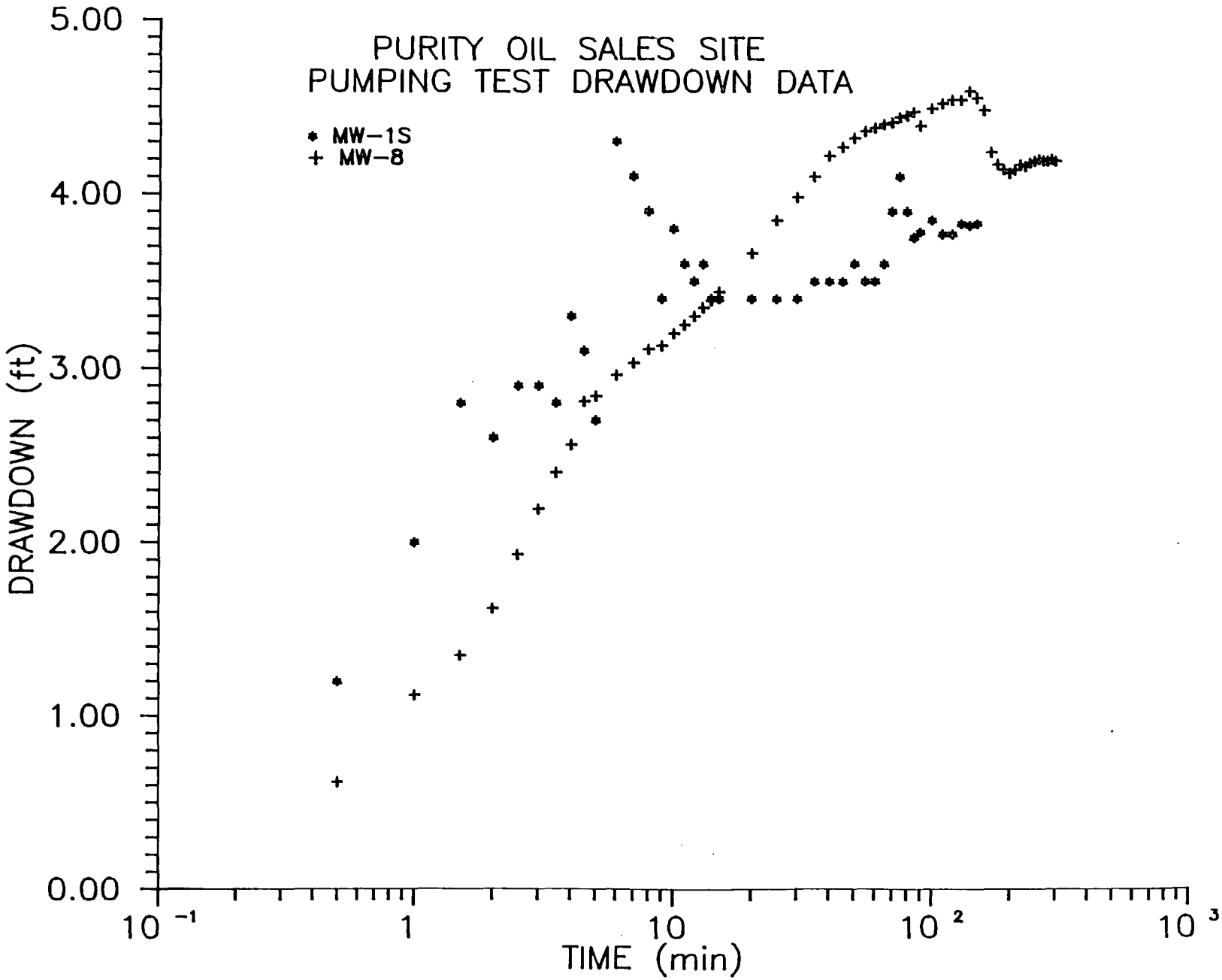
PUMPING TEST DRAWDOWN DATA
SITE NAME: PURITY OIL SALES SITE FILE NAME:PSW6
MONITORING WELL: W-6 PUMPED WELL: MW-6
RADIUS OF PUMPED WELL (ft): 0.33
AVERAGE DISCHARGE (gpm):1.0 STATIC DEPTH TO WATER (ft): 42.92
PUMP ON: date: 11-13-87 time: 10:20
PUMP OFF: date: 11-13-87 time: 4:30
MEASURING POINT FOR WATER LEVELS: Top of Sanitary Seal

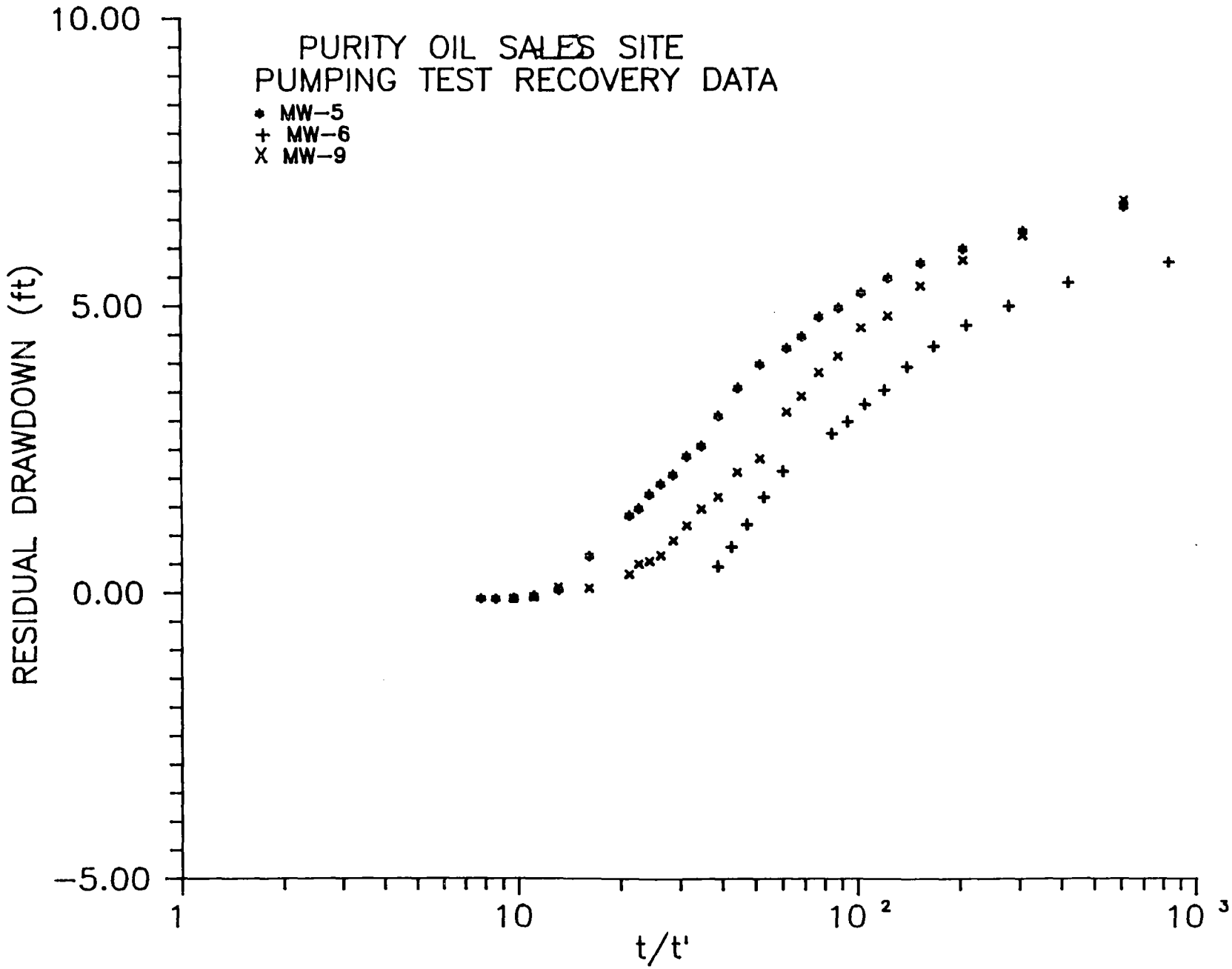
ELAPSED TIME (t) (minutes)	DRAWDOWN (s) (feet)	DEPTH TO WATER (feet)	DISCHARGE (Q) (gpm)	COMMENTS
0.0	0.00	42.92		SOUNDER WAS STUCK IN WELL
38.0	-0.02	42.90		AT FIRST 1/2 HOUR
47.0	-0.01	42.91		NO CHANGE
54.0	0.00	42.92		
63.0	-0.01	42.91		
68.0	-0.01	42.91		
74.0	0.00	42.92		
88.0	-0.01	42.91		
105.0	-0.02	42.90		
133.0	-0.01	42.91		
140.0	-0.02	42.90		
153.0	0.00	42.92		
163.0	-0.02	42.90		
201.0	-0.01	42.91		
291.0	-0.02	42.90		
320.0	-0.02	42.90		
350.0	-0.02	42.90		

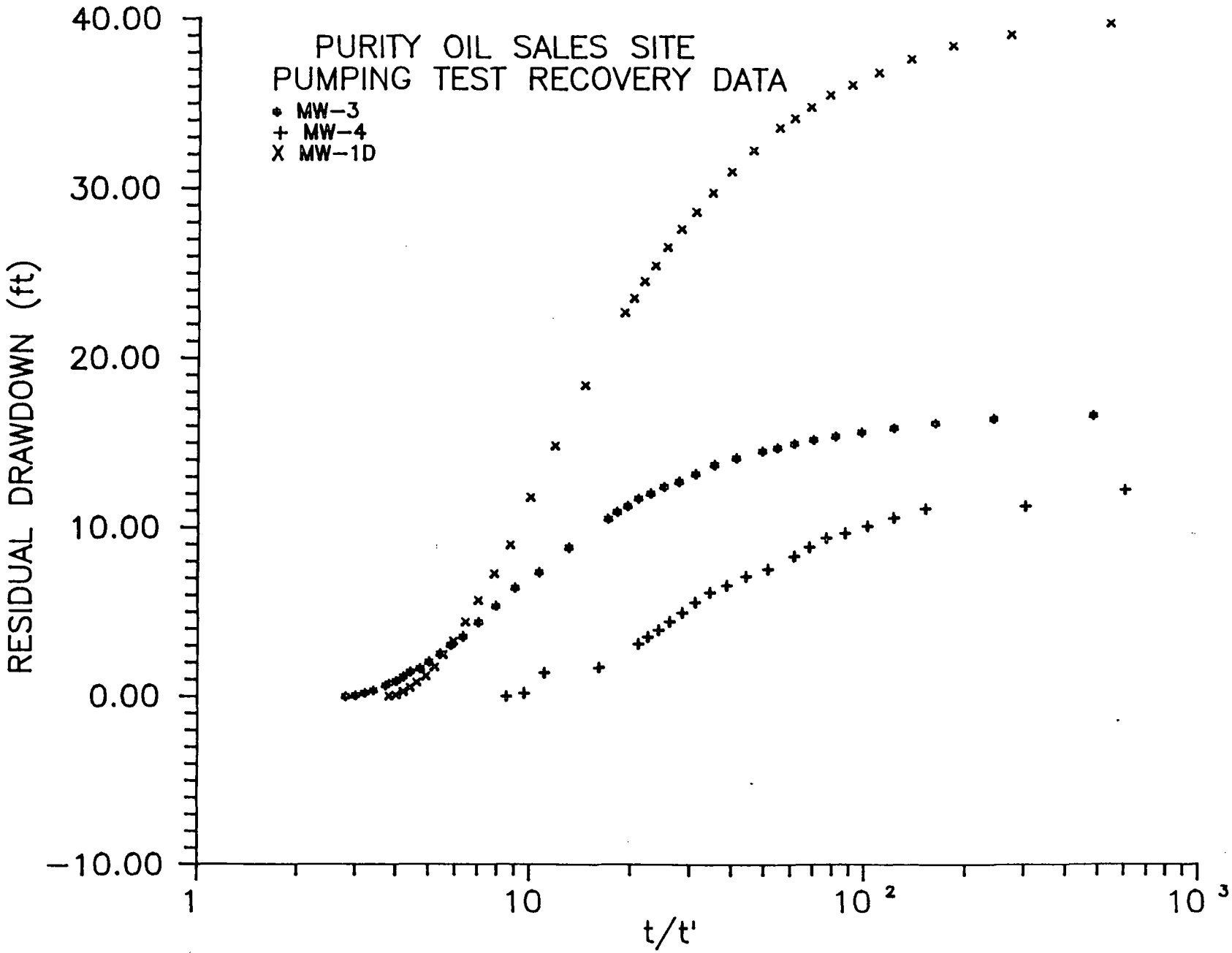
PLOTS OF INDIVIDUAL PUMP TEST RESULTS

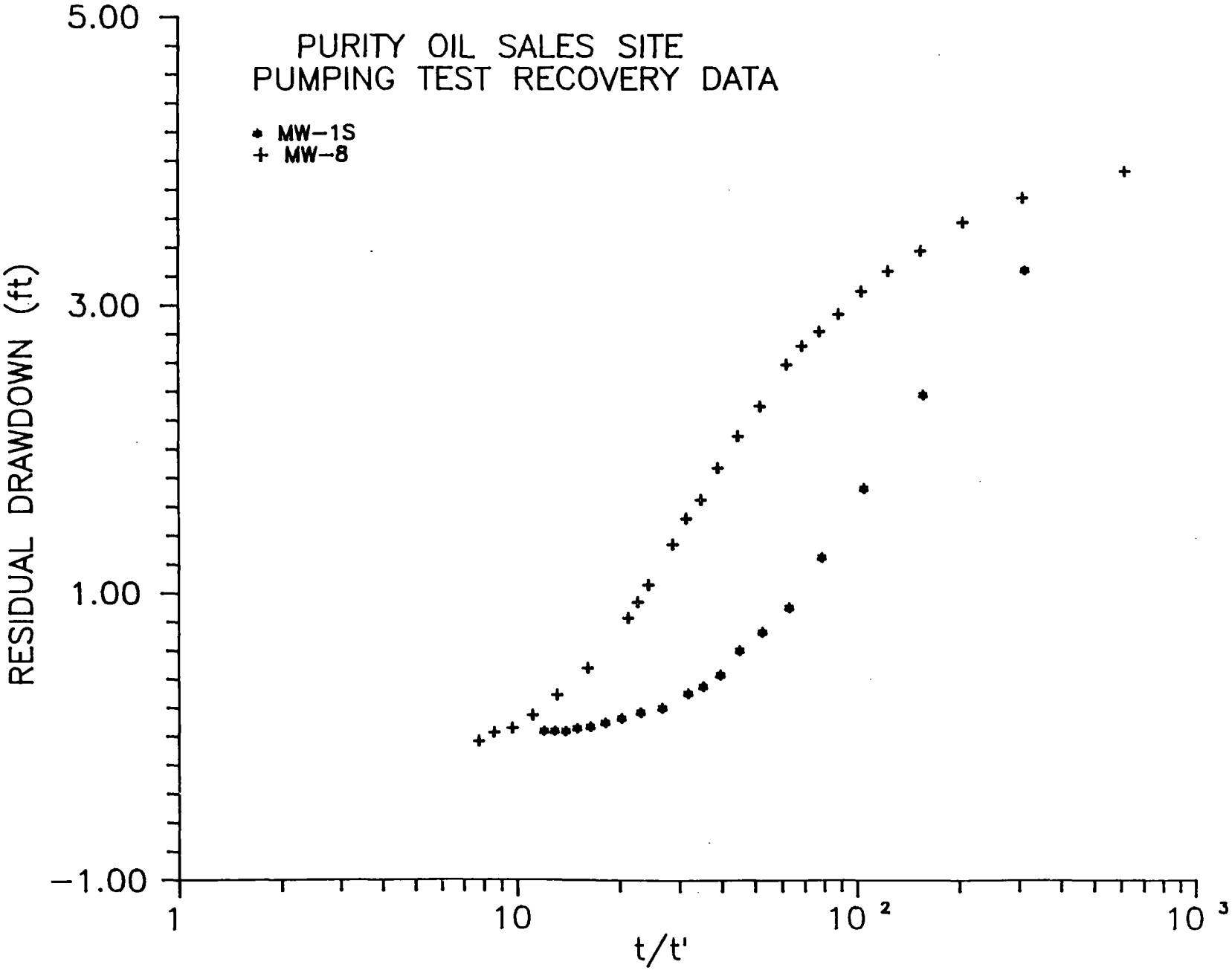

PURITY OIL SALES SITE
PUMPING TEST DRAWDOWN DATA
MW-3
MW-4
MW-1D
DRAWDOWN (ft)
50.00
40.00
30.00
20.00
10.00
0.00
TIME (min)
10 -1
1
10
10 2
10 3


PURITY OIL SALES SITE
PUMPING TEST DRAWDOWN DATA
MW-5
MW-6
MW-9
DRAWDOWN (ft)
15.00
10.00
5.00
0.00
TIME (min)
10 -1
1
10
10 2
10 3

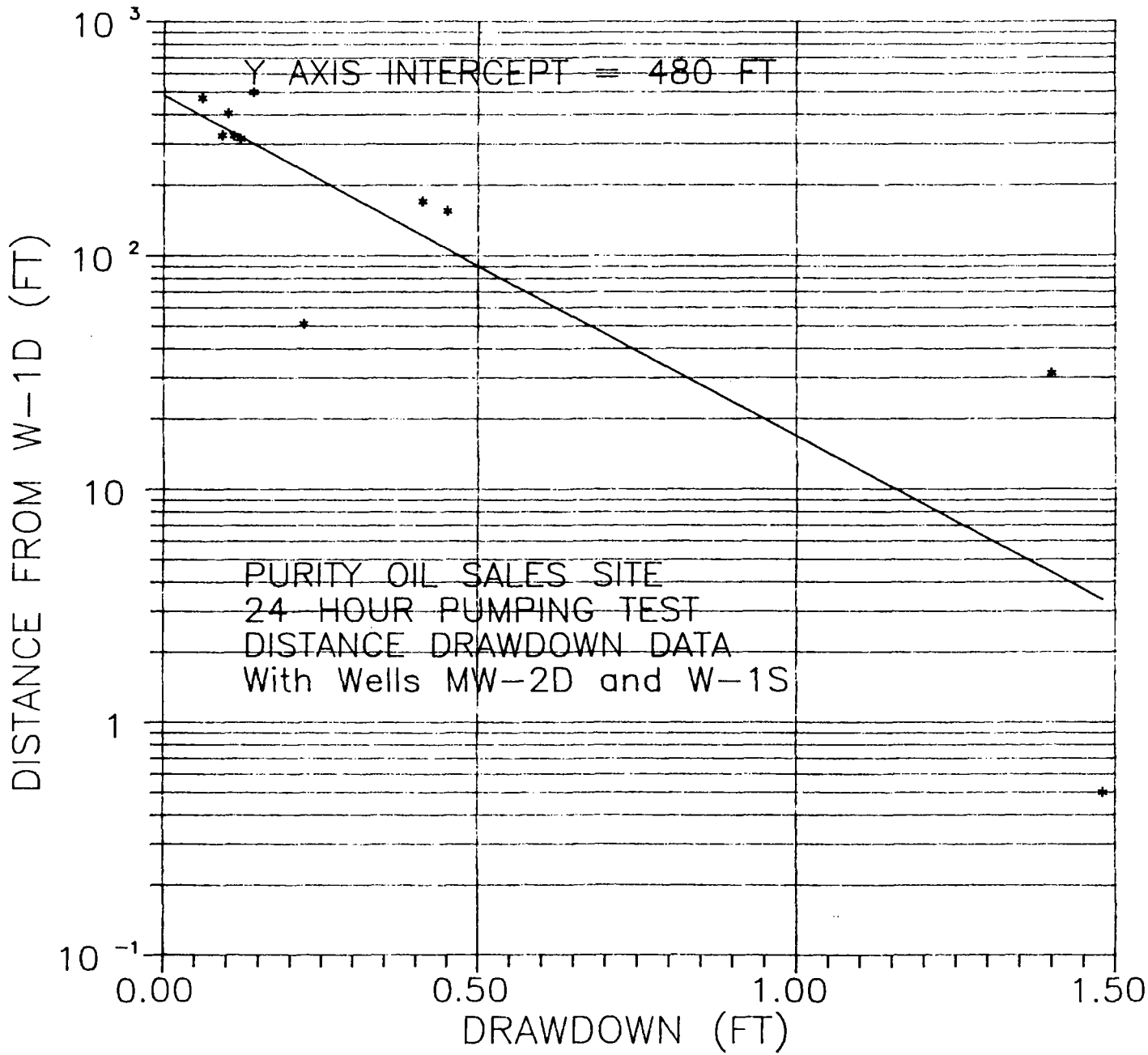

PURITY OIL SALES SITE
PUMPING TEST DRAWDOWN DATA
MW-1S
MW-8
DRAWDOWN (ft)
5.00
4.00
3.00
2.00
1.00
0.00
TIME (min)
10 -1
1
10
10 2
10 3

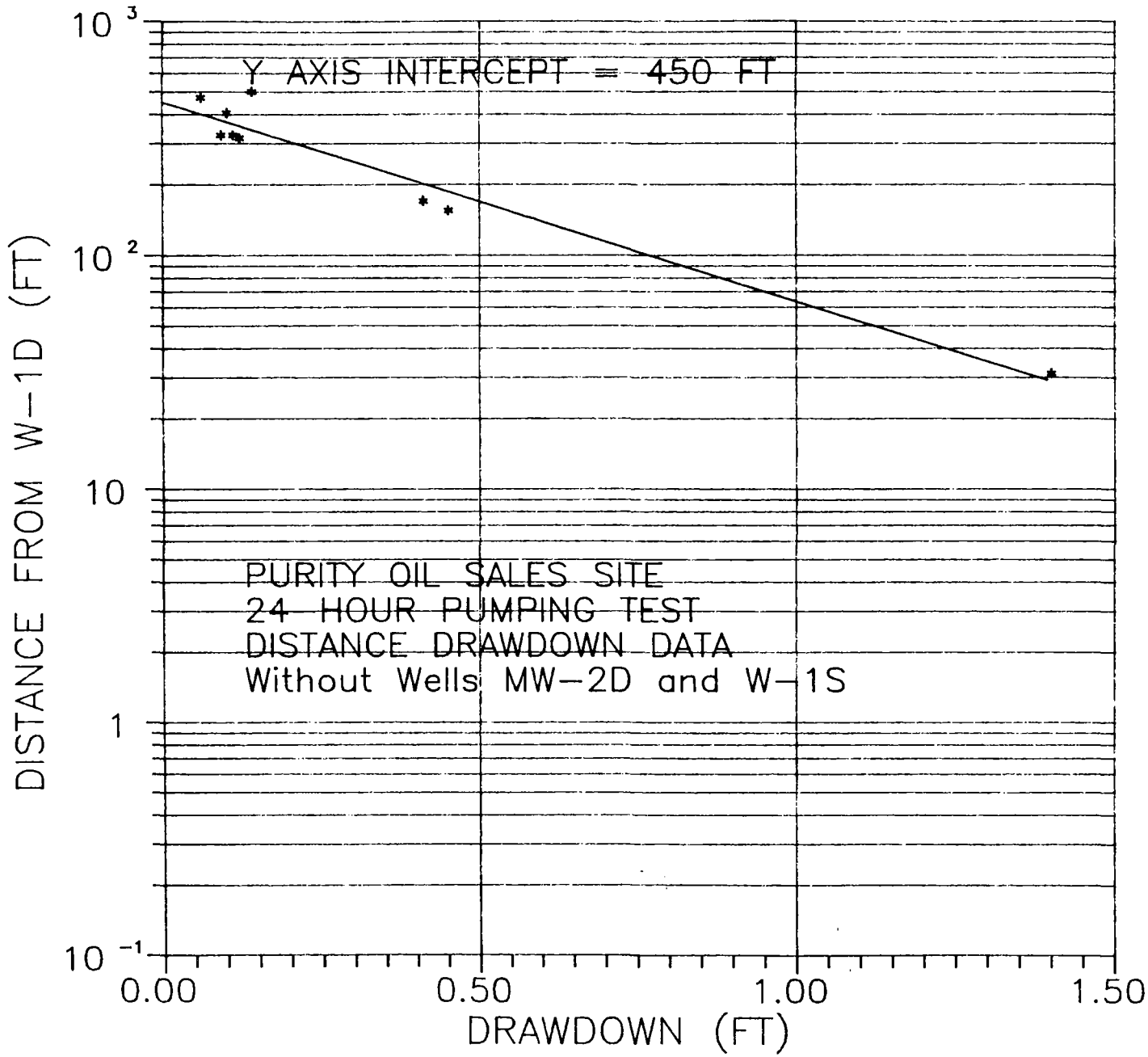

PURITY OIL SALES SITE
PUMPING TEST RECOVERY DATA
MW-5
MW-6
MW-9
RESIDUAL DRAWDOWN (ft)
10.00
5.00
0.00
-5.00
1
10
10 2
10 3
t/t'


PURITY OIL SALES SITE
PUMPING TEST RECOVERY DATA
MW-3
MW-4
MW-1D
RESIDUAL DRAWDOWN (ft)
40.00
30.00
20.00
10.00
0.00
-10.00
1
10
10 2
10 3
t/t'


PURITY OIL SALES SITE
PUMPING TEST RECOVERY DATA
MW-1S
MW-8
RESIDUAL DRAWDOWN (ft)
5.00
3.00
1.00
-1.00
1
10
10 2
10 3
t/t'

PLOTS OF JACOB'S DISTANCE-DRAWDOWN METHOD FOR 24-HOUR PUMP TEST RESULTS


Y AXIS INTERCEPT = 480 FT
PURITY OIL SALES SITE
24 HOUR PUMPING TEST
DISTANCE DRAWDOWN DATA
With Wells MW-2D and W-1S
DISTANCE FROM W-1D (FT)
DRAWDOWN (FT)
10 3
10 2
10
1
10 -1
0.00
0.50
1.00
1.50


Y AXIS INTERCEPT = 450 FT
PURITY OIL SALES SITE
24 HOUR PUMPING TEST
DISTANCE DRAWDOWN DATA
Without Wells MW-2D and W-1S
DISTANCE FROM W-1D (FT)
DRAWDOWN (FT)
10 3
10 2
10
1
10 -1
0.00
0.50
1.00
1.50

CH2M HILL

Black & Veatch
ICF
PRC
Ecology and Environment