FINAL

~~Draft~~ *Remedial Investigation Report*
Volume II
Appendices

Pfohl Brothers Landfill

Cheektowaga, New York
Site Number 9-15-043



Prepared For:

New York State
Department Of Environmental Conservation
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PFOHL BROTHERS LANDFILL

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VOLUME II

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Appendix A

1/8/91 pfholeo1
[filename = grndwatr]

GROUNDWATER SAMPLES

Sample No.	Media	Location	Volatiles	Semivolatiles	Pest/PCBs	Metals	Cyanide	Conventionals	Dissolved Metals	Dioxin
GW-1S-001	WATER	B	X	X	X	X	X			
GW-1S-002	WATER	B	X	X	X	X	X			X
GW-2S-001	WATER	B	X	X	X	X	X	X		X
GW-3S-001	WATER	B	X	X	X	X	X			
GW-3S-002	WATER	B	X	X	X	X	X			X
GW-4S-001	WATER	B	X	X	X	X	X			
GW-4S-002	WATER	B	X	X	X	X	X			X
GW-5S-001	WATER	C	X	X	X	X	X	X		
GW-5S-002	WATER	C		X	X	X	X			X
GW-6S-001	WATER	A	X	X	X	X	X	X		
GW-6S-002	WATER	A	X	X	X	X	X			X
GW-7S-001	WATER	C	X	X	X	X	X			
GW-7S-002	WATER	C	X	X	X	X	X			X
GW-8S-001	WATER	A	X	X	X	X	X			
GW-8S-002	WATER	A	X	X	X	X	X			X
GW-9S-001	WATER	C	X	X	X	X	X	X		
GW-9S-002	WATER	C	X	X	X	X	X	X	X	X
GW-10S-001	WATER	C	X	X	X	X	X			
GW-10S-002	WATER	C	X	X	X	X	X		X	X
GW-11S-001	WATER	B	X	X	X	X	X			X
GW-12S-001	WATER	A	X	X	X	X	X	X		
GW-12S-002	WATER	A	X	X	X	X	X			X

1/8/91 pfholeo1
[filename = grndwatr]

GROUNDWATER SAMPLES

Sample No.	Media	Location	Volatiles	Semivolatiles	Pest/PCBs	Metals	Cyanide	Conventionals	Dissolved Metals	Dioxin
GW-13S-001	WATER	B	X	X	X	X	X			X
GW-14S-001	WATER	C	X	X	X	X	X		X	X
GW-15S-001	WATER	B	X	X	X	X	X			X
GW-16S-001	WATER	B	X	X	X	X	X		X	X
GW-17S-001	WATER	C	X	X	X	X	X			X
GW-18S-001 Dup-14S	WATER	C	X	X	X	X	X		X	
GW-1D-001	WATER	B	X	X	X	X	X			
GW-1D-002	WATER	B	X	X	X	X	X			X
GW-2D-001	WATER	B	X	X	X	X	X	X		X
GW-3D-001	WATER	B	X	X	X	X	X	X		
GW-3D-002	WATER	B	X	X	X	X	X			X
GW-4D-001	WATER	B	X	X	X	X	X			
GW-4D-002	WATER	B	X	X	X	X	X			X
GW-5D-001	WATER	C	X	X	X	X	X	X		
GW-5D-002	WATER	C	X	X	X	X	X			X
GW-6D-001	WATER	A	X	X	X	X	X	X		
GW-6D-002	WATER	A	X	X	X	X	X			X
GW-7D-001	WATER	C	X	X	X	X	X			
GW-7D-002	WATER	C	X	X	X	X	X			X
GW-11D-001 Dup-3D	WATER	B	X	X	X					
GW-FB-001 (MW-6S)	WATER	--	X	X	X					

1/8/91 pfholeo1
[filename = grndwatr]

GROUNDWATER SAMPLES

Sample No.	Media	Location	Volatiles	Semivolatiles	Pest/PCBs	Metals	Cyanide	Conventionals	Dissolved Metals	Dioxin
GW-TB-001	WATER	--	X							
GW-TB-002	WATER	--	X							
GW-TB-003	WATER	--	X							
GW-TB-004	WATER	--	X							
GW-TB-005	WATER	--	X							
GW-TB-006	WATER	--	X							
GW-TB-007	WATER	--	X							

1/8/91 pfholeo1
[filename = leach]

LEACHATE SEEP AND SEDIMENT SAMPLES

Sample No.	Media	Location	Volatiles	Semivolatiles	Pest/PCBs	Metals	Cyanide	Conventionals	Dissolved Metals	Dioxin
SP-01-001	LEACHATE	B	X	X	X	X	X	X		
SP-02-001	LEACHATE	B	X	X	X	X	X			
SP-03-001	LEACHATE	B	X	X	X	X	X			
SP-04-001	LEACHATE	C	X	X	X	X	X			
SP-04-002	LEACHATE	C	X	X	X	X	X			
SP-05-001	LEACHATE	C	X	X	X	X	X	X		
SP-06-001	LEACHATE	C	X	X	X	X	X			
SP-07-001	LEACHATE	B	X	X	X	X	X			
SP-08-001	LEACHATE	C	X	X	X	X	X			
SP-09-001	LEACHATE	C	X	X	X	X	X	X		
SP-10-001	LEACHATE	B	X	X	X	X	X	X		
SP-11-001	LEACHATE	B	X	X	X	X	X	X		
SP-12-001	LEACHATE	B	X	X	X	X	X	X		
SP-13-001	LEACHATE	B	X	X	X	X	X			
SP-14-001	LEACHATE	B	X	X	X	X	X			
SP-15-001	LEACHATE	B	X	X	X	X	X	X		
SP-16-001	LEACHATE	B	X	X	X	X	X			
SP-17-001	LEACHATE	B	X	X	X	X	X			
SP-18-001	LEACHATE	C	X	X	X	X	X			
SP-TB-007	WATER	--	X							
SP-TB-008	WATER	--	X							
SP-TB-009	WATER	--	X							

1/8/91 pfholeo1
[filename = leach]

LEACHATE SEEP AND SEDIMENT SAMPLES

Sample No.	Media	Location	Volatiles	Semivolatiles	Pest/PCBs	Metals	Cyanide	Conventionals	Dissolved Metals	Dioxin
SP-TB-010	WATER	--	X							
SP-TB-011	WATER	--	X							
SS-01-001	SEDIMENT	B	X	X	X	X	X			X
SS-02-001	SEDIMENT	B	X	X	X	X	X			X
SS-03-001	SEDIMENT	B	X	X	X	X	X			X
SS-04-001	SEDIMENT	C	X	X	X	X	X			X
SS-04-002	SEDIMENT	C	X	X	X					X
SS-05-001	SEDIMENT	C	X	X	X	X	X			X
SS-06-001	SEDIMENT	C	X	X	X	X	X			X
SS-07-001	SEDIMENT	B	X	X	X	X	X			X
SS-08-001	SEDIMENT	C	X	X	X	X	X			X
SS-09-001	SEDIMENT	C	X	X	X	X	X			X
SS-10-001	SEDIMENT	B	X	X	X	X	X			X
SS-11-001	SEDIMENT	B	X	X	X	X	X			X
SS-12-001	SEDIMENT	B	X	X	X	X	X			X
SS-13-001	SEDIMENT	B	X	X	X	X	X			X
SS-14-001	SEDIMENT	B	X	X	X	X	X			X
SS-15-001	SEDIMENT	B	X	X	X	X	X			X
SS-16-001	SEDIMENT	B	X	X	X	X	X			X
SS-17-001	SEDIMENT	B	X	X	X	X	X			X
SS-18-001	SEDIMENT	C	X	X	X	X	X			X

1/9/91 pfholeo1
[filename = subsoil]

SUBSURFACE SOIL SAMPLES

Sample No.	Media	Location	Volatiles	Semivolatiles	Pest/PCBs	Metals	Cyanide	Conventionals
B1-SS-05	SOIL	A	X	X	X	X	X	X
B1-SS-06	SOIL	A	X	X	X	X	X	X
B2-SS-03	SOIL	A	X	X	X	X	X	X
B2-SS-05	SOIL	A	X	X	X	X	X	X
B3-FB-001	WATER	--	X	X	X	X	X	
B3-SS-6	SOIL	B	X	X	X	X	X	
B4-FB-001	WATER	--	X	X	X	X	X	
B4-SS-3	SOIL	B	X	X	X	X	X	
B4-SS-10	SOIL	B	X	X	X	X	X	
B5-SS-8	SOIL	B	X	X	X	X	X	
B6-FB-001	WATER	--	X	X	X	X	X	
B6-SS-7	SOIL	B	X	X	X	X	X	
B6-SS-7 Dup	SOIL	B	X	X	X	X	X	
B7-FB-001	WATER	--	X	X	X	X	X	
B7-SS-6	SOIL	B	X	X	X	X	X	
B8-FB-001	WATER	--	X	X	X	X	X	
B8-SS-8	SOIL	B	X	X	X	X	X	
B9-FB-001	WATER	--	X	X	X	X	X	
B9-SS-7	SOIL	B	X	X	X	X	X	
B9-SS-10	SOIL	B	X	X	X	X	X	
B10-FB-001	WATER	--	X	X	X	X	X	
B10-SS-2	SOIL	B	X	X	X	X	X	

1/9/91 pfholeo1
[filename = subsoil]

SUBSURFACE SOIL SAMPLES

Sample No.	Media	Location	Volatiles	Semivolatiles	Pest/PCBs	Metals	Cyanide	Conventionals
B10-SS-5	SOIL	B	X	X	X	X	X	
B11-FB-001	WATER	--	X	X	X	X	X	
B11-SS-7	SOIL	B	X	X	X	X	X	
B12-SS-1	SOIL	C	X	X	X	X	X	
B12-SS-4	SOIL	C	X	X	X	X	X	
B13-SS-4	SOIL	C	X	X	X	X	X	
B13-SS-567	SOIL	C	X	X	X	X	X	
B14-SS-5	SOIL	C	X	X	X	X	X	
B14-SS-13	SOIL	C	X	X	X	X	X	
B15-SS-6	SOIL	C	X	X	X	X	X	
B15-SS-13	SOIL	C	X	X	X	X	X	
B16-SS-8	SOIL	B	X	X	X	X	X	
B16-SS-10	SOIL	B	X	X	X	X	X	
MW-1D-SS-07	SOIL	B	X	X	X	X	X	X
MW-4D-SS-10	SOIL	B	X	X	X	X	X	X
MW-2S-SS-7	SOIL	B	X	X	X	X	X	
MW-2S-SS-11	SOIL	B	X	X	X	X	X	
MW-3S-SS-04	SOIL	B	X	X	X	X	X	X
MW-3S-SS-06	SOIL	B	X	X	X	X	X	X
MW-3S-SS-07	SOIL	B	X	X	X	X	X	X
MW-5S-SS-08	SOIL	C	X	X	X	X	X	

1/9/91 pfholeo1
[filename = subsoil]

SUBSURFACE SOIL SAMPLES

Sample No.	Media	Location	Volatiles	Semivolatiles	Pest/PCBs	Metals	Cyanide	Conventionals
MW-6S-SS-02	SOIL	A	X	X	X	X	X	X
MW-6S-SS-03	SOIL	A	X	X	X	X	X	X
MW-7S-SS-15	SOIL	C	X	X	X	X	X	X
MW-8S-SS-5	SOIL	A	X	X	X	X	X	X
MW-9S-SS-6	SOIL	C	X	X	X	X	X	X
MW-10S-SS-7	SOIL	C	X	X	X	X	X	X
MW-11S-SS-7	SOIL	B	X	X	X	X	X	X
MW-12S-SS-7	SOIL	A	X	X	X	X	X	X
MW-13S-SS-2	SOIL	B	X	X	X	X	X	
MW-13S-SS-6	SOIL	B	X	X	X	X	X	
MW-14S-SS-8	SOIL	C	X	X	X	X	X	
MW-14S-SS-12	SOIL	C	X	X	X	X	X	
MW-15S-SS-5	SOIL	B	X	X	X	X	X	
MW-16S-SS-1	SOIL	B	X	X	X	X	X	
MW-16S-SS-3	SOIL	B	X	X	X	X	X	
MW-16S-SS-3 Dup	SOIL	B	X	X	X	X	X	
MW-17S-SS-5	SOIL	C	X	X	X	X	X	
MW-17S-SS-11	SOIL	C	X	X	X	X	X	
MW-22S-SS-03 Dup-6S	SOIL	A	X	X	X	X	X	X

1/8/91 pfholeo1
[filename = testpit]

TEST PIT EXCAVATION AND DRUM SAMPLES

Sample No.	Media	Location	Volatiles	Semivolatiles	Pest/PCBs	Metals	Cyanide	E.P. Toxicity	Ignitability	Dioxin
DR-001-001	WASTE	B	X	X	X	X	X			
ED-1-001	WASTE	B	X	X	X	X	X			
HD-1-001	WASTE	B								X
PD-1-001	POLYMER DISK	B								X
DR-002-001	SOIL	B	X	X	X	X	X			
ED-2-001	WASTE	B	X	X	X	X	X			
HD-2-001	WASTE	B								X
DR-003-001	WASTE	B	X	X	X	X	X		X	X
ED-3-001	WASTE	B	X	X	X	X	X			X
HD-3-001	WASTE	B								X
DR-004-001	SOIL	B	X	X	X	X	X	X		
HD-4-001	WASTE	B								X
DR-005-001	SOIL	B	X	X	X	X	X	X		
HD-5-001	WASTE	B								X
HD-5-002	WASTE	B	X	X	X	X	X			
HD-5-003	WASTE	B	X	X	X	X	X		X	
HD-5-004	WASTE	B								X
HD-5-005	WASTE	B								X
DR-006-001	WASTE	C	X	X	X	X	X			
DR-007-001	WASTE	C	X	X	X	X	X			
DR-008-001	WASTE	B	X	X	X	X	X			X
DR-009-001	WASTE	C	X	X	X	X	X			

1/8/91 pfholeo1
[filename = testpit]

TEST PIT EXCAVATION AND DRUM SAMPLES

Sample No.	Media	Location	Volatiles	Semivolatiles	Pest/PCBs	Metals	Cyanide	E.P. Toxicity	Ignitability	Dioxin
DR-010-001	WASTE	C	X	X	X	X	X			
DR-011-001	WASTE	C	X	X	X	X	X		X	
GP-012-001	WASTE	B	X	X	X	X	X			X
DR-013-001	WASTE	B	X	X	X	X	X			X
DR-016-001	WASTE	B	X	X	X	X	X	X		
DR-018-001	WASTE	C	X	X	X	X	X			
DR-019-001	WASTE	C	X	X	X	X	X			X
DR-019-002	WASTE	C	X	X	X	X	X			
DR-020-001	WASTE	C	X	X	X	X	X			X
GP-021-001	SOIL	B	X	X	X	X	X			
DR-022-001	WASTE	C	X	X	X	X	X			X
DR-024-001	WASTE	C	X	X	X	X	X			
DR-026-001	WASTE	B	X	X	X	X	X	X		
GP-027-001	WASTE	B	X	X	X	X	X			X
DR-028-001	WASTE	B	X	X	X	X	X	X	X	
DR-029-001	SOIL	B	X	X	X	X	X	X		
GP-030-001	SOIL	B	X	X	X	X	X	X		
GP-031-001	SOIL	B	X	X	X	X	X			
DR-032-001	WASTE	B	X	X	X	X	X			
DR-033-001	WASTE	B	X	X	X	X	X	X		
DR-034-001	SOIL	C	X	X	X	X	X			

1/8/91 pfholeo1
[filename = testpit]

TEST PIT EXCAVATION AND DRUM SAMPLES

Sample No.	Media	Location	Volatiles	Semivolatiles	Pest/PCBs	Metals	Cyanide	E.P. Toxicity	Ignitability	Dioxin
DR-035-001	WASTE	B	X	X	X	X	X	X		
DR-036-001	WASTE	B	X	X	X	X	X			X
GP-037-001 Dup-12	WASTE	B	X	X	X	X	X			
DR-038-001	WASTE	B	X	X	X	X	X	X		
DR-039-001	WASTE	B	X	X	X	X	X			
DR-040-001 Dup-24	WASTE	C	X	X	X	X	X			
DR-041-001	WASTE	B	X	X	X	X	X			
DR-041-002	SOIL	B	X	X	X	X	X			
DR-042-001	WASTE	B	X	X	X	X	X			X
DR-042-002	SOIL	B	X	X	X	X	X			
DR-043-001	SOIL	B	X	X	X	X	X			
DR-045-001	WASTE	B	X	X	X	X	X		X	
DR-046-001	SOIL	C	X	X	X	X	X			
DR-047-001	WASTE	B	X	X	X	X	X			

1/8/91 pfholeo1
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SURFACE WATER AND SEDIMENT SAMPLES

Sample No.	Media	Location	Volatiles	Semivolatiles	Pest/PCBs	Metals	Cyanide	Conventionals	Dissolved Metals	Dioxin
SW-01-001	SURF. WATER	A	X	X	X	X	X	X		
SW-02-001	SURF. WATER	C	X	X	X	X	X	X		
SW-03-001	SURF. WATER	A	X	X	X	X	X			
SW-04-001	SURF. WATER	C	X	X	X	X	X			
SW-05-001	SURF. WATER	C	X	X	X	X	X	X		
SW-06-001	SURF. WATER	B	X	X	X	X	X			
SW-07-001	SURF. WATER	B	X	X	X	X	X			
SW-07-002	SURF. WATER	B	X	X	X					
SW-08-001	SURF. WATER	ELLI. CRK.	X	X	X	X	X	X		
SW-09-001	SURF. WATER	B	X	X	X	X	X			
SW-10-001	SURF. WATER	B	X	X	X	X	X	X		
SW-11-001	SURF. WATER	AERO LAKE	X	X	X	X	X			
SW-12-001	SURF. WATER	AERO LAKE	X	X	X	X	X	X		
SW-13-001	SURF. WATER	AERO LAKE	X	X	X	X	X	X		
SW-14-001	SURF. WATER	A	X	X	X	X	X			
SW-15-001	SURF. WATER	C	X	X	X	X	X			
SW-16-001	SURF. WATER	C	X	X	X	X	X			
SW-TB-001	SURF. WATER	--	X							
SW-TB-002	SURF. WATER	--	X							
SW-TB-003	SURF. WATER	--	X							
SW-TB-004	SURF. WATER	--	X							
SW-TB-005	WATER	--	X							

1/8/91 pfholeo1
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SURFACE WATER AND SEDIMENT SAMPLES

Sample No.	Media	Location	Volatiles	Semivolatiles	Pest/PCBs	Metals	Cyanide	Conventionals	Dissolved Metals	Dioxin
SW-TB-006	WATER	--	X							
SE-01-001	SEDIMENT	A	X	X	X	X	X			X
SE-02-001	SEDIMENT	C	X	X	X	X	X			X
SE-03-001	SEDIMENT	A	X	X	X	X	X			X
SE-04-001	SEDIMENT	C	X	X	X	X	X			X
SE-05-001	SEDIMENT	C	X	X	X	X	X			X
SE-06-001	SEDIMENT	B	X	X	X	X	X			X
SE-07-001	SEDIMENT	B	X	X	X	X	X			X
SE-07-002	SEDIMENT	B	X	X	X					X
SE-08-001	SEDIMENT	ELLI. CRK.	X	X	X	X	X			X
SE-09-001	SEDIMENT	B	X	X	X	X	X			X
SE-10-001	SEDIMENT	B	X	X	X	X	X			X
SE-11-001	SEDIMENT	AERO LAKE	X	X	X	X	X			X
SE-12-001	SEDIMENT	AERO LAKE	X	X	X	X	X			X
SE-13-001	SEDIMENT	AERO LAKE	X	X	X	X	X			X
SE-14-001	SEDIMENT	A	X	X	X	X	X			X
SE-15-001	SEDIMENT	C	X	X	X	X	X			X
SE-16-001	SEDIMENT	C	X	X	X	X	X			X
SE-17-001	SEDIMENT	C	X	X	X	X	X			X
SE-18-001	SEDIMENT	ELLI. CRK.	X	X	X	X	X			X
SE-19-001	SEDIMENT	ELLI. CRK.	X	X	X	X	X			X

1/8/91 pfholeo1
[filename = surfsed]

SURFACE WATER AND SEDIMENT SAMPLES

Sample No.	Media	Location	Volatiles	Semivolatiles	Pest/PCBs	Metals	Cyanide	Conventionals	Dissolved Metals	Dioxin
SE-FB-001	WATER	--	X	X	X	X	X			

Appendix B

CAMP DRESSER & MCKEE — TEST PIT LOG

PROJECT: Pfohl Brothers Landfill
CONTRACTOR: Sevenson Envir. Servs.

WEATHER: N.A.
INSPECTOR: M. Zotto

DATE: 10/18/89
LOCATION: 30+50, 70'-80'N

TEST PIT NO.: TP-1
TIME START/END: 11:40/12:30

LEVEL OF PROTECTION: "B"
PHOTO I.D.:

MONITORING INSTRUMENTS: HNu/OVA/RAD

DRUMS ENCOUNTERED/OVER-PACKED: 4 drums/none

GENERAL OBSERVATIONS: Four crushed drums were found during the excavation. One drum contained black, solidified, shiny material that had concoidal fractures along its surface. The other drum contained a pasty green material. The drums did not emit detectable volatile organic vapors. The total depth of the pit is 9 feet. There were no readings over the test pit with the OVA or RAD meters.

DEPTH TO WATER: 8 feet

DEPTH OF FILL: 6 feet

(ANALYTICAL SAMPLES)

Sample No.	Description	HNu/OVA/RAD	Major Org. Contaminants	Level
DR-01-01	green substance in drum	0/0/0	methylene chloride	1400 B

(RETAIN SAMPLES)

Sample No.	Description	HNu/OVA/RAD
RE-28	black shiny substance in drum	0/0/0
RE-29	brown granular substance from cardboard box found in the pit	0/0/0
RE-30	native soil (clay) at a depth of 6 feet	0/0/0

CAMP DRESSER & MCKEE **TEST PIT LOG**

PROJECT: Pfohl Brothers Landfill CONTRACTOR: Sevenson Envir. Servs.

WEATHER: cool, light wind, cloudy INSPECTOR: S.Anton, B.Alter

DATE: 10/24/89 LOCATION: 19+00 525-538'N, 24'E

TEST PIT NO.: TP-02 TIME START/END: 13:10/14:30

LEVEL OF PROTECTION: "B" PHOTO I.D.:

MONITORING INSTRUMENTS: HNu/OVA/RAD/Explosimeter

DRUMS ENCOUNTERED/OVER-PACKED: 12 drums/1 over-pack (1-85 gal.)

GENERAL OBSERVATIONS: This excavation uncovered wood, glass and approximately 12 drums. Most of the drums were exposed and found at or near the surface. A retain sample of a very dark purple substance and of a black stained soil was encountered 12 feet below grade. HNu reading in the pit was not above background. Bottom of test pit at 12 feet.

DEPTH TO WATER: 7 feet

DEPTH OF FILL: 12 feet

(ANALYTICAL SAMPLES)

Sample No.	Description	HNu/OVA/RAD	Major Org. Contaminants	Level
DR-02-01	black stained soil	0/0/0	methylene chloride naphthalene 2-methylnaphthalene	2300 J 6 J 12 J

(RETAIN SAMPLES)

Sample No.	Description	HNu/OVA/RAD
RE-38	dark purple substance found in pit	0/0/0
RE-39	black stained soil	0/0/0
RE-40	undisturbed soil at 12 feet b.g.s.	0/0/0

CAMP DRESSER & MCKEE **TEST PIT LOG**

PROJECT: Pfohl Brothers Landfill CONTRACTOR: Sevenson Envir. Servs.

WEATHER: cloudy, light wind, cool INSPECTOR: S.Anton, B.Alter

DATE: 10/25/89 LOCATION: 16+00, 430'-442'N, 30'E

TEST PIT NO.: TP-03 TIME START/END: 08:40/10:40

LEVEL OF PROTECTION: "B" PHOTO I.D.:

MONITORING INSTRUMENTS: HNu/OVA/RAD/Explosimeter/HCN meter

DRUMS ENCOUNTERED/OVER-PACKED: 3 drums/none

GENERAL OBSERVATIONS: Twelve empty drums were visible at the surface near the test pit. The test pit contained bottles, plaster, wood and 2 drums. The first drum encountered was empty. The second drum contained a brown oily substance that pegged the OVA on the 100 scale (i.e., >1000 ppm). A sample was collected for analytical purposes. The third drum encountered was crushed. The majority of the pit appears to contain crushed drums. The soil is rust in color. OVA reads 15-30 ppm when scanning drums in pit.

DEPTH TO WATER: not encountered

DEPTH OF FILL: 15 feet

(ANALYTICAL SAMPLES)

Sample No.	Description	HNu/OVA/RAD	Major Org. Contaminants	Level
DR-03-01	brown, sticky substance from 2nd drum	0/>1000/0	methylene chloride toluene phenols dibenzonfuran	14000 BJ 13000 J 310-22K 18 J

(RETAIN SAMPLES)

Sample No.	Description	HNu/OVA/RAD
RE-41	black sludge-like material in drum	0/15-30/0
RE-42	undisturbed soil (clay) at a depth of 15 feet	0/0/0

CAMP DRESSER & MCKEE **TEST PIT LOG**

PROJECT: Pfohl Brothers Landfill
CONTRACTOR: Sevenson Envir. Servs.

WEATHER: N.A.
INSPECTOR: M.Zotto

DATE: 10/11/89
LOCATION: 26+50, 750'-774'N

TEST PIT NO.: TP-04
TIME START/END: 14:15/15:38

LEVEL OF PROTECTION: "B"
PHOTO I.D.:

MONITORING INSTRUMENTS: OVA/RAD

DRUMS ENCOUNTERED/OVER-PACKED: none/none

GENERAL OBSERVATIONS: The test pit contained a large amount of building material in addition to household trash, wood, styrofoam, plastic, rubber hoses, grey fibrous insulation, and bottle. A large polymer disk was drummed. An analytical sample was taken of a yellow rubbery substance that was found in the test pit. The yellow substance registered 10 ppm on the OVA. The OVA read between 10-30 ppm upon scanning the pit at various depths.

DEPTH TO WATER: 10-12 feet

DEPTH OF FILL: 15 feet

(ANALYTICAL SAMPLES)

Sample No.	Description	HNu/OVA/RAD	Major Org. Contaminants	Level
DR-04-01	yellow rubbery substance	-/-/-	carbon disulfide 2-butanone chlorobenzene ethylbenzene xylenes PAH's dibenzofuran toluene	63 34 J 30 J 230 25 J 2.5K-29K 2700 J 15 J

(RETAIN SAMPLES)

Sample No.	Description	HNu/OVA/RAD
RE-13	undisturbed soil from a depth of 15 feet	-/-/-
RE-14	black shiny substance found at surface, 50 feet south of test pit	-/-/-

CAMP DRESSER & MCKEE **TEST PIT LOG**

PROJECT: Pfohl Brothers Landfill
CONTRACTOR: Sevenson Envir. Servs.

WEATHER: N.A.
INSPECTOR: M.Zotto, T.Ryan

DATE: 10/10/89
LOCATION: 18+50, 160'-180'N

TEST PIT NO.: TP-05
TIME START/END: 14:00/15:45

LEVEL OF PROTECTION: "B"
PHOTO I.D.:

MONITORING INSTRUMENTS: OVA/RAD

DRUMS ENCOUNTERED/OVER-PACKED: none/none

GENERAL OBSERVATIONS: Two layers of trash were encountered. The first layer was from 2' to 5'. Below this layer was a layer of fine black sand (looks like foundary sand). Below the sand layer was a grey colored material. The grey material was sampled for analytical purposes. There were no readings above background on the OVA. The HNu was not used due to inclement weather.

DEPTH TO WATER: 3 feet

DEPTH OF FILL: 16 feet

(ANALYTICAL SAMPLES)

Sample No.	Description	HNu/OVA/RAD	Major Org. Contaminants	Level
DR-05-01	grey material below 5 feet in depth	-/0/-	methylene chloride acetone bis(2)phthalate	56 J 230 BJ 950 J

(RETAIN SAMPLES)

Sample No.	Description	HNu/OVA/RAD
RE-07	black, fine grained sand from 2 to 5 feet	-/0/-

CAMP DRESSER & MCKEE **TEST PIT LOG**

PROJECT: Pfohl Brothers Landfill
CONTRACTOR: Sevenson Envir. Servs.

WEATHER: N.A.
INSPECTOR: S.Anton, T.Ryan

DATE: 10/28/89
LOCATION: 27+00, 663'-675'S

TEST PIT NO.: TP-06
TIME START/END: 13:15/14:40

LEVEL OF PROTECTION: "B"
PHOTO I.D.:

MONITORING INSTRUMENTS: HNu/OVA/RAD

DRUMS ENCOUNTERED/OVER-PACKED: 6 drums/none

GENERAL OBSERVATIONS: The test pit uncovered household trash and 6 drums. The drums contained a very hard black/purple substance. An analytical sample, as well as a retain sample was collected from the substance. Some black to grey colored fibrous material was uncovered at a depth of 3 feet. Grey ash was also observed in the pit at about 6 feet. Construction material was observed at a depth of 6'-7' feet. The ash-like material was again observed through a depth of 8 feet. A reading of 4 ppm was obvserve

DEPTH TO WATER: not encountered

DEPTH OF FILL: 9 feet

(ANALYTICAL SAMPLES)

Sample No.	Description	HNu/OVA/RAD	Major Org. Contaminants	Level
DR-06-01	black/purple substance in drums	-/-/-	methylene chloride bis(2)phthalate	1200 B 4 J

(RETAIN SAMPLES)

Sample No.	Description	HNu/OVA/RAD
RE-49	black/purple substance in drums	-/-/-
RE-50	grey ash in pit at depth of 6 feet	-/-/-
RE-51	undisturbed soil from depth of 9 feet	-/-/-

CAMP DRESSER & MCKEE **TEST PIT LOG**

PROJECT: Pfohl Brothers Landfill
CONTRACTOR: Sevenson Envir. Servs.

WEATHER: partly sunny, windy
INSPECTOR: M.Zotto, S. Flakus, F. Lawson, T. Ryan

DATE: 11/06/89
LOCATION: 32+00, 177'-192'S

TEST PIT NO.: TP-07
TIME START/END: 11:30/12:20

LEVEL OF PROTECTION: "B"
PHOTO I.D.:

MONITORING INSTRUMENTS: OVA

DRUMS ENCOUNTERED/OVER-PACKED: 2 drums/1 over-pack (1-85 gal.)

GENERAL OBSERVATIONS: Two drums were found during the excavation. One drum was empty, the other contained a black soil-like material that registered 90 ppm on the OVA. An analytical sample and retain sample was taken of the material. A white substance was also observed in the pit. The substance retained. A radioactive hot spot (240,00 cpm) was detected but turned out to be a piece of granite.

DEPTH TO WATER: 3 feet

DEPTH OF FILL: 5 feet

(ANALYTICAL SAMPLES)

Sample No.	Description	HNu/OVA/RAD	Major Org. Contaminants	Level
DR-07-01	black soil-like substance in drum	-/90/-	methylene chloride acetone chlorobenzene ethylbenzene xylenes	230 J 1600 J 70 38 J 170 J

(RETAIN SAMPLES)

Sample No.	Description	HNu/OVA/RAD
RE-66	ground water	-/-/-
RE-67	undisturbed soil	-/-/-
RE-68	black soil-like material in drum number 1.	-/-/-
RE-69	white substance observed in pit	-/-/-

CAMP DRESSER & MCKEE **TEST PIT LOG**

PROJECT: Pfohl Brothers Landfill CONTRACTOR: Sevenson Envir. Servs.

WEATHER: cool, light wind, cloudy INSPECTOR: S.Anton, B.Alter

DATE: 10-24-89 LOCATION: 26+50, 550'-565'N

TEST PIT NO.: TP-08 TIME START/END: 08:30/10:45

LEVEL OF PROTECTION: "B" PHOTO I.D.:

MONITORING INSTRUMENTS: HNu/OVA/RAD/Explosimeter

DRUMS ENCOUNTERED/OVER-PACKED: 5 drums/3 over-packs (2-85 gal. & 1-110 gal.)

GENERAL OBSERVATIONS: The excavation uncovered pieces of wood and approximately 5 drums. Three drums contained a black, hard, shiny waste material. OVA reading 8 ppm. A black rubbery substance was found in another drum; a sample was retained. The HNu did not register above background. A brown powdery substance was found in the last drum; an analytical sample was collected. The OVA and HNu read at background levels upon scanning the powdery substance. The total depth of the test pit is 8 feet.

DEPTH TO WATER: not encountered

DEPTH OF FILL: not encountered

(ANALYTICAL SAMPLES)

Sample No.	Description	HNu/OVA/RAD	Major Org. Contaminants	Level
DR-08-01	brown powdery substance in drum	0/0/0	methylene chloride	11000 B (dup)
			acetone	11000 J
DR-39-01	duplicate of DR-08			(dup)
			phenol	9200
			dibenzofuran	26K(dup)

(RETAIN SAMPLES)

Sample No.	Description	HNu/OVA/RAD
RE-33	black rubbery substance in drum	0/0/0
RE-34	brown powdery substance	0/0/0
RE-35	black stained soil from a depth of 8 feet	0/0/0
RE-36, 37	brown substance in drums	0/0/0

CAMP DRESSER & MCKEE **TEST PIT LOG**

PROJECT: Pfohl Brothers Landfill
CONTRACTOR: Sevenson Envir. Servs.

WEATHER: sunny, warm
INSPECTOR: M.Zotto, T.Ryan

DATE: 10/30/89
LOCATION: 34+50, 868'-888'S

TEST PIT NO.: TP-09
TIME START/END: 12:50/13:45

LEVEL OF PROTECTION: "B"
PHOTO I.D.:

MONITORING INSTRUMENTS: HNu/OVA/RAD

DRUMS ENCOUNTERED/OVER-PACKED: 5 drums/1 over-pack (1-85 gal.)

GENERAL OBSERVATIONS: Rubber hoses and 5 drums were uncovered during the excavation. Four of the drums contained a red-brown resin-like material, similar to that found in TP-06. The fifth drum contained a caramel colored, taffy-like material; an analytical sample was taken.

DEPTH TO WATER: not encountered

DEPTH OF FILL: 9 feet

(ANALYTICAL SAMPLES)

Sample No.	Description	HNu/OVA/RAD	Major Org. Contaminants	Level
DR-09-01	taffy-like material in 5th drum	0/0/0	4-methyl-2-pentanone phenol 2,methylphenol 4,methylphenol dibenzofuran pentachlorophenol	240K J 140K DJ 190 J 680 J 280 J 560 J

(RETAIN SAMPLES)

Sample No.	Description	HNu/OVA/RAD
RE-52	undisturbed soil (clay) from a depth of 9 feet	0/0/0

CAMP DRESSER & MCKEE **TEST PIT LOG**

PROJECT: Pfohl Brothers Landfill
CONTRACTOR: Sevenson Envir. Servs.

WEATHER: sunny, cold
INSPECTOR: S.Anton, B.Alter

DATE: 10/27/89
LOCATION: 28+00 10'E, 327'-340'S

TEST PIT NO.: TP-10
TIME START/END: 08:05/11:00

LEVEL OF PROTECTION: "B"
PHOTO I.D.:

MONITORING INSTRUMENTS: HNu/OVA/RAD

DRUMS ENCOUNTERED/OVER-PACKED: 8 drums/none

GENERAL OBSERVATIONS: Eight drums along with some household trash were uncovered in the test pit. Five of the drums were empty. Two drums contained a hard, black material that had a powdery texture. The third drum contained a black/brown liquid that registered 200 ppm on the OVA; an analytical sample was taken. Some greenish-white powder flake material was also observed in the testpit. The test pit was terminated before reaching the undisturbed soil horizon due to the abundance of broken drums in the pit. Drums that were sampled were covered with plastic prior to backfilling.

DEPTH TO WATER: not encountered

DEPTH OF FILL: not encountered

(ANALYTICAL SAMPLES)

Sample No.	Description	HNu/OVA/RAD	Major Org. Contaminants	Level
DR-10-01	black/brown substance in 3rd drum	0/200/0	methylene chloride toluene xylene bis(2)phthalate	140K B 4200K D 13K J 160 J

(RETAIN SAMPLES)

Sample No.	Description	HNu/OVA/RAD
RE-46,47	black powdery material in first two drums	0/0/0
RE-48	greenish-white powder flake substance in pit	0/0/0

CAMP DRESSER & MCKEE **TEST PIT LOG**

PROJECT: Pfohl Brothers Landfill
CONTRACTOR: Sevenson Envir. Servs.

WEATHER: sunny, cold
INSPECTOR: S.Anton, M.Zotto, T.Ryan

DATE: 11/01/89
LOCATION: 35+50 to 35+70, 310'S

TEST PIT NO.: TP-11
TIME START/END: 08:40/9:00

LEVEL OF PROTECTION: "B"
PHOTO I.D.:

MONITORING INSTRUMENTS: HNu/OVA/RAD

DRUMS ENCOUNTERED/OVER-PACKED: 2 drums/1 over-pack (1-85 gal.)

GENERAL OBSERVATIONS: The test pit was dug in a concrete storage yard. The excavation uncovered bricks, concrete blocks and 2 drums. The first drum appeared empty, but had an OVA reading of 7 ppm above background. An analytical sample was collected from the second, smaller drum. The two drums were together placed in an over-pack container. A second retain sample was collected of some black, pasty material observed in the pit. The test pit did not reach ground water or the native soil horizon. The excavation was terminated upon observing some black pasty material leaking into the pit.

DEPTH TO WATER: not encountered

DEPTH OF FILL: not encountered

(ANALYTICAL SAMPLES)

Sample No.	Description	HNu/OVA/RAD	Major Org. Contaminants	Level
DR-11-01	contents of 2nd drum	0/1000/0	1,2-dichloroethene trichloroethene toluene ethylbenzene xylene PAH's phenols	41K 51K 390K 310K 1300K DJ 240-450J 160 J- 710 J

(RETAIN SAMPLES)

Sample No.	Description	HNu/OVA/RAD
RE-56	black pasty material observed in pit	0/1000/0
RE-57	black pasty material leaking into pit	-/-/-
RE-58	stained soil surrounding drum	-/7/-

CAMP DRESSER & MCKEE **TEST PIT LOG**

PROJECT: Pfohl Brothers Landfill
CONTRACTOR: Sevenson Envir. Servs.

WEATHER: N.A.
INSPECTOR: M.Zotto, B.Alter, T.Ryan

DATE: 10/05/89
LOCATION: 14+50, 580'-600'N

TEST PIT NO.: TP-12
TIME START/END: 08:00/10:00

LEVEL OF PROTECTION: "B"
PHOTO I.D.:

MONITORING INSTRUMENTS: HNu/OVA/RAD

DRUMS ENCOUNTERED/OVER-PACKED: none/none

GENERAL OBSERVATIONS: The test pit was located between two partially exposed clusters of drums. A large amount of trash, bottles and roofing materials were encountered. One drum in the exposed drum cluster east of the test pit contained black liquid; an analytical sample was collected. There were no readings above background in the pit on either the HNu or OVA.

DEPTH TO WATER: 5 feet

DEPTH OF FILL: 15 feet

(ANALYTICAL SAMPLES)

Sample No.	Description	HNu/OVA/RAD	Major Org. Contaminants	Level
GP-12-01	black liquid in exposed drum	-/-/-	toluene ethylbenzene xylenes	2100 dup 1500 7600
GP-12-01 (DUP)	blind duplicate of above sample	-/-/-	dibenzofuran 2,4-methylphenol	18K 330 J

(RETAIN SAMPLES)

Sample No.	Description	HNu/OVA/RAD
RE-01	undisturbed soil from a depth of 15 feet	-/-/-

CAMP DRESSER & MCKEE **TEST PIT LOG**

PROJECT: Pfohl Brothers Landfill
CONTRACTOR: Sevenson Envir. Servs.

WEATHER: calm
INSPECTOR: M.Zotto, T.Ryan

DATE: 10/09/89
LOCATION: 16+50, 1320'-1340'N

TEST PIT NO.: TP-13
TIME START/END: 08:20/11:20

LEVEL OF PROTECTION: "B"
PHOTO I.D.:

MONITORING INSTRUMENTS: HNu/OVA/RAD

DRUMS ENCOUNTERED/OVER-PACKED: 4 drums/5 over-packs

GENERAL OBSERVATIONS: The excavation unearthed construction debris, metal, plastic, rubber hoses, wood, tires and a bed frame. Four drums were found in the pit. The first drum contained a black liquid. The second and third drum contained a black, solidified material. The fourth drum contained a black pasty substance that appeared to solidify when exposed to the atmosphere; an analytical sample was taken. "Pod" shaped cylinders were also found in the pit. The drums and cylinders were placed in over-pack containers.

DEPTH TO WATER: 8 feet

DEPTH OF FILL: 12 to 15 feet

(ANALYTICAL SAMPLES)

Sample No.	Description	HNu/OVA/RAD	Major Org. Contaminants	Level
DR-13-01	black pasty substance in 4th drum	300/-/-	chlorobenzene ethylbenzene xylenes naphthalene	6700 11K 120K 320 J

(RETAIN SAMPLES)

Sample No.	Description	HNu/OVA/RAD
RE-04	undisturbed soil from a depth of 12 to 15 feet	-/-/-

CAMP DRESSER & MCKEE **TEST PIT LOG**

PROJECT: Pfohl Brothers Landfill
CONTRACTOR: Sevenson Envir. Servs.

WEATHER: sunny, cool
INSPECTOR: M.Zotto, T.Ryan

DATE: 10/16/89
LOCATION: 25+50 6'E, 1162'-1183'N

TEST PIT NO.: TP-14
TIME START/END: 09:20/09:56

LEVEL OF PROTECTION: "B"
PHOTO I.D.:

MONITORING INSTRUMENTS: HNu/OVA/RAD

DRUMS ENCOUNTERED/OVER-PACKED: 2 drums/none

GENERAL OBSERVATIONS: Pieces of wood, rubber hose, bricks, plaster, plastic, grinding stones and metal frames were found in the test pit. Two drum were found. One drum contained a rag. The second drum was empty, but was labeled "R30 8/19/68; ICC 2SI-TD; Willmington Delaware Plastics--Hydrogen Peroxide 35%". No analytical samples were collected.

DEPTH TO WATER: 8 feet

DEPTH OF FILL: 28 feet

(ANALYTICAL SAMPLES)

Sample No.	Description	HNu/OVA/RAD	Major Org. Contaminants	Level
none				

(RETAIN SAMPLES)

Sample No.	Description	HNu/OVA/RAD
RE-20	undisturbed soil (clay)	-/-/-
RE-22	rag in drum	-/50/-

CAMP DRESSER & MCKEE **TEST PIT LOG**

PROJECT: Pfohl Brothers Landfill
CONTRACTOR: Sevenson Envir. Servs.

WEATHER: sunny, warm
INSPECTOR: M.Zotto, B.Alter, S.Flakus

DATE: 10/31/89
LOCATION: 39+50, 579'-594'S

TEST PIT NO.: TP-15
TIME START/END: 08:35/9:00

LEVEL OF PROTECTION: "B"
PHOTO I.D.:

MONITORING INSTRUMENTS: HNu/OVA/RAD/Explosimeter

DRUMS ENCOUNTERED/OVER-PACKED: none

GENERAL OBSERVATIONS: The test pit uncovered lumber, scrap metal, tires, building stone and fiber insulation. No drums were observed and the levels recorded by the OVA and HNu did not exceed background levels. The native soil horizon, consisting of green-grey clay, was encountered at a depth of 13 feet. A red-brown clay was observed at a depth of 14.5 feet. The OVA and HNu did not register above background during the excavation.

DEPTH TO WATER: not encountered

DEPTH OF FILL: 13 feet

(ANALYTICAL SAMPLES)

Sample No.	Description	HNu/OVA/RAD	Major Org. Contaminants	Level
none				

(RETAIN SAMPLES)

Sample No.	Description	HNu/OVA/RAD
RE-53	green-grey undisturbed clay at 13 feet	-/-/-
RE-54	red-brown clay at 14.5 feet	-/-/-

CAMP DRESSER & MCKEE **TEST PIT LOG**

PROJECT: Pfohl Brothers Landfill
CONTRACTOR: Sevenson Envir. Servs.

WEATHER: cool
INSPECTOR: M.Zotto, B.Alter

DATE: 10/11/89
LOCATION: 29+00, 937'-952'N

TEST PIT NO.: TP-16
TIME START/END: 09:25/11:15

LEVEL OF PROTECTION: "B"
PHOTO I.D.:

MONITORING INSTRUMENTS: OVA/RAD

DRUMS ENCOUNTERED/OVER-PACKED: 2 drums/1 overpack

GENERAL OBSERVATIONS: The location of TP-16 had a lot of garbage on the surface. The excavation exposed wood, plastic, scrap metal and car parts. Grey fibrous material was encountered at a depth of 3 feet. A retain sample was collected of the substance. Two crushed drums were uncovered. The silver colored drum pegged the OVA (>1000 ppm); an analytical sample was taken. The second drum was labeled: "lubricants reduce wear". A retain sample was taken of the red colored contents of the drum. Both drums were placed in one over-pack drum. A greenish-white substance was observed along the north side of the test pit; a sample was retained. The OVA read 10 ppm. OVA read 60-70 ppm upon scanning the pit at a depth of 8 feet.

DEPTH TO WATER: 12 feet

DEPTH OF FILL: 15 feet

(ANALYTICAL SAMPLES)

Sample No.	Description	HNu/OVA/RAD	Major Org. Contaminants	Level
DR-16-01	contents of silver drum	-/>1000/-	chlorobenzene xylenes phenols PAH's butylbenzylphthalate	11K 53K 25K-120K 13K-170K 49K J

(RETAIN SAMPLES)

Sample No.	Description	HNu/OVA/RAD
RE-09	gray fibrous material at depth of 3 feet	-/-/-
RE-10	greenish-white substance on north side of pit	-/10/-
RE-11	undisturbed soil from depth of 15 feet	-/-/-
RE-12	red substance from 2nd drum	-/-/-

CAMP DRESSER & MCKEE **TEST PIT LOG**

PROJECT: Pfohl Brothers Landfill
CONTRACTOR: Sevenson Envir. Servs.

WEATHER: cold, drizzling
INSPECTOR: M.Zotto, B.Alter

DATE: 10/18/89
LOCATION: 38+00 15'E, 759'-780'N

TEST PIT NO.: TP-17
TIME START/END: 08:45/9:30

LEVEL OF PROTECTION: "B"
PHOTO I.D.:

MONITORING INSTRUMENTS: OVA/RAD

DRUMS ENCOUNTERED/OVER-PACKED: 1 drum/none

GENERAL OBSERVATIONS: The test pit uncovered truck tires, rubber hoses, scrap metal, concrete blocks, wood and plastic bags. One drum was uncovered that was empty. There were no elevated gamma or OVA reading observed upon scanning the drum. There were no analytical samples taken. A retain sample was collected of some black-stained soil from a depth of 6 feet.

DEPTH TO WATER: 6-7 feet

DEPTH OF FILL: 12 feet

(ANALYTICAL SAMPLES)

Sample No.	Description	HNu/OVA/RAD	Major Org. Contaminants	Level
none				

(RETAIN SAMPLES)

Sample No.	Description	HNu/OVA/RAD
RE-26	black stained soil from a depth of 6 feet	-/-/-
RE-27	undisturbed soil from a depth of 12 feet	-/-/-
		-/-/-
		-/-/-

CAMP DRESSER & MCKEE **TEST PIT LOG**

PROJECT: Pfohl Brothers Landfill
CONTRACTOR: Sevenson Envir. Servs.

WEATHER: cool, sunny
INSPECTOR: M.Zotto, B.Alter

DATE: 11/02/89
LOCATION: 33+00, 1139'-1160'S

TEST PIT NO.: TP-18
TIME START/END: 10:50/11:30

LEVEL OF PROTECTION: "B"
PHOTO I.D.:

MONITORING INSTRUMENTS: HNu/OVA/RAD

DRUMS ENCOUNTERED/OVER-PACKED: 2 drums/1 over-pack (1-85 gal.)

GENERAL OBSERVATIONS: Two drums were observed at the ground surface. The excavation revealed wire, household trash and 2 additional drums. One of the buried drums contained a black spongy material with an OVA reading of 200 ppm and an HNu reading of 80 ppm; an analytical sample was collected. The drum was subsequently over-packed. The other drum was empty.

DEPTH TO WATER: not encountered

DEPTH OF FILL: 3.5 feet

(ANALYTICAL SAMPLES)

Sample No.	Description	HNu/OVA/RAD	Major Org. Contaminants	Level
DR-18-01	black spongy substance in drum	80/200/-	1,1-dichloroethane 1,1,1-trichloroethene benzene toluene ethylbenzene xylenes PAH's 1,2-dichlorobenzene	290 4600 D 13 J 99 6200 D 52K D 200-1100 280 J

(RETAIN SAMPLES)

Sample No.	Description	HNu/OVA/RAD
RE-62	undisturbed soil from depth of 3.5 feet	-/-/-

CAMP DRESSER & MCKEE **TEST PIT LOG**

PROJECT: Pfohl Brothers Landfill
CONTRACTOR: Sevenson Envir. Servs.

WEATHER: sunny, warm
INSPECTOR: M.Zoto, S.Flakus

DATE: 10/31/89
LOCATION: 40+50 24'E, 485'-500'S

TEST PIT NO.: TP-19
TIME START/END: 11:05/12:30

LEVEL OF PROTECTION: "B"
PHOTO I.D.:

MONITORING INSTRUMENTS: HNu/OVA/RAD

DRUMS ENCOUNTERED/OVER-PACKED: 6 drums/4 over-packs (4-85 gal.)

GENERAL OBSERVATIONS: Six drums were unearthed in the test pit. Three of the drums contained a black pasty substance. Two of the drums were sampled for analytical purposes. Some drums were found below the water table. Ground water was observed at a depth of 3 feet. Native soil was not encountered for fear of rupturing a drum below the water table.

DEPTH TO WATER: 3 feet

DEPTH OF FILL: not encountered

(ANALYTICAL SAMPLES)

Sample No.	Description	HNu/OVA/RAD	Major Org. Contaminants	Level
DR-19-01, 02	black pasty substance in drums	-/-/-	methylene chloride tetrachloroethene chlorobenzene xylenes phenols dibenzofuran PAH's	23K J 22K J 16000 J 19K J 350J-55K 36K-88K 180 J-3800 J

(RETAIN SAMPLES)

Sample No.	Description	HNu/OVA/RAD
RE-55	black pasty substance in drums	-/-/-

CAMP DRESSER & MCKEE **TEST PIT LOG**

PROJECT: Pfohl Brothers Landfill
CONTRACTOR: Sevenson Envir. Servs.

WEATHER: cloudy, cool
INSPECTOR: S.Anton, T.Ryan

DATE: 10/26/89
LOCATION: 26+00 9'E, 562'-575'S

TEST PIT NO.: TP-20
TIME START/END: 08:55/11:40

LEVEL OF PROTECTION: "B"
PHOTO I.D.:

MONITORING INSTRUMENTS: HNu/OVA/RAD/Explosimeter

DRUMS ENCOUNTERED/OVER-PACKED: 9 drums/3 over-packs (2-85 gal. & 1-110 gal.)

GENERAL OBSERVATIONS: The test pit uncovered rubber hoses, bottles, refuse and approximately 9 drums. Five of the drums were empty and three contained a black pasty substance that hardened when exposed to air. One drum contained brown rust-stained soil.

DEPTH TO WATER: not encountered

DEPTH OF FILL: 13 feet

(ANALYTICAL SAMPLES)

Sample No.	Description	HNu/OVA/RAD	Major Org. Contaminants	Level
DR-20-01	black pasty substance in drum	-/-/-	methylene chloride phenol dibenzofuran	14K BJ 32K 40K

(RETAIN SAMPLES)

Sample No.	Description	HNu/OVA/RAD
RE-43	rust-brown soil in drum	-/-/-
RE-44	black pasty substance in drum	-/-/-
RE-45	undisturbed soil (clay) from depth of 13 feet	-/-/-

CAMP DRESSER & MCKEE **TEST PIT LOG**

PROJECT: Pfohl Brothers Landfill
CONTRACTOR: Sevenson Envir. Servs.

WEATHER: cold, wet, snowy
INSPECTOR: M.Zotto, S.Flakus

DATE: 11/03/89
LOCATION: 20+50 30'E, 1078'-1100'S

TEST PIT NO.: TP-21
TIME START/END: 08:30/n.a.

LEVEL OF PROTECTION: "B"
PHOTO I.D.:

MONITORING INSTRUMENTS: OVA/RAD

DRUMS ENCOUNTERED/OVER-PACKED: none

GENERAL OBSERVATIONS: No drums were found. An analytical sample was collected of some white-brown soil exhibiting a gamma reading of 15K to 20K cpm; a retain sample was also collected. This radioactive layer extended from 2 to 12 feet below ground surface.

DEPTH TO WATER: 12 feet

DEPTH OF FILL: 15 feet

(ANALYTICAL SAMPLES)

Sample No.	Description	HNu/OVA/RAD	Major Org. Contaminants	Level
GP-21-01	white-brown soil showing high gamma	-/-/15-20K	acetone	30 J

(RETAIN SAMPLES)

Sample No.	Description	HNu/OVA/RAD
RE-63	white-brown soil showing high gamma	-/-/15-20K
RE-64	undisturbed soil from a depth of 15 feet	-/-/-

CAMP DRESSER & MCKEE **TEST PIT LOG**

PROJECT: Pfohl Brothers Landfill
CONTRACTOR: Sevenson Envir. Servs.

WEATHER: sunny, cool
INSPECTOR: A.Downey, M.Zotto, S.Flakus

DATE: 10/30/89
LOCATION: 32+50, 580'-600'S

TEST PIT NO.: TP-22
TIME START/END: 08:40/10:00

LEVEL OF PROTECTION: "B"
PHOTO I.D.:

MONITORING INSTRUMENTS: HNu/OVA

DRUMS ENCOUNTERED/OVER-PACKED: 9 drums/2 over-packs (2-85 gal.)

GENERAL OBSERVATIONS: Approximately 9 drums were unearthed. Two of the drums contained a black pasty substance; an analytical and retain sample were collected. One drum was left in the pit undisturbed and univestigated. The total depth of the pit was 7 feet. The excavation was stopped because there were too many drums in the test pit. Three to four layers of drums went 7 feet deep. There were no elevated readings on the HNu or OVA during the excavation.

DEPTH TO WATER: not encountered

DEPTH OF FILL: not encountered

(ANALYTICAL SAMPLES)

Sample No.	Description	HNu/OVA/RAD	Major Org. Contaminants	Level
DR-22-01	black pasty sub-stance in drums	0/0/-	phenol	34K

(RETAIN SAMPLES)

Sample No.	Description	HNu/OVA/RAD
RE-51	black pasty substance in drums	0/0/-

CAMP DRESSER & MCKEE **TEST PIT LOG**

PROJECT: Pfohl Brothers Landfill
CONTRACTOR: Sevenson Envir. Servs.

WEATHER: sunny, cold
INSPECTOR: M.Zotto, S.Flakus

DATE: 11/02/89
LOCATION: 38+50 30'E, 1078'-1100'S

TEST PIT NO.: TP-23
TIME START/END: 08:40/09:20

LEVEL OF PROTECTION: "B"
PHOTO I.D.:

MONITORING INSTRUMENTS: HNu/OVA/RAD

DRUMS ENCOUNTERED/OVER-PACKED: none

GENERAL OBSERVATIONS: The test pit uncovered broken glass, a water heater, wood, construction debris and some rubber hoses. No drums were found, nor were there elevated readings on the OVA or HNu. No analytical samples were taken.

DEPTH TO WATER: 5 feet

DEPTH OF FILL: 5 feet

(ANALYTICAL SAMPLES)

Sample No.	Description	HNu/OVA/RAD	Major Org. Contaminants	Level
none				

(RETAIN SAMPLES)

Sample No.	Description	HNu/OVA/RAD
RE-61	undisturbed soil from a depth of 5 feet	-/-/-

CAMP DRESSER & MCKEE **TEST PIT LOG**

PROJECT: Pfohl Brothers Landfill
CONTRACTOR: Sevenson Envir. Servs.

WEATHER: sunny, cold
INSPECTOR: S.Flakus, M.Zotto

DATE: 11/01/89
LOCATION: 27+00 08'E, 695'-710'S

TEST PIT NO.: TP-24
TIME START/END: 12:55/15:00

LEVEL OF PROTECTION: "B"
PHOTO I.D.:

MONITORING INSTRUMENTS: HNu/OVA/RAD

DRUMS ENCOUNTERED/OVER-PACKED: none

GENERAL OBSERVATIONS: The test pit contained bottles, old records, shoes and tires; no drums were found. A sample was retained of a white substance that exhibited a gamma reading of 10K cpm. An analytical sample was collected from a drum that was located at the ground surface between TP-06 and TP-24. A blind duplicate sample was also taken from the drum.

DEPTH TO WATER: 10 feet

DEPTH OF FILL: 10 feet

(ANALYTICAL SAMPLES)

Sample No.	Description	HNu/OVA/RAD	Major Org. Contaminants	Level
DR-24-01	contents of drum at ground surface between TP-06 and TP-24	-/-/-	methylene chloride ethylbenzene xylenes phenol	32K 270K 18K 9400

(RETAIN SAMPLES)

Sample No.	Description	HNu/OVA/RAD
RE-59	white substance in pit exhibiting high gamma	-/-/10K
RE-60	undisturbed soil from a depth of 10 feet	-/-/-

CAMP DRESSER & MCKEE **TEST PIT LOG**

PROJECT: Pfohl Brothers Landfill
CONTRACTOR: Sevenson Envir. Servs.

WEATHER: warm
INSPECTOR: T.Ryan, M.Zotto

DATE: 10/12/89
LOCATION: 30+00 13'E, 757'-772'N

TEST PIT NO.: TP-25
TIME START/END: 10:05/12:00

LEVEL OF PROTECTION: "B"
PHOTO I.D.:

MONITORING INSTRUMENTS: HNu/OVA/RAD

DRUMS ENCOUNTERED/OVER-PACKED: 4 drums/none

GENERAL OBSERVATIONS: The cover material of the test pit consisted of brown clay. Grey ash-like material was encountered at a depth of 2.5 feet. Trash consisting of mostly paper products was found below the ash-like layer. Four crushed drums were encountered; two contained remains of dead animals, one was empty and one contained a small amount of a black pasty substance (HNu=40 ppm). No analytical samples were collected from the pit. An analytical samples was collected from an exposed drum located 26+75, 1200 feet north of the test pit. No other HNu or OVA readings were observed during the excavation.

DEPTH TO WATER: 12 feet

DEPTH OF FILL: 17 feet

(ANALYTICAL SAMPLES)

Sample No.	Description	HNu/OVA/RAD	Major Org. Contaminants	Level
	none taken			

(RETAIN SAMPLES)

Sample No.	Description	HNu/OVA/RAD
RE-15	saw dust-like material found in burlap bag in pit	-/-/-
RE-16	undisturbed soil from depth of 17 feet	-/-/-

CAMP DRESSER & MCKEE **TEST PIT LOG**

PROJECT: Pfohl Brothers Landfill
CONTRACTOR: Sevenson Envir. Servs.

WEATHER: N.A.
INSPECTOR: M.Zotto, T.Ryan

DATE: 10/13/89
LOCATION: 33+00, 290'-305'N

TEST PIT NO.: TP-26
TIME START/END: 13:00/14:15

LEVEL OF PROTECTION: "B"
PHOTO I.D.:

MONITORING INSTRUMENTS: HNu/RAD

DRUMS ENCOUNTERED/OVER-PACKED: 1 drum/2 over-packs

GENERAL OBSERVATIONS: The test pit uncovered several empty 5 gallon pails labeled "Addex Manufacturing Asphalt--Benton, Clay and Water". An exposed drum containing incinerated material was observed south of the test pit. An analytical sample and blind duplicate were taken at this location.

DEPTH TO WATER: not encountered

DEPTH OF FILL: 4 feet (bedrock at 7 feet)

(ANALYTICAL SAMPLES)

Sample No.	Description	HNu/OVA/RAD	Maj Org. Contaminants	Level
DR-26-01	incinerated contents of exposed drum	0/-/-	methylene chloride	130 BJ
			1,2-dichloroethene	5 J
			1,1,1-trichloroethene	7 J
DR-38-01	blind duplicate of above sample	0/-/-	trichloroethene	150 J
			tetrachloroethene	47 J
			toluene	8 J
			PAH's	3.7K-19K
			phthalate's	2.7K-6K

(RETAIN SAMPLES)

Sample No.	Description	HNu/OVA/RAD
RE-19	Undisturbed soil (clay) from a depth of 4 feet	-/-/-

CAMP DRESSER & MCKEE **TEST PIT LOG**

PROJECT: Pfohl Brothers Landfill
CONTRACTOR: Sevenson Envir. Servs.

WEATHER: raining, cool
INSPECTOR: T.Ryan, M.Zotto

DATE: 10/17/89
LOCATION: 39+00, 470'-485'N

TEST PIT NO.: TP-27
TIME START/END: 09:20/11:00

LEVEL OF PROTECTION: "B"
PHOTO I.D.:

MONITORING INSTRUMENTS: OVA/RAD

DRUMS ENCOUNTERED/OVER-PACKED: 5 drums/3 over-packs (3-85 gal.)

GENERAL OBSERVATIONS: Five crushed drums were uncovered during the excavation. One drum contained a green substance which was collected and retained. The second drum contained a black pasty material. The third drum contained water. No volatile organic vapors were detected with the air monitoring instruments. The remaining drums were empty. A white substance was observed in the soil throughout the test pit; a retain sample was collected. The excavation was terminated at a depth of 10 feet.

DEPTH TO WATER: not encountered

DEPTH OF FILL: not encountered

(ANALYTICAL SAMPLES)

Sample No.	Description	HNu/OVA/RAD	Major Org. Contaminants	Level
GP-27-01			toluene xylenes chlorobenzene ethylbenzene napthalene methylnapthalene phenols	9 J 17K DJ 52 J 4200 J 1600J 4000J 7.3K-14K

(RETAIN SAMPLES)

Sample No.	Description	HNu/OVA/RAD
RE-23	green substance in 1st drum	-/-/-
RE-24	black pasty substance in 2nd drum	-/-/-
RE-25	white substance observed throughout test pit	-/-/-

CAMP DRESSER & MCKEE **TEST PIT LOG**

PROJECT: Pfohl Brothers Landfill
CONTRACTOR: Sevenson Envir. Servs.

WEATHER: sunny, warm
INSPECTOR: M.Zotto, T.Ryan

DATE: 10/16/89
LOCATION: 27+00 12'E, 1180'-1195'N

TEST PIT NO.: TP-28
TIME START/END: 13:30/14:30

LEVEL OF PROTECTION: "B"
PHOTO I.D.:

MONITORING INSTRUMENTS: HNu/OVA/RAD

DRUMS ENCOUNTERED/OVER-PACKED: 1 drum/1 over-pack

GENERAL OBSERVATIONS: The test pit contained mostly trash consisting of clothes, tires, scrap metal, paint bottles, wood, stone and grey insulation material. One crushed drum was found containing a white solidified substance. The HNu registered about 50 ppm when exposed to a fresh surface of the substance; an analytical sample was collected.

DEPTH TO WATER: 5 feet

DEPTH OF FILL: 16 feet

(ANALYTICAL SAMPLES)

Sample No.	Description	HNu/OVA/RAD	Major Org. Contaminants	Level
DR-28-01	white solidified substance	50/-/-	toluene ethylbenzene xylenes naphthalene dibenzofuran	10 J 3200 J 10K DJ 3 J 41 J

(RETAIN SAMPLES)

Sample No.	Description	HNu/OVA/RAD
RE-21	undisturbed soil horizon (clay) from depth of 16 feet	-/-/-

CAMP DRESSER & MCKEE **TEST PIT LOG**

PROJECT: Pfohl Brothers Landfill
CONTRACTOR: Sevenson Envir. Servs.

WEATHER: N.A.
INSPECTOR: T.Ryan, M.Zotto

DATE: 10/10/89
LOCATION: 20+50, 1023'-1048'N

TEST PIT NO.: TP-29
TIME START/END: 09:30/12:05

LEVEL OF PROTECTION: "B"
PHOTO I.D.:

MONITORING INSTRUMENTS: HNu/OVA/RAD

DRUMS ENCOUNTERED/OVER-PACKED: none/none

GENERAL OBSERVATIONS: The excavation exposed bottles, cinder blocks, wire, wood and roofing material. An analytical sample was taken of rust colored soil observed at a depth of 4 feet. No elevated OVA or HNu readings were observed in the test pit.

DEPTH TO WATER: 11 feet

DEPTH OF FILL: 20 feet

(ANALYTICAL SAMPLES)

Sample No.	Description	HNu/OVA/RAD	Major Org. Contaminants	Level
DR-29-01	rust colored substance at a depth of 4 feet.	-/0/-	methylene chloride acetone toluene PAH's bis(2)phthalate	14 J 150 J 8 J 750J-3K 5K

(RETAIN SAMPLES)

Sample No.	Description	HNu/OVA/RAD
RE-06	undisturbed soil from depth of 20 feet.	-/0/-

CAMP DRESSER & MCKEE **TEST PIT LOG**

PROJECT: Pfohl Brothers Landfill
CONTRACTOR: Sevenson Envir. Servs.

WEATHER: N.A.
INSPECTOR: T.Ryan, M.Zotto

DATE: 10/04/89
LOCATION: 21+00, 700'N

TEST PIT NO.: TP-30
TIME START/END: 10:00/11:30

LEVEL OF PROTECTION: "B"
PHOTO I.D.:

MONITORING INSTRUMENTS: HNu/OVA/RAD

DRUMS ENCOUNTERED/OVER-PACKED: none/none

GENERAL OBSERVATIONS: The test pit was located in the side of the berm. The berm appeared to consist of clean fill. There were no organic vapors detected above background with the OVA or HNu. Some garbage and white clayey material was found below the berm. The white material had a gamma reading of 10K cpm. An analytical sample was taken from the bottom of the pit at a depth of 7 feet.

DEPTH TO WATER: 7 feet

DEPTH OF FILL: not encountered

(ANALYTICAL SAMPLES)

Sample No.	Description	HNu/OVA/RAD	Major Org. Contaminants	Level
DR-30-01	soil from a depth of 7 feet	0/0/10K	methylene chloride PAH's 4-chloroaniline 1,4-dichlorobenzene dibenzofuran bis(2)phthalate	46 J 410J-9400 1800 3200 800 J 2700

(RETAIN SAMPLES)

Sample No.	Description	HNu/OVA/RAD

CAMP DRESSER & MCKEE **TEST PIT LOG**

PROJECT: Pfohl Brothers Landfill
CONTRACTOR: Sevenson Envir. Servs.

WEATHER: N.A.
INSPECTOR: T.Ryan, M.Zotto

DATE: 10/03/89
LOCATION: 20+50, 400'-450'N

TEST PIT NO.: TP-31
TIME START/END: N.A.

LEVEL OF PROTECTION: "B"
PHOTO I.D.:

MONITORING INSTRUMENTS: HNu

DRUMS ENCOUNTERED/OVER-PACKED: *none/none*

GENERAL OBSERVATIONS: The excavation uncovered tires, trash, wood and some scrap metal. No drums or volatile organic vapors were detected. Black muck was observed at the bottom of the test pit (HNu=2 ppm); an analytical sample was taken.

DEPTH TO WATER: 5 feet

DEPTH OF FILL: 9 feet

(ANALYTICAL SAMPLES)

Sample No.	Description	HNu/OVA/RAD	Major Org. Contaminants	Level
DR-31-01	black muck at the bottom of the pit	-/-/-	methylene chloride acetone 2-butanone PAH's bis(2)phthalate	40 640 D 150 DJ 1400 J- 2700 J 3400 J

(RETAIN SAMPLES)

Sample No.	Description	HNu/OVA/RAD

CAMP DRESSER & MCKEE **TEST PIT LOG**

PROJECT: Pfohl Brothers Landfill
CONTRACTOR: Sevenson Envir. Servs.

WEATHER: N.A.
INSPECTOR: T.Ryan, M.Zotto

DATE: 10/06/89
LOCATION: 14+50, 200'-250'N

TEST PIT NO.: TP-32
TIME START/END: 08:00/10:00

LEVEL OF PROTECTION: "B"
PHOTO I.D.:

MONITORING INSTRUMENTS: HNu/OVA/RAD

DRUMS ENCOUNTERED/OVER-PACKED: 1 drum/none

GENERAL OBSERVATIONS: The pit contained a large quantity of household trash, rubber gaskets and hoses. Some material resembling coal ash was encountered 3 feet below grade. Gamma readings of the material registered 35K to 40K cpm. Black muck was encountered at a depth of 4 feet and gamma readings decreased to 20K cpm. One small drum was found and an analytical sample was taken. The pit also contained pieces of insulation-type material. No volatile organic vapors were detected on either the HNu or OVA.

DEPTH TO WATER: 5 feet

DEPTH OF FILL: 14 feet

(ANALYTICAL SAMPLES)

Sample No.	Description	HNu/OVA/RAD	Major Org. Contaminants	Level
DR-32-01	contents of drum	0/0/-	2-butanone chlorobenzene xylenes	360 J 390 J 5100

(RETAIN SAMPLES)

Sample No.	Description	HNu/OVA/RAD
RE-02	insulation-type material found in pit	0/0/-
RE-03	undisturbed soil from a depth of 14 feet	0/0/-

CAMP DRESSER & MCKEE **TEST PIT LOG**

PROJECT: Pfohl Brothers Landfill
CONTRACTOR: Sevenson Envir. Servs.

WEATHER: N.A.
INSPECTOR: T.Ryan, M.Zotto

DATE: 10/13/89
LOCATION: 33+00, 889'/904'N

TEST PIT NO.: TP-33
TIME START/END: 08:35/10:30

LEVEL OF PROTECTION: "B"
PHOTO I.D.:

MONITORING INSTRUMENTS: HNu/OVA/RAD

DRUMS ENCOUNTERED/OVER-PACKED: 1 drum/none

GENERAL OBSERVATIONS: The test pit contained plastic, polymers, scrap metal, wood, gaskets, a hot water tank, a few bottles and some construction debris. A retain sample was collected of what appeared to be pipe insulation. A partially intact drum was found. The contents of the drum were sampled for analytical purposes. The test pit was terminated upon reaching bedrock at a depth of 8 feet. There was no undisturbed soil encountered. There were no readings on the HNu, OVA or RAD meter during the entire excavation.

DEPTH TO WATER: 8 feet

DEPTH OF FILL: not encountered

(ANALYTICAL SAMPLES)

Sample No.	Description	HNu/OVA/RAD	Major Org. Contaminants	Level
DR-33-01	contents of partially intact drum	-/-/-	2-butanone ethylbenzene xylenes bis(2)phthalate	26 J 55 190 170 J

(RETAIN SAMPLES)

Sample No.	Description	HNu/OVA/RAD
RE-17	pipe insulation	-/-/-
RE-17A	weather bedrock	-/-/-

CAMP DRESSER & MCKEE **TEST PIT LOG**

PROJECT: Pfohl Brothers Landfill
CONTRACTOR: Sevenson Envir. Servs.

WEATHER: cool, cloudy, windy
INSPECTOR: T.Ryan, M.Zotto

DATE: 11/06/89
LOCATION: 34+00 40'E, 536'-550'S

TEST PIT NO.: TP-34
TIME START/END: 08:00/09:15

LEVEL OF PROTECTION: "B"
PHOTO I.D.:

MONITORING INSTRUMENTS: HNu/OVA/RAD

DRUMS ENCOUNTERED/OVER-PACKED: none

GENERAL OBSERVATIONS: The test pit uncovered construction debris, bottles, a telephone pole and grey insulation-type material. No drums were visible in the pit. An analytical sample was taken of some black, oily soil at the bottom of the pit. The soil registered 200 ppm on the OVA and 100-200 ppm on the HNu. The RAD meter reads 12K cpm over a brick in the test pit. No

DEPTH TO WATER: 13 feet

DEPTH OF FILL: 18 feet

(ANALYTICAL SAMPLES)

Sample No.	Description	HNu/OVA/RAD	Major Org. Contaminants	Level
DR-34-01	black oily soil in pit	200/200/-	ethylbenzene xylenes PAH's dibenzofuran bis(2)phthalate	2700 6000 2500 J- 230K 26K 28K

(RETAIN SAMPLES)

Sample No.	Description	HNu/OVA/RAD
RE-65	undisturbed soil from a depth of 18 feet	-/-/-

CAMP DRESSER & MCKEE **TEST PIT LOG**

PROJECT: Pfohl Brothers Landfill
CONTRACTOR: Sevenson Envir. Servs.

WEATHER: cool, calm
INSPECTOR: T.Ryan, M.Zotto

DATE: 10/09/89
LOCATION: 17+50, 1025'-1046'N

TEST PIT NO.: TP-35
TIME START/END: 13:35/14:45

LEVEL OF PROTECTION: "B"
PHOTO I.D.:

MONITORING INSTRUMENTS: HNu/RAD

DRUMS ENCOUNTERED/OVER-PACKED: none/none

GENERAL OBSERVATIONS: The excavation uncovered wood, scrap metal, logs, plastic and appliance remains. No drums were found. Elevated gamma readings (40K cpm) were recorded at a depth of 4 feet, but returned to background levels at 5 feet below grade. The source was not identified. Some grey insulation material was found at a depth of 9 feet and an analytical sample was taken.

DEPTH TO WATER: not encountered

DEPTH OF FILL: 10 feet

(ANALYTICAL SAMPLES)

Sample No.	Description	HNu/OVA/RAD	Major Org. Contaminants	Level
DR-35-01	grey insulation	-/-/-	toluene xylenes phenols PAH's	910 J 3500 8500 J- 68K 2400 J- 29K

(RETAIN SAMPLES)

Sample No.	Description	HNu/OVA/RAD
RE-05	undisturbed soil from a depth of 10 feet	-/-/-

CAMP DRESSER & MCKEE **TEST PIT LOG**

PROJECT: Pfohl Brothers Landfill
CONTRACTOR: Sevenson Envir. Servs.

WEATHER: sunny, cold
INSPECTOR: S.Anton, T.Ryan

DATE: 10/23/89
LOCATION: 20+50 6-14'E, 565'-580'N

TEST PIT NO.: TP-36
TIME START/END: 09:00/17:05

LEVEL OF PROTECTION: "B"
PHOTO I.D.:

MONITORING INSTRUMENTS: HNu/RAD

DRUMS ENCOUNTERED/OVER-PACKED: 6 drums/3 over-packs (2-85 gal. & 1-110 gal)

GENERAL OBSERVATIONS: The test pit exposed rubber hoses, bottles, garbage and approximately 6 drums. Five of the drums contained a black shiney substance. These drums were sampled for analytical purposes. Black stained soil was also observed in the test pit. The total depth of the pit was 4 feet.

DEPTH TO WATER: not encountered

DEPTH OF FILL: not encountered

(ANALYTICAL SAMPLES)

Sample No.	Description	HNu/OVA/RAD	Major Org. Contaminants	Level
DR-36-01	black shiny substance found in 5 out of 6 drums	-/-/-	methylene chloride phenol dibenzofuran	7700 BJ 21K 70K

(RETAIN SAMPLES)

Sample No.	Description	HNu/OVA/RAD
RE-31	black stained soil	-/-/-
RE-32	black shiny substance in drums	-/-/-

CAMP DRESSER & MCKEE **TEST PIT LOG**

PROJECT: Pfohl Brothers Landfill
CONTRACTOR: Sevenson Envir. Servs.

WEATHER: cloudy, cold
INSPECTOR: M.Zotto, S.Flakus

DATE: 11/08/89
LOCATION: 16+50, 578'-596'N

TEST PIT NO.: TP-41
TIME START/END: 10:55/12:15

LEVEL OF PROTECTION: "B"
PHOTO I.D.:

MONITORING INSTRUMENTS: HNu/OVA/RAD

DRUMS ENCOUNTERED/OVER-PACKED: 5 drums/3 over-packs (2-110 gal. & 1-85 gal.)

GENERAL OBSERVATIONS: The test pit was located next to a pile of approximately 6 drums at the surface. The test pit uncovered trash, gaskets, tires and 5 drums. One drum was crushed and empty (OVA=10 ppm, HNu=0) The second drum contained a yellow-orange substance that registered 20 ppm on the OVA; an analytical sample was taken. The remaining drums contained a black substance. A retain sample was collected from one of these drums. Some blue crystals were observed in the pit at a depth of 4 feet. The second, fourth and fifth drum were over-packed. Encountered some black rubber-like material at a depth of 6 feet (OVA=900 ppm).

DEPTH TO WATER: 10 feet

DEPTH OF FILL: 13 feet

(ANALYTICAL SAMPLES)

Sample No.	Description	HNu/OVA/RAD	Major Org. Contaminants	Level
DR-41-01	yellow-orange solid	-/20/-	methlyene chloride acetone	19 J 410 J
DR-41-02	undisturbed soil (clay)	-/-/-	carbon disulfide phenol bis(2)phthalate	61 87K 550

(RETAIN SAMPLES)

Sample No.	Description	HNu/OVA/RAD
RE-76	black substance in drums	-/>1000/0
RE-77	undisturbed soil from a depth of 13 feet	-/-/-
RE-78	blue crystals found at a depth of 4 feet	-/-/-

CAMP DRESSER & MCKEE **TEST PIT LOG**

PROJECT: Pfohl Brothers Landfill
CONTRACTOR: Sevenson Envir. Servs.

WEATHER: cloudy, cold
INSPECTOR: M.Zotto, S.Flakus

DATE: 11/08/89
LOCATION: 14+50 12'E, 586'-600'N

TEST PIT NO.: TP-42
TIME START/END: 08:15/09:15

LEVEL OF PROTECTION: "B"
PHOTO I.D.:

MONITORING INSTRUMENTS: HNu/OVA/RAD

DRUMS ENCOUNTERED/OVER-PACKED: 5 drums/1 over-pack (85-gal.)

GENERAL OBSERVATIONS: The excavation uncovered wood, gaskets, bottles, rubber hoses and 5 drums. Four of the drums were left undisturbed. One drum contained a black substance that registered 4 ppm on the OVA and 2 ppm on the HNu. A sample was collected for analysis. The drum was over-packed. The second drum was full--left undisturbed. Three more drums were observed stacked in a pile. Stained soil observed at the bottom of the pit.

DEPTH TO WATER: 4 feet

DEPTH OF FILL: 8 feet

(ANALYTICAL SAMPLES)

Sample No.	Description	HNu/OVA/RAD	Major Org. Contaminants	Level
DR-42-01	black substance in drum	-/-/-	toluene methylene chloride acetone	12K 15 J 510 J
DR-42-02	native soil (clayey sand) from depth of 8 feet	-/-/-	ethylbenzene xylenes phenol dibenzofuran bis(2)phthalate	6500 39K 4800 220-49K 120 J

(RETAIN SAMPLES)

Sample No.	Description	HNu/OVA/RAD
RE-74	stained soil at the bottom of the test pit	-/-/-
RE-75	undisturbed soil from a depth of 4 feet	-/-/-

CAMP DRESSER & MCKEE — **TEST PIT LOG**

PROJECT: Pfohl Brothers Landfill
CONTRACTOR: Sevenson Envir. Servs.
WEATHER: raining, cool
INSPECTOR: M.Zotto, S.Flakus
DATE: 11/09/89
LOCATION: 31+50 15'E, 1047'-1060'N
TEST PIT NO.: TP-43
TIME START/END: 09:10/09:45
LEVEL OF PROTECTION: "B"
PHOTO I.D.:
MONITORING INSTRUMENTS: OVA/RAD

DRUMS ENCOUNTERED/OVER-PACKED: none/none

GENERAL OBSERVATIONS: The pit contained mostly scrap metal; no drums were found. Some flyash that was observed near the surface of the pit was collected and retained. An analytical sample was taken of a white crumbly substance found at the bottom of the test pit. The material registered 100 ppm on the OVA. A concrete brick found at a depth of 2 feet had a gamma reading of 12K cpm.

DEPTH TO WATER: 8 feet

DEPTH OF FILL: 15 feet

(ANALYTICAL SAMPLES)

Sample No.	Description	HNu/OVA/RAD	Major Org. Contaminants	Level
DR-43-01	white crumbly substance at bottom of test pit	-/100/-	methylene chloride acetone bis(2)phthalate	100 530 J 360 J

(RETAIN SAMPLES)

Sample No.	Description	HNu/OVA/RAD
RE-79	clay layer from depth of 2.5 feet	-/-/-
RE-80	black fine sand (flyash) near surface	-/20/-
RE-81	undisturbed soil (clay) from a depth of 15 feet	-/-/-

CAMP DRESSER & MCKEE **TEST PIT LOG**

PROJECT: Pfohl Brothers Landfill
CONTRACTOR: Sevenson Envir. Servs.

WEATHER: cloudy, cold
INSPECTOR: M.Zotto, T.Ryan

DATE: 11/07/89
LOCATION: 26+50, 385'-400'N

TEST PIT NO.: TP-44
TIME START/END: N.A./12:15

LEVEL OF PROTECTION: "B"
PHOTO I.D.:

MONITORING INSTRUMENTS: OVA/RAD

DRUMS ENCOUNTERED/OVER-PACKED: none/none

GENERAL OBSERVATIONS: The pit uncovered mostly household trash. A cork shaped object has a high gamma and OVA (600 ppm) reading. No drums were found and no analytical samples were collected.

DEPTH TO WATER: 11 feet

DEPTH OF FILL: 17 feet

(ANALYTICAL SAMPLES)

Sample No.	Description	HNu/OVA/RAD	Major Org. Contaminants	Level
none				

(RETAIN SAMPLES)

Sample No.	Description	HNu/OVA/RAD
RE-73	undisturbed soil from a depth of 17 feet	-/-/-

CAMP DRESSER & MCKEE — **TEST PIT LOG**

PROJECT: Pfohl Brothers Landfill
CONTRACTOR: Sevenson Envir. Servs.

WEATHER: cloudy, cold
INSPECTOR: M.Zotto, S.Flakus, F.Lawson

DATE: 11/07/89
LOCATION: 29+50 5'E, 608'-625'N

TEST PIT NO.: TP-45
TIME START/END: 08:00/09:50

LEVEL OF PROTECTION: "B"
PHOTO I.D.:

MONITORING INSTRUMENTS: HNu/OVA/RAD

DRUMS ENCOUNTERED/OVER-PACKED: 2 drums/none

GENERAL OBSERVATIONS: Two drums were found in the test pit; both were crushed. One drum contained a white substance that registered over 1000 ppm on the OVA and 20 ppm on the HNu. The material was sampled for analytical purposes. Three radioactive disks were found. A purple-black substance was observed near the surface and at the bottom of the pit. Two samples of the substance were collected and retained. The substance registered 600 ppm on the OVA. A radiation scan at a depth of 2 feet found one spot that registered 18K cpm. At the start of the excavation the gamma readings were 240K cpm.

DEPTH TO WATER: not encountered

DEPTH OF FILL: 16 feet

(ANALYTICAL SAMPLES)

Sample No.	Description	HNu/OVA/RAD	Major Org. Contaminants	Level
DR-45-01	white substance in drum	20/1000/-	methylene chloride	20-86 J
			acetone	300-600J
DR-47-01	duplicate of DR-45		ethlybenzene	38
			xylenes	110
			bis(2)phthalate	260 J

(RETAIN SAMPLES)

Sample No.	Description	HNu/OVA/RAD
RE-70,72	purple-black substance near the bottom of pit	-/600/-
RE-71	undisturbed soil from a depth of 16 feet	-/-/-

CAMP DRESSER & MCKEE **TEST PIT LOG**

PROJECT: Pfohl Brothers Landfill
CONTRACTOR: Sevenson Envir. Servs.

WEATHER: cold, cloudy, windy
INSPECTOR: M.Zotto, T.Ryan, S.Flakus

DATE: 11/09/89
LOCATION: 19+00, 200'-220'S

TEST PIT NO.: TP-46
TIME START/END: 12:00/12:25

LEVEL OF PROTECTION: "B"
PHOTO I.D.:

MONITORING INSTRUMENTS: HNu/OVA/RAD

DRUMS ENCOUNTERED/OVER-PACKED: none

GENERAL OBSERVATIONS: The test pit contained very little trash and no drums. A black, ash-like substance was observed approximately 2 feet below grade. The undisturbed soil horizon was encountered at a depth of 5 feet. Ground water was observed at a depth of 4 feet. The clay that was underlying the saturated zone was dry. An analytical sample was taken from this layer.

DEPTH TO WATER: 4 feet

DEPTH OF FILL: 5 feet

(ANALYTICAL SAMPLES)

Sample No.	Description	HNu/OVA/RAD	Major Org. Contaminants	Level
DR-46-01	clay layer at depth of 7 feet	-/-/-	acetone	200 J

(RETAIN SAMPLES)

Sample No.	Description	HNu/OVA/RAD
RE-82	fine black sand (ash) 2 feet below grade	-/2/-
RE-83	undisturbed soil from depth of 5 feet	-/-/-
RE-84	dry clay layer from depth of 7 feet	-/-/-
RE-85	white-orange material observed on pit wall	-/-/-

Appendix C

Appendix C

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BORING NUMBER: B1

Log of Boring

Project Pfohl Bros. Location N/S Area Job. No. 897-12-RC-WELL

Date Drilled 7/21/89 Drilling Co. Rochester Drilling Company

Total Depth 13'6" Method Used 6 1/4" Auger

Inspector C. Wenczel Organic Vapor Instruments Used HNu Water Table Depth ≐ 8'0"

Depth (feet)	Samp No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. - PPM	Sample Description	Strata Change	Remarks (Time of Day)
1	1	9	0'0" to 2'0"	24"/12"	Bkd	12" Organic soil horizon; gravel and sand		0800
	1	10	"	"	"			
	1	15	"	"	"			
2	1	24	"	"	"			
	2	18	2'0" to 4'0"	24"/12"	Bkd	12" Organic soil, gravel and sand.		
	2	19	"	"	"			
3	2	13	"	"	"			
	2	10	"	"	"			
4	3	32	4'0" to 6'0"	24"/4"	"	4" Fill, concrete		
	3	19	"	"	"			
5	3	28	"	"	"			
	3	73	"	"	"			
6	4	18	6'0" to 8'0"	24"/6"	"	SAND, medium; little fine; little very fine; trace silt; black and orange		Native soil
7	4	47	"	"	"			

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BORING NUMBER: B1

Log of Boring

Project Pfohl Bros Location N/s Area A Job. No 897-12-RC-WELL

Date Drilled 7/21/89 Drilling Co. Rochester Drilling Company

Total Depth 13'6" Method Used 6¼" Auger

Inspector C. Wenczel Organic Vapor Instruments Used HNu Water Table Depth ≥ 8'0"

Depth (feet)	Samp. No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. - PPM	Sample Description	Strata Change	Remarks (Time of Day)
	4	59	6'0" to 8'0"	24"/6"	Bkd			
	4	89	"	"	"			
8	5	7	8'0" to 10'0"	24"/24"	"	24" SILT, brown to pink		
	5	9	"	"	"			
9	5	12	"	"	"			
	5	13	"	"	"			
10	6	10	10'0" to 12'0"	24"/24"	"	24" Till, clay and silt 1" gravel		
	6	13	"	"	"			
11	6	12	"	"	"			
	6	10	"	"	"			
12	7	18	12'0" to 14'0"	18"/18"	"	24" Till, clay and silt, 1" gravel.		
	7	23	"	"	"			
13	7	27	"	"	"			
→ 14	7		"			Rock at 13'6"		0915

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BORING NUMBER: B2

Log of Boring

Project Pfohl Bros. Location S/s Area A Job. No 897-12-RC-WELL
Date Drilled 7/20/89 Drilling Co. Rochester Drilling Company
Total Depth 13' 2" Method Used 6 1/4" Auger
Inspector C. Wenczel Organic Vapor Instruments Used HNu Water Table Depth ≐ 8'6"

Depth (feet)	Samp No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. - PPM	Sample Description	Strata Change	Remarks (Time of Day)
1	1	4	0'0" to 2'0"	27"/16"	BKd	16" Fill, 3" organic soil rocks, brick, clay, sand. dry		1615
	1	15	"	"	"			
	1	35	"	"	"			
	1	40	"	"	"			
2	2	6	2'0" to 4'0"	24"/12"	"	12" Fill, rocks, brick, clay, sand dry.		
	2	29	"	"	"			
3	2	11	"	"	"			
	2	8	"	"	"			
4	3	6	4'0" to 6'0"	24"/12"	"	12" Fill, rocks, brick, clay, sand, dry		
	3	2	"	"	"			
5	3	1	"	"	"			
	3	5	"	"	"			
6	4	4	6'0" to 8'0"	24"/19"	"	19" Interlayered SILTS and CLAYS 1/8" to 1/4"		
	4	6	"	"	"			

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BORING NUMBER: B2
Page 2 of 2

Log of Boring

Project Toth Bros. Location S/s Area A Job. No 897-12-RC-WELL

Date Drilled 7/20/89 Drilling Co. Rochester Drilling Company

Total Depth 13'2" Method Used 6 1/4" Auger

Inspector C. Wenzel Organic Vapor Instruments Used HNu Water Table Depth ≅8'0"

Depth (feet)	Samp No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. - PPM	Sample Description	Strata Change	Remarks (Time of Day)
8	4	8	6'0" to 8'0"	24"/19"	11			
	4	10	"	"	"			
	5	8	8'0" to 10'0"	24"/24"	"	24" Interlayered CLAY and SILTS, 1/8" to 1/4" layers		
9	5	10	"	"	"			
	5	12	"	"	"			
	5	8	"	"	"			
10	6	10	10'0" to 12'0"	24"/24"	"	24" TILL, pink some 1" rocks, very tight		
	6	22	"	"	"			
11	6	38	"	"	"			
	6	13	"	"	"			
12	7	10	12'0" to 14'0"	12"/12"	"	12" TILL, pink some 1" rocks, very tight.		
	7	18	"	"	"			
13	7	R	"	"	"	Rock at 13'2"		
	7		"					

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BORING NUMBER: B-3
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Log of Boring

Project DBF Location B-3 Job. No

Date Drilled 11-10-89 Drilling Co.

Total Depth Method Used Hollow Stem Auger

Inspector Organic Vapor Instruments Used Water Table Depth

Depth (feet)	Samp No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. - PPM	Sample Description	Strata Change	Remarks (Time of Day)
2	SS 1	2 2 1 2	0-2	2'/0.6		Fill - wood, plastic glass silty soil	Fill	
4	2	3 2 2 4	2-4	2'/0.7		Fill - wood, white flaky material - coal ash black stained soil		
6	3	20 14 14 10	4-6	2'/0		wood - plastic in tip		
8	4	7 7 2 3	6-8	2'/0		silty black material in tip of spoon		OVA down hole - 15ppm
10	5	5 4 4 2	8-10	2'/0		0.1' sheen on outside of spoon - black silty sand		OVA down hole >1000ppm 0.1' in breathing zone
12	6	5 4 2 2	10-12	2'/0.5		Black stained silt - little ~~clay~~ gravel		OVA down hole 80 ppm 0-1' in BZ
14	7	6 8 10 10	12-14	2'/1.0'		2" - gray clay 18" - red clay with silt. some		
16			14-16	2'/2'		SHELBY TUBE		
18	8	6 25/6				0.2' - red/brown clay 0.8' - fill - gravel		OVA 210ppm in hole 3ppm in BZ
20						rock at 16.5'		

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BORING NUMBER: B-4

Log of Boring

Project Pfohl Bros Location Buffalo NY Job. No 897-12-RC-SOBS

Date Drilled 11/9/89 Drilling Co. Rochester Drilling

Total Depth 19' 6" Method Used Hollow stem auger

Inspector B. Alter Organic Vapor Instruments Used OVA / HNu Water Table Depth 4'

Depth (feet)	Samp No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. - PPM	Sample Description	Strata Change	Remarks (Time of Day)
					in breathing zone			
0	1	5	0'/2'	2'/0'		Some wood & paper in shoe		0950
	1	4						
1	1	2						
	1	1						
2	2	1	2'/4'	2'/.2'	0	Soil, fill with wood, black stained material and porcelain	5'	0955 LEL = 0 at hole OVA = 20 at hole
	2	1						
3	2	2						
	2	1						
4	3	1	4'/6'	2'/.3'		Black stained soil and paper wet and tarry		1000 OVA = 40 on sample
	3	1						LEL = 0 at hole
5	3	12						
	3	13						
6	4	1	6'/8'	2'/.2'		Brown clayey silt, probably native in shoe. Spoon contains black wet tarry substance	Silt	1010 OVA = 4 on sample.
	4	1						
7								

NY-1

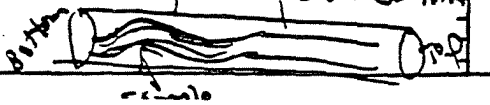
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BORING NUMBER: D-4

Log of Boring — Pfohl Bros

Depth (feet)	Samp. No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. (PPM)	Sample Description	Strata Change	Remarks (Time of Day)
					in breathing zone			
7	4	5	6'/8"	2'/.2'		Brown clayey silt. Black, wet, tarry substance	Silt	1010
	4	4	↓	↓				
8	5	2	8'/10"	2'/1'	0	.4' Medium sand, brown w/some silt. Stained	Sand	1020 RAINING, WINDY
	5	5				.6' Very coarse brown sand. Not stained		OVA=0 in hole
9	5	14						
	5	14	↓		↓	.2' Reddish brown, stiff clay in shoe		
10	6	41	10'/12"	2'/0'	0	No recovery		1035
	6	10						
11	6	15						
	6	18	↓	↓	↓			
12	7	8	12'/14"	2'/1.2'	0	Reddish brown clay, fairly stiff	C/Y	1050 OVA=0 at hole, on sample
	7	12						
13	7	18						1055-Rain Stopped
	7	35	↓	↓	↓			
14	8	9	14'/16"	2'/1.2'		Reddish-brown clay, less stiff than before "wavy" shape at bottom		1105
	8	14	↓	↓				
15								



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BORING NUMBER: B-4

Log of Boring — Pfohl Bros.

Depth (feet)	Samp. No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. (PPM)	Sample Description	Strata Change	Remarks (Time of Day)
					In breathing zone			
15	8	25	14'/16'	2'/1.2'		Reddish-brown clay		1105
	8	23	↓	↓				
16	9	18	16'/18'	2'/0'	0	No recovery		1115
	9	18					Clay	
17	9	20						
	9	23						
18	10	24	18'/19.5'	1.5'/1.4'	0			1130
	10	40				.8' Brown, fairly stiff clay		
19	10	85				.6' Brown, dense, till	Till	
	10	16		0"/0"				
							Bedrock	

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BORING NUMBER: B-5
Page 1 of 1

Log of Boring

Project _____ Location B-5 Job. No _____

Date Drilled 1-[illegible]-[illegible] Drilling Co. _____

Total Depth _____ Method Used _____

Inspector _____ Organic Vapor Instruments Used _____ Water Table Depth _____

Depth (feet)	Samp No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap - PPM	Sample Description	Strata Change	Remarks (Time of Day)
2	SS 1	1 1 1 2	0-2'	2'/0.1		Silty organic soil, grks, plastic Fill.		
4	2	1 14 40 55	2-4'	2'/0.1		Tile, wood, rubber, pieces of rock - Fill		
6	3	2 16 30 70	4-6'	2'/0.5		Fill - rubber, wood painted orange, large cobble		
8	4	4 12 14 19	6-8	2'/0.1		Fill - large chunk of wood some cobble		OVA downhole 200 ppm. Oppm. in BZ WET
10	5	6 2 4 5	8-10	2'/0.1	100ppm	Wood, stained with black silty material		
12	6	9 5 24 7	10-12	2'/0.05		Brown silty clay in top of shoe.		OVA 1000 ppm downhole
14	7	12 12 19 40	12-14	2'/1.1		Brown silty clay.		
16	8	16 30 35 45	14-16	2'/1.5'		Brown silty sand, little, v. fine sand.		
18	9	15 25 27 20	16-18	2'/1.1		0-1.0' - Brown silty sand little v. fine sand 1.0-1.1' - Brown silty clay, very stiff		OVA downhole 200-300 ppm
20	10	8 10 10 11	18-20'	2'/1.6		Brown silty clay, stiff		
22	11	15 22/3"	20-21	8"/0		Rock at 20.7'		
						Sent sample SS-8 to lab		

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BORING NUMBER: B-6

Log of Boring

Project Pfohl Bros Location Buffalo NY Job. No 897-12-RC-5085

Date Drilled 11/8/89 Drilling Co. Rochester Drilling

Total Depth 29' 0" Method Used Hollow stem auger

Inspector B. Alter Organic Vapor Instruments Used OVA/HNu Water Table Depth 10'

Depth (feet)	Samp No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. - PPM	Sample Description	Strata Change	Remarks (Time of Day)
0	1	1	0'/2'	2'/.2'		Fill with glass, plastic, black stained material		1105
	1	1						
1	1	2						
	1	1						
2	2	2	2'/4'	2'/.3'		Fill with glass, brick, & plastic		1110
	2	3						
3	2	5					Fill	
	2	12						
4	3	6	4'/6'	2'/.3'		Fill with wood, plastic, brick. Very silty soil		1117
	3	5						Punching through rubber
5	3	Drive						
	3							
6	4	Drive	6'/8'	2'/.2'		Fill with plastic, wood rubber		1125
	4							Troubles augering through rubber
7								

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BORING NUMBER: B-6

Log of Boring — Pfaal Bros

Depth (feet)	Samp. No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. (PPM) in breathing zone	Sample Description	Strata Change	Remarks (Time of Day)
7	4	0	6'/8'	2'/.2'		Fill with plastic, wood, rubber		1125
	4	Liner	↓	↓				
8	5	0	8'/10'	2'/.3'		Silty soil with fill, black stained wood, rubber		1140
	5	Liner						
9	5							
	5		↓	↓				
10	6	0	10'/12'	2'/.3'	0	Wet Fill with badly stained wood and plastic	Fill	1150 OVA=0 in hole
	6	Liner						
11	6							
	6		↓	↓	↓			
12	7	8	12'/14'	2'/.8'	0	.2' Fill with hard black rubber		1200 OVA>100 in hole
	7	9				.5' greenish clay		HNu=0 in hole
13	7	11				.1' silty gray sand	Clay	Collect double samples to bottom
	7	14	↓	↓	↓			
14	8	10	14'/16'	2'/.8'		.1' silty gray sand	Sand	1210
	8	11	↓	↓		.7' reddish brown, stiff clay	Clay	
15								

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Log of Boring Pfohl Bros

Depth (feet)	Samp. No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. (PPM)	Sample Description	Strata Change	Remarks (Time of Day)
					in breathing zone			
15	8	14	14'/16'	2'/.8'		.7' reddish brown, stiff clay		1210
	8	16	↓	↓				
16	9	10	16'/18'	2'/.8'	0			1220 Plastic baggies brought up by augers
	9	10				Stiff, reddish-brown clay		
17	9	14						OVA=0 at hole
	9	21	↓	↓	↓			
18	10		18'/20'	2'/.4'	0	Stiff, reddish-brown clay		1235 OVA=0 at hole
	10						Clay	
19	10							
	10		↓	↓	↓			
20	11	12	20'/22'	2'/.2'	0	Stiff, reddish-brown clay in shoe		1300
	11	14						
21	11	16						
	11	17	↓	↓	↓			
22	12	12	22'/24'	2'/1.6'	0	Reddish-brown clay, less stiff than before		1320
	12	11	↓	↓	↓			
23								

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BORING NUMBER: B-6

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Log of Boring

Depth (feet)	Samp. No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. (PPM)	Sample Description	Strata Change	Remarks (Time of Day)
					in bvrehing zone			
23								
	12	29	22'/24'	2'/1.6'	0	Reddish-brown clay		1320
	12	30	↓	↓	↓			
24								1335
	13	7	24'/28'	2'/1.4'	0	Reddish-brown clay Some parts stiffer than others.		OVA=0 at hole
	13	14						
25								
	13	13					C/SY	
	13	18	↓	↓	↓			
26								1350
	14	4	26'/28'	2'/1.5'	0	Brown clay with some sandier coarser material. Less stiff than before		OVA=0 in hole, on sample
	14	4						
27								
	14	8						
	14	11	↓	↓	↓			
28								1415
	15	20	28'/29'	1'/0'	0	No recovery - fill?	?	OVA=0 at hole
	15	40	↓	↓	↓			
29								
	15	25		0"/0"			Bedrock	

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BORING NUMBER: B-7

Log of Boring L24 240'N

Project Pfaz1 Bros Location Buffalo NY Job. No 897-12-RC-5083

Date Drilled 11/2/89 Drilling Co. Rochester Drilling

Total Depth 18.5' Method Used Hollow stem auger

Inspector B. Alter Organic Vapor Instruments Used OVA/HNU Water Table Depth 6'

Depth (feet)	Samp No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. - PPM	Sample Description	Strata Change	Remarks (Time of Day)
0								
1	1	1	0'/2'	24"/2"		Soil		08:15
	1	1						
	1	1						
2	1	1						
	2	1	2'/4'	24"/2"		Soil		08:30
3	2	2						
	2	2					Soil	
4	2	1						
	3	1	4'/6'	24"/2"		Black soil with garbage	Fill	0840
5	3	2						
	3	2						
6	3	2						0845 wet
	4		6'/8'	24"/2"		Black soil with garbage - fill plastic, brick particles		
7	4							

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BORING NUMBER: B-7
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Log of Boring
Project Pfohl Bros Location Buffalo NY Job. No
Date Drilled Drilling Co.
Total Depth Method Used
Inspector Organic Vapor Instruments Used Water Table Depth 6'

Depth (feet)	Samp. No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. - PPM	Sample Description	Strata Change	Remarks (Time of Day)
7								
	4		6'/8'			Black soil with garbage		wet
	4							
8	5		8'/10'	24"/2'	0	wet black soil with garbage	Soil/ FILL	0850 OVA=0 in breathing zone; 80 over hole HNu=0 over hole Probably methane.
	5							
9	5							
	5							
10	6	26	10'/12'	2'/1.2'		.3' Black stained sand wet, some fill	Sand	0900
	6					Brown, very compacted clay; very silty		HNu=0
11	6							Sample 6 sent to lab.
	6							
12	7	64	12'/14'	2'/1.5'		Brown clay with silt	1st C	0930 OVA over hole <20 HNU over hole = 0 Sample HNu = 1
	7							
13	7							
	7							
14								

NY-1

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environmental engineers, scientists,
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BORING NUMBER: B-1

Log of Boring Pfaal Bros

Depth (feet)	Samp. No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. (PPM)	Sample Description	Strata Change	Remarks (Time of Day)
								0940
14	8	50	14'/16'	2'/.7'		Brown clay with silt	Clay	HNu on sample = 0
15	8	↓	↓	↓				
	8							
	8							
16	9	50	16'/18'	2'/2'		.3' Brown clay		1000
	9	↓	↓	↓		Brown sand and gravel with silt & clay – possibly till	Till	HNu at hole = 0
17	9							
	9	↓	↓	↓				
18	10	18	18'/18.5'	.5'/.3'		mostly till		
19							Bedrock	
20								
21								
22								

NY-2

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BORING NUMBER: B-8

Log of Boring

Project Pahl Bros Location Buffalo NY Job. No 897-12-RC-5085

Date Drilled 11/7/89 Drilling Co. Rochester Drilling

Total Depth 22' 8" Method Used Hollow stem auger

Inspector B. Alter Organic Vapor Instruments Used OVA/HNU Water Table Depth 8'

Depth (feet)	Samp No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. - PPM	Sample Description	Strata Change	Remarks (Time of Day)
					In breathing zone			
0	1	1	0'/2'	2'/.2'		Soil with cardboard		1345 Raining
	1	2						
1	1	2						
	1	5						1355
2	2	1	2'/4'	2'/.2'		Fill with cardboard + wood		
	2	2						
3	2	2					Fill	
	2	1						
4	3	1	4'/6'	2'/.2'		Fill with cardboard and wood		1405
	3	2						
5	3	1						
	3	1						
6	4	1	6'/8'	2'/.2'	0	Fill with cardboard, wood, + brick		1410 OVA=10 at hole
	4	2						
7								

NY-1

BORING NUMBER: B-8

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Log of Boring Pfohl Bros

Depth (feet)	Samp. No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. (PPM)	Sample Description	Strata Change	Remarks (Time of Day)
				in	breathing zone			
7	4	3	6'/8'	2'/.2'	0	Fill with cardboard, wood + brick	Fill	OVA=10 at hole
	4	4	↓	↓	↓			
8	5	1	8'/10'			wet. Black sand with some coarse grains.	Sand	1420
	5	4	↓					
9	5	7						
	5	4	↓					
10	6	1	10'/12'	2'/1'		.3' Black sand with some coarse grains		1430
	6	4	↓	↓				
11	6	6				.7' Brown clay		
	6	7	↓	↓				
12			12'/14'	2'/1.4'	0	1.4' probably brown clay		1435 Shelby pushed into hole
		6	↓	↓	↓	.6' which fell out might be sand.	Clay	OVA=0 at hole, Shelby
13		9						
			↓	↓	↓			1455
14	7	3	14'/16'	2'/1.6'		.8' Brown clay		
	7	4	↓	↓				
15								

NY-2

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BORING NUMBER: B-8

Log of Boring Pfohl Bros

Depth (feet)	Samp. No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. (PPM)	Sample Description	Strata Change	Remarks (Time of Day)
15	7	12	14'/16'	2'/1.6'		.8' Silty sand	Sand	1455
	7	16	↓	↓				
16	8	5	16'/18'	2'/1.8'		.8' Silty clay	clay	1500 OVA=0 on spoon, sample
	8	15	↓	↓				
17	8	20	↓	↓		1' Brown clayey silt		
	8	50	↓	↓				
18	9	15	18'/20'	2'/1.8'		Brown silty clay, fairly loose	clay	1525 OVA=0 on spoon, sample
	9	4	↓	↓			Silty	
19	9	7	↓	↓				
	9	10	↓	↓				
20	10	8	20'/22'			Brown clay with lots of silt.		1540
	10	6	↓					
21	10	8	↓					
	10	10	↓					
22	11	10	22'/22'	8"/6"		Dark gray till with coarse material & silt	Till	1600
	11	8	↓	↓			Bedrock	

NY-2

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BORING NUMBER: B-9
Page 1 of 3

Log of Boring

Project Pfohl Bros Location Buffalo NY Job. No 847-12-RCSDBS

Date Drilled 11/6-7/89 Drilling Co. Rochester Drilling

Total Depth 22'0" Method Used Hollow Stem Auger

Inspector B. Alter Organic Vapor Instruments Used OVA/HNu Water Table Depth 6'

Depth (feet)	Samp No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. - PPM	Sample Description	Strata Change	Remarks (Time of Day)
					in breathing zone			
0	1	2	0'/2'	2'/.1'		Surface soil		1630
1	1							
	1							
	1							
2	2	2	2'/4'	2'/.2'		Fill w/ soil, glass, and wood		1635
	2	4					Soil	
3	2	7						
	2	8						
4	3	2	4'/6'	2'/.2'	0	Organic soil w/ roots, possibly black stained		1640 OVA=0@ hole
	3	1				Rocks + cobbles		
5	3	2						Straightening rig
	3	2						
6	4	6	6'/8'	2'/.4'		Wet spoon. Fine black sand w/ coarse grains	Sand	1710 OVA=0 on sample
	4	4						
7								

NY-1

BORING NUMBER: B-4

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Log of Boring Pfohl Bros

Depth (feet)	Samp. No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. (PPM)	Sample Description	Strata Change	Remarks (Time of Day)
7					in breathing zone			
7	4	5	6'/8"	2'/.4'		Fine black sand with coarse grains	Sand	
	4	1	↓	↓				
8	5	1	8'/10"	2'/.1'	0	Black stained organic material		1715 OVA=0 in hole
	5	1						
9	5	5						
	5	4	↓	↓	↓			
10	6	2	10'/12"	2'/0'	0	No recovery		1725 OVA=40 at hole
	6	2						
11	6	1						
	6	1	↓	↓	↓			Shut down for evening 0750
12	7	5	12'/14"	2'/1.2'		Stiff brown clay with little silt.	Clay	
	7	7						
13	7	11						
	7	21	↓	↓				
14	8		14'/16"	2'/2'	0	Outside looks like brown clay		0800 Shelby tube pushed through tube. OVA=200 in hole
	8		↓	↓	↓			
15								

NY-2

BORING NUMBER: B-4

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Log of Boring Pfohl Bros

Depth (feet)	Samp. No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. (PPM)	Sample Description	Strata Change	Remarks (Time of Day)
					in breathing zone			
15			14'/16'	2'/2'	0	Probably brown clay	Clay	Oily water dripping out of sample by OVA=0
			↓	↓	↓			
16								0825
	8	4	16'/18'	2'/1.7'		.6' Brown clay grading into brown clayey silt	Silty layer	
	8	5						
17	8	17						
1								~~0810~~
	8	31	↓	↓		Brown, stiff clay; silty on top	Clay	
18	9	8	18'/20'					0840
	9	12						
19	9	15						
	9	21	↓					
20								0900
	10	4	20'/22'	2'/1.6'		.6' Brown, stiff clay		
	10	14						
21	10	16				1' Dark gray till with sand and gravel; very brittle	Till	OVA=0 at Lake HNU=0 at Lake
	10	17	↓	↓				
22							Bedrock	

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BORING NUMBER: B-#10
Page 1 of 3

Log of Boring L39 675'N

Project Pfohl Bros Location Buffalo NY Job. No 897-12-EC-5085

Date Drilled 11/2-3/89 Drilling Co. Rochester Drilling

Total Depth 20' 2" Method Used Hollow Stem Auger

Inspector B. Alter Organic Vapor Instruments Used OVA/HNu Water Table Depth 10'

Depth (feet)	Samp No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. - PPM	Sample Description	Strata Change	Remarks (Time of Day)
0					in breathing zone			
	1	5	0'/2'	2'/.3'	0	Dried peat with decayed cardboard		1540
1	1							
	1							
	1							HNu @ hole = 0 OVA @ hole = 4 OVA in breathing zone = 0
2	2	15	2'/4'	2'/.8'	0	3" black peat		1547
	2					6" yellow cardboard		
3	2						Soil	
	2							
4	3	15	4'/6'	2'/.6'		Black peat with cardboard		1552 HNu = 40 on sample OVA = 60 on sample HNu = 100 in shoe
	3							
5	3							Plastic in shoe
	3							
6	4	6	6'/8'	2'/1.3'	0	Black and brown peat with yellow cardboard. Black clayey, dry material, either soil or ash.		OVA = 20 in hole 1605
	4	10						HNu = 200 in peat HNu = 100 in ash
7								

NY-1

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BORING NUMBER: U 10

Log of Boring Pfohl Bros

Depth (feet)	Samp. No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. (PPM)	Sample Description	Strata Change	Remarks (Time of Day)
7					In breathing zone			
7	4	10	6'/8"	2'/1.3'	0	Black + brown peat with yellow cardboard. Black dry, flaky material, may be ash.		HNU=200 in peat HNU=100 in ash(?)
	4	6	↓	↓	↓			1615
8	5	15	8'/10'	2'/.5'	3			HNU=100 in sample OVA=150 in sample
	5					Black + brown peat with decayed newspaper		No detectable odor in breathing zone
9	5							
	5		↓	↓	↓			
10	6	2	10'/12"	2'/.5'	0	Wet sample Black wet soil with glass and newspaper.	Fill	1620
	6	3						HNU=200 on sample (could not duplicate w/ OVA.
11	6	4						
	6	13				2" Black stained peat at bottom		1635
12	7	12	12'/14"	2'/.6'	0	Black stained fill, possibly more newspaper		OVA @ hole =14 HNU @ hole = 0 OVA = 52 over sample
	7	7						HNU = 20 over sample
13	7	6				2½ brown wet, clayey silt	Silt	
	7	32						1650
14	8	13	14'/16"	2'/.8'		Wet brown clayey silt		OVA=22 on sample HNU=0 on sample
	8	23	↓	↓		.2' black stained paper		
15								

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BORING NUMBER: B-10

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Log of Boring PFohl Bros

Depth (feet)	Samp. No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. (PPM)	Sample Description	Strata Change	Remarks (Time of Day)
					In breathing zone			
15	8	13	14'/16'	2'/.8'		Wet brown clayey silt w/ .2' black stained paper	Silt	
	8	14	↓	↓				1710
16	9	9	16'/18'	2'/1.3'		.2' black stained fill		OVA=100 on sample HNu=2 on sample
	9	13				Very stiff brown silty clay		
17	9	25						
	9	22						1725
18	10	16	18'/20'	2'/0'	0		Clay	OVA > 100 at hole
	10	19				Fill-clay in shoe		
19	10	24					gray-brown fill	
	10	4	↓	↓	↓	Silty till, trace gravel, dark gray clay		Shut down for coring 0820
20	11	100	20'/20.2'	0.2'/0			Till	0822
							Bedrock	

NY-2

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BORING NUMBER: B-11
Page 1 of 3

Log of Boring

Project Ptodl Bros Location Buffalo NY Job. No 897-12-RC-SOBS

Date Drilled 11/6/89 Drilling Co. Rochester Drilling

Total Depth 20' 4" Method Used Hollow Stem Auger

Inspector B. Alter Organic Vapor Instruments Used OVA/HNu Water Table Depth 6'

Depth (feet)	Samp No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. - PPM	Sample Description	Strata Change	Remarks (Time of Day)
0								
	1	1	0'/2'	2'/.2'		Brown sand with some silt		0910
	1	2						
1	1	2						
	1	2						
2								0920
	2	3	2'/4'	2'/.2'		Fill with glass, paper & plastics		
	2	5						
3	2	2						
	2	2					Fill	
4	3	2	4'/6'	2'/.4'		Fill and glass mixed with fine brown soil		0930
	3	1						
5	3	1						
	3	1						
6								0940
	4	1	6'/8'	2'/0'		Shoe has brown silty material with some coarser grains, some gravel, & wood		wet
	4	1						
7								

NY-1

BORING NUMBER: B-11

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Log of Boring Pfohl Bros

Depth (feet)	Samp. No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. (PPM)	Sample Description	Strata Change	Remarks (Time of Day)
7					In breathing zone			
7	4	1	6'/8'	2'/0'		Fill + silt		0940
	4	5	↓	↓			Fill	
8	5	3	8'/10'	2'/0'		Shoe has glass, plastic, wood, some brown silt.		0945 OVA not working HNU = 0 near hole
	5	1						
9	5	1					Silt	
	5	1	↓	↓				
10	6	2	10'/12'	2'/0'	0	Shoe has wood and very silty sand		0950 OVA working OVA = 30 over hole
	6	4						
11	6	5						
	6	5	↓	↓	↓			
12	7	20	12'/14'	2'/2'	0	.2' Wet Fill + silt		1007
	7	23				1.8' Fine-very fine light gray sand		OVA and HNU = 0 at hole.
13	7	26						
	7	40	↓	↓	↓	~~Fine - very fine light gray~~	Sand	
14	8	14	14'/16'	2'/1.3'	0	1': Fine - very fine light gray sand		1020 HNU, OVA = 0 @ hole
	8	22	↓	↓	↓			
15								

NY-2

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BORING NUMBER: B-11

Log of Boring

Depth (feet)	Samp. No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. (PPM)	Sample Description	Strata Change	Remarks (Time of Day)
15	8	17	14'/16'	2'/1.3'	0	Bottom 3' - reddish brown clay; silty & compact		
	8	13	↓	↓	↓			
16			16'/18'		0			1030 Shelby tube through to clay
					0			
17								
			↓			Tube hit something hard at 17.5'	C/SW	OVA=10 @ hole.
18	9	4	18'/20'	2'/.7'	0	Reddish brown clay; very silty		1045 OVA=0 @ hole
	9	9						
19	9	9						
	9	34	↓	↓	↓			
20	10	50	20'/20.4'	14'/6'				1055
						Grey bedrock, probably limestone	Bedrock	

NY-2

Elev. 697.0

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BORING NUMBER: B-12

Log of Boring

Project PFOHL BROS LANDFILL Location _____ Job. No 897-12-RI-5085

Date Drilled 11/14/89 Drilling Co. Rochester Drilling Company

Total Depth 19'8" Method Used 6¼" Auger

Inspector A. DOWNIE/T. RYAN Organic Vapor Instruments Used OVA/HNU Water Table Depth N.R.

Depth (feet)	Samp No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. - PPM	Sample Description	Strata Change	Remarks (Time of Day)
	1	1	0'/2'	2'/.8'		Top .6' topsoil		1500
	1	2						
1	1	2				Bottom .2' coal ash - orange white		
	1	2						
2	2	1	2'/4'	2'/.1'		Orange fine material coal ash?		Starting to rain
	2	1						
3	2	1						
	2	1						
4	3	1	4'/6'	2'/.6'		White coal ash		
	3	3						
5	3	4						
	3	5						
6	4	2	6'/8'	2'/1.5		Top .3' orange silty material		
	4	2				Silty clay material		
7								

NY-1

BORING NUMBER: D-12

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Log of Boring

Depth (feet)	Samp. No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. (PPM)	Sample Description	Strata Change	Remarks (Time of Day)
					NAB= not above background			
	4	3	6'/8'	2'/1.5'		.5' of gray to dark gray clay		
	4	5	↓	↓		green clay silty material		
8	5	6	8'/10'	2'/1.3'		Stiff brown clay		
	5	12						
9	5	10						
	5	18	↓	↓				
10	6	9	10'/12'	2'/2'		Stiff brown clay		
	6	11						
11	6	22						
	6	20	↓	↓				
12	7	12	12'/14'	2'/1.75'	OVA and HNU N.A.B.	Top -2': Grey to dark grey silty clay		
	7	15			in hole	Middle .3': Brown clay with some silt		
13	7	32				Brown, very stiff clay		
	7	30	↓	↓				
14	8	4	14'/16'	2'/1.7'		Brown clay, stiff		
little silt	8	8	↓	↓				
15								

NY-2

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BORING NUMBER: B-12

Log of Boring

Depth (feet)	Samp. No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. (PPM)	Sample Description	Strata Change	Remarks (Time of Day)
				2'/1.7'				
	8	8	14'/18'	~~14'/18'~~		Brown elastic clay		
	8	9	↓	↓				
16	9	8	16'/18'	2'/1.8'		Brown, very silty elastic clay		
	9	9	↓	↓				
17	9	15	↓	↓				
	9	14	↓					
18	10	4	18'/19.7'	21.7'/1.7'		Stiff brown clay		
	10	5	↓	↓				
19	10	12	↓	↓		Bottom .4' is till. Rock in nose piece		
	10	18/2"	↓	↓		BEDROCK		1630

NY-2

Elev. 671.5

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BORING NUMBER: B-13
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Log of Boring

Project _____ Location B-13 Job. No _____

Date Drilled _____ Drilling Co. _____

Total Depth _____ Method Used _____

Inspector _____ Organic Vapor Instruments Used _____ Water Table Depth _____

Depth (feet)	Samp No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap - PPM	Sample Description	Strata Change	Remarks (Time of Day)
2	SS 1	1 1 1 1	0-2	2'/0.4		Silty top soil No fill		
4	2	4 8 10 12	2-4	2'/0		Rubber, wood, coal ash & orange material in tip of shoe		
6	3	14 21	4-6'	2'/0		Glass, orange material		wet
8	4	24 10 8	6-8	2'/1.6		0-0.3 orange material with silty sand 0.3-1.6 Clayey silt brown	FILL	OVA - 0 ppm down hole
10	5	7 16 12 12	8-10	2'/1.8		0-1.6 Clay, brown, silty stiff 1.6-1.8 - Clayey silt	SILTY CLAY	OVA - 0 ppm down hole
12	6	10 12 8 9	10-12	2'/1.8		Clay, brown, ~~trace~~ silty trace fine sand.		
14	7	3 7 37 50	12-14	2'/1.9		Clay, brown very stiff turning to reddish ~~color~~ color		OVA - 0 ppm in hole.
16	8	7 12 103 100	14-16	2'/1.5		Clay, brown silty. No till.		
						Rock @ 15.8'		
						Sent sample SS-4 to lab also sent MS/MSD from ~~5~~ 7		

NT-1

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BORING NUMBER: B-14
Page 1 of 1

Log of Boring

Project _____ Location B-14 Job. No _____

Date Drilled _____ Drilling Co. _____

Total Depth _____ Method Used _____

Inspector _____ Organic Vapor Instruments Used _____ Water Table Depth _____

Depth (feet)	Samp No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. - PPM	Sample Description	Strata Change	Remarks (Time of Day)
2	SS 1	1 1 2 2	0-2	2'/0.4		Top soil - coal-like chunks		
4	2	1 2 3 4	2-4	2'/0.8		Fill - brick, topsoil, glass wood - coal-like material		
6	3	1 1 1 1	4-6	2'/0.4		Fill - glass, white tile, orange silty material		Tip & spoon is moist
8	4	2 3 3 2	6-8	2'/0.5		Fill - wood, orange silty material, glass silty clay in tip of spoon		
10	5	4 8 16 16	8-10	2'/1.6		0-0.3 Sand, fine, brown 0.3-1.6 - Clay, silty brown		
12			10-12'	2'/2'		Sh. 34 TUB		
14	6	5 14 19 24	12-14	2'/1.8		Clay, brown, silty stiff		odd duplicate 0 ppm 0.0
16	7	5 9 19 5	14-16	2'/1.9'		Clay, brown silty - soft in middle of spoon		
18	8	5 9 17 15	16-18	2'/2'		Clay, brown silty - stiff 1.6-1.8 - silty sand, brown		
20	9	3 3 6 13	18-20	2'/2'		Clay brown very silty soft.		
22	10	2 10 20 23	20-22	2'/1.6'		Sand, silt brown, little fine.		Sent samples SS-5 SS-13 to lab
24	11	8 9 4 6	22-24	2'/1.7		0-0.2 - Sand silt brown 0.2-1.7 - Clay, brown, stiff		
26	12	4 4 5 6	24-26	2'/2'		Clay, brown, elastic		
28	13	3 3 5 6	26-28	2'/2'		Clay, brown, elastic		

Silt - - - clay with rock Auger to 28.5'

NY-1

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BORING NUMBER: B-15
Page 1 of 2

Log of Boring

Project _____ Location B-15 Job. No _____

Date Drilled _____ Drilling Co. RDC

Total Depth _____ Method Used _____

Inspector _____ Organic Vapor Instruments Used _____ Water Table Depth _____

Depth (feet)	Samp No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. - PPM	Sample Description	Strata Change	Remarks (Time of Day)
2	SS 1	1 1 2 2	0-2'	2'/0.2		Piece of wood.		
4	2	2 2 3 3	2'-4'	2'/0				
6	3	6 6 5 4	4'-6'	2'/0.1				
8	4	3 3	6'-8'	2'/0.5		0.-0.2 Black stained very fine sand 0.2-0.5 silty clay material. Rusty edge layer between them.		
10	5	1/12" 1/12"	8'-10'	2'/0.3		Black stained sand and silty clay material.	▽	Black material was wet.
12	6	2 [illegible]	10'-12	2'/1.5	9 ppm	0-0.5 Reddish Brown clay. Top is grey green clayey silt. Same Black sand.	SILTY CLAY	Hole OVA NAB.
14			12-14'			Shelby Tube		
16	7	5 15 25 25	14-16	2'/0.4	OVA NAB	Brown silty sand	SILTY SAND	Hole OVA NAB.
18	8	[illegible] 15 10	16-18	2/1.8		Brown silty clay material [illegible] large rocks, Very silty.	TILL?	
		[illegible]	18-20	2/		Brown silty clay lot of gravel mixed in		
21	10	27 65 43 52	19-21	2/0.6		Grey to dark Brown Till, silty with pebbles		
	11	30 60 [illegible]		2'/0				
25	12	35 [illegible]	23-25	2'/1"		sand with [illegible] of Gravel		Large chunk of weather rock in nose piece

NY-1

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BORING NUMBER: B-15
Page 2 of 2

Log of Boring

Project _____ Location B-15 Job. No _____

Date Drilled _____ Drilling Co. _____

Total Depth _____ Method Used _____

Inspector _____ Organic Vapor Instruments Used _____ Water Table Depth _____

Depth (feet)	Samp No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. - PPM	Sample Description	Strata Change	Remarks (Time of Day)
25								
27	13	15 35 43 52	25-27	2'/2'		Brown fill, very stiff.		
29	14	29 31 55 35	27-29	2'/0		same rock in Nose piece.		
						Rock at 29'.0"		
						sent SS6 and SS13 to Lab		

NY-1

G.S. ELEV.

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BORING NUMBER: B-16

Log of Boring

Project Pfohl Bros Location _____ Job. No 897-12-RC SOBS

Date Drilled 12/7/89 Drilling Co. Rochester Drilling Co.

Total Depth 19' 8" Method Used 6¼" Auger

Inspector B. Alter Organic Vapor Instruments Used OVA/HNU Water Table Depth 6'

Depth (feet)	Samp. No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. - PPM	Sample Description	Strata Change	Remarks (Time of Day)
					b.g. = background b.z. = breathing zone			
0	1	1	0'/2'	2'/.3'		Fill with wood, brick, and plastic		0925 Fresh snow on ground Ground is frozen Site is 2'-3' lower than surrounding area
	1	2						
1	1	6						
	1	2						
2	2	1	2'/4'	2'/.1'	HNU @ b.g. in hole, b.z.	Fill - black stained, silty soil		0930 OVA mal-functioning
	2	1						
3	2	2						
	2	1						
4	3	3	4'/6'	2'/.3'		Fill with black stained wood + glass. Silty material		0940
	3	3						
5	3	7						
	3	7						
6	4	3	6'/8'	2'/.4'	HNU @ b.g. in b.z.	Fill - black stained wood and brick		0945 WET
7	4	4				Gray, dry clay and wood in spoon tip		

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BORING NUMBER: B-16

Log of Boring

Depth (feet)	Samp. No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. (PPM)	Sample Description	Strata Change	Remarks (Time of Day)
7	4	6	6'/8'	2'/.4'		Pieces of wood are yellow and orange		OVA functional? Reads @ b.g. in hole, b.z.
	4	7	↓	↓	↓			
8	5	8	8'/10'	2'/.4'	OVA= 320 in hole, b.g. in b.z.	Fill - black stained wood with glass		1005 Wet
	5	4						
9	5	2			HNu @ b.g. in hole, b.z.			
	5	4	↓	↓	↓			
10	6	2	10'/12'	2'/.4'	OVA= 4 in hole, b.g. in b.z.	Fill - black stained orange-red wood, some glass		1015 Spoon dripped black water
	6	6						
11	6	12						
	6	14	↓	↓	↓			Had to drive spoon 11.5'-12'
12	7	17	12'/14'	2'/.2'	OVA= 6 in hole, b.g. in b.z.	Fill - wet, black stained glass. Some wood and silty material.		1035
	7	6						
13	7	3						
	7	2	↓	↓	↓			
14	8	2	14'/16'	2'/.8'	OVA= 480 in hole, b.g. in b.z.	Brown silt with some sandy particles		1045 OVA=94 on sample HNu=190 on sample!
15	8	20	↓	↓				

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BORING NUMBER: B-16

Log of Boring

Depth (feet)	Samp. No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. (PPM)	Sample Description	Strata Change	Remarks (Time of Day)
15	8	18	14'/16'	2'/.8'	HNu @ b.g. in hole	Brown silt	Silt	OVA=94, HNu=190 on sample
	8	12	↓	↓				
16	9	7	16'/18'	2'/.1'	OVA= 26 in hole, b.g. in b.z.	Only backfill recovered.		1055
	9	20						
17	9	7			HNu=15 in hole			HNu may be malfunctioning; read 7 20m from rig
	9	10	↓	↓	5? in b.z.			
18	10	10	18'/19.7'	2'/.7'	OVA= 24 in hole, b.g. in b.z., b.g. on sample	Very silty brown clay, not too stiff. Outside is black stained.	Clay	1115 Spoon dripped black water
	10	10						
19	10	15						
	10	8/2"	↓	↓		BEDROCK		

NY-2

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...s & management consultants

BORING NUMBER: B-17

BORING NUM

...f Boring

...: Pfohl Bros Location _____ Job. No 897-12-RC-SOBS

...rilled 12/21/89 Drilling Co. Rochester Drilling Co.

...epth _____ Method Used 6¼" Auger

...or T. Ryan Organic Vapor Instruments Used _____ Water Table Depth _____

Samp No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. - PPM	Sample Description	Strata Change	Remarks (Time of Day)
1	1	0'/2'	2'/.4'		organic topsoil		1530 Frozen ground
	1	↓	↓				
	3						
	4	↓	↓				
	8	2'/4'	2'/.3'		White ash and aluminum foil, plastic		
	9	↓	↓				
	9						
	8	↓	↓				
	20	4'/6'	2'/0		Some mud in spoon tip		
	23	↓	↓				
	2						
	3	↓	↓				
	20	6'/8'	2'/0		Black stained wood and some stained silty soil		0 ppl sheen
	15	↓	↓				

Strata Change

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BORING NUMBER: B-17

Log of Boring

Depth (feet)	Samp. No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. (PPM)	Sample Description	Strata Change	Remarks (Time of Day)
15	8		14'/16'	2'/.7'				
	8		↓	↓				
16			16'/18'	2'/0		No recovery		
			↓	↓				
17								
			↓	↓				
18						BEDROCK		

NY-2

G.S. Elev. 694.12

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Well / BORING NUMBER: 1D

Log of Boring

Project Ethel Bros. Location E/s Transit Rd/N/s Aero Drive Job. No 897-12-

Date Drilled 10/12/88 - 10/13/88 Drilling Co. Rochester Drilling Corp.

Total Depth 38' 0" Method Used Auger, NX Core / Tricone Roller Bit

Inspector C. Wenczel / K. Smith Organic Vapor Instruments Used OVA / HNu Water Table Depth 5 1/2'

Depth (feet)	Samp No.	Blows per 6" 140 lbs.	Sample Interval	Adv./ Recov.	Org. Vap. - PPM	Sample Description	Strata Change	Remarks (Time of Day)
0								
	1	1	0'0" / 2'0"	24" / 18"		3" Organic Soil, roots. 1" Clay; red. 7" Sand, medium; some fine; trace very fine, trace clay; brown. 7" Clay, grey; little medium sand.		
1	1	2	"					
	1	4	"					
	1	5	"					
2								1005
	2	9	2'0" / 4'0"	24" / 14"		2" Sand, coarse; some medium; grey. 12" Sand, medium; some fine; trace very fine; trace coarse; little silt; brown to grey.		
3	2	6	"					
	2	6	"					
	2	11	"					
4								
	3	3	4'0" / 6'0"	24" / 22"		6" Sand, fine; some silt; trace medium sand; grey. 3" Silt, brown to orange; trace very fine sand. 5" CLAY, black, orange, grey layers. 8" SAND, fine; some very fine sand; grey to brown saturated.	▽	
	3	4	"					
5	3	10	"					
	3	11	"					
6								
	4	10	6'0" / 8'0"	24" / 20"		12" SAND, medium; some fine; little very fine. 8" SAND; very fine; some silt; brown to black.		12" sand in bottom of spoon has a petroleum odor, no OVA reading
7	4	19	"					

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Well/ BORING NUMBER: 1D

Log of Boring Adv./Recov.

Depth (feet)	Samp. No.	Blows per 6" lbs.	~~Sample Interval~~ Adv./Recov.	Org. Vap. (PPM)	Sample Description	Strata Change	Remarks (Time of Day)
7							
	A	27	6'0" / 8'0"		3" SILT, brown to orange; little clay; 3" CLAY, grey to light tan, 1st Entry this sample belongs here.		well layered; well layered; Petroleum odor.
	A	30	"				
8	5	4	24" / 24"		6" SAND, medium; trace very fine sand; brown to black.		
	5	5	8'0" / 10'0"		4" SAND, medium; some silt in layers of brown black and grey		
9	5	4	"		2" SAND, medium; some fine brown; trace coarse; brown.		
	5	5	"		12" CLAY, red to brown; some silt, no layering; trace of gravel		
10	6	1	24" / 16"		6" SAND, medium; some silt, little fine sand; trace medium; grey to brown		
	6	3	10'0" / 12'0"		4" SAND, very fine; some silt; layers of brown, tan grey, black, trace clay		
11	6	7	"		6" SAND, very fine, some silt, trace gravel; pink to red.		
	6	5	"				
12	7	3	24" / 12"		6" SAND, fine; some very fine trace silt, alternating layers of orange, brown and black.		
	7	5	12'0" / 14'0"	10ppm	6" TILL; 1" gravel; pea gravel; very coarse sand; coarse sand, medium sand; trace fine sand; little very fine sand; little silt. Limestone chunks of gravel		
13	7	14	"				
	7	15	"				
14	8	3	6" / 14'0"		6" SAND; medium; some fine sand; grey		
	9	R	14'6" / 18'0"		ROCK, fossiliferous limestone		
15							

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Well / BORING NUMBER: 1D

Log of Boring

Depth (feet)	Samp. No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. (PPM)	Sample Description	Strata Change	Remarks (Time of Day)
15								
	9	cuttings	14'6" / 18'0"	/		ROCK, fossiliferous limestone, Onondaga?		15ppm/HNU from water discharge during drilling
16	9		"	/		" "		
	9		"	/				
	9		"	/		" "		
17	9		"	/				
	9		"	/		" "		
18	C1	CORE 1	18'0" / 23'0"	4'1" / 10"				
	C1	"	"	" / "				
19	C1	"	"	" / "				
	C1	"	"	" / "				
20	C1	"	"	" / "				
	C1	"	"	" / "				
21	C1	"	"	" / "				
	C1	"	"	" / "				
22	C1	"	"	" / "				
	C1	"	"	" / "				
23	C1	"	"	" / "				

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BORING NUMBER: 1-D

Log of Boring

Project PFizer Brooklyn Location _____ Job. No _____

Date Drilled _____ Drilling Co. _____

Total Depth _____ Method Used _____

Inspector _____ Organic Vapor Instruments Used _____ Water Table Depth _____

Depth (feet)	Samp No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. - PPM	Sample Description	Strata Change	Remarks (Time of Day)
23	C2		23'/28'	10'/hr		4'10" recovery		1012
	C2					Foss. lifeous limestone w/some chert nodule		
24	C2					inclusions		
	C2							
25	C2							
	C2							
26	C2							
	C2							
27	C2						Limestone	
	C2							
28	C3		28'/33'	10'/hr		Foss. lifeous limestone w/some chert nodule inclusions 4'10" recovery		1045 1305
	C3							
29	C3							
	C3							
30								

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BORING NUMBER: 1-D
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Log of Boring

Project Pfizer Bros Location _____ Job. No _____

Date Drilled _____ Drilling Co. _____

Total Depth _____ Method Used _____

Inspector _____ Organic Vapor Instruments Used _____ Water Table Depth _____

Depth (feet)	Samp No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. - PPM	Sample Description	Strata Change	Remarks (Time of Day)
~~30~~								
	C3		28'/33'	10'/hr		Fossiliferous limestone w/some chert nodule inclusions		
	C3					4'10" recovery		
31	C3							
	C3							
	C3							
32	C3							
	C3							
33	C4		33'/38'	10'/hr		Fossiliferous limestone		1331 1345
	C4					5'2" core recovered		
34	C4							
	C4							
35	C4							
	C4							
36	C4							
	C4							
37	C4							
38								

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U.S. Elev. 677.0

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BORING NUMBER: 25

Log of Boring

Project Pfohl Bros Location _____ Job. No 897-12-RC-WELL

Date Drilled 12/6/89 Drilling Co. Rochester Drilling Co.

Total Depth 22' 7" Method Used 6¼" Auger

Inspector B. Alter Organic Vapor Instruments Used OVA / HNU Water Table Depth 5'

Depth (feet)	Samp No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. - PPM	Sample Description	Strata Change	Remarks (Time of Day)
					b.z. = breathing zone b.g. = background			
0	1	2	0'/2'	2'/.3'		Black silty topsoil		0800 Well location is slight depression ~2'-3' low.
	1	4						
1	1	4						
	1	6						
2	2	3	2'/4'	2'/0	OVA=0 in b.z.	Some fill in tip		
	2	4						
3	2	3						
	2	2						
4	3	3 total	4'/6'	2'/.3'		~~or~~ Wood, orange, silty, fine sand		0815 Wood is black stained WET
	3							
5	3							
	3							
6	4	1	6'/8'	2'/.2'	OVA= 1 on sample, HNU= (user)	Fill - wood, brick, and plastic. Everything is black stained		0820 Dripping water in spoon
7	4	10						

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BORING NUMBER: 2-S

Log of Boring

Depth (feet)	Samp. No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. (PPM)	Sample Description	Strata Change	Remarks (Time of Day)
					(cont)			
7	4	2	6'/8'	2'/.2'	.5 on sample	Fill - black stained		
	4	2	↓	↓	↓			
8	5	2	8'/10'	2'/.3'	OVA @ b.g. in hole, b.z.	Black stained wood and red brick		0830 Dripping water in spoon:
	5	4						
9	5	5						
	5	3	↓	↓	↓			
10	6	1	10'/12'	2'/0	OVA @ b.g. in hole	No recovery - tip of spoon has red brick piece		0840 Spoon spurted water. Water is black, oil stained
	6	2						
11	6	1						
	6	2	↓	↓	↓			
12	7	5	12'/14'	2'/1.8'	OVA @ b.g. in hole	Brown clayey silt, fairly loose		0855 Hit something hard @ 12.5'
	7	20			HNU =			
13	7	45			400 on sample!	Sample stained w/ black tarry substance		Spoon is dripping water
	7	57	↓	↓	OVA on sample = 150			
14	8	6	14'/16'	2'/1.4'	HNU = 25, OVA = 210 over sample	Black, loose, very silty clay in top .7'. Wood in sample - could be fill		0905 Spoon is oil stained
	8	30	↓	↓				
15								

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BORING NUMBER: 2-S

Log of Boring

Depth (feet)	Samp. No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. (PPM)	Sample Description	Strata Change	Remarks (Time of Day)
15	8	57	14'/16'	2'/1.4'		Bottom .7' - silty, fine brown sand	Sand	
	8	30	↓	↓	↓			
16	9	16	16'/18'	2'/1.2'	OVA & HNu @	Fairly stiff brown clay		0915
	9	10			b.g. in hole, b.z.			Spoon is oil stained
17	9	13			OVA @ b.g. on sample,			
	9	14	↓	↓	HNu = 1.5			
18	10	16	18'/20'	2'/1.3'	OVA @ b.g. in	Brown clay, fairly to very stiff	Clay	0930
	10	37			hole, b.z.			Spoon is oil stained
19	10	40			HNu = 3 on sample,			OVA may have failed
	10	45	↓	↓	OVA @ b.g.			
20	11	10	20'/22'	2'/2'	OVA = 230 in hole,	Stiff brown clay		0950
	11	18			HNu = 25			Spoon is dripping water
21	11	30			Both @ b.g. in			HNu = 1.5 on sample,
	11	70	↓	↓	b.z.	Bottom .6' - very stiff gray clay (similar to that seen in 14S).		OVA @ b.g. Spoon is oil stained
22	12	25	22'/22.6'	.8'/.8'	OVA @ b.g. in hole b.z., sample	Gray clayey till with limestone fragments. Matrix similar to spoon 11.	Till	1020 Buried .2' into gray limestone
23	12	24/1"	↓	↓		BEDROCK (penetrated)		
						BEDROCK		

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BORING NUMBER: SB-2

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Log of Boring

Project Pfohl Bros Location Buffalo, NY Job. No 897-12-RC-SUBS

Date Drilled 10/31/88-11/3/88 Drilling Co. Rochester Drilling

Total Depth 12'2" / 35' Method Used Hollow Stem Auger

Inspector C. Wenczel Organic Vapor Instruments Used OVA / HNU Water Table Depth 10' 11.5'

Depth (feet)	Samp No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. - PPM	Sample Description	Strata Change	Remarks (Time of Day)
0								
0	1	1	0' / 2'	24" / 20"		8" Organic soil, medium dark brown to black sand	Soil	1400
	1	2				12" medium light brown to orange sand. Some fine grained. Damp.	Sand	
1	1	5						
	1	3						
2	2	3	2' / 4'	24" / 18"		7" medium gr sand, some fine; trace silt brown		
	2	6				11" Pink to brown clay. Damp.	Clay	
3	2	8						
	2	10						
4	3	4	4' / 6'	24" / 24"		6" medium gr sand, some coarse, little fine, brown to yellow Damp	Sand	overheads Rig malfunction 1525
	3	6				18" Pink clay w/ fine, thin silty layers. Almost dry.	Clay	
5	3	10						
	3	12						
6	4	4	6' / 8'	24" / 24"	.8	4" V fine sand. Some silt. Damp	Sand	1540
	4	6				20" Pink clay. Damp Some small gravel and 1" stone	Clay	
7								

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BORING NUMBER: 3-D
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Log of Boring
Project Pfohl Bros Location Buffalo NY Job. No 897-12-RC-3005
Date Drilled 10/31/88 - 11/3/88 Drilling Co. Rochester Drilling
Total Depth 12'2" / 35' Method Used Hollow Stem Auger
Inspector C Wenczel Organic Vapor Instruments Used OVA/HNU Water Table Depth ~~Dry~~ 11.5

Depth (feet)	Samp No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. - PPM	Sample Description	Strata Change	Remarks (Time of Day)
7	4	6 9	6' / 8'	24" / 24"		Pink clay w/small gravel & 1" stone Damp.		
	4	12	↓	↓				
8	5	5	8' / 10'	24" / 9"		Pink clay. RW/ yellow to light brown & dark brown thin layers		
	5	9						
9	5	10					Clay	
	5	10	↓	↓				
10	6	5	10' / 12'	24" / 18"		Pink clay, some gravel		
	6	3						
11	6	2				6" medium sand, grey wet.		
	6	1	↓	↓				
12		100	12' / 12'2"					1630 2" penetration 0905 11/1/88 OVA=160ppm HNU=5ppm on water discharge
		Rock surface					Bedrock	
13		to 15.0'						
14								

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BORING NUMBER: S-D

Log of Boring Pfohl Bros

Depth (feet)	Samp. No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. (PPM)	Sample Description	Strata Change	Remarks (Time of Day)
								1005 11/2/88
15								
16	C1		15'/25'			Fossiliferous limestone		OVA = 250 ppm HNu < 27 ppm Some water loss
17	C1					Fracture at 17'		
18	C1							
19	C1					Large Fracture at 19'0"		Excessive water loss
20	C1							
21	C1							
22	C1							
23	C1							
24	C1					Fracture at 24'		
25	C1							1105
26	C2		25'/35'			Many fractures Fossiliferous limestone		0755 11/3/88 100% water loss
27	C2							
28	C2							
29	C2							
30	C2							
31								

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BORING NUMBER: S-1)

Log of Boring Pfizer Bros

Depth (feet)	Samp. No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. (PPM)	Sample Description	Strata Change	Remarks (Time of Day)
31								0903
32			25'/35'			Mon		Refill water tank
33								
34								
35								1102

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BORING NUMBER: 4-D
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Log of Boring

Project Pfohl Bros Location Buffalo NY Job. No 897-12-RC-JOBS

Date Drilled 10/19/88 - 10/20/88 Drilling Co. Rochester Drilling

Total Depth 19' 1" / 43' Method Used Hollow stem auger

Inspector C. Wenczel Organic Vapor Instruments Used OVA / HNu Water Table Depth 4'

Depth (feet)	Samp. No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. - PPM	Sample Description	Strata Change	Remarks (Time of Day)
0								
	1	1	0'/2'	24"/18"	0	Organic black soil, roots, moist humus		0845
1	1	1					Soil	
	1	3						
2	1	5						
	2	9	2'/4'	24"/18"	0	Light tan-yellow Medium gr sd; some fine, little v fine; trace silt Moist sample		0850
3	2	6					Sand	
	2	4						
4	2	7						
	3	2	4'/6'	24"/17"	0	Wet spoon Pink clay, some fine layers of silt		0915
5	3	4						
	3	7					Clay	
6	3	9						
	4	5	6'/8'	24"/24"		24" Moist pink clay w/ 1" ft limestone erratic;		0930 (s limestone of glacial origin?
7	4	9						

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BORING NUMBER: 4-D
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Log of Boring

Project Pfohl Bros Location Buffalo, NY Job. No 897-12-RL-JOBS

Date Drilled 10/19/88-10/20/88 Drilling Co. Rochester Drilling

Total Depth 19' 1" /43' Method Used Hollow stem auger

Inspector C. (Wenczel) Organic Vapor Instruments Used OVA/HNU Water Table Depth 4'

Depth (feet)	Samp No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. - PPM	Sample Description	Strata Change	Remarks (Time of Day)
7								
	4	10	6'/8'	24"/24"		moist pink clay		
	4	13	↓	↓				
8	5	4	8'/10'	24"/24"		moist pink clay	Clay	0935
	5	8						
9	5	17						
	5	18	↓	↓		3" Medium gr grey sand	Sand & Silt	0955
10	6	5	10'/12'	24"/24"		3" brown silt w/small stones		Possible lacustrine deposit which would inhibit vertical flow
	6	10				Pink clay w/ small limestone pieces	Clay	
11	6	15						
	6	17	↓	↓				
12	7	5	12'/14'	24"/24"		4" wet yellow-tan silt	Silt	1015
	7	8				Damp Pink clay	Clay	
13	7	10						
	7	12	↓	↓				
14								

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BORING NUMBER: 4-D
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Log of Boring
Project Pfohl Bros Location Buffalo NY Job. No 897-12-RC-5085
Date Drilled 10/19/88-10/20/88 Drilling Co. Rochester Drilling
Total Depth 19' 1" /43' Method Used Hollow stem auger
Inspector C Wenczel Organic Vapor Instruments Used OVA/HNU Water Table Depth 4'

Depth (feet)	Samp No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. - PPM	Sample Description	Strata Change	Remarks (Time of Day)
14								
	8	3	14'/16'	24"/24"		Clay w/ yellow and tan layers		1030
	9	5						
15								
	8	6				Dark pink clay w/ small gravel and stones	Clay	Gravel may show signs of ice erosion/ deposition
	8	10						1050
16								
	9	7	16'/18'	21"/24"	30 (OVA)	Damp pink clay		
	9	13						
17								
	9	28				Brown clay with interposed gravel		
	9	53			18	Grey till	Till	No sample left to be bagged 1115
18								
	10	20	18'/19'	13"/12"	60	Pink clay	clay	
	10	22				Gravel, some grains >1" diameter; V wet; silt mixed in; fairly loose	Till	Hi OVA here
19								
	10	100	19'/19'1"			Limestone; fossiliferous	Bedrock	1315
	10					Rock socket 19.1'–23.0'		Water loss experienced
23								

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BORING NUMBER: 4-D

Log of Boring — Pfohl Bros

Depth (feet)	Samp. No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. (PPM)	Sample Description	Strata Change	Remarks (Time of Day)
23								10/20/88 0900
24	C1					Several fractures Fossiliferous limestone w/ corals; brachiopods. Some chert.		ONA <4 ppm on discharge line HNU <20 ppm. Smooth drilling
25	C1							
26	C1							Significant water loss during coring
27	C1							
28	C1							1000
29	C2					Some fossiliferous limestone		Significant water loss positive ONA & HNU readings
30	C2							
31	C2							
32	C2							
33	C2							
34	C3					Some fractures Some limestone		1045 Positive ONA & HNU readings
35	C3							
36	C3							
37	C3							
38	C3							

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BORING NUMBER: 4-D

Log of Boring

Pfohl Bros

Depth (feet)	Samp. No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. (PPM)	Sample Description	Strata Change	Remarks (Time of Day)
38								1315
39	C4					Some fossiliferous limestone Not many fractures		Drilling water has had a milky off-white tint with foam at the surface water has no OVA, HNU readings.
40	C4							
41	C4							
42	C4							
43	C4							

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G.S. 21ED. 677.64

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BORING NUMBER: 5-D
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Log of Boring

Project Ford Bros Location Buffalo NY Job. No 897-12-RC-5085

Date Drilled 10/24/88-10/25/88 Drilling Co. Rochester Drilling

Total Depth 25'7" / 38' Method Used Hollow stem auger

Inspector C. Wenczel Organic Vapor Instruments Used OVA / HNu Water Table Depth 10.5'

Depth (feet)	Samp. No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. - PPM	Sample Description	Strata Change	Remarks (Time of Day)
0	1	1	0'/2'	24"/18"		Fill w/ ashes, glass Dry to moist		1050
1	1	1						
	1	2						
	1	4	↓	↓				
2	2	3	2'/4'	24"/12"		Fill w/ ashes, glass, coal. Dry to moist	Fill	
3	2	3						
	2	3						
	2	3	↓	↓				
4	3	3	4'/6'	24"/24"		Fill, brown organic soil		1125
	3	3						
5	3	5				Grey to green clay with some yellow	Clay	
	3	7	↓	↓		Pink clay with some grey stripes, roots.		Damp 1130
6	4	4	6'/8'	24"/20'		Fill with ashes, glass,	Fill	
	4	6	↓	↓				
7								

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BORING NUMBER: 5-D
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Log of Boring

Project Pfohl Bros Location Buffalo NY Job. No 897-12-RC-SDBS

Date Drilled 10/24/88-10/25/88 Drilling Co. Rochester Drilling

Total Depth 25'7" / 38' Method Used Hollow stem auger

Inspector C. Wenczel Organic Vapor Instruments Used OVA / HNu Water Table Depth 10.5'

Depth (feet)	Samp No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. - PPM	Sample Description	Strata Change	Remarks (Time of Day)
7								
	4	11	6'/8'	24"/20"		8" Pink native clay	Clay	
	4	13	↓	↓				
8	5	3	8'/10'	24"/24"	0	4" Fill	Fill	1140 may be from auger
	5	6	↓	↓	↓	Tight pink clay; very dry	Clay	Clay broke into piece when spoon was split
9	5	9	↓	↓	↓			
	5	13	↓	↓	↓			
10	6	5	10'/12'	24"/20"		Fill	Fill	
	6	7	↓	↓		Silt, light brown, wet	Silt	
11	6	6	↓	↓		Damp pink clay		
	6	8	↓	↓				
12	7	3	12'/14'	24"/23"		Pink clay, some silt, wet to damp	Clay	
	7	4	↓	↓				
13	7	7	↓	↓				
	7	9	↓	↓				
14								

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BORING NUMBER: 5-D
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Log of Boring

Project Pfohl Bros Location Buffalo NY Job. No 897-12-RC-5085

Date Drilled 10/24/88 - 10/25/88 Drilling Co. Rochester Drilling

Total Depth 38' Method Used Hollow stem auger

Inspector C. Wenczel Organic Vapor Instruments Used OVA/HNu Water Table Depth 10.5'

Depth (feet)	Samp No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. - PPM	Sample Description	Strata Change	Remarks (Time of Day)
14								
	8	1	14'/16'	24"/12"		Pink clay w/ some silt, damp to moist	Clay	native
15	8	1						
	8	4						
	8	7						
16	9	1	16'/18'	24"/12"		Pink silt	Silt	native
	9	8						
17	9	9						
	9	15						
18	10	2	18'/20'	24"/10"		Very fine grained sand, some silt. Damp.	Sand	
	10	17						
19	10	12						
	10	6						1245
20	11	2	20'/22'	24"/24"		Pink to light brown silt; little clay Some v fine sd.	Silt	
	11	2						
21								

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BORING NUMBER: 5-D
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Log of Boring

Project Pfohl Bros Location Buffalo NY Job. No 897-12-RC-5085

Date Drilled 10/24/88 - 10/25/88 Drilling Co. Rochester Drilling

Total Depth 25' 7"/38' Method Used Hollow stem auger

Inspector C. Wenczel Organic Vapor Instruments Used OVA/HNU Water Table Depth 10.5'

Depth (feet)	Samp No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. - PPM	Sample Description	Strata Change	Remarks (Time of Day)
21								
	11	3	20'/22'	24"/24"		Pink to light brown silt, little clay some v fine sd		
	11	4	↓	↓				Break for lunch 1440
22	12	1	22'/24'	24"/24"		Pink to light brown silt; saturated	Silt	Spoon very wet
	12	2						
23	12	3						
	12	4	↓	↓				
24	13	7	24"/25'7"			Not logged		
	13	8				↓		
25	13	100	↓					1635 10/24/88 ~~0750 10/25/88~~
25'7"								No above background readings on HNU/OVA; weather stormy
		Drill 4'					Bedrock	
26'		Sucker rod						
27'								
28'								
29'								
29'7"								

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BORING NUMBER: 5D

Log of Boring — Ft. Dix Bros

Depth (feet)	Samp. No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. (PPM)	Sample Description	Strata Change	Remarks (Time of Day)
						C1 (breathing zone)		0930 10/25/88
28								
29	C1					Fossiliferous limestone Some chert		Full recovery
30	C1							
31	C1							
32	C1				0	Big fracture @ 31'3"		Mud water loss H2S 5 ppm discharge
33	C1							
34	C2							1030 Full recovery No water return, still.
35	C2							
36	C2							
37	C2							
38	C2							1600 Ended due to continued water loss.

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U.S. CIEO. 648.24

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BORING NUMBER: 6D
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Log of Boring

Project Pohl Bros. Location E/s Transit Rd. Job. No 897-12-RC-WELL
Date Drilled 7/18/89 Drilling Co. Rochester Drilling Company
Total Depth 10'8" / 33' Method Used 6 1/4" Auger
Inspector C. Wenczel Organic Vapor Instruments Used HNu Water Table Depth ≅5'0"

Depth (feet)	Samp No.	Blows per 6" 140 lbs.	Sample Interval	Adv./ Recov.	Org. Vap. - PPM	Sample Description	Strata Change	Remarks (Time of Day)
	1	16	0'0" to 2'0"	24"/16"	Bkd	6" Fill, gravel, crusherrun		1430
	1	18	"	"	"	4" Sand, very fine; some silt; brown		
1	1	18	"	"	"	6" Sand, very fine; some silt; trace very fine sand; black sand roots, trace gravel	1	
	1	25	"	"	"			
2							2	
	2	10	2'0" to 4'0"	24"/20	"	6" Fill, brick, gravel		
	2	12	"	"	"	6" Sand, medium; some fine little very fine; trace silt; black		
3	2	9	"	"	"	8" Sand, medium, some fine; trace very fine wet.		capillary fringe moisture
	2	7	"	"	"			
4							4	
	3	3	4'0" to 6'0"	24"/14"	"	6" SAND, medium; some fine; little very fine; trace silt; pink wet		
	3	7	"	"	"	8" SAND, very fine; some silt; pink; wet.		
5							5	▼ Approximate
	3	9	"	"	"			
	3	7	"	"	"			
6							6	
	4	6	6'0" to 8'0"	24"/16"	"	16" SAND, very fine; some fine; little silt; pink to brown, saturated		
	4	9	"	"	"			
7							7	

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BORING NUMBER: 6D

Log of Boring

Project Pfohl Bros. Location E/s Transit Rd. Job. No 897-12-RC-WELL
Date Drilled 7/18/89 Drilling Co. Rochester Drilling Company
Total Depth 10'8" / 33' Method Used 6 1/4" Auger
Inspector C. Wenzel Organic Vapor Instruments Used HNu Water Table Depth ≧ 5'0"

Depth (feet)	Samp No.	Blows per 6" 140 lbs.	Sample Interval	Adv./ Recov.	Org. Vap. - PPM	Sample Description	Strata Change	Remarks (Time of Day)
7								
	4	1.5	6'0" to 8'0"	24"/16"	Bkd			
	4	17	"	"	"			
8	5	8	8'0" to 10'0"	24"/20"	"	20" Till, 1" gravel; fine sand; silt; little clay; pink to red/brown		
	5	10	"	"	"			
9	5	13	"	"	"			
	5	16	"	"	"			
10	6	9	10'0" to 12'0"	14"/14"	"	Till, 1" gravel; fine sand; silt; little clay; pink to red/brown		
	6	R	"	"	"	Rock at 10' 8"		1645
11	6		"					
	6		"					
12		Rocks to 13'	pocket					
13'	C1		13'/23'	8"/hr		Fossiliferous limestone, w/ coral + brachiopods Break 13.5', 13.7', 13.9'		1015 7/19/89
14	C1		↓	↓		Fracture 14.1' Break 14.3', 14.88'		
15								

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BORING NUMBER: 6D

Log of Boring — Pfohl Bros

Depth (feet)	Samp. No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. (PPM)	Sample Description	Strata Change	Remarks (Time of Day)
15								
16	C1		13'/23'	8'/hr		Break 15.4', 15.6'		
17	C1					FOSSILIFEROUS LIMESTONE W/ CORAL AND BRACHIOPODS		
18	C1					Fracture 17.8'		Some water loss
19	C1					Break 18.4' Fracture 18.7'		Some water loss
20	C1					Break 19.15'		
21	C1					Break 20.2'		
22	C1					Break 21.4', 21.8'		
23	C1					Break 22.8', 22.95'		1200
24	C2		23'/33'	4'/hr		Fracture 23.8' Fracture 24.2'		1315 Water loss
25	C2					Break 25.4', 25.5'		
26	C2							
27	C2							
28	C2							
29	C2					~~Break~~ Fracture 28.65'		
30	C2					Break 29.5'		
31	C2					Break 30.1', 30.3', 30.75'		

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BORING NUMBER: 6D

Log of Boring

Pfohl Bros

Depth (feet)	Samp. No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. (PPM)	Sample Description	Strata Change	Remarks (Time of Day)
31								
32	C2		23'/33'	4'/hr		Brwk 31.25', [redacted]		
33	C2		↓	↓		Brwk 32.0', 32.3'		1545 Water gets muddy brown 1600

NY-2

G.2 Elev. 696.46

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BORING NUMBER: ~~78~~ MW-1

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Log of Boring

Project Pfohl Bros. Location S/s of Pfohl Rd Job. No 897-12-RC-WELL

→ Date Drilled 6/23/89 - 6/27/89 Drilling Co. Rochester Drilling Company

→ Total Depth 58'0" Method Used 6'/4" Auger/NX Core/3 7/8" Tricone Bit

Inspector C. Wenczel Organic Vapor Instruments Used HNu Water Table Depth ≡ 5'6"

Depth (feet)	Samp No.	Blows per 6" 140 lbs.	Sample Interval	Adv./ Recov.	Org. Vap. - PPM	Sample Description	Strata Change	Remarks (Time of Day)
	1	3	0'0" to 2'0"	24"/12"	BKd	12" Fill, silt, some small gravel, brick fragments, roots organic, black		0920 6/23
	1	4	"	"	"			
1	1	5	"	"	"	1		
	1	4	"	"	"			
2	2	5	2'0" to 4'0"	24"/6"	"	2 6" SILT; some clay; some pieces of wood; grey to red/brown damp		1015 6/23 80°F
	2	4	"	"	"			Cappilary fringe
3	2	3	"	"	"	3		
	2	2	"	"	"			
4	3	3	4'0" to 6'0"	24"/18"	"	4 8" SILT; some gravel; brown and grey		
	3	1	"	"	"	4" SILT; brown		
5	3	3	"	"	"	4" SAND; very fine; some silt; grey to white/yellow, wet 5		▼
	3	2	"	"	"			
6	4	2	6'0" to 8'0"	24"/18"	"	6 6" SILT; trace gravel dark brown to black		
	4	6	"	"	"	12" SILT; some clay; trace fine sand; red to brown 7		
7								

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BORING NUMBER: ~~TD~~ SHT P-11

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Log of Boring

Project Pfohl Bros. Location S/s Pfohl Road Job. No 897-12-RC-WELL

Date Drilled 6/28/89-6/27/89 Drilling Co. Rochester Drilling Company

Total Depth 58'0" Method Used 6 1/4" Auger / NX Core / 3 7/8" Tricone Bit

Inspector C. Wenczel Organic Vapor Instruments Used HNu Water Table Depth ≐ 5'6"

Depth (feet)	Samp No.	Blows per 6" 140 lbs.	Sample Interval	Adv./ Recov.	Org. Vap. - PPM	Sample Description	Strata Change	Remarks (Time of Day)
7	4	7	6'0" to 8'0"	24"/18"	Bkd			
	4	8	"	"	"			
8	5	6	8'0" to 10'0"	24"/22"	"	8" SAND, very fine; some silt; trace medium sand; grey to brown; wet		1200 86°F 6/23/89
	5	10	"	"	"	4" SILT; interlayered with clay; laminations 1/8" thick; pink		
9	5	13	"	"	"			
	5	22	"	"	"	7" CLAY, pink		
10	6	5	10'0" to 12'0"	24"/24"	"	24" CLAY; pink; 1/4" layers silt		1345
	6	7	"	"	"			
11	6	11	"	"	"			
	6	18	"	"	"			
12	7	8	12'0" to 14'0"	24"/22"	"	6" SAND, fine to very fine; some silt; grey to black; wet		6/26/89 0905
	7	9	"		"	16" CLAY, pink; some very fine sand.		
13	7	10	"		"			
	7	12	"		"			
14								

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BORING NUMBER: ~~DD~~ SK1 DD

Log of Boring

Project Pfohl Bros. Location S/S Pfohl Road Job. No 897-12-RC-WELL

Date Drilled 6/23/89 - 6/27/89 Drilling Co. Rochester Drilling Company

Total Depth 58' 0" Method Used 6"/4" Auger | NX Core | 3 7/8" Tricone Bit

Inspector C. Wenzel Organic Vapor Instruments Used HNu Water Table Depth ≡ 5'6"

Depth (feet)	Samp No.	Blows per 6" 140 lbs.	Sample Interval	Adv./ Recov.	Org. Vap. - PPM	Sample Description	Strata Change	Remarks (Time of Day)
15	8	5	14'0" to 16'0"	24"/24"	Bkd	12" SAND, very fine; some silt; black to grey		
	8	6	"	"	"	12" CLAY, pink; some water in silt, lamination		
	8	8	"	"	"			
	8	11	"	"	"			
16	9	12	16'0" to 18'0"	24"/12"	"	12" SILT, pink and grey some very fine sand, saturated		96°F inside mg suite
	9	13	"	"	"			
17	9	14	"	"	"			
	9	14	"	"	"			
18	10	7	18'0" to 20'0"	24"/24"	"	6" CLAY, pink; some silt		
	10	11	"	"	"	18" SAND, very fine; some fine, little silt, some medium sand, wet		
19	10	13	"	"	"			
	10	22	"	"	"			
20	11	13	20'0" to 22'0"	24"/24"	"	3" SAND, very fine; some v.f. gravel		6/26/89 1525
	11	28	"	"	"	4" CLAY, pink; trace silt		
21						5" SILT, grey; some very fine sand.		

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BORING NUMBER: 7D

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Log of Boring

Project Pfohl Bros. Location S/S Pfohl Road Job. No 89T-12-RC-WELL

Date Drilled 6/23/89 - 6/27/89 Drilling Co. Rochester Drilling Company

Total Depth 58' 0" Method Used 6 1/4" Auger / NX Core / 3 7/8" Tricone Bit

Inspector C. Wenczel Organic Vapor Instruments Used HNu Water Table Depth ≈ 5'6"

Depth (feet)	Samp. No.	Blows per 6" 140 lbs.	Sample Interval	Adv./ Recov.	Org. Vap. - PPM	Sample Description	Strata Change	Remarks (Time of Day)
	11	40	20'0" to 22'0"	24"/24"	BKd	12" SAND, very fine; some fine; trace silt; grey to brown, saturated		
	11	57	"	"	"			
22						22		
	12	9	22'0" to 24'0"	24"/16"	"	6" SILT, pink to grey to brown		
	12	10	"	"	"	10" SAND, very fine; some fine, trace medium, trace silt, saturated		
23						23		
	12	14	"	"	"			
	12	20	"	"	"			
24						24		
	13	10	24'0" to 26'0"	24"/24"	"	24" SAND, very fine; some silt; trace clay, some layers of silt, all dull brown to grey.		
	13	9	"	"	"			
25						25		
	13	16	"	"	"			
	13	16	"	"	"			
26						26		1430
	14	7	26'0" to 28'0"	24"/24"	"	12" SAND, very fine; some silt; trace fine sand		
	14	11	"	"	"	12" SILT, some fine sand; little gravel; grey brown		
27						27		
	14	14	"	"	"			
	14	13	"	"	"			
28						28		

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BORING NUMBER: TD

Log of Boring

Project Pfohl Bros. Location S/S Pfohl Road Job. No 897-12-RC-WELL

Date Drilled 6/23/89 - 6/27/89 Drilling Co. Rochester Drilling Company

Total Depth 58'0" Method Used 6 1/4" Auger / MxCore 3 7/8" Tricone Bit

Inspector C. Wenczel Organic Vapor Instruments Used HNu Water Table Depth ≅ 5'6"

Depth (feet)	Samp No.	Blows per 6" 140 lbs.	Sample Interval	Adv./ Recov.	Org. Vap. - PPM	Sample Description	Strata Change	Remarks (Time of Day)
28	15	7	28'0" to 30'0"	24"/24"	Bkd	24" SILT; some very fine sand, trace 1/2" gravel very tight, red to grey		
	15	10	"	"	"			
	15	43	"	"	"			
30	15	32	"	"	"			
	16	20	30'0" to 32'0"	24"/16"	"	16" SAND, very fine; some silt; trace gravel brown to grey.		
	16	34	"	"	"			
31	16	49	"	"	"			6/27/89
	16	62	"	"	"			
32	17	15	32'0" to 34'0"	24"/24"	"	6" SAND, very fine; some silt; pink to brown saturated		
	17	40	"	"	"	3" SAND, fine; some silt trace medium, brown, wet.		
33	17	36	"	"	"	15" CLAY; grey; damp, very tight.		
	17	42	"	"	"			
34	18	17	34'0" to 36'0"	24"/24"	"	8" SILT; red to pink, saturated 4" CLAY; grey to black damp 12" Silt, some very fine sand little gravel		
35	18	25	"	"	"			

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BORING NUMBER: 7D

Log of Boring

Project Pfohl Bros. Location S/S Pfohl Road Job. No 897-12-RC-WELL

Date Drilled 6/23/89 - 6/27/89 Drilling Co. Rochester Drilling Company

Total Depth 58'0" Method Used 6 1/4" Auger / NX Core / 3 7/8" Tricone Bit

Inspector C. Wenczel Organic Vapor Instruments Used HNu Water Table Depth ≅ 5'6"

Depth (feet)	Samp No.	Blows per 6" 140 lbs.	Sample Interval	Adv./ Recov.	Org. Vap. - PPM	Sample Description	Strata Change	Remarks (Time of Day)
	18	28	34'0" to 36'0"	24"/24"		Rock at 35'9"		
	18	R	"	"				
36	19		36'0" to 38'0"			Rock Socket for casing 35'9" to 38'0"	36	
	19		"					
37	19		"				37	
	19		"					
38	CORE #	1	38'0"	to 48'0"		Limestone, fossiferous some corals, some brachiopods, core is in 7 pieces. Some secondary mineralization (calcite) some chert nodules	38	
	C1	"	"	"	"			
39	C1	"	"	"	"			
	C1	"	"	"	"			
40	C1	"	"	"	"	40.4 fracture		
	C1	"	"	"	"			
41	C1	"	"	"	"	41.45 fracture		
	C1	"	"	"	"			
42								

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BORING NUMBER: 7D

Log of Boring

Project Pfohl Bros. Location S/S Pfohl Road Job. No 897-12-RC-WELL

Date Drilled 6/23/89 - 6/27/89 Drilling Co. Rochester Drilling Company

Total Depth 58' 0" Method Used 6'/4" Auger/NX Core/3 7/8" Tricone Bit

Inspector C. Wenzel Organic Vapor Instruments Used HNu Water Table Depth ≅ 5'6"

Depth (feet)	Samp No.	Blows per 6" 140 lbs.	Sample Interval	Adv./ Recov.	Org. Vap. - PPM	Sample Description	Strata Change	Remarks (Time of Day)
	C1	"	"	"	"			
	C1	"	"	"	"			
43	C1	"	"	"	"			
	C1	"	"	"	"	43.65 fracture 43.80 fracture		
44	C1	"	"	"	"			
	C1	"	"	"	"			
45	C1	"	"	"	"			
	C1	"	"	"	"			
	C1	"	"	"	"			
46	C1	"	"	"	"	46.25 fracture		
	C1	"	"	"	"			
47	C1	"	"	"	"			
	C1	"	"	"	"			
48	C2	CORE 48'0" to 58'0"						
49	C2	"	"	"	"			

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BORING NUMBER: 7D

Log of Boring

Project Pfohl Bros. Location S/s Pfohl Road Job. No 897-12-RC-WELL

Date Drilled 6/23/89 - 6/27/89 Drilling Co. Rochester Drilling Company

Total Depth 58' 0" Method Used 6¼" Auger/NxCore/5⅞" Tricone Bit

Inspector C. Wenczel Organic Vapor Instruments Used HNu Water Table Depth ≅ 5'6"

Depth (feet)	Samp No.	Blows per 6" 142 lbs.	Sample Interval	Adv./ Recov.	Org. Vap. - PPM	Sample Description	Strata Change	Remarks (Time of Day)
50	C2	"	"	"	"			
	C2	"	"	"	"			
	C2	"	"	"	"	50.4 break		
51	C2	"	"	"	"			
	C2	"	"	"	"	51.3 break 51.5 break 51.7 break		
52	C2	"	"	"	"			
	C2	"	"	"	"	52.1 break		
53	C2	"	"	"	"	52.8 break		
	C2	"	"	"	"	53.3 fracture 53.6 break		
54	C2	"	"	"	"			
	C2	"	"	"	"			
55	C2	"	"	"	"			
	C2	"	"	"	"	55.1 break		
56	C2	"	"	"	"			

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BORING NUMBER: 7D

Log of Boring

Project Pfohl Bros. Location S/S Pfohl Road Job. No 897-12-RC-WELL

Date Drilled 6/23/89-6/27/89 Drilling Co. Rochester Drilling Company

Total Depth 58' 0" Method Used 6 1/4" Auger/Mix Core/3 7/8" Tricone Bit

Inspector C. Wenzel Organic Vapor Instruments Used HNu Water Table Depth ≈ 5' 6"

Depth (feet)	Samp No.	Blows per 6" 140 lbs.	Sample Interval	Adv./ Recov.	Org. Vap. - PPM	Sample Description	Strata Change	Remarks (Time of Day)
57						56.1 break 56.3 break 56.6 break	57	
58						End of Core 58' 0"	58	

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G.S. Elev. 692.77

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BORING NUMBER: 85

Log of Boring

Project Pfohl Bros. Location S/s Throughway Int. Job. No 897-12-RC-WELL

Date Drilled 7/10/89 Drilling Co. Rochester Drilling Company

Total Depth 12'3" Method Used 6¼" Auger

Inspector C. Wencel Organic Vapor Instruments Used HNu Water Table Depth ≅ 6'0"

Depth (feet)	Samp No.	Blows per 6" 140 lbs.	Sample Interval	Adv./ Recov.	Org. Vap. - PPM	Sample Description	Strata Change	Remarks (Time of Day)
1	1	3	0'0" to 2'0"	24"/16"	Bkd	4" Organic Soil, roots grey to black		1100 85°F
	1	2	"	"	"	6" SILT; trace very fine sand; orange grey to yellow		
	1	1	"	"	"	6" SAND, medium; some fine; trace silt; little very fine sand; brown		
2	1	2	"	"	"	2" Clay; pink to yellow	2	
	2	1	2'0" to 4'0"	24"/20"	"	20" CLAY; pink; some silt; orange to brown to red.		
3	2	5	"	"	"		3	
	2	8	"	"	"			
4	2	14	"	"	"		4	
	3	8	4'0" to 6'0"	24"/24"	"	24" CLAY; pink to yellow orange; some silt.		1135
5	3	13	"	"	"		5	
	3	20	"	"	"			
6	3	19	"	"	"		6	▼
	4	5	6'0" to 8'0"	24"/22"	"	22" SILT, brown to red to orange; little clay; some very fine sand wet		1256
7	4	10	"	"	"		7	

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BORING NUMBER: 8S
Page 2 of 2

Log of Boring

Project Pfohl Bros. Location S/S Thruway Inter. Job. No 847-12-RC-WELL
Date Drilled 7/10/89 Drilling Co. Rochester Drilling Company
Total Depth 12' 3" Method Used 6 1/4" Auger
Inspector C. Wenzel Organic Vapor Instruments Used HNu Water Table Depth ≐6'0"

Depth (feet)	Samp No.	Blows per 6" 140 lbs.	Sample Interval	Adv./ Recov.	Org. Vap. - PPM	Sample Description	Strata Change	Remarks (Time of Day)
8	4	13	6'0" to 8'0"	24"/22"	Bkd			
	4	14	"	"	"			
	5	10	8'0" to 10'0"	24"/24"	"	24" SILT; some very fine sand; pink to brown wet.		
9	5	16	"	"	"			
	5	20	"	"	"			
	5	22	"	"	"			
10	6	7	10'0" to 12'0"	24"/24"	"	12" Laminated layers of SILT and FINE SAND pink to orange		1350
	6	9	"	"	"	12" CLAY, brownish red; ~~trace 1/4" to 1/2"~~ gravel (Till?)		
11	6	12	"	"	"			
	6	16	"	"	"			
12	7	3-R	12'0" to 14'0"		"	Rock at 12.2 feet		
	7		"		"			
13	7		"		"			
	7		"		"			
14								

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G.S. Geo. 697.8E

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BORING NUMBER: 95
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Log of Boring

Project Pfohl Bros. Location S/S Area C Job. No 897-12-RC-WELL
Date Drilled 7/13/89 Drilling Co. Rochester Drilling Company
Total Depth 13'6" Method Used 6 1/4" Auger
Inspector C. Wenczel Organic Vapor Instruments Used HNu Water Table Depth ≅ 4'0"

Depth (feet)	Samp. No.	Blows per 6" 140 lbs.	Sample Interval	Adv./ Recov.	Org. Vap. - PPM	Sample Description	Strata Change	Remarks (Time of Day)
0	1	7	0'0" to 2'0"	24"/8"	Bkd	8" Fill, coal ash sample dry		1330
	1	5	"	"	"			
1	1	9	"	"	"		1	
	1	8	"	"	"			
2	2	8	2'0" to 4'0"	24"/10"	"	10" Fill, coal ash sample damp	2	
	2	5	"	"	"			
3	2	3	"	"	"		3	
	2	2	"	"	"			
4	3	2	4'0" to 6'0"	24"/2"	"	2" SAND, medium, glass, black, lots of water	4	▼
	3	1	"	"	"			
5	3	20	"	"	"		5	
	3	87	"	"	"			
6	4	1	6'0" to 8'0"	24"/24"	"	24" SAND, medium; some fine; little very fine; trace silt; black to grey.	6	
	4	9	"	"	"			
7							7	

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BORING NUMBER: 95
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Log of Boring

Project Pfohl Bros. Location S/s Area C Job. No 897-12-RC-WELL
Date Drilled 7/13/89 Drilling Co. Rochester Drilling Company
Total Depth 13'6" Method Used 6 1/4" Auger
Inspector C. Wenczel Organic Vapor Instruments Used HNu Water Table Depth ≅ 4'6"

Depth (feet)	Samp No.	Blows per 6" 140 lbs.	Sample Interval	Adv./ Recov.	Org. Vap. - PPM	Sample Description	Strata Change	Remarks (Time of Day)
	4	6	6'0" to 8'0"	24"/24"	Bkd			
	4	3	"	"	"			
8	5	1	8'0" to 10'0"	24"/20"	"	10" SAND, medium; some fine; little course; trace very fine.		
	5	5	"	"	"	10" Till, 1" gravel, red to pink clay;		
9	5	12	"	"	"			
	5	26	"	"	"			
10	6	9	10'0" to 12'0"	24"/24"	"	24" SAND, medium; some fine; trace silt; grey; saturated		
	6	19	"	"	"			
11	6	23	"	"	"			
	6	44	"	"	"			
12	7	18	12'0" to 14'0"	18"/18"	"	18" Till, 1" gravel red to pink clay some medium sand on top		1445
	7	57	"	"	"			
13	7	R	"	"	"	Rock at 13'6"		
	7							

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U.S. 2100.648.04

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BORING NUMBER: 105

Log of Boring

Project Pfohl Bros. Location W/s of Area C Job. No 897-12-RC-WELL

Date Drilled 7/12/89 Drilling Co. Rochester Drilling Company

Total Depth 15'0" Method Used 6"/4" Auger

Inspector C. Wenczel Organic Vapor Instruments Used HNu Water Table Depth ≧ 6'0"

Depth (feet)	Samp No.	Blows per 6" 140 lbs.	Sample Interval	Adv./ Recov.	Org. Vap. - PPM	Sample Description	Strata Change	Remarks (Time of Day)
1	1	11	0'0" to 2'0"	24"/10"	Bkd	Fill: SAND, medium; some 1" gravel; little silt; trace very fine sand; damp		1245
	1	8	"	"	"			
	1	9	"	"	"			
2	1	6	"	"	"			
	2	4	2'0" to 4'0"	24"/4"	4	Fill: SAND, medium; some 1" gravel; little silt; trace very fine sand; damp		
3	2	5	"	"	"			
	2	7	"	"	"			
	2	9	"	"	"			
4	3	6	4'0" to 6'0"	24"/6"	"	Fill: Cement, rusted metal, some black organic mater. Bottom of sample is saturated at 6'0".		
	3	4	"	"	"			
5	3	5	"	"	"			
	3	9	"	"	"			
6	4	1	6'0" to 8'0"	24"/10"	"	4" Concrete; decayed 6" SILT; organic; some roots; black; saturated		▼ Native Soil Horizon
	4	2	"	"	"			
7								

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BORING NUMBER: 105
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Log of Boring

Project Pfohl Bros. Location W/s of Area C Job. No 897-12-RC-WELL
Date Drilled 7/12/89 Drilling Co. Rochester Drilling Company
Total Depth 15'0" Method Used 6 1/4" Auger
Inspector C. Wenzel Organic Vapor Instruments Used HNu Water Table Depth ≐ 5'6"

Depth (feet)	Samp No.	Blows per 6" 140 lbs.	Sample Interval	Adv./ Recov.	Org. Vap. - PPM	Sample Description	Strata Change	Remarks (Time of Day)
	4	1	6'0" to 8'0"	24"/10"	"			
	4	1	"	"	"			
8	5	2	8'0" to 10'0"	24"/12"	"	4" SILT, organic; little very fine sand; black wet		
	5	5	"	"	"	4" SAND, medium; some coarse, little fine; trace very fine; trace silt; grey to brown		
9	5	7	"	"	"			
	5	11	"	"	"	4" CLAY; pink to reddish orange.		
10	6	4	10'0" to 12'0"	24"/14"	"	14" SILT & CLAY layers. Lamenations 1/8" to 1/4" thick; pink to reddish brown; damp to wet		
	6	6	"	"	"			
11	6	15	"	"	"			
	6	12	"	"	"			
12	7	6	12'0" to 14'0"	24"/20"	"	15" SILT, pink to red brown		
	7	12	"	"	"	5" Till, silt and clay; some 1/2" to 1" gravel		
13	7	31	"	"	"	SS #8 24"/14" 8-30-R Till as above		
	7	37	"	"	"	Rock at 15'0"		1535
14								

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U.S. Geo. 679.67

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BORING NUMBER: 115

Log of Boring

Project Pfohl Bros. Location W/s of Area B Job. No 899-12-RC-WELL

Date Drilled 7/11/89 Drilling Co. Rochester Drilling Company

Total Depth 15'10" Method Used 6¼" Auger

Inspector C. Denczel Organic Vapor Instruments Used HNu Water Table Depth ≅ 6'0"

Depth (feet)	Samp. No.	Blows per 6" 140 lbs.	Sample Interval	Adv./ Recov.	Org. Vap. - PPM	Sample Description	Strata Change	Remarks (Time of Day)
	1	1	0'0" to 2'0"	24"/16"	Bkd	10" SILT, organic, black; some roots		1145
	1	2	"	"	"	6" SAND, very fine; some fine sand; trace silt; damp		
1	1	3	"	"	"			
	1	2	"	"	"			
2	2	3	2'0" to 4'0"	24"/18"	"	SILT; trace fine sand; grey to brown.		
	2	2	"	"	"	8" SAND, medium; some fine; little very fine; trace silt; wet		
3	2	4	"	"	"			
	2	14	"	"	"			
4	3	9	4'0" to 6'0"	24"/24"	"	24" SILT, pink to red/brown damp; very tight		
	3	13	"	"	"			
5	3	22	"	"	"			
	3	35	"	"	"			
6	4	13	6'0" to 8'0"	24"/24"	"	24" CLAY, pink to brown; some silt; tight damp to wet.		
	4	18	"	"	"			

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BORING NUMBER: 11S

Log of Boring

Project Pfohl Bros. Location W/S Area B Job. No. 897-12-RC-WELL

Date Drilled 7/11/89 Drilling Co. Rochester Drilling Company

Total Depth 15'10" Method Used 6¼" Auger

Inspector C. Denzel Organic Vapor Instruments Used HNu Water Table Depth ≅ 6'0"

Depth (feet)	Samp No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. - PPM	Sample Description	Strata Change	Remarks (Time of Day)
	4	23	6'0" to 8'0"	24"/24"	Bkd			
	4	31	"	"	"			
8	5	9	8'0" to 10'0"	24"/24"	"	24" CLAY, pink to red/brown; some silt plastic; damp to wet.	8	
	5	10	"	"	"			
9	5	22	"	"	"		9	
	5	28	"	"	"			
10	6	12	10'0" to 12'0"	24"/24"	"	24" CLAY; pink to red brown; some silt; plastic; damp to wet.	10	1330
	6	16	"	"	"			
11	6	16	"	"	"		11	
	6	15	"	"	"			
12	7	4	12'0" to 14'0"			24" CLAY; pink to red brown; some silt; plastic; damp to wet	12	
	7	4	"					
13	7	9	"				13	
	7	14	"					
14							14	

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BORING NUMBER: 115

Log of Boring

Project Pfohl Bros. Location W/s Area B Job. No 897-12-RC-WELL
Date Drilled 7/11/89 Drilling Co. Rochester Drilling Company
Total Depth 15'10" Method Used 6 1/4" Auger
Inspector C. Wenczel Organic Vapor Instruments Used HNu Water Table Depth ≥6'0"

Depth (feet)	Samp. No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. - PPM	Sample Description	Strata Change	Remarks (Time of Day)
14	S	3	14'0" to 16'0"	28"/18"	Bkd	18" Till, clay; silty; 1" gravel.		
	S	25	"	"	"			
15	S	32	"	"	"		15	
	S	R	"	"	"	Rock at 15'10"	16	1425

NY-1

G.S. Elev. 700.3?

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BORING NUMBER: 125

Log of Boring

Project Pfohl Bros. Location Area A Job. No 897-12-RC-WELL

Date Drilled 7/6/89 Drilling Co. Rochester Drilling Company

Total Depth 15' 3" Method Used 6¼" Auger

Inspector C. Wenczel Organic Vapor Instruments Used HNu Water Table Depth ≅ 8'0"

Depth (feet)	Samp No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. - PPM	Sample Description	Strata Change	Remarks (Time of Day)
1	1	23	0'0" to 2'0"	24"/18"	Bkd	18" Gravel; typical crusher run for driveway.		
	1	29	"	"	"			
	1	31	"	"	"			
	1	30	"	"	"			
2	2	18	2'0" to 4'0"	24"/20"	"	20" Gravel; typical crusher run for driveway 1" gravel, some medium sand; some silt.		
	2	21	"	"	"			
3	2	38	"	"	"			
	2	51	"	"	"			
4	3	11	4'0" to 6'0"	24"/18"	"	10" Gravel; typical crusher run for driveway.		
	3	7	"	"	"	8" SAND; very fine; some silt; little medium sand, trace ¼" rounded gravel		
5	3	4	"	"	"			native soil.
	3	4	"	"	"			
6	4	30	6'0" to 8'0"	24"/5"	"	5" Stone and sand stuck in the driveshoe.		1000 83°F
7	4	43	"	"	"			

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BORING NUMBER: 125
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Log of Boring

Project Pfenl Bros. Location Area A Job. No 847-12-RC-WELL
Date Drilled 7/6/89 Drilling Co. Rochester Drilling Company
Total Depth 15'3" Method Used 6 1/4" Auger
Inspector C. Wencrel Organic Vapor Instruments Used HNu Water Table Depth ≙ 8'0"

Depth (feet)	Samp No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. - PPM	Sample Description	Strata Change	Remarks (Time of Day)
	4	4	6'0" to 8'0"	24"/5"	BKd			
	4	6	"	"	"			
8	5	1	8'0" to 10'0"	24"/16"	"	3" SAND, fine; some silt; trace 1/8" gravel; brown to black.		
	5	1	"	"	"	3" organic swamp deposit some silt; black		
9	5	4	"	"	"	5" SILT, trace very fine sand; grey to black		
	5	10	"	"	"	5" CLAY, pink to brown; little very fine sand;		
10	6	8	10'0" to 12'0"	24"/24"	"	6" SAND, very fine; some silt; black, organic.		
	6	9	"	"	"	18" SILT, red to orange some streaks of grey damp		
11	6	10	"	"	"			
	6	14	"	"	"			
12	7	6	12'0" to 14'0"	24"/24	"	6" SAND, very fine; some silt.		
	7	12	"	"	"	18" SILT, orange to pink to red; some grey laminations. Trace		
13	7	19	"	"	"			
	7	25	"	"	"			
14								

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BORING NUMBER: 125
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Log of Boring

Project Pfohl Bros. Location Area A Job. No 897-12-RL-WELL
Date Drilled 7/6/89 Drilling Co. Rochester Drilling Company
Total Depth 15'3" Method Used 6 1/4" Auger
Inspector R. Wenczel Organic Vapor Instruments Used HNu Water Table Depth ≙ 8'0"

Depth (feet)	Samp. No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. - PPM	Sample Description	Strata Change	Remarks (Time of Day)
	8	6	14'0" to 16'0"	24"/24"	Bkd	6" SAND, very fine; some silt. wet		
	8	10	"	"	"	18" SILT, orange to pink to red, some grey laminations trace 1/4" rounded gravel (TILL)		
15	8	14	"	"	"	Rock 15'3"	15	
	8	R	"	"	"			
16							16	

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BORING NUMBER: 13-S

Log of Boring

Project Pfohl Bros Location 26+50 15'E 825N Job. No 897-12-RC-WELL

Date Drilled 11/30/89 Drilling Co. Rochester Drilling Co.

Total Depth 26' Method Used 6 1/4" Auger

Inspector T. Ryan Organic Vapor Instruments Used OVA / HNu Water Table Depth 9'

Depth (feet)	Samp No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. PPM	Sample Description	Strata Change	Remarks (Time of Day)
0								
	NS		NS		OVA@ background	Auger to 5'		0800
5	NS		NS		OVA in hole = 65 ppm, HNu @ background	Auger to 10'	Fill	
10	NS		NS			Auger to 12'		Water @ 9'±
12'	1	3	12'/14'	2'/.1'		Fill material Black fine sand w/ some silt 2½" yellow colored chunks		0830
13'	1	1					Silty sand	
	1	1						
14'	1	6						
	2	5	14'/16'	2'/1.4'	OVA on cuttings = 10 @ background in breathing zone, 200-250 in hole. HNu @ background	Stiff brown clay	Clay	
15	2	10						
	2	15						
16	2	22						

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BORING NUMBER: 13-S

Log of Boring

Depth (feet)	Samp. No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. (PPM)	Sample Description	Strata Change	Remarks (Time of Day)
16	3	31	16'/18'	2'/.7'	OVA = 400 in hole, HNO@ background	Stiff brown clay		0900
	3	32						
17	3	50						
	3	45						
18	4	15	18'/20'	2'/1.7'	OVA = 200 in hole, HNO@ background	Stiff brown clay		
	4	22						
19	4	23						
	4	31						
20	5	15	20'/22'	2'/1.3'		Very moist brown clay. Elastic & silty	CL	
	5	20						
21	5	22						
	5	26						
22	6	6	22'/24'	2'/1.7'		Brown clay, varying stiff and elastic.		
	6	7						
23	6	11						
	6	14						
24								

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BORING NUMBER: 13-S

Log of Boring

Depth (feet)	Samp. No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. (PPM)	Sample Description	Strata Change	Remarks (Time of Day)
24	7		24'/26'	2'/.3'	OVA = 50-60 in hole	Brown clay, mostly elastic, some stiff	Clay	
	7							
25	7							
	7							
26						BEDROCK		

NY-2

G.S. Elev. 700.51

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BORING NUMBER: 14-S

Log of Boring

Project Pfohl Bros Location _____ Job. No 897-12-RC-WELL

Date Drilled 12/4/89 - 12/5/89 Drilling Co. Rochester Drilling Co.

Total Depth 23' 9" Method Used 6 1/4" Augers

Inspector B. Alter Organic Vapor Instruments Used OVA / HNu Water Table Depth 6.5'

Depth (feet)	Samp No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. - PPM	Sample Description	Strata Change	Remarks (Time of Day)
					b.z. = breathing zone b.g. = background			
0	1	1	0'/2'	2'/.9'	OVA=0 on sample,	Brown silty topsoil		1510
	1	2	↓	↓	in b.z.			Ground is very hard
1	1	3	↓	↓	↓			
	1	3	↓	↓	↓	Last .1' is fill		
2	2	1	2'/4'	2'/.1'		Fill - dry. Glass, wood, soil.		
	2	1	↓	↓				
3	2	2	↓	↓				
	2	1	↓	↓				
4	3	1	4'/6'	2*/.3'	OVA=0 in hole,	Fill - dark brown, silty material		1520
	3	3	↓	↓	0 in b.z.	Hit something hard or stretchy at 5.5'		
5	3	3	↓	↓	↓			
	3	14	↓	↓	↓			
6	4	4	6'/8'	2'/.4'	OVA=0 in hole,	Fill: stained wood in spoon		1530
	4	4	↓	↓	0 in b.z.			
7								

NY-1

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BORING NUMBER: 14-S

Log of Boring

Depth (feet)	Samp. No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. (PPM)	Sample Description	Strata Change	Remarks (Time of Day)
7	4	3	6'/8'	2'/.4'				
	4	3	↓	↓	↓			
8	5	5	8'/10'	0	OVA = 550 in hole, b.g. in b.z. HNU@	Large piece of wood in spoon.		1540
	5	1						
9	5	2			b.g. in hole,			
	5	3	↓	↓	b.z. ↓		Fill	
10	6	5	10'/12'	2'/0	OVA = 20 in	No recovery		1550
	6	3			hole, b.g. in b.z.			
11	6	8						
	6	20	↓	↓	↓			
12	7	6	12'/14'	2'/.3'	OVA = 10 in	Top .2' wood + fill		1605
	7	16			hole, b.g. in			
13	7	19			b.z.			
	7	20	↓	↓	↓	Bottom .1' brown clayey silt	Clayey Silt	
14	8	16	14'/16'	2'/1.4'	OVA=68 in hole,	Top .9' brown clayey silt		OVA @ b.g. oversample
	8	30	↓	↓	b.g. in b.z.			
15								

NY-2

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BORING NUMBER: 14-S

Log of Boring

Depth (feet)	Samp. No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. (PPM)	Sample Description	Strata Change	Remarks (Time of Day)
15	8	24	14'/16'	2'/1.4'	HNU@ b.g. in	Bottom .5' Very stiff brown clay		OVA @ b.g. oversample
	8	24	↓	↓	hole ↓			
16	9	12	16'/18'	2'/1.6'	OVA @ b.g. in	Reddish-brown clay, very stiff, silty	Brown Clay	1630
	9	12			hole, b.z.,			
17	9	36			sample			Spoon stuck in hole
	9	29	↓	↓	↓			
18	10	6	18'/20'	2'/1.7'	OVA = 1 in	Very silty brown clay, elastic		1650 Sun set
	10	8			hole, b.g. in			
19	10	8			b.z.			
	10	11	↓	↓	↓			
20	11	9	20'/22'	2'/1.2'	OVA = 1 in	Very stiff, dark gray clay		1700 Water running out of spoon
	11	20			hole, b.g. in			
21	11	20			b.z., Sample			May be till, but no large particles detected
	11	22	↓	↓	↓			
22	12		22'/23.8'	2'/1.8'	OVA = 34 in	Dark gray clay without elastic component. Fairly stiff	Gray Clay	12/5/89 0815
23	12	2	↓	↓	hole HNU@			

NY-2

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BORING NUMBER: 14-S

Log of Boring

Depth (feet)	Samp. No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. (PPM)	Sample Description	Strata Change	Remarks (Time of Day)
23	12		22'/20.8	2'/1.8'	b.g. in hole	Dark gray clay without clastic component. Fairly stiff	Gray Clay	
	12		↓	↓	↓			
24						BEDROCK		

NY-2

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BORING NUMBER: 15-S

Log of Boring

Project Pfohl Bros Location _____ Job. No 897-12-RC-WELL

Date Drilled 12/1/89 Drilling Co. Rochester Drilling Co.

Total Depth 13.5' Method Used 6 1/4" Auger

Inspector T. Ryan Organic Vapor Instruments Used OVA/HNU Water Table Depth 6'

Depth (feet)	Samp No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. - PPM	Sample Description	Strata Change	Remarks (Time of Day)
0	1	2	0'/2'	2'/.1'		Silty organic material		0915
1	1	1	↓	↓				
	1	2						
	1	2	↓	↓				
2	2	2	2'/4'	2'/.4'		Topsoil with glass, trash		
	2	2	↓	↓			Fill	
3	2	3						
	2	3	↓	↓				
4	3	3	4'/6'	2'/.6'		4.0'-4.2' Fill material		
	3	2	↓	↓				
5	3	3				Brown clayey silt		
	3	4	↓	↓				
6	4	3	6'/8'	2'/.2'		Silty fill with wood and hard plastic		Wet spoon
7	4	3	↓	↓				

NY-1

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BORING NUMBER: 15-S

Log of Boring

Depth (feet)	Samp. No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. (PPM)	Sample Description	Strata Change	Remarks (Time of Day)
7	4	4	6'/8'	2'/.2'		Top 0.2' brown clay		
	4	4	↓	↓				
8	5	3	8'/10'	2'/.7'	OVA= 1000 ppm @ hole, HNu @			
	5	4						
9	5	6			background			
	5	6	↓	↓	↓			
10	6	2	10'/12'	2'/.4'	OVA = 1000 @	wet brown clay; very silty		
	6	3			hole, HNu @			
11	6	2			background			
	6	4	↓	↓	↓			
12	7	11	12'/13.5'	1.5'/0'				
	7	21						
13	7	30	↓	↓		Piece of rock in spoon tip		
						BEDROCK		

NY-2

GS Elev. 677.77

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BORING NUMBER: 16-S
Page 1 of 2

Log of Boring

Project Pfohl Bros Location _____ Job. No 897-12-RC WELL

Date Drilled 11/29/89 Drilling Co. Rochester Drilling Co.

Total Depth 16' 10" Method Used 6¼" Auger

Inspector T. Ryan Organic Vapor Instruments Used OVA / HNU Water Table Depth 12'

Depth (feet)	Samp No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. PPM	Sample Description	Strata Change	Remarks (Time of Day)
0								
	NS		NS		OVA @ background	Augered to 5'		0830
	↓		↓		@ 5'	Fill material with silty top soil		Auger is dry
5	NS		NS		OVA = 60-70 ppm in hole,	Augered to 10'		0850
	↓		↓		HNU @ background			Auger is dry
10	NS		NS			Augered to 12'		Auger is dry
	↓		↓					
12	1	14	12'/14'	1.1'/2'		Brown silty sand	Silty sand	Wet spoon
	1	27						
13	1	18						
	1	20	↓	↓				
14	2	14	14'/16'	1.5'/2'	OVA = 100-150 ppm in hole,	Hard, dark brown stiff clay		0920
	2	20						
15	2	30			HNU @ background		Clay	
	2	30	↓	↓	↓			
16								

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BORING NUMBER: 16-S

Log of Boring

Depth (feet)	Samp. No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. (PPM)	Sample Description	Strata Change	Remarks (Time of Day)
16								
	3	10	16'/17.3'	1.3'/2'		16.0'-16.3' Brown clay	C/S	1000
	3	13	↓	↓		Grey brown clay		
17	3	20/4"	↓	↓		Bottom is till	Till	
						BEDROCK		

NY-2

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BORING NUMBER: 17-S
Page 1 of 3

Log of Boring

Project Pfohl Bros. Location _____ Job. No 897-12-RC-~~Field~~ WELL

Date Drilled 11/27/89 Drilling Co. Rochester Drilling Co.

Total Depth 22.6' Method Used 6¼" hollow stem auger

Inspector T. Ryan Organic Vapor Instruments Used OVA / HNu Water Table Depth 2'

Depth (feet)	Samp No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. - PPM	Sample Description	Strata Change	Remarks (Time of Day)
0								
1	1	2	0'/2'	.7'/2'		to black Dark brown top soil. Silty. Cover for Fill		1200
	1	2	↓	↓				
	1	2						
2	1	2						
	2	2	2'/4'	0		Black organic material with glass in tip. Very silty.		Wet Spoon
	2	5	↓	↓				
3	2	2						
	2	3						
4	3	1	4'/6'	0	OVA = 300 in hole,	Black clayey silt in tip. Bits of newspaper with oily sheen.		
	3	1	↓	↓	HNu @ background			
5	3	1			↓			
	3	1						
6	4	1	6'/8'	.3'/2'	OVA = 1000 in hole,	Very fine sand with glass and newspaper. Bottommost part is silty		1300
	4	1	↓	↓	HNu @ background			
7								

NY-1

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BORING NUMBER: 17-S

Log of Boring

Depth (feet)	Samp. No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. (PPM)	Sample Description	Strata Change	Remarks (Time of Day)
7								
	4	1	6'/8'	.3'/2'				V
	4	14	↓	↓	↓	Bottommost part is silty.	Silty sand	
8	5	10	8'/10'	1.2'/2'	OVA= 7ppm on black stain	Light brown silty sand. Black stained. 0.5'-0.8'		~~Possible~~ Analytical sample ? ✓
	5	20						
9	5	22						
	5	32				Clayey at bottom		
10	6	22	10'/12'	1.5'/2'		Very fine silty sand Black laminations @ 10.2', 10.9', 11.4', about .5" thick		1324
	6	32						
11	6	35						
	6	14	↓	↓				
12	7	7	12'/14'	1.9'/2'		12.0'-12.3' Clayey silt		1345
	7	9				12.3'-14.0' Silty clay with black laminations		
13	7	7						
	7	8	↓	↓		13.8'-14.0' w/small cobbles	Clay	
14	8	8	14'/16'	2'/2'	OVA = 400-500 in ~~blk~~	Brown clay w/small cobbles		
	8	8	↓	↓	HNU @ background			
15								

NY-2

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BORING NUMBER: 17-5

Log of Boring

Depth (feet)	Samp. No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. (PPM)	Sample Description	Strata Change	Remarks (Time of Day)
15								
	8	9	14'/16'	2'/2'		Brown clay very stiff on bottom.	C/E	
	8	18	↓	↓	↓			
16	9	11	16'/18'	0	OVA = 200 ppm in hole	Rock in spoon tip. Oily sheen in spots		
	9	21						
17	9	32						
	9	40	↓	↓	↓			
18	10		18'/20'	1.9'/2'		Stiff brown clay Black laminates		1440
	10							
19	10							
	10		↓	↓				
20	11		20'/22'	1.6'/2'		Silty clay with rock fragments.		1505
	11							
21	11							
	11		↓	↓		Piece of bedrock in tip of spoon.	C/E	
22	12	30	22'/22.7'	.6'/6'		Dark gray till		
	12	30/1"	↓	↓		BED ROCK		
23								

NY-2

Appendix D

Appendix D

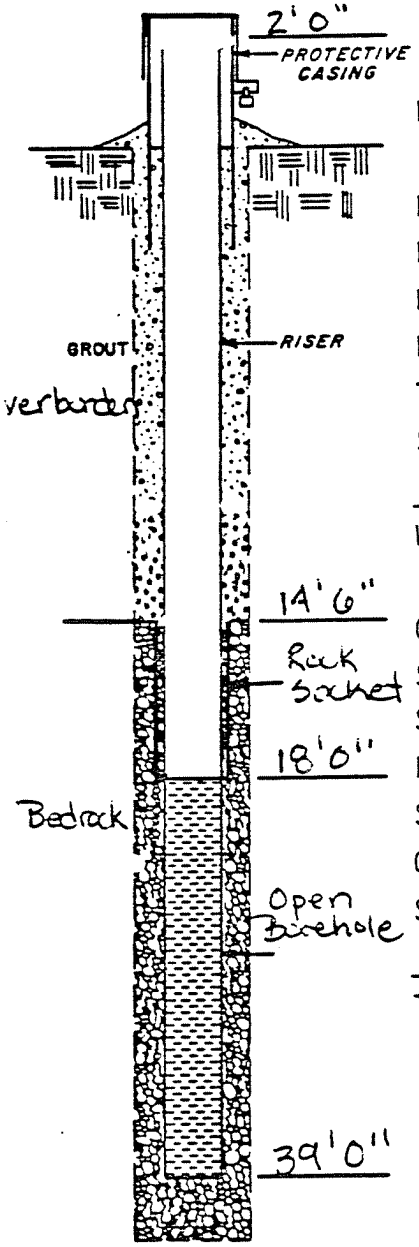
TOC: 696.05
TIC: 695.86

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WELL CONSTRUCTION SUMMARY

Project: Pfohl Bros. L.F. Client: NYSDEC Well No: 1D



DRILLING SUMMARY

Drilling Co: Rochester Drilling Co. Drillers: Dick Miller
Drill Rig Make/Model: Mobile B-61
Borehole Diameters: 6"Auger(8"), 4" rockbit Drilling Fluid: Water
Bits/Depths: Tricone Roller Bit-Bedrock(4") Auger-Overburden(6"
Total Depth: 39 feet 0" Depth to Water: 1'4"
Supervisory Geologist: Chris Wenczel

WELL DESIGN

Casing Material:	304 Stainless Steel	Diameter:	4" ID	Length:	20'0"
Screen Material:	NONE	Diameter:	—	Length:	—
Slot Size:	—	Setting:	—		
Filter Material:	—	Setting:	—		
Seals Material:	—	Setting:	—		
Grout:	Cement/bentonite	Setting:	Surface to 18'0"		
Surface Casing Material:	Black Steel	Setting:	2'1" AG - 2'-5" BG		

TIME LOG

	Started	Completed
Drilling:	10/12/88 0812	10/12/88 1132
Installation:	10/12/88 1300	10/14/88 1038
Development:	11/8/88 1400	11/8/88 1521

WELL DEVELOPMENT

Method: Airlift
Static Depth to Water:
Pumping Depth to Water:
Pumping Rate: Specific Capacity:
Volume Pumped: 385 gallons / 6 gpm

NY-5

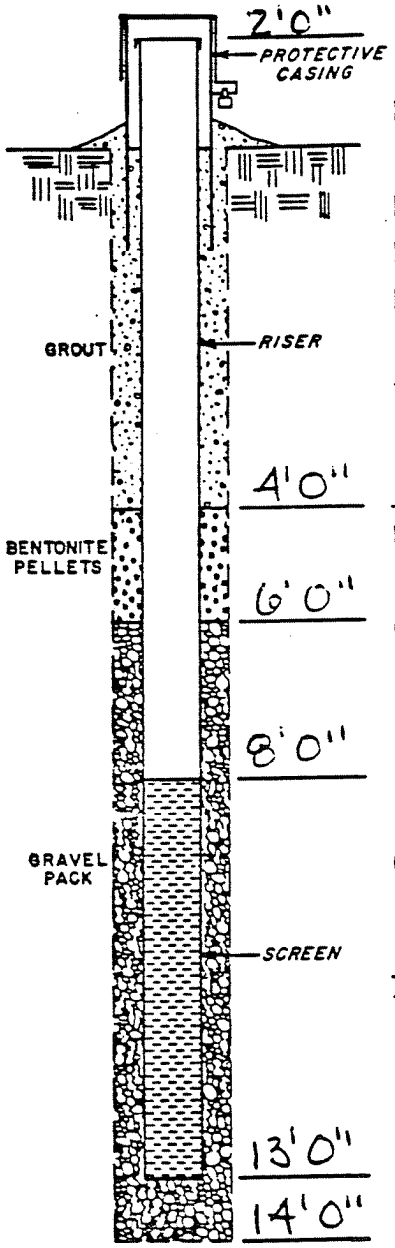
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TIC: 695.95

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WELL CONSTRUCTION SUMMARY

Project: Pfohl Bros. L.F Client: NYSDEC Well No: 1S



DRILLING SUMMARY

Drilling Co: Rochester Drilling Co. Drillers: Dick Miller
Drill Rig Make/Model: Mobile B-61
Borehole Diameters: 8"/6" Auger Drilling Fluid: None
Bits/Depths: 6" Auger
Total Depth: 14'0" Depth to Water: 1'0" BG (3'0" TOC)
Supervisory Geologist: Chris Wenczel

WELL DESIGN

Casing Material: 316 Stainless Diameter: 2" Length: 10'0"
Screen Material: 316 Stainless Steel Diameter: 2" Length: 5'0"
Slot Size: 0.010 inch Setting: 8'0" - 13'0"
Filter Material: Morie #1 equivalent Setting: 6'0" - 14'0"
Seals Material: Bentonite Pellets Setting: 4'0" - 6'0"
Grout: Cement/Bentonite Setting: Surface - 4'0"
Surface Casing Material: Black Steel Setting: 2'1" AG - 2'5" BG

TIME LOG	Started	Completed
Drilling:	10/17/88 820 AM	0915
Installation:	10/17/88 0925 AM	1400
Development:	10/10/88 1030	11/10/88

WELL DEVELOPMENT

Method: Bailer
Static Depth to Water: 5.83 TOC
Pumping Depth to Water: 9.64 TOC
Pumping Rate: 0.54 gpm Specific Capacity:
Volume Pumped: 10 gallons during purging
9.6°C at top; 12.3°C at bottom (temperature)

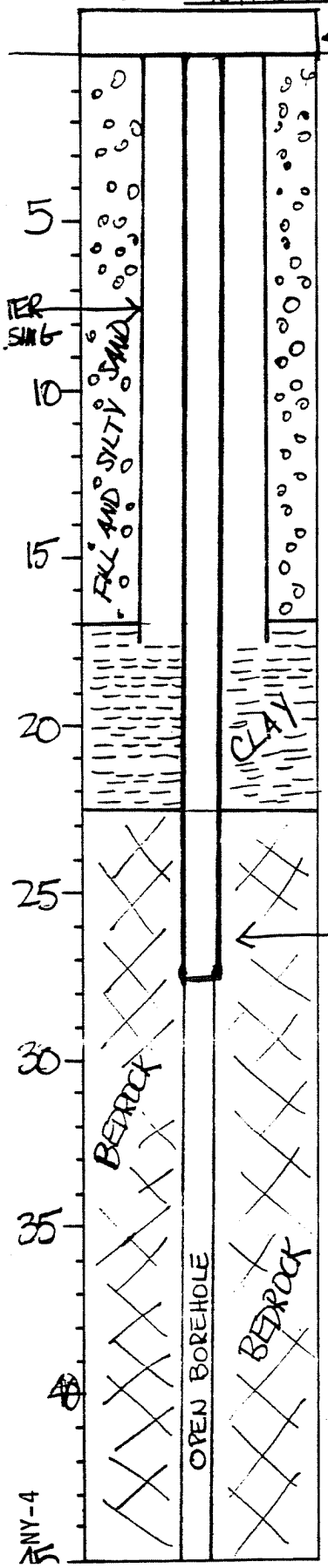
NY-5

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WELL CONSTRUCTION SUMMARY

Project: Pfohl Brothers Landfill Client: NYSDEC Well No: 2D



DRILLING SUMMARY

Drilling Co: Rochester Drilling Co. Drillers: Dick Miller

Drill Rig Make/Model: Mobile

Borehole Diameters: 6¼" Auger; 4" Tricone Drilling Fluid: WATER

Bits/Depths: 6½" Hollowstem Auger to 18'; 4" Tricone Roller Bit to 25'

Total Depth: 45 feet Depth to Water: 10.8 feet

Supervisory Geologist: Andrew Drumm

WELL DESIGN

Casing Material: 304 Stainless Steel Diameter: 4" ID Length:

Screen Material: NONE Diameter: — Length: —

Slot Size: — Setting: —

Filter Material: — Setting: —

Seals Material: — Setting: —

Grout: Cement/Bentonite/Water Setting:

Surface Casing Material: Blk Steel Setting:

TIME LOG	Started	Completed
Drilling:	12 DEC 89	19 DEC
Installation:	12 DEC 89	19 DEC 89
Development:	21 DEC 89	21 DEC 89

WELL DEVELOPMENT

Method: Centrifugal Pump

Static Depth to Water: 10.35 feet

Pumping Depth to Water:

Pumping Rate: 10 gpm Specific Capacity: 0.91

Volume Pumped:

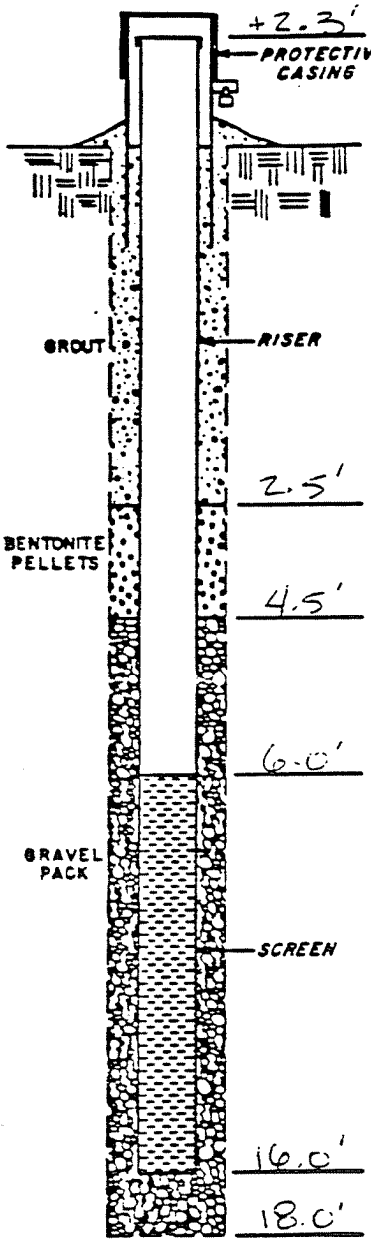
TOC: 701.11
TIC: 701.00

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WELL CONSTRUCTION SUMMARY

Project: Peak Bro's Landfill Client: NYSDEC Well No: MW-25



DRILLING SUMMARY

Drilling Co: Rochester Drilling Co. Drillers: Art Utter

Drill Rig Make/Model: Mobile D-53

Borehole Diameters: 10" Drilling Fluid: —

Bits/Depths: 6 1/4" Hollow Stem Augers

Total Depth: 22.6' Depth to Water:

Supervisory Geologist: Andrew Downie

WELL DESIGN

Casing Material: SIS Stainless Steel Diameter: 2" Length: 8.3'

Screen Material: Stainless Steel Diameter: 2" Length: 10'

Slot Size: 0.010" Setting: 6' - 16' bgl

Filter Material: Q-Rock #4 Morie #1 Equiv Setting: 4.5' - 18' bgl

Seals Material: Bentonite Pellets Setting: 2.5' - 4.5' bgl

Grout: Cement/Bentonite/Water Setting: Grade - 2.5' bgl

Surface Casing Material: Steel Setting: +2.5' - 2.5' bgl

TIME LOG	Started	Completed
Drilling:	12 11/6/89 0800	12 11/6/89 1020
Installation:	12 11/6/89 1030	12 11/6/89 1500
Development:		

WELL DEVELOPMENT

Method: Centrifugal Pump

Static Depth to Water:

Pumping Depth to Water:

Pumping Rate: Specific Capacity:

Volume Pumped:

NY-5

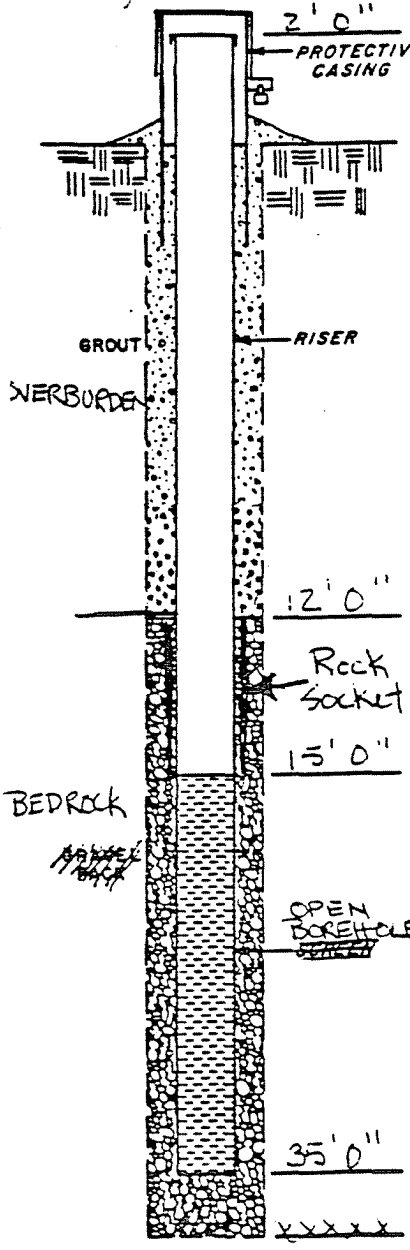
TOC: 693.31
TIC: 693.28

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WELL CONSTRUCTION SUMMARY

Project: Pfohl Bros. L.F. Client: NYSDEC Well No: 3D



DRILLING SUMMARY

Drilling Co: Rochester Drilling Co. Drillers: Dick Miller
Drill Rig Make/Model: Mobile B-61
Borehole Diameters: 8"/6" Auger, 4" Tricone Drilling Fluid: Water
Bits/Depths: Tricone Roller Bit (3 7/8"), 12'0" to 35'0"; Auger (6") surface to 12'
Total Depth: 35' 0" Depth to Water:
Supervisory Geologist: Chris Wenczel

WELL DESIGN

BEDROCK

Casing Material:	304 Stainless Steel	Diameter:	4" I.D.	Length:	17' 0"
Screen Material:	NONE	Diameter:	—	Length:	—
Slot Size:	—	Setting:	—	—	—
Filter Material:	—	Setting:	—	—	—
Seals Material:	—	Setting:	—	—	—
Grout:	Cement/Bentonite	Setting:	Surface to 15'0"		
Surface Casing Material:	Black Steel	Setting:	2'1" AG - 2'5" BG		

TIME LOG

	Started	Completed
Drilling:	10/31/88 1400	10/31/88 1630
Installation:	11/1/88 0905	11/3/88 1320
Development:	11/9/88 0830	11/9/88 1030

WELL DEVELOPMENT

Method: Airlift
Static Depth to Water:
Pumping Depth to Water:
Pumping Rate: Specific Capacity:
Volume Pumped: 1540 gallons

NY-5

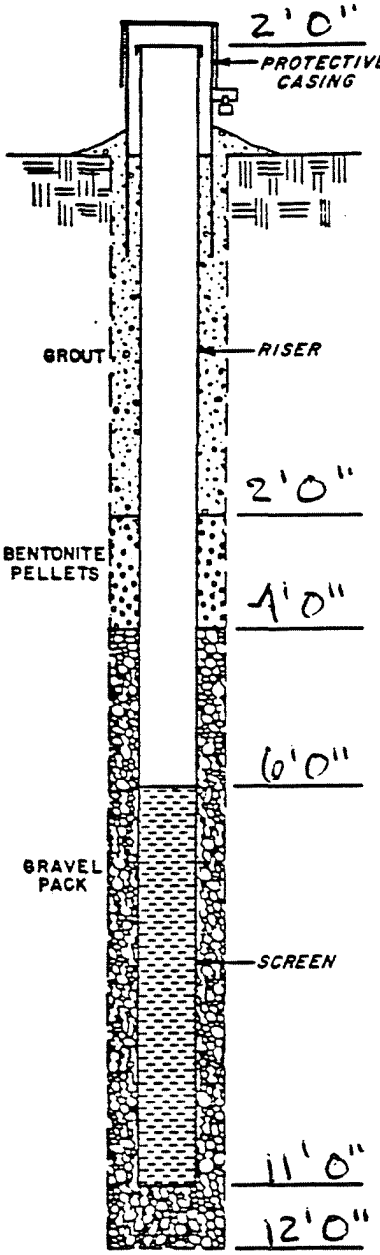
TOC: 693.32
TIC: 693.29

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WELL CONSTRUCTION SUMMARY

Project: Pfohl Bros. L.F. Client: NYSDEC Well No: 35



DRILLING SUMMARY

Drilling Co: Rochester Drilling Co. Drillers: Dick Miller
Drill Rig Make/Model: Mobile B-61
Borehole Diameters: 8" / 6" Augering Drilling Fluid: None
Bits/Depths: 6" Auger
Total Depth: 12'0" Depth to Water:
Supervisory Geologist: Chris Wenczel

WELL DESIGN

Casing Material: 316 Stainless Steel Diameter: 2" Length: 8'0"
Screen Material: 316 Stainless Steel Diameter: 2" Length: 5'0"
Slot Size: 0.010 inch Setting: 6'0" - 11'0"
Filter Material: Morie #1 equivalent Setting: 4'0" - 12'0"
Seals Material: Bentonite Pellets Setting: 2'0" - 4'0"
Grout: Cement/Bentonite Setting: Surface - 2'0"
Surface Casing Material: Black Steel Setting: 2'1" AG - 2'5" BG

TIME LOG

	Started	Completed
Drilling:	11/5/88 1403	11/3/88 1500
Installation:	11/3/88 1515	11/3/88 1600
Development:	11/9/88 1035	11/9/88 1253

WELL DEVELOPMENT

Method: Bailer
Static Depth to Water:
Pumping Depth to Water:
Pumping Rate: Specific Capacity:
Volume Pumped: 20 gallons

NY-5

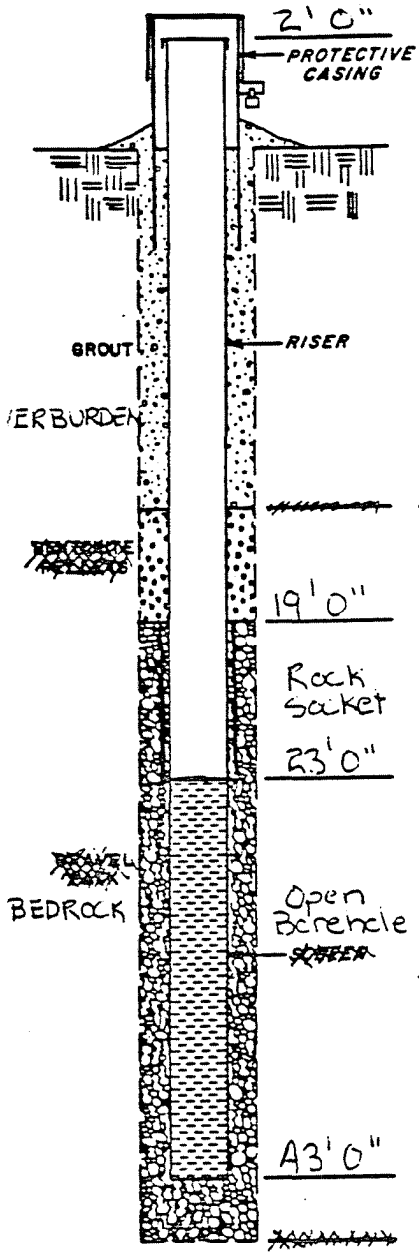
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TIC: 692.75

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WELL CONSTRUCTION SUMMARY

Project: Pfohl Bros. L.F. Client: NYSDEC Well No: 4D



DRILLING SUMMARY

Drilling Co: Rochester Drilling Co. Drillers: Dick Miller
Drill Rig Make/Model: Mobile B-61
Borehole Diameters: 8"/6" Auger, 4" Tricone Drilling Fluid: WATER
Bits/Depths: Tricone Roller Bit (3 7/8")
Total Depth: 43 feet 0 inches Depth to Water:
Supervisory Geologist: Chris Wenczel

WELL DESIGN

Casing Material: 304 Stainless Steel Diameter: 4" ID Length: 25'0"
Screen Material: NONE Diameter: — Length: —
Slot Size: — Setting: — — —
Filter Material: — Setting: — — —
Seals Material: — Setting: — — —
Grout: Cement/Bentonite Setting: — — —
Surface Casing Material: Black Steel Setting: 2'1" AG - 2'5" BG

TIME LOG	Started	Completed
Drilling:	10/19/88 0845	10/19/88 1115
Installation:	10/19/88 1315	10/20/88 1530
Development:	11/7/88 1135	11/7/88 1439

WELL DEVELOPMENT

Method: Airlift
Static Depth to Water:
Pumping Depth to Water:
Pumping Rate: Specific Capacity:
Volume Pumped: 110 gallons

NY-5

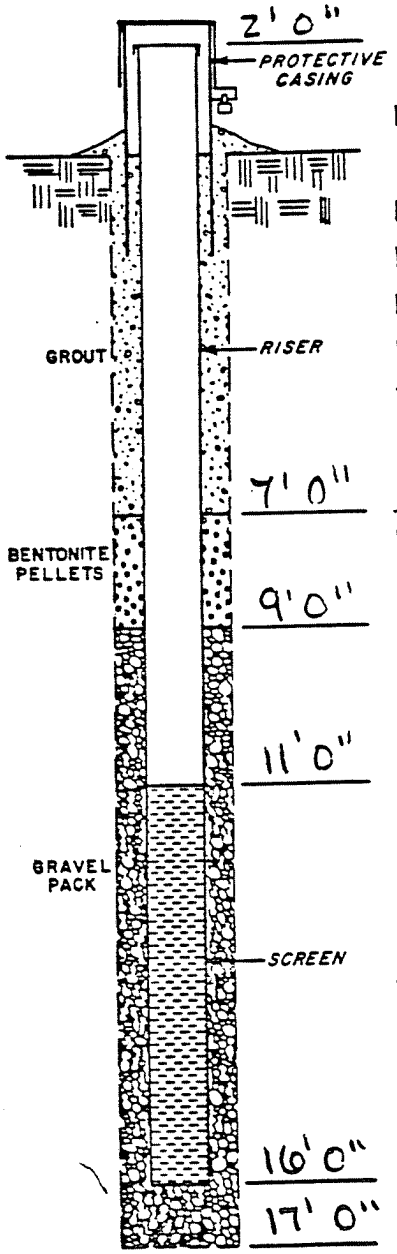
TOC: 692.76
TIC: 692.72

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WELL CONSTRUCTION SUMMARY

Project: Pfohl Bros. L.F. Client: NYSDEC Well No: 4S



DRILLING SUMMARY

Drilling Co: Rochester Drilling Co. Drillers: Dick Miller

Drill Rig Make/Model: Mobile B-61

Borehole Diameters: 8" / 6" Auger Drilling Fluid: None

Bits/Depths: 6" Auger

Total Depth: 17' 0" Depth to Water:

Supervisory Geologist: Chris Wenczel

WELL DESIGN

Casing Material: 316 Stainless Diameter: 2" Length: 13' 0"

Screen Material: 316 Stainless Diameter: 2" Length: 5'

Slot Size: 0.010 inch Setting: 11' 0" - 16' 0"

Filter Material: Morie #1 equivalent Setting: 9' 0" - 17' 0"

Seals Material: Bentonite Pellets Setting: 7' 0" - 9' 0"

Grout: Cement/Bentonite Setting: Surface - 7' 0"

Surface Casing Material: Black Steel Setting: 2' 1" AG - 2' 5" BG

TIME LOG	Started	Completed
Drilling:	10/21/88 0831 AM	10/21/88 0938 AM
Installation:	10/21/88 1026 AM	10/21/88 1249 PM
Development:	11/10/88 1030	11/10/88

WELL DEVELOPMENT

Method: Bailer

Static Depth to Water:

Pumping Depth to Water:

Pumping Rate: Specific Capacity:

Volume Pumped:

NY-5

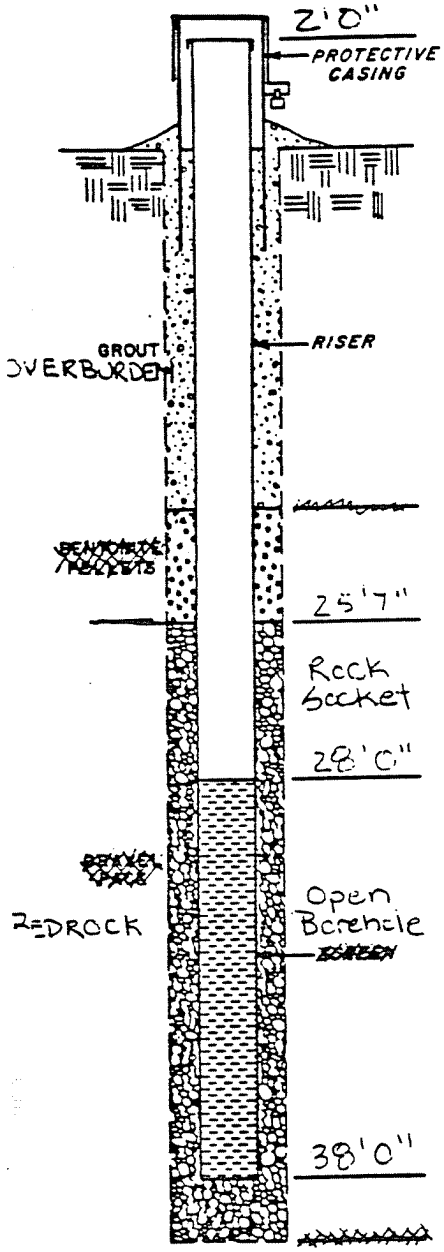
TOC: 696.09
TIC: 696.06

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WELL CONSTRUCTION SUMMARY

Project: Pfohl Bros. L.F. Client: NYSDEC Well No: 5D



DRILLING SUMMARY

Drilling Co: Rochester Drilling Co. Drillers: Dick Miller
Drill Rig Make/Model: Mobile B-61
Borehole Diameters: 8"/6" Auger, 4¼" tricone Drilling Fluid: WATER
Bits/Depths: Tricone Roller Bit (3⅞"), Auger - Overburden 6"
Total Depth: 38'-0" Depth to Water:
Supervisory Geologist: Chris WENCZEL

WELL DESIGN

Casing Material:	304 Stainless Steel	Diameter:	4" I.D.	Length:	30'0"
Screen Material:	NONE	Diameter:	—	Length:	—
Slot Size:	—	Setting:	—	—	—
Filter Material:	—	Setting:	—	—	—
Seals Material:	—	Setting:	—	—	—
Grout:	Cement/Bentonite	Setting:	surface - 28'0"		
Surface Casing Material:	Black Steel	Setting:	2'1" AG - 2'5" BG		

TIME LOG

	Started	Completed
Drilling:	10/24/88 1049	10/24/88 1540
Installation:	10/24/88 1635	10/25/88 1600
Development:	11/7/88 1512	11/8/88 1145

WELL DEVELOPMENT

Method: Airlift
Static Depth to Water:
Pumping Depth to Water:
Pumping Rate: Specific Capacity:
Volume Pumped: 2310 gallons

NY-5

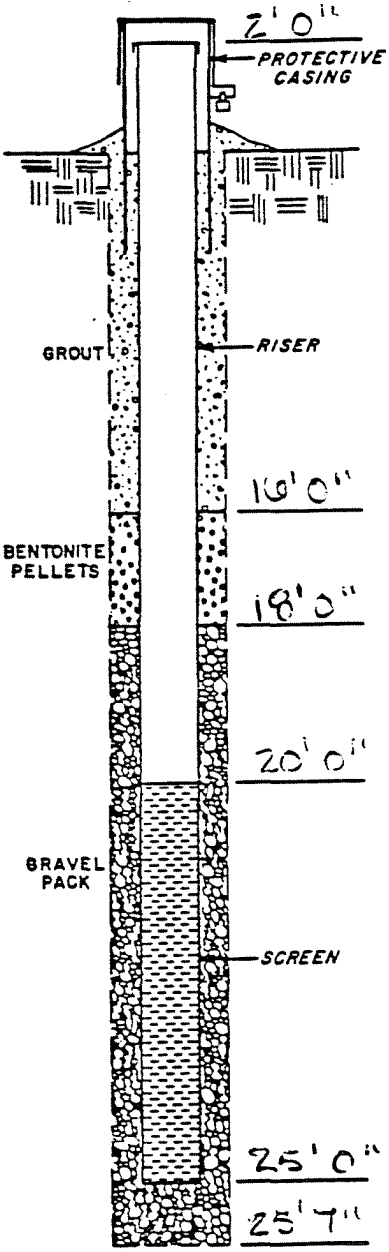
TOC: 696.25
TIC: 696.14

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WELL CONSTRUCTION SUMMARY

Project: Pfohl Bros L.F. Client: NYSDEC Well No: 55



DRILLING SUMMARY

Drilling Co: Rochester Drilling Co. Drillers: Dick Miller

Drill Rig Make/Model: Mobile B-61

Borehole Diameters: 8" / 6" Auger Drilling Fluid: None.

Bits/Depths: 6" Auger

Total Depth: 25'7" Depth to Water:

Supervisory Geologist: Chris Wenczel

WELL DESIGN

Casing Material: 316 Stainless Diameter: 2" Length: 21'0"

Screen Material: 316 Stainless Diameter: 2" Length: 5'0"

Slot Size: 0.010 inch Setting: 20'0" - 25'0"

Filter Material: Morie #1 Equiv. Setting: 18'0" - 25'7"

Seals Material: Bentonite Pellets Setting: 16'0" - 18'0"

Grout: Cement/Bentonite Setting: Surface - 16'0"

Surface Casing Material: Black Steel Setting: 2'1" AG - 2'5" BG

TIME LOG

	Started	Completed
Drilling:	10/26/88 0930 AM	10/26/88 0940 AM
Installation:	10/26/88 1000 AM	10/26/88 1330 PM
Development:	11/9/88 1400	11/10/88 1030

WELL DEVELOPMENT

Method: Bailer

Static Depth to Water:

Pumping Depth to Water:

Pumping Rate: Specific Capacity:

Volume Pumped: 30 gallons

NY-5

WELL DEPTH 33'

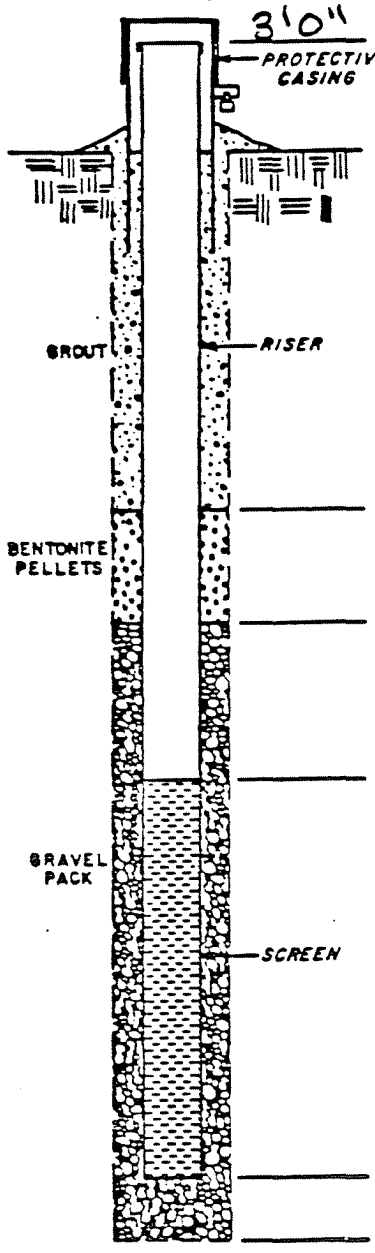
TOC: 701.97
TIC: 701.57

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WELL CONSTRUCTION SUMMARY

Project: Pfohl Bros. Client: NYSDEC Well No: CoD



DRILLING SUMMARY

Drilling Co: Rochester Drilling Co. Drillers: Art Utter/Ed Gainer
Drill Rig Make/Model: Mobile Drill-B-57
Borehole Diameters: 6 1/4" Auger Drilling Fluid: Water
Bits/Depths: 6 1/4" Auger ≅ 9" borehole to 10'8"
Total Depth: 10' 8" ∫ Rock Depth to Water: ≅5'0"
Supervisory Geologist: Chris Wenczel

WELL DESIGN

Casing Material: 316 Stainless Diameter: 4" I.D. Length: 15'0"
Screen Material: — Diameter: — Length: —
Slot Size: — Setting: —
Filter Material: — Setting: —
Seals Material: — Setting: —
Grout: ~~Cement/Bentonite Portland Type I~~ Setting: 12' 8" to surface
Surface Casing Material: Black Steel Setting: 1'11" to +3'1"

TIME LOG	Started	Completed
Drilling:	7/17/89	7/17/89
Installation:	7/18/89	7/20/89
Development:	7/21/89	7/21/89

WELL DEVELOPMENT

Method: Centrifugal Pump
Static Depth to Water: 17.5 TOC
Pumping Depth to Water: 18.75 TOC
Pumping Rate: 15 gpm Specific Capacity: 1.33 gpm/ft dd
Volume Pumped: 300 gallons pumped for development and specific capacity testing.

NY-5

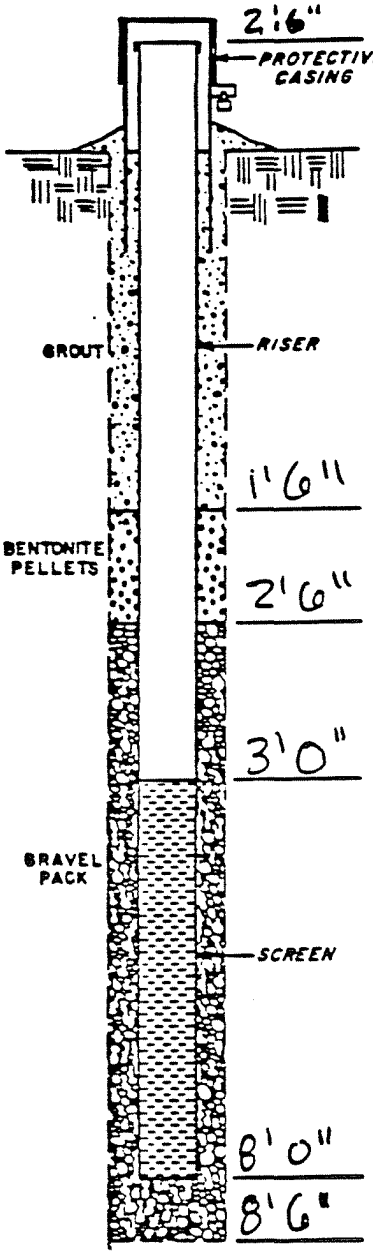
TOC: 700.99
TIC: 700.33

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WELL CONSTRUCTION SUMMARY

Project: Pfohl Bros Client: NYSDEC Well No: 6S



DRILLING SUMMARY

Drilling Co: Rochester Drilling Co. Drillers: Art Utter/Ed Gainer
Drill Rig Make/Model: Mobile Drill B-57
Borehole Diameters: 6 1/4" Auger Drilling Fluid: None
Bits/Depths: 6 1/4" Auger ≅ 6" borehole to
Total Depth: 10'8" ↓ Rock Depth to Water: ≅ 5'0"
Supervisory Geologist: Chris Denzel

WELL DESIGN

Casing Material: 316 Stainless Diameter: 2" I.D. Length: 5'0"
Screen Material: 304 Stainless Diameter: 2" I.D. Length: 5'0"
Slot Size: 0.010" Setting: 8'0" to 3'0"
Filter Material: QRock #4 Setting: 8'6" to 2'6"
Seals Material: Bentonite Pellets Setting: 2'6" to 1'6"
Grout: Cement/Bentonite Portland Type I Setting: 1'6" to surface
Surface Casing Material: Black Steel Setting: 2'6" to +2'6"

TIME LOG	Started	Completed
Drilling:	7/18/89	7/18/89
Installation:	7/18/89	7/18/89
Development:	7/20/89	8/9/89

WELL DEVELOPMENT

Method: Centrifugal Pump / Bailer
Static Depth to Water: 7.00 TOC
Pumping Depth to Water: Well does not yield enough well to
Pumping Rate: _____ Specific Capacity: facilitate
Volume Pumped: _____ specific capacity testing.

NY-5

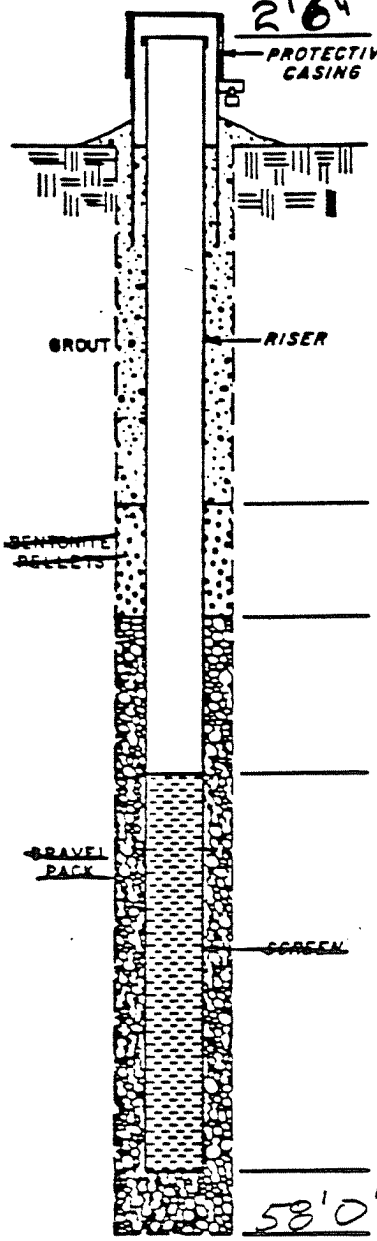
TOC: 699.44
TIC: 699.19

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WELL CONSTRUCTION SUMMARY

Project: Pfohl Bros. Client: NYSDEC Well No: 7D



DRILLING SUMMARY

Drilling Co: Rochester Drilling Co. Drillers: Art Utter
Drill Rig Make/Model: Mobile Drill ATV/B-53
Borehole Diameters: 6¼" ID Auger/3⅞" Borehole Drilling Fluid: Water
Bits/Depths: 6¼" ID Auger to 35'9" / 6" Socket TRB 3⅞" TRB
Total Depth: 58'0" Depth to Water: ≅ 5'6" 38'0" to
Supervisory Geologist: Chris Wencrel

WELL DESIGN

Casing Material: 316 Stainless Diameter: ID Length: 40'0"
Screen Material: None Diameter: none Length: none
Slot Size: none Setting: none
Filter Material: none Setting: none
Seals Material: None Setting: None
Grout: Cement Bentonite Portland Type I Setting: surface to 38'0"
Surface Casing Material: Black Steel Setting: + 2'2" to - 2'10"

TIME LOG	Started	Completed
Drilling:	6/23/89	6/27/89
Installation:	6/27/89 - Comp -	6/29/89
Development:	7/2/89	7/21/89

WELL DEVELOPMENT

Method: Bailer
Static Depth to Water: 14.78 TOC
Pumping Depth to Water: Well yields too little water to maintain pumpage
Pumping Rate: Specific Capacity:
Volume Pumped: Well yields too little water to perform specific capacity testing.

TRB = Tricone roller bit

NY-5

TOC: 699.19

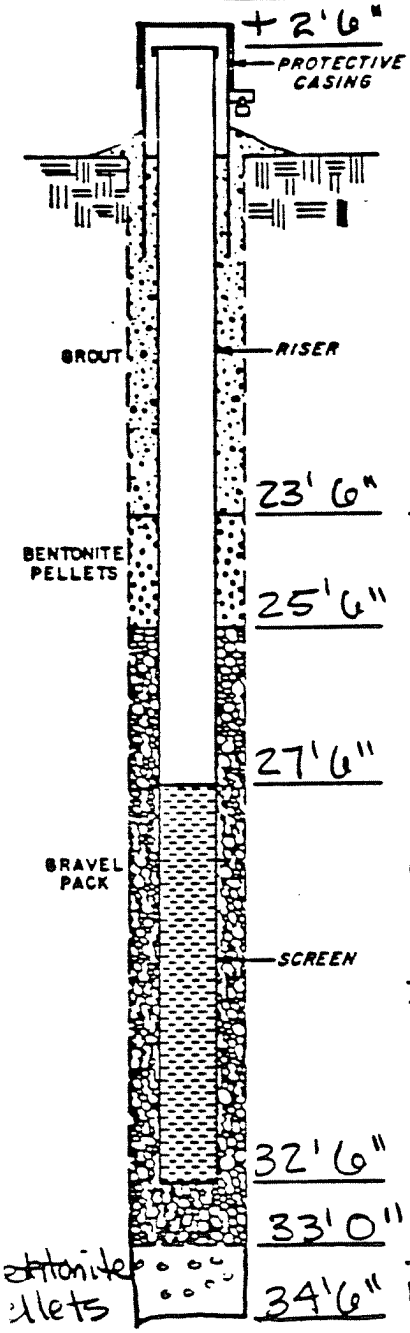
TIC: 698.73

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WELL CONSTRUCTION SUMMARY

Project: Pfohl Bros. Client: NYSDEC Well No: 75



DRILLING SUMMARY

Drilling Co: Rochester Drilling Co Drillers: Art Utter

Drill Rig Make/Model: Mobile Drill ATV / B-53

Borehole Diameters: 6 1/4" Auger Drilling Fluid: None

Bits/Depths: 6 1/4" Auger & 9" borehole to 34'6"

Total Depth: 34'6" Depth to Water: ≅ 5'6"

Supervisory Geologist: Chris Wenczel

WELL DESIGN

Casing Material: 316 Stainless Diameter: 2" ID Length: 30'0"

Screen Material: ~~304~~ Stainless Diameter: 2" ID Length: 5'0"

Slot Size: 0.010" Setting: 32'6" to 27'6"

Filter Material: Q-Rock #4 Setting: 33'0" to 25'6"

Seals Material: Bentonite Pellets Setting: 25'6" to 23'6"

Grout: Cement / Bentonite Portland Type I Setting: 23'6" to Surface

Surface Casing Material: Black Steel Setting: +2'5" to +2'7"

TIME LOG	Started	Completed
Drilling:	6/29/89	6/29/89
Installation:	6/30/89	6/30/89
Development:	7/14/89	8/9/89

WELL DEVELOPMENT

Method: Centrifugal Pumping and bailing

Static Depth to Water: 7.65' TOC

Pumping Depth to Water: —

Pumping Rate: — Specific Capacity: —

Volume Pumped: Well yields too little water to maintain pumping at pump's lowest idle, specific capacity testing not possible.

NY-5

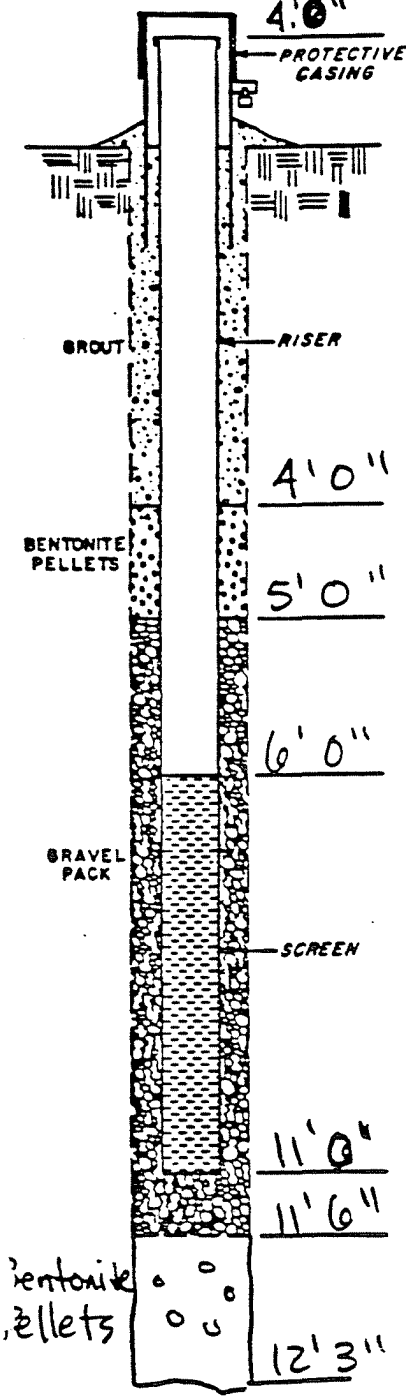
TOC: 696.90
TIC: 696.57

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WELL CONSTRUCTION SUMMARY

Project: Pohl Bros. Client: NYSDEC Well No: 85



DRILLING SUMMARY

Drilling Co: Rochester Drilling Co. Drillers: Art Utter
Drill Rig Make/Model: Mobile Drill ATV/B-53
Borehole Diameters: 6¼" ID Auger Drilling Fluid: None
Bits/Depths: 6¼" Auger ≅ 9" borehole to 12'3"
Total Depth: 12' 3" (Rock) Depth to Water: ≅ 6'0"
Supervisory Geologist: Chris Wencze

WELL DESIGN

Casing Material: 316 Stainless Diameter: 2" ID Length: 10'0"
Screen Material: 304 Stainless Diameter: 2" ID Length: 5'0"
Slot Size: 0.010" Setting: 11'0" to 6'0"
Filter Material: Q Rock #4 Setting: 11'6" to 5'0"
Seals Material: Bentonite Pellets Setting: 5'0" to 4'0"
Grout: Cement/Bentonite Portland Type Setting: 4'0" to Surface
Surface Casing Material: Black Steel Setting: 3'6" to +4'6"

TIME LOG	Started	Completed
Drilling:	7/10/89	7/10/89
Installation:	7/10/89	7/10/89
Development:	7/11/89	8/11/89

WELL DEVELOPMENT

Method: Centrifugal Pump / Bailer
Static Depth to Water: 7.30 TOC
Pumping Depth to Water: 13.55 TOC
Pumping Rate: 0.19 gpm Specific Capacity: 0.0304 gpm/ft/dd
Volume Pumped:

NY-5

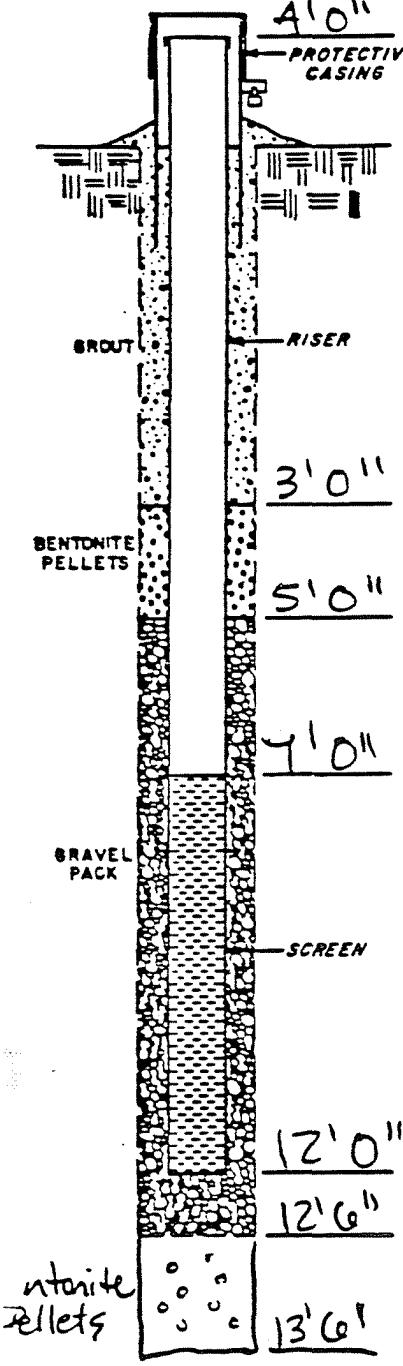
TOC: 701.56
TIC: 701.46

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WELL CONSTRUCTION SUMMARY

Project: Fish Bros Client: NYSDEC Well No: 95



DRILLING SUMMARY

Drilling Co: Rochester Drilling Co Drillers: Art Utter/Ed Gaines
Drill Rig Make/Model: Mobile Drill ATV/B-53
Borehole Diameters: 6¼" Auger Drilling Fluid: None
Bits/Depths: 6¼" Auger ≙ 6" borehole to 13'6"
Total Depth: 13'6" (Rock) Depth to Water: ≙ 4'0"
Supervisory Geologist: Chris Wenczel

WELL DESIGN

Casing Material: 316 Stainless Diameter: 2" ID Length: 11'0"
Screen Material: 304 stainless Diameter: 2" ID Length: 5'0"
Slot Size: 0.010" Setting: 12'0" to 7'0"
Filter Material: QRock #4 Setting: 12'6" to 5'0"
Seals Material: Bentonite Pellets Setting: 5'0" to 3'0"
Grout: Cement/Bentonite Setting: 3'0" to Surface
Surface Casing Material: Black Steel Setting: 1'11" to 4'1"

TIME LOG	Started	Completed
Drilling:	7/13/89	7/13/89
Installation:	7/13/89	7/14/89
Development:	7/19/89	7/20/89

WELL DEVELOPMENT

Method: Centrifugal Pump / Bailer
Static Depth to Water: 8.25' TOC
Pumping Depth to Water: 13.85' TOC
Pumping Rate: 0.666 gpm Specific Capacity: 0.117 gpm/ft dd.
Volume Pumped: Purged 21 gallons during specific capacity testing

NY-5

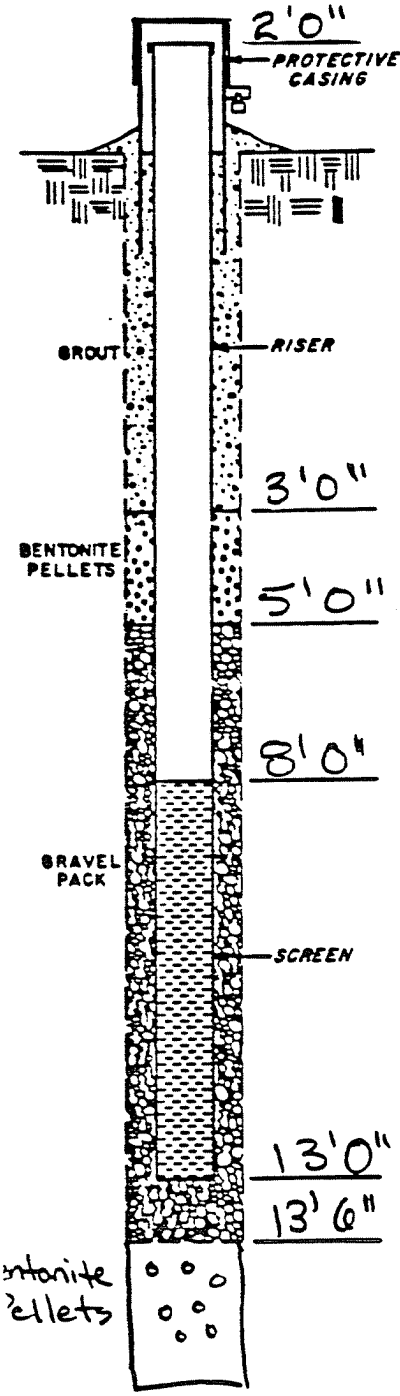
TOC: 700.44
TIC: 699.50

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WELL CONSTRUCTION SUMMARY

Project: Pohl Bros. Client: NYSDEC Well No: 105



DRILLING SUMMARY

Drilling Co: Rochester Drilling Co. Drillers: Art Utter
Drill Rig Make/Model: Mobile Drill ATV/B-53
Borehole Diameters: 6 1/4" Auger Drilling Fluid: none
Bits/Depths: 6 1/4" Auger ≅ 9" borehole to 15'0"
Total Depth: 15'0" to (Rock) Depth to Water: ≅ 6'0"
Supervisory Geologist: Chris Wenczel

WELL DESIGN

Casing Material: 316 Stainless Diameter: 2" ID Length: 10'0"
Screen Material: 304 Stainless Diameter: 2" ID Length: 5'0"
Slot Size: 0.010" Setting: 13'0" to 8'0"
Filter Material: QRock #4 Setting: 13'6" to 5'0"
Seals Material: Bentonite Pellets Setting: 5'0" to 3'0"
Grout: Cement/Bentonite Portland Type I Setting: 3'0" to Surface
Surface Casing Material: Black Steel Setting: 2'6" to +3'0"

TIME LOG	Started	Completed
Drilling:	7/12/89	7/12/89
Installation:	7/12/89	7/13/89
Development:	7/19/89	8/9/89

WELL DEVELOPMENT

Method: Centrifugal Pump / Bailer
Static Depth to Water: 9.55 TOC
Pumping Depth to Water: Well does not yield enough water to facilitate specific capacity testing.
Pumping Rate: —— Specific Capacity: ——
Volume Pumped: ——

NY-5

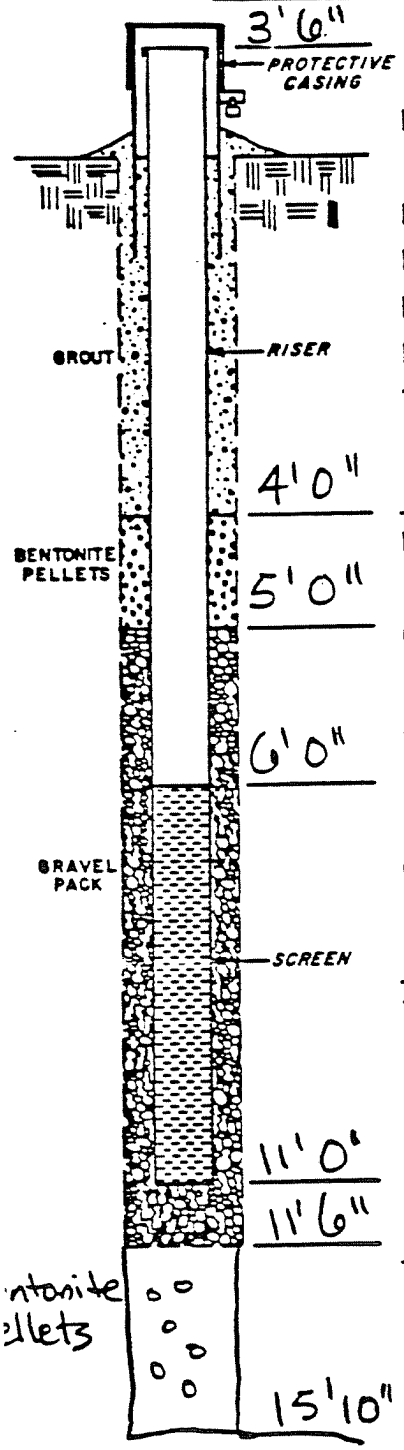
TOC: 693.61
TIC: 693.30

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WELL CONSTRUCTION SUMMARY

Project: Pfohl Bros. Client: NYSDEC Well No: 11S



DRILLING SUMMARY

Drilling Co: Rochester Drilling Co. Drillers: Art Utter
Drill Rig Make/Model: Mobile Drill A IV / B-53
Borehole Diameters: 6 1/4" Auger Drilling Fluid: None
Bits/Depths: 6 1/4" Auger ≅ 9" borehole to 15'10"
Total Depth: 15'10" (Rock) Depth to Water: ≅ 6'0"
Supervisory Geologist: Chris Wenczel

WELL DESIGN

Casing Material: Stainless 316 Diameter: 2" ID Length: 9'6"
Screen Material: Stainless 304 Diameter: 2" ID Length: 5'0"
Slot Size: 0.010" Setting: 11'0" to 6'0"
Filter Material: QRock #4 Setting: 11'6" to 5'0"
Seals Material: Bentonite Pellets Setting: 5'0" to 4'0"
Grout: Cement / Bentonite Portland Type I Setting: 4'0" to Surface
Surface Casing Material: Black Steel Setting: 1'5" to +3'7"

TIME LOG	Started	Completed
Drilling:	7/11/89	7/11/89
Installation:	7/11/89	7/11/89
Development:	7/24/89	?

WELL DEVELOPMENT

Method: Bailer
Static Depth to Water: 10.68 TOC
Pumping Depth to Water: Does not recharge fast enough to pump
Pumping Rate: — Specific Capacity: —
Volume Pumped: —

NY-5

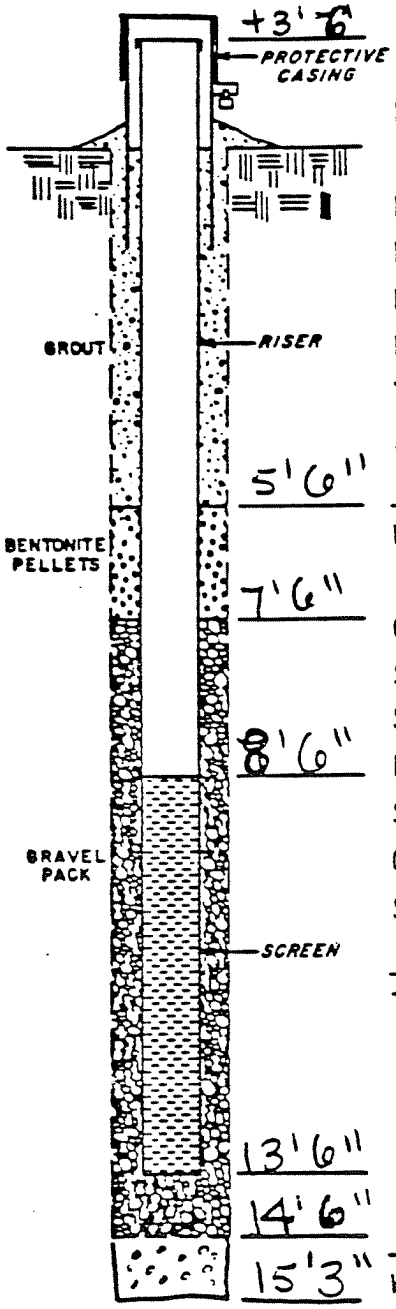
TOC: 702.91
TIC: 702.49

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WELL CONSTRUCTION SUMMARY

Project: Pfohl Bros. Client: NYSDEC Well No: 12S



DRILLING SUMMARY

Drilling Co: Rochester Drilling Co. Drillers: Art Utter
Drill Rig Make/Model: Mobile Drill ATV / B-53
Borehole Diameters: 6 1/4" Auger Drilling Fluid: None
Bits/Depths: 6 1/4" Auger @ 9" borehole to 15'3"
Total Depth: 15'3" Depth to Water: ≅ 8'0"
Supervisory Geologist: Chris Wenczel

WELL DESIGN

Casing Material: 316 Stainless Diameter: 2" ID Length: 12'0"
Screen Material: ~~304~~ Stainless Diameter: 2" ID Length: 5'0"
Slot Size: 0.010" Setting: 13'6" to 8'6"
Filter Material: Q Rock #4 Setting: 14'0" to 7'6"
Seals Material: Bentonite Pellets Setting: 7'6" to 5'6"
Grout: Cement/Bentonite ~~Portland Type I~~ Setting: 5'6" to surface
Surface Casing Material: Black Steel Setting: 2'5" to +3'7"
Note: Protective casing was 6'0" long

TIME LOG	Started	Completed
Drilling:	7/6/89	7/6/89
Installation:	7/6/89	7/6/89
Development:	7/14/89	8/9/89

WELL DEVELOPMENT

Method: Centrifugal Pumping / Bailer
Static Depth to Water: 9.25' TOC
Pumping Depth to Water: 15.25' TOC
Pumping Rate: 0.16 gpm Specific Capacity: 0.027 gpm/ft of
Volume Pumped: 14 gallons during specific capacity dd testing

NY-5

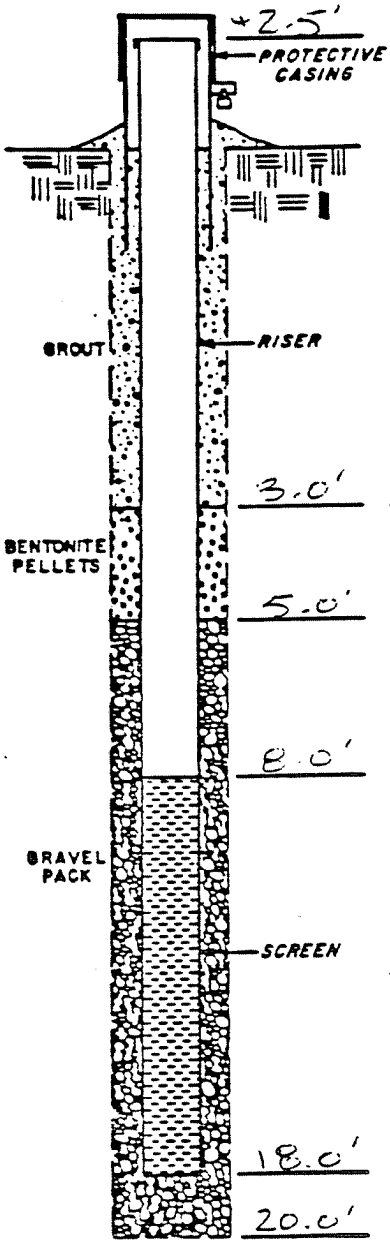
TOC: 705.18
T/C: 705.01

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WELL CONSTRUCTION SUMMARY

Project: Pearl Beach Landfill Client: NYSDEC Well No: MW-13S



DRILLING SUMMARY

Drilling Co: Rochester Drilling Co. Drillers: Art Uttez

Drill Rig Make/Model: Mobile D-53

Borehole Diameters: 10" Drilling Fluid: —

Bits/Depths: 6 1/4" Hollow Stem Augers

Total Depth: 26.0' Depth to Water:

Supervisory Geologist: Andrew Denne

WELL DESIGN

Casing Material: 316 Stainless	Diameter: 2"	Length: 10.5'
Screen Material: Stainless (continuous)	Diameter: 2"	Length: 10.0'
Slot Size: 0.010"	Setting: 8' - 18' bgl
Filter Material: Q-Rocc #4 Morie #1 Flow	Setting: 5' - 20' bgl
Seals Material: Bentonite Pellets	Setting: 3' - 5' bgl
Grout: Cement/Bentonite/Water	Setting: Grade - 3' bgl
Surface Casing Material: Steel	Setting: +2.7' - 2.3' bgl

TIME LOG	Started	Completed
Drilling:	11/30/89 0800	11/30/89 1030
Installation:	11/30/89 1030	11/30/89 1245
Development:		

WELL DEVELOPMENT

Method: Bail / Centrifugal Pump

Static Depth to Water:

Pumping Depth to Water:

Pumping Rate: Specific Capacity:

Volume Pumped:

NY-5

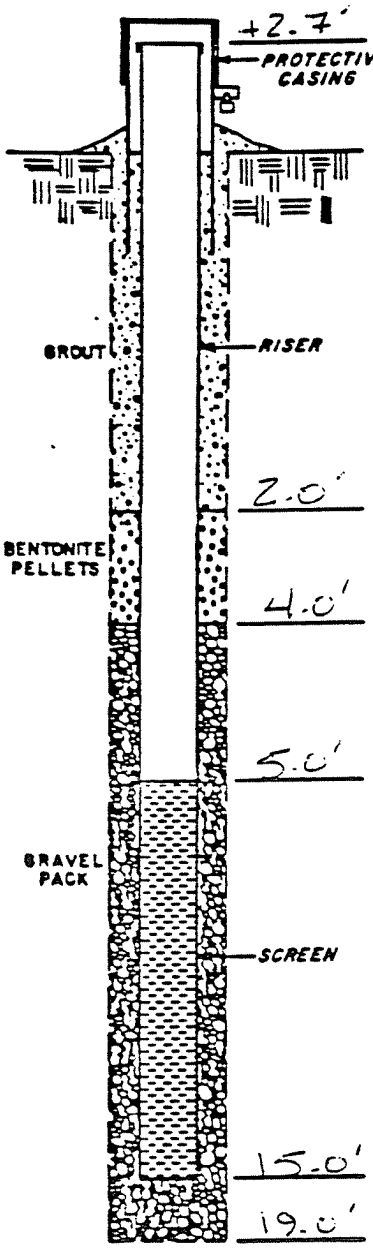
TOC: 702.83
TIC: 702.51

CDM

environmental engineers, scientists, planners & management consultants

WELL CONSTRUCTION SUMMARY

Project: Peck Bros Landfill Client: NYSDEC Well No: MW1-14S



DRILLING SUMMARY

Drilling Co: Rochester Drilling Co. Drillers: Art Utter

Drill Rig Make/Model: Mobile D-53

Borehole Diameters: 10" Drilling Fluid: —

Bits/Depths: 6 1/4" Hollow Stem Augers

Total Depth: 23.7' Depth to Water:

Supervisory Geologist: Andrew Dennie

WELL DESIGN

Casing Material: 316 Stainless Diameter: 2" Length: 7.7'

Screen Material: Stainless Steel Diameter: 2" Length: 10.0'

Slot Size: 0.010" Setting: 5' - 15' bgl

Filter Material: Morie #1 Equiv. Setting: 4' - 19' bgl

Seals Material: Bentonite Pellets Setting: 2' - 4' bgl

Grout: Cement/Bentonite/Water Setting: Grade - 2' bgl

Surface Casing Material: Steel Setting: +2.9' - 2.1' bgl

TIME LOG	Started	Completed
Drilling:	12/4/89 15:00	12/5/89 0830
Installation:	12/5/89 0830	12/5/89 1030
Development:		

WELL DEVELOPMENT

Method:

Static Depth to Water:

Pumping Depth to Water:

Pumping Rate: Specific Capacity:

Volume Pumped:

NY-5

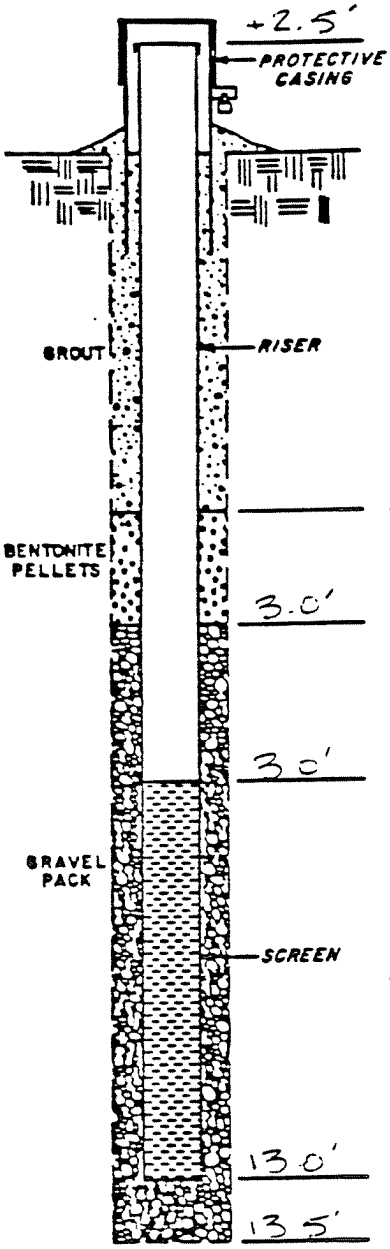
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CDM

environmental engineers, scientists, planners & management consultants

WELL CONSTRUCTION SUMMARY

Project: Peak Bro's Landfill Client: NYSDEC Well No: MW-15S



DRILLING SUMMARY

Drilling Co: Rochester Drilling Co. Drillers: Art Utter

Drill Rig Make/Model: Mobile D-53

Borehole Diameters: 10" Drilling Fluid: —

Bits/Depths: 6 1/4" Hollow Stem Augers

Total Depth: 13.5' Depth to Water:

Supervisory Geologist: Andrew Donnie

WELL DESIGN

Casing Material: SCH Stainless Diameter: 2" Length: 5.5'

Screen Material: Stainless Continuous Diameter: 2" Length: 10.0'

Slot Size: 0.010" Setting: 3' - 13' bgl

Filter Material: Morie #1 Sand (Pack #4) Setting: 3' - 13.5' bgl

Seals Material: Bentonite Pellets Setting: 1' - 3' bgl

Grout: Cement/Bentonite/Water Setting: Grade - 1' bgl

Surface Casing Material: Steel Setting: +2.7' - 2.3' bgl

TIME LOG	Started	Completed
Drilling:	12/1/89 0915	12/1/89 1015
Installation:	12/1/89 1015	12/1/89 1200
Development:		

WELL DEVELOPMENT

Method:

Static Depth to Water:

Pumping Depth to Water:

Pumping Rate: Specific Capacity:

Volume Pumped:

NY-5

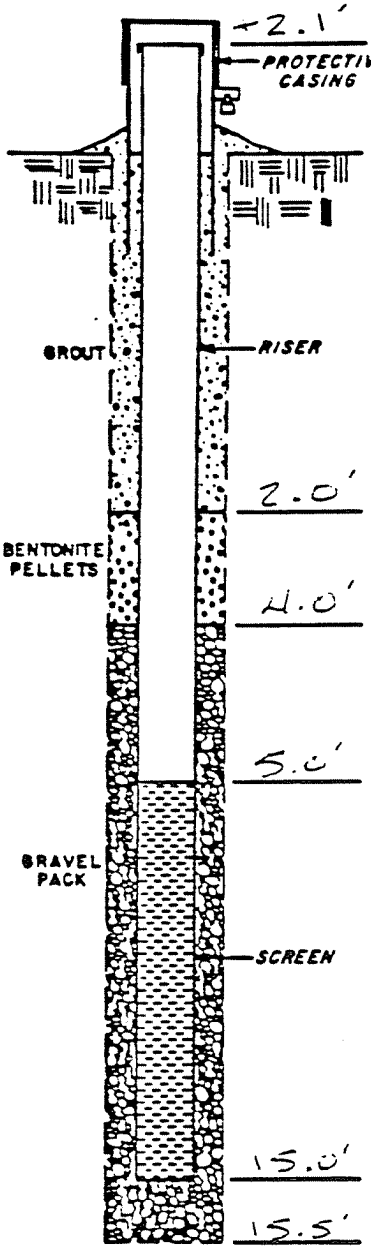
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CDM

environmental engineers, scientists, planners & management consultants

WELL CONSTRUCTION SUMMARY

Project: Peck Beds Landfill Client: NYSDEC Well No: MW-105



DRILLING SUMMARY

Drilling Co: Rouster Drilling Co. Drillers: Art Utter

Drill Rig Make/Model: Mobile D-53

Borehole Diameters: 10" Drilling Fluid: —

Bits/Depths: 6¼" Hollow Stem Augers

Total Depth: 17.3' Depth to Water:

Supervisory Geologist: Andrew Downie

WELL DESIGN

Casing Material: 316 Stainless Diameter: 2" Length: 7.1'

Screen Material: Stainless Continuous Diameter: 2" Length: 10.0'

Slot Size: 0.010" Setting: 5 - 15' bgl

Filter Material: Q-Rock #4 Morie #1 Equiv Setting: 4 - 15.5' bgl

Seals Material: Bentonite Pellets Setting: 2' - 4' bgl

Grout: Cement/Bentonite/Water Setting: Grade - 2' bgl

Surface Casing Material: Steel Setting: +2.5' - 2.5' bgl

TIME LOG	Started	Completed
Drilling:	11/29/89 0830	11/29/89 1015
Installation:	11/29/89 1015	11/29/89 1230
Development:		

WELL DEVELOPMENT

Method:

Static Depth to Water:

Pumping Depth to Water:

Pumping Rate: Specific Capacity:

Volume Pumped:

NY-5

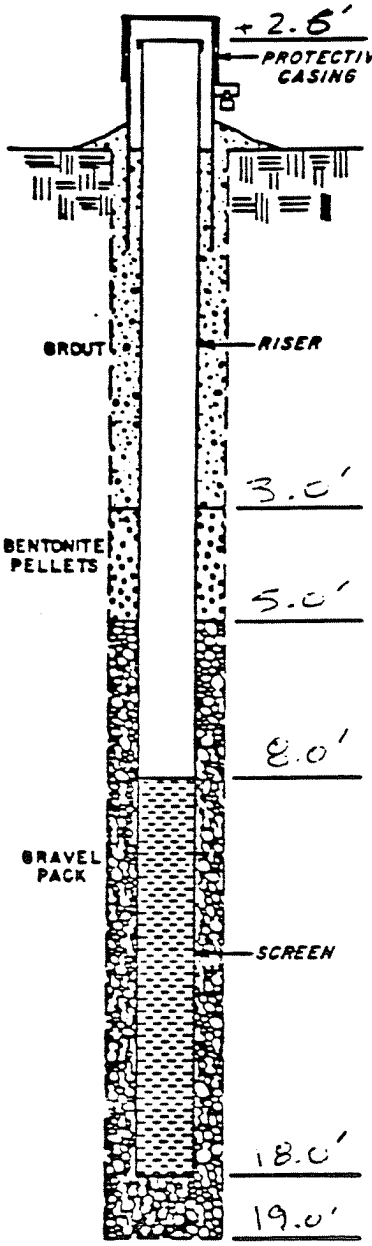
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CDM

environmental engineers, scientists, planners & management consultants

WELL CONSTRUCTION SUMMARY

Project: Pfohl Bros Landfill Client: NYSDEC Well No: MW-17S



DRILLING SUMMARY

Drilling Co: Rochester Drilling Co. Drillers: Art Utter

Drill Rig Make/Model: Mobile D-53

Borehole Diameters: 10" Drilling Fluid: —

Bits/Depths: 6¼" Hollow Stem Auger

Total Depth: 22.6' Depth to Water:

Supervisory Geologist: Andrew Downie

WELL DESIGN

Casing Material: 316 Stainless Diameter: 2" Length: 10.6'

Screen Material: Stainless Continuous Diameter: 2" Length: 10.0'

Slot Size: 0.010" Setting: 8' - 18' bgl

Filter Material: Q-Rexx #4 Morie #1 Equiv. Setting: 5' - 19' bgl

Seals Material: Bentonite Pellets Setting: 3' - 5' bgl

Grout: Cement/Bentonite/Water Setting: Grade - 3' bgl

Surface Casing Material: Steel Setting: +2.8' - 2.2' bgl

TIME LOG	Started	Completed
Drilling:	11/27/89 12:00	11/27/89 15:30
Installation:	11/28/89 08:00	11/28/89 10:30
Development:		

WELL DEVELOPMENT

Method: Bail

Static Depth to Water:

Pumping Depth to Water:

Pumping Rate: Specific Capacity:

Volume Pumped:

NY-5

Appendix E

SLUG TEST RESULTS - SHALLOW WELLS

Well	Hydraulic Conductivity	
	Slug In (feet/day)	Slug Out (feet/day)
1S	(a)	30.98
2S	(b)	(b)
3S	(a)	(a)
4S	(a)	(a)
5S	19.3	(a)
6S	(b)	(b)
7S	(b)	(b)
8S	(a)	(a)
9S	17.16	18.999
10S	(a)	16.88
11S	(b)	(b)
12S	(a)	(a)
13S	(a)	577.07
14S	(a)	22.22
15S	(a)	(a)
16S	39.27	24.06
17S	(b)	(b)

[a] No usable data
[b] No test run

(PBLF5/15)MP

Appendix F

Appendix F

PFOHL BROTHERS LANDFILL WATER LEVEL MEASUREMENTS

WELL	ELEVATION (TOC)	DEPTH-TO-WATER					
		JAN. '89	AUG. '89	DEC. '89	JAN. '90	MAY '90	JUNE '90
MW-1S	695.95	2.30	5.83	3.00	2.10	2.48	2.99
MW-1D	695.86	2.47	4.00	2.65	1.65	3.09	2.45
MW-2S	701.00			7.70	7.70	6.35	6.56
MW-2D	701.57			10.80	10.35	10.48	10.41
MW-3S	693.29	1.93	16.69	4.33	2.55	4.63	3.45
MW-3D	693.28	1.92	10.15	2.35	2.00	2.19	1.20
MW-4S	692.72	2.96	5.25		2.70	3.10	2.90
MW-4D	692.75	11.40	12.25		12.00	11.23	11.09
MW-5S	696.14	3.30	4.88	3.95	3.65	2.80	3.05
MW-5D	696.06	5.40	5.94	5.00	4.55	4.90	4.81
MW-6S	700.33		7.00		4.75	6.73	5.49
MW-6D	701.57		7.10	5.10	3.70	5.87	4.68
MW-7S	698.73		7.65	5.68	7.05	6.39	5.36
MW-7D	699.19		21.20	15.95	20.10	14.43	13.74
MW-8S	696.57		7.30		4.20	6.19	4.80
MW-9S	701.46		8.20		8.10	6.87	7.01
MW-10S	699.50		9.55		6.50	6.75	6.77
MW-11S	693.30				2.85	2.91	3.01
MW-12S	702.49		9.10		8.90	9.34	8.18
MW-13S	705.01			10.64	10.5	9.58	9.71
MW-14S	702.51			8.15	8.55	7.20	7.38
MW-15S	699.26			7.30	6.75	6.11	6.14
MW-16S	701.46			7.02	6.95	4.60	-
MW-17S	698.79					3.80	3.90

File: PBMWDTW

Appendix G

SPECIFIC CAPACITY TEST RESULTS - BEDROCK WELLS

Well	Specific capacity (gal/foot of drawdown)	Transmissivity (square feet/day)
1D	1.56	313
2D	0.91	182
3D	42.11	8,444
5D	8.33	1,670
6D	1.33	267

(PBLF5/15)MP

SLUG TEST RESULTS - DEEP WELLS

Well	Hydraulic conductivity		
	Slug out (feet/day)	Slug in (feet/day)	Slug out (feet/day)
1D	9.91	19.81	(b)
2D	71.25	249.39	(b)
3D	96.09	(a)	57.66
4D	0.0057	0.0075	(b)
5D	164.35	123.12	70.44
6D	12.45	26.10	(b)
7D	(a)	(a)	(b)

[a] No usable data
[b] No test run

(PBLF5/15)MP

Appendix H

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE E-5A
VOLATILES
GROUND WATER SAMPLE RESULTS - ROUND 1
Page 01 of 02

06/26/90

	CONCENTRATIONS in ug/l								
SAMPLE NUMBER -	GW-1S-01	GW-1D-01	GW-3S-01	GW-3D-01	GW-3D-01BDUP	GW-4S-01	GW-4D-01	GW-5S-01	GW-5D-01
VOLATILES									
Bromodichloromethane	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
Bromoform	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U
Bromomethane	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U
Carbon Tetrachloride	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Chlorobenzene	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U
Chloroethane	5.9 U	5.9 U	5.9 U	5.9 U	5.9 U	5.9 U	5.9 U	5.9 U	5.9 U
Chloroform	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U
Dibromochloromethane	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
1,1-Dichloroethane	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
1,2-Dichloroethane	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
1,1-Dichloroethene	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
trans 1,2-Dichloroethylene	1.6 U	1.6 U	1.6 U	R	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
1,2-Dichloropropane	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
cis-1,3-Dichloropropene	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
trans-1,3-Dichloropropene	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
Methylene Chloride	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
1,1,2,2-Tetrachloroethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,1-Trichloroethane	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
1,1,2-Trichloroethane	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
Trichloroethene	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
2-Chloroethylvinylether	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U
Vinyl Chloride	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U
Trichlorofluoromethane	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U

FOOTNOTES :
* All values in ug/l unless noted otherwise
ug/l (micrograms per liter) = ppb (parts per billion).
J is a data qualifier indicating estimated values (appendix A).
R = Analyte was rejected due to QA/QC.
B = Indicates the analyte was found in the blank. Indicates possible blank contamination.
U = Indicates element was analyzed for but not detected. The number shown is the detection limit.
NR Indicates analysis was not requested.
E = Estimated value due to exceedance of linear calibration range.
D = Denotes analyte quantified at a secondary dilution factor.

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE E-5A (contd)
VOLATILES
GROUND WATER SAMPLE RESULTS - ROUND 1

06/26/90

	CONCENTRATIONS in ug/l							
SAMPLE NUMBER -	GW-6S-01	GW-6D-01	GW-7S-01	GW-7D-01	GW-8S-01	GW-9S-01	GW-10S-01	GW-12S-01
VOLATILES								
Bromodichloromethane	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
Bromoform	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U
Bromomethane	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U
Carbon Tetrachloride	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Chlorobenzene	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U
Chloroethane	5.9 U	5.9 U	5.9 U	5.9 U	5.9 U	5.9 U	5.9 U	5.9 U
Chloroform	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U
Dibromochloromethane	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
1,1-Dichloroethane	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
1,2-Dichloroethane	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
1,1-Dichloroethene	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
trans 1,2-Dichloroethylene	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
1,2-Dichloropropane	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
cis-1,3-Dichloropropene	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
trans-1,3-Dichloropropene	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
Methylene Chloride	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
1,1,2,2-Tetrachloroethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,1-Trichloroethane	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
1,1,2-Trichloroethane	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
Trichloroethene	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
2-Chloroethylvinylether	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U
Vinyl Chloride	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U
Trichlorofluoromethane	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U

FOOTNOTES :
* All values in ug/l unless noted otherwise
ug/l (micrograms per liter) = ppb (parts per billion).
J is a data qualifier indicating estimated values (appendix A).
R = Analyte was rejected due to QA/QC.
B = Indicates the analyte was found in the blank. Indicates possible blank contamination.
U = Indicates element was analyzed for but not detected. The number shown is the detection limit.
NR Indicates analysis was not requested.
E = Estimated value due to exceedance of linear calibration range.
D = Denotes analyte quantified at a secondary dilution factor.

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE E-5A
VOLATILES
GROUND WATER SAMPLE RESULTS - ROUND 1

06/26/90

	CONCENTRATIONS in ug/l								
SAMPLE NUMBER -	GW-1S-01	GW-1D-01	GW-3S-01	GW 3D-01	GW-3D-01BDUP	GW-4S-01	GW-4D-01	GW-5S-01	GW-5D-01
VOLATILES (8020)									
Benzene	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Toluene	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Chlorobenzene	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Ethylbenzene	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
m-Xylene	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
o-Xylene	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
p-Xylene	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
1,2-Dichlorobenzene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,3-Dichlorobenzene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,4-Dichlorobenzene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

FOOTNOTES :
* All values in ug/l unless noted otherwise
ug/l (micrograms per liter) = ppb (parts per billion).
J is a data qualifier indicating estimated values (appendix A).
R = Analyte was rejected due to QA/QC.
B = Indicates the analyte was found in the blank. Indicates possible blank contamination.
U = Indicates element was analyzed for but not detected. The number shown is the detection limit.
NR Indicates analysis was not requested.
E = Estimated value due to exceedance of linear calibration range.
D = Denotes analyte quantified at a secondary dilution factor.

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE E-5A (contd)
VOLATILES
GROUND WATER SAMPLE RESULTS - ROUND 1

06/26/90

	CONCENTRATIONS in ug/l							
SAMPLE NUMBER -	GW-6S-01	GW-6D-01	GW-7S-01	GW-7D-01	GW-8S-01	GW-9S-01	GW-10S-01	GW-12S-01
VOLATILES (8020)								
Benzene	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Toluene	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Chlorobenzene	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Ethylbenzene	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
m-Xylene	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
o-Xylene	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
p-Xylene	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
1,2-Dichlorobenzene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,3-Dichlorobenzene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,4-Dichlorobenzene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

FOOTNOTES :
* All values in ug/l unless noted otherwise
ug/l (micrograms per liter) = ppb (parts per billion).
J is a data qualifier indicating estimated values (appendix A).
R = Analyte was rejected due to QA/QC.
B = Indicates the analyte was found in the blank. Indicates possible blank contamination.
U = Indicates element was analyzed for but not detected. The number shown is the detection limit.
NR Indicates analysis was not requested.
E = Estimated value due to exceedance of linear calibration range.
D = Denotes analyte quantified at a secondary dilution factor.

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE E-5B
VOLATILES
GROUND WATER SAMPLE RESULTS - ROUND 2

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	CONCENTRATIONS in ug/l								
SAMPLE NUMBER -	GW-1S-02	GW-1D-02	GW-2S-02	GW-2D-02	GW-3S-02	GW-3D-02	GW-4S-02	GW-4D-02	GW-5D-02
VOLATILES (8010)									
Bromodichloromethane	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
Bromoform	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U
Bromomethane	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U
Carbon Tetrachloride	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Chlorobenzene	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U
Chloroethane	5.9 UJ	5.9 UJ	900.0 J	3.7 J	5.9 UJ	5.9 UJ	5.9 UJ	5.9 UJ	5.9 UJ
Chloroform	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	20.0 U	R	R	R	R	R	R	R	R
Dibromochloromethane	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U
1,1-Dichloroethane	R	1.1 U	4900.0 J	4.1 J	1.1 U	R	R	1.1 U	1.1 U
1,2-Dichloroethane	R	R	R	R	R	R	R	R	R
1,1-Dichloroethene	1.8 U	1.8 U	240.0	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
trans 1,2-Dichloroethyle	1.6 U	1.6 U	1.6 U	9.2	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
1,2-Dichloropropane	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
cis-1,3-Dichloropropene	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
trans-1,3-Dichloropropene	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
Methylene Chloride	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
1,1,2,2-Tetrachloroethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,1-Trichloroethane	1.3 U	1.3 U	15000.0 J	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
1,1,2-Trichloroethane	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U
Trichloroethene	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
2-Chloroethylvinylether	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U
Vinyl Chloride	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U
Trichlorofluoromethane	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U

FOOTNOTES :
* All values in ug/l unless noted otherwise
ug/l (micrograms per liter) = ppb (parts per billion).
J is a data qualifier indicating estimated values (appendix A).
R = Analyte was rejected due to QA/QC.
B = Indicates the analyte was found in the blank. Indicates possible blank contamination.
U = Indicates element was analyzed for but not detected. The number shown is the detection limit.
NR Indicates analysis was not requested.
E = Estimated value due to exceedance of linear calibration range.
D = Denotes analyte quantified at a secondary dilution factor.
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PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE E-5B (contd)
VOLATILES
GROUND WATER SAMPLE RESULTS - ROUND 2
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	CONCENTRATIONS in ug/l								
SAMPLE NUMBER -	GW-6S-02	GW-6D-02	GW-7S-02	GW-7D-02	GW-8S-02	GW-9S-02	GW-10S-02	GW-11S-02	GW-12S-02
VOLATILES (8010)									
Bromodichloromethane	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
Bromoform	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U
Bromomethane	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U
Carbon Tetrachloride	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Chlorobenzene	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U
Chloroethane	5.9 UJ	5.9 UJ	5.9 UJ	5.9 UJ	5.9 UJ	5.9 UJ	5.9 UJ	5.9 UJ	5.9 UJ
Chloroform	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	R	R	R	R	R	R	R	R	R
Dibromochloromethane	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U
1,1-Dichloroethane	1.1 U	1.1 U	1.1 U	1.1 U	R	R	R	R	5.6 J
1,2-Dichloroethane	R	R	R	R	R	R	R	R	1.6 U
1,1-Dichloroethene	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
trans 1,2-Dichloroethylene	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
1,2-Dichloropropane	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
cis-1,3-Dichloropropene	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
trans-1,3-Dichloropropene	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
Methylene Chloride	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
1,1,2,2-Tetrachloroethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,1-Trichloroethane	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	26.0
1,1,2-Trichloroethane	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U
Trichloroethene	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
2-Chloroethylvinylether	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U
Vinyl Chloride	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U
Trichlorofluoromethane	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U

FOOTNOTES :
* All values in ug/l unless noted otherwise
ug/l (micrograms per liter) = ppb (parts per billion).
J is a data qualifier indicating estimated values (appendix A).
R = Analyte was rejected due to QA/QC.
B = Indicates the analyte was found in the blank. Indicates possible blank contamination.
U = Indicates element was analyzed for but not detected. The number shown is the detection limit.
NR Indicates analysis was not requested.
E = Estimated value due to exceedance of linear calibration range.
D = Denotes analyte quantified at a secondary dilution factor.

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE E-5B (contd)
VOLATILES
GROUND WATER SAMPLE RESULTS - ROUND 2

06/26/90

SAMPLE NUMBER -	CONCENTRATIONS in ug/l					
	GW-13S-02	GW-14S-02	GW-14S-02DUP	GW-15S-02	GW-16S-02	GW-17S-02
VOLATILES (8010)						
Bromodichloromethane	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
Bromoform	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U
Bromomethane	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U
Carbon Tetrachloride	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Chlorobenzene	3.7 U	3.7 U	3.7 U	3.7 U	11000.0 J	3.7 U
Chloroethane	5.9 UJ	5.9 UJ	5.9 UJ	5.9 UJ	5.9 UJ	5.9 UJ
Chloroform	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	R	R	R	R	R	R
Dibromochloromethane	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U
1,1-Dichloroethane	1.1 U	R	R	R	R	1.1 U
1,2-Dichloroethane	R	R	R	R	R	R
1,1-Dichloroethene	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
trans 1,2-Dichloroethylene	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
1,2-Dichloropropane	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
cis-1,3-Dichloropropene	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
trans-1,3-Dichloropropene	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
Methylene Chloride	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
1,1,2,2-Tetrachloroethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,1-Trichloroethane	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
1,1,2-Trichloroethane	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U
Trichloroethene	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
2-Chloroethylvinylether	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U
Vinyl Chloride	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U
Trichlorofluoromethane	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U

FOOTNOTES :
* All values in ug/l unless noted otherwise
ug/l (micrograms per liter) = ppb (parts per billion).
J is a data qualifier indicating estimated values (appendix A).
R = Analyte was rejected due to QA/QC.
B = Indicates the analyte was found in the blank. Indicates possible blank contamination.
U = Indicates element was analyzed for but not detected. The number shown is the detection limit.
NR Indicates analysis was not requested.
E = Estimated value due to exceedance of linear calibration range.
D = Denotes analyte quantified at a secondary dilution factor.

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE E-5D
VOLATILES
GROUND WATER SAMPLE RESULTS - ROUND 2

06/26/90

	CONCENTRATIONS in ug/l								
SAMPLE NUMBER -	GW-1S-02	GW-1D-02	GW-2S-02	GW-2D-02	GW-3S-02	GW-3D-02	GW-4S-02	GW-4D-02	GW-5D-02
VOLATILES (8020)									
Benzene	2.0 U	2.0 UJ	2.0 U	2.0 U	26.0 J	23.0	2.0 U	2.0 UJ	2.0 U
Toluene	3.0 UJ	3.0 UJ	3.0 UJ	3.0 UJ	41.0 J	3.0	3.0 UJ	3.0 UJ	3.0 U
Chlorobenzene	3.0 U	3.0 UJ	3.0 U	3.0 U	3.0 UJ	3.0 U	3.0 U	3.0 UJ	3.0 U
Ethylbenzene	3.0 U	3.0 UJ	3.0 U	3.0 U	3.0 UJ	3.0 U	3.0 U	3.0 UJ	3.0 U
m-Xylene	6.0 U	6.0 UJ	6.0 U	6.0 U	6.0 UJ	6.0 U	6.0 U	6.0 UJ	6.0 U
o-Xylene	3.0 U	3.0 UJ	3.0 U	3.0 U	3.0 UJ	3.0 U	3.0 U	3.0 UJ	3.0 U
p-Xylene	6.0 U	6.0 UJ	6.0 U	6.0 U	6.0 UJ	6.0 U	6.0 U	6.0 UJ	6.0 U
1,2-Dichlorobenzene	5.0 U	R	5.0 U	5.0 U	R	R	5.0 U	R	R
1,3-Dichlorobenzene	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 UJ	5.0 U
1,4-Dichlorobenzene	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 UJ	5.0 U

FOOTNOTES :
* All values in ug/l unless noted otherwise
ug/l (micrograms per liter) = ppb (parts per billion).
J is a data qualifier indicating estimated values (appendix A).
R = Analyte was rejected due to QA/QC.
B = Indicates the analyte was found in the blank. Indicates possible blank contamination.
U = Indicates element was analyzed for but not detected. The number shown is the detection limit.
NR Indicates analysis was not requested.
E = Estimated value due to exceedance of linear calibration range.
D = Denotes analyte quantified at a secondary dilution factor.

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE E-5B (contd)
VOLATILES
GROUND WATER SAMPLE RESULTS - ROUND 2

06/26/90

	CONCENTRATIONS in ug/l								
SAMPLE NUMBER -	GW-6S-02	GW-6D-02	GW-7S-02	GW-7D-02	GW-8S-02	GW-9S-02	GW-10S-02	GW-11S-02	GW-12S-02
VOLATILES (8020)									
Benzene	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.8 J	2.0 U	2.0 U	2.0 U
Toluene	3.0 U	3.0 U	3.0 U	3.0 U	3.0 UJ	4.1 J	3.0 UJ	3.0 UJ	3.0 UJ
Chlorobenzene	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 UJ	3.0 U	3.0 U	3.0 U
Ethylbenzene	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 UJ	3.0 U	3.0 U	3.0 U
m-Xylene	6.0 U	3.0 U	6.0 U	3.0 U	6.0 U	6.0 UJ	6.0 U	6.0 U	6.0 U
o-Xylene	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 UJ	3.0 U	3.0 U	3.0 U
p-Xylene	6.0 U	3.0 U	6.0 U	3.0 U	6.0 U	6.0 UJ	6.0 U	6.0 U	6.0 U
1,2-Dichlorobenzene	R	R	R	R	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U
1,3-Dichlorobenzene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U
1,4-Dichlorobenzene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U

FOOTNOTES :
* All values in ug/l unless noted otherwise
ug/l (micrograms per liter) = ppb (parts per billion).
J is a data qualifier indicating estimated values (appendix A).
R = Analyte was rejected due to QA/QC.
B = Indicates the analyte was found in the blank. Indicates possible blank contamination.
U = Indicates element was analyzed for but not detected. The number shown is the detection limit.
NR Indicates analysis was not requested.
E = Estimated value due to exceedance of linear calibration range.
D = Denotes analyte quantified at a secondary dilution factor.

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE E-5B (contd)
VOLATILES
GROUND WATER SAMPLE RESULTS - ROUND 2

06/26/90

	CONCENTRATIONS in ug/l					
SAMPLE NUMBER -	GW-13S-02	GW-14S-02	GW-14S-02BDUP	GW-15S-02	GW-16S-02	GW-17S-02
VOLATILES (8020)						
Benzene	2.0 UJ	2.0 UJ	2.7	2.0 UJ	290.0	2.0 U
Toluene	3.0 UJ	3.0 UJ	43.0 J	3.0 UJ	3.0 UJ	3.0 U
Chlorobenzene	3.0 UJ	3.0 UJ	3.0 U	3.0 UJ	1200.0 J	3.0 U
Ethylbenzene	3.0 UJ	3.0 UJ	3.0 U	3.0 UJ	3.0 U	3.0 U
m-Xylene	6.0 UJ	6.0 UJ	6.0 U	6.0 UJ	200.0 J	6.0 U
o-Xylene	3.0 UJ	3.0 UJ	3.0 U	3.0 UJ	3.0 U	3.0 U
p-Xylene	6.0 UJ	6.0 UJ	6.0 U	6.0 UJ	200.0 J	6.0 U
1,2-Dichlorobenzene	R	5.0 UJ	5.0 U	R	5.0 U	R
1,3-Dichlorobenzene	5.0 UJ	5.0 UJ	5.0 U	5.0 UJ	82.0	5.0 U
1,4-Dichlorobenzene	5.0 UJ	5.0 UJ	5.0 U	5.0 UJ	240.0 J	5.0 U

FOOTNOTES :
* All values in ug/l unless noted otherwise
ug/l (micrograms per liter) = ppb (parts per billion).
J is a data qualifier indicating estimated values (appendix A).
R = Analyte was rejected due to QA/QC.
B = Indicates the analyte was found in the blank. Indicates possible blank contamination.
U = Indicates element was analyzed for but not detected. The number shown is the detection limit.
NR Indicates analysis was not requested.
E = Estimated value due to exceedance of linear calibration range.
D = Denotes analyte quantified at a secondary dilution factor.
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PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE E-6A
SEMI-VOLATILES 1
GROUND WATER SAMPLE RESULTS - ROUND 1
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	CONCENTRATIONS in ug/l								
SAMPLE NUMBER -	GW-1S-01	GW-1D-01	GW-3S-01	GW-3D-01	GW-3D-01BDUP	GW-4S-01	GW-4D-01	GW-5S-01	GW-5D-01
SEMI-VOLATILES 1									
Phenol	R	10.0 U	R	10.0 U	10.0 U	10.0 U	10.0 U	R	10.0 U
bis(2-Chloroethyl)Ether	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
2-Chlorophenol	R	10.0 U	R	10.0 U	10.0 U	10.0 U	10.0 U	R	10.0 U
1,3-Dichlorobenzene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
1,4-Dichlorobenzene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
Benzyl Alcohol	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
1,2-Dichlorobenzene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
2-Methylphenol	R	10.0 U	R	10.0 U	10.0 U	10.0 U	10.0 U	R	10.0 U
bis(2-Chloroisopropyl)Ether	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
4-Methylphenol	R	10.0 U	R	10.0 U	10.0 U	10.0 U	10.0 U	R	10.0 U
N-Nitroso-Di-n-Propylamine	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
Hexachloroethane	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
Nitrobenzene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
Isophorone	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
2-Nitrophenol	R	10.0 U	R	10.0 U	10.0 U	10.0 U	10.0 U	R	10.0 U
2,4-Dimethylphenol	R	10.0 U	R	10.0 U	10.0 U	10.0 U	10.0 U	R	10.0 U
Benzoic Acid	R	50.0 U	R	50.0 U	50.0 U	50.0 U	50.0 U	3.0 DJ	50.0 U
bis(2-Chloroethoxy)Methane	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
2,4-Dichlorophenol	R	10.0 U	R	10.0 U	10.0 U	10.0 U	10.0 U	R	10.0 U
1,2,4-Trichlorobenzene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
Naphthalene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
4-Chloroaniline	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
Hexachlorobutadiene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
4-Chloro-3-Methylphenol	R	10.0 U	R	10.0 U	10.0 U	10.0 U	10.0 U	R	10.0 U
2-Methylnaphthalene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
Hexachlorocyclopentadiene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
2,4,6-Trichlorophenol	R	10.0 U	R	10.0 U	10.0 U	10.0 U	10.0 U	R	10.0 U
2,4,5-Trichlorophenol	R	50.0 U	R	50.0 U	50.0 U	50.0 U	50.0 U	R	50.0 U
2-Chloronaphthalene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
2-Nitroaniline	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U
Dimethyl Phthalate	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
Acenaphthylene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
2,6-Dinitrotoluene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U

FOOTNOTES :
* All values in ug/l unless noted otherwise
ug/l (micrograms per liter) = ppb (parts per billion).
J is a data qualifier indicating estimated values (appendix A).
R = Analyte was rejected due to QA/QC.
B = Indicates the analyte was found in the blank. Indicates possible blank contamination.
U = Indicates element was analyzed for but not detected. The number shown is the detection limit.
NR Indicates analysis was not requested.
E = Estimated value due to exceedance of linear calibration range.
D = Denotes analyte quantified at a secondary dilution factor.

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE E-6A (contd)
SEMI-VOLATILES 1
GROUND WATER SAMPLE RESULTS - ROUND 1

06/26/90

	CONCENTRATIONS in ug/l							
SAMPLE NUMBER -	GW-6S-01RE	GW-6D-01	GW-7S-01	GW-7D-01	GW-8S-01	GW-9S-01	GW-10S-01	GW-12S-01
SEMI-VOLATILES 1								
Phenol	10.0 UJ	R	R	16.0	R	50.0 U	R	10.0 U
bis(2-Chloroethyl)Ether	10.0 U	10.0 UJ	10.0 U	10.0 U	10.0 U	50.0 U	10.0 U	10.0 U
2-Chlorophenol	10.0 UJ	R	R	10.0 U	R	50.0 U	R	10.0 U
1,3-Dichlorobenzene	10.0 U	10.0 UJ	10.0 U	10.0 U	10.0 U	50.0 U	10.0 U	10.0 U
1,4-Dichlorobenzene	10.0 U	10.0 UJ	10.0 U	10.0 U	10.0 U	50.0 U	10.0 U	10.0 U
Benzyl Alcohol	10.0 U	10.0 UJ	10.0 U	10.0 U	10.0 U	50.0 U	10.0 U	10.0 U
1,2-Dichlorobenzene	10.0 U	10.0 UJ	10.0 U	10.0 U	10.0 U	50.0 U	10.0 U	10.0 U
2-Methylphenol	10.0 UJ	R	R	10.0 U	R	50.0 U	R	10.0 U
bis(2-Chloroisopropyl)Ether	10.0 U	10.0 UJ	10.0 U	10.0 U	10.0 U	50.0 U	10.0 U	10.0 U
4-Methylphenol	10.0 UJ	R	R	10.0 U	R	50.0 U	R	10.0 U
N-Nitroso-Di-n-Propylamine	10.0 U	10.0 UJ	10.0 U	10.0 U	10.0 U	50.0 U	10.0 U	10.0 U
Hexachloroethane	10.0 U	10.0 UJ	10.0 U	10.0 U	10.0 U	50.0 U	10.0 U	10.0 U
Nitrobenzene	10.0 U	10.0 UJ	10.0 U	10.0 U	10.0 U	50.0 U	10.0 U	10.0 U
Isophorone	10.0 U	10.0 UJ	10.0 U	10.0 U	10.0 U	50.0 U	10.0 U	10.0 U
2-Nitrophenol	10.0 UJ	R	R	10.0 U	R	50.0 U	R	10.0 U
2,4-Dimethylphenol	10.0 UJ	R	R	10.0 U	R	50.0 U	R	10.0 U
Benzoic Acid	50.0 UJ	R	R	8.0 J	R	250.0 U	R	50.0 U
bis(2-Chloroethoxy)Methane	10.0 U	10.0 UJ	10.0 U	10.0 U	10.0 U	50.0 U	10.0 U	10.0 U
2,4-Dichlorophenol	10.0 UJ	R	R	10.0 U	R	50.0 U	R	10.0 U
1,2,4-Trichlorobenzene	10.0 U	10.0 UJ	10.0 U	10.0 U	10.0 U	50.0 U	10.0 U	10.0 U
Naphthalene	10.0 U	10.0 UJ	10.0 U	10.0 U	10.0 U	50.0 U	10.0 U	10.0 U
4-Chloroaniline	10.0 U	10.0 UJ	10.0 U	10.0 U	10.0 U	50.0 U	10.0 U	10.0 U
Hexachlorobutadiene	10.0 U	10.0 UJ	10.0 U	10.0 U	10.0 U	50.0 U	10.0 U	10.0 U
4-Chloro-3-Methylphenol	10.0 UJ	R	R	10.0 U	R	50.0 U	R	10.0 U
2-Methylnaphthalene	10.0 U	10.0 UJ	10.0 U	10.0 U	10.0 U	50.0 U	10.0 U	10.0 U
Hexachlorocyclopentadiene	10.0 U	10.0 UJ	10.0 U	10.0 U	10.0 U	50.0 U	10.0 U	10.0 U
2,4,6-Trichlorophenol	10.0 UJ	R	R	10.0 U	R	50.0 U	R	10.0 U
2,4,5-Trichlorophenol	50.0 UJ	R	R	50.0 U	R	250.0 U	R	50.0 U
2-Chloronaphthalene	10.0 U	10.0 UJ	10.0 U	10.0 U	10.0 U	50.0 U	10.0 U	10.0 U
2-Nitroaniline	50.0 U	50.0 UJ	50.0 U	50.0 U	50.0 U	250.0 U	50.0 U	50.0 U
Dimethyl Phthalate	10.0 U	10.0 UJ	10.0 U	10.0 U	10.0 U	50.0 U	10.0 U	10.0 U
Acenaphthylene	10.0 U	10.0 UJ	10.0 U	10.0 U	10.0 U	50.0 U	10.0 U	10.0 U
2,6-Dinitrotoluene	10.0 U	10.0 UJ	10.0 U	10.0 U	10.0 U	50.0 U	10.0 U	10.0 U

FOOTNOTES :
* All values in ug/l unless noted otherwise
ug/l (micrograms per liter) = ppb (parts per billion).
J is a data qualifier indicating estimated values (appendix A).
R = Analyte was rejected due to QA/QC.
B = Indicates the analyte was found in the blank. Indicates possible blank contamination.
U = Indicates element was analyzed for but not detected. The number shown is the detection limit.
NR Indicates analysis was not requested.
E = Estimated value due to exceedance of linear calibration range.
D = Denotes analyte quantified at a secondary dilution factor.

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE E-6A
SEMI-VOLATILES 2
GROUND WATER SAMPLE RESULTS - ROUND 1

06/26/90

	CONCENTRATIONS in ug/l								
SAMPLE NUMBER -	GW-1S-01	GW-1D-01	GW-3S-01	GW-3D-01	GW-3D-01BDUP	GW-4S-01	GW-4D-01	GW-5S-01	GW-5D-01
SEMI-VOLATILES 2									
3-Nitroaniline	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U
Acenaphthene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
2,4-Dinitrophenol	R	50.0 U	R	50.0 U	50.0 U	50.0 U	50.0 U	R	50.0 U
4-Nitrophenol	R	50.0 U	R	50.0 U	50.0 U	50.0 U	50.0 U	R	50.0 U
Dibenzofuran	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
2,4-Dinitrotoluene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
Diethylphthalate	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
4-Chlorophenyl-phenylether	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
Fluorene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
4-Nitroaniline	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U
4,6-Dinitro-2-Methylphenol	R	50.0 U	R	50.0 U	50.0 U	50.0 U	50.0 U	R	50.0 U
N-Nitrosodiphenylamine (1)	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
4-Bromophenyl-phenylether	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
Hexachlorobenzene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
Pentachlorophenol	R	50.0 U	R	50.0 U	50.0 U	50.0 U	50.0 U	R	50.0 U
Phenanthrene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
Anthracene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
Di-n-Butylphthalate	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
Fluoranthene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
Pyrene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
Butylbenzylphthalate	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
3,3'-Dichlorobenzidine	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U
Benzo(a)Anthracene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
Chrysene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
bis(2-Ethylhexyl)Phthalate	30.0 U	16.0 U	10.0 U	24.0 U	R	R	12.0	74.0 U	18.0 U
Di-n-Octyl Phthalate	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
Benzo(b)Fluoranthene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
Benzo(k)Fluoranthene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
Benzo(a)Pyrene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
Indeno(1,2,3-cd)Pyrene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
Dibenz(a,h)Anthracene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
Benzo(g,h,i)Perylene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U

FOOTNOTES :
* All values in ug/l unless noted otherwise
ug/l (micrograms per liter) = ppb (parts per billion).
J is a data qualifier indicating estimated values (appendix A).
R = Analyte was rejected due to QA/QC.
B = Indicates the analyte was found in the blank. Indicates possible blank contamination.
U = Indicates element was analyzed for but not detected. The number shown is the detection limit.
NR Indicates analysis was not requested.
E = Estimated value due to exceedance of linear calibration range.
D = Denotes analyte quantified at a secondary dilution factor.
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PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE E-6A (contd)
SEMI-VOLATILES 2
GROUND WATER SAMPLE RESULTS - ROUND 1

06/26/90

	CONCENTRATIONS in ug/l							
SAMPLE NUMBER -	GW-6S-01RE	GW-6D-01	GW-7S-01	GW-7D-01	GW-8S-01	GW-9S-01	GW-10S-01	GW-12S-01
SEMI-VOLATILES 2								
3-Nitroaniline	50.0 U	50.0 UJ	50.0 U	50.0 U	50.0 U	250.0 U	50.0 U	50.0 U
Acenaphthene	10.0 U	10.0 UJ	10.0 U	10.0 U	10.0 U	50.0 U	10.0 U	10.0 U
2,4-Dinitrophenol	50.0 UJ	R	R	50.0 U	R	250.0 U	R	50.0 U
4-Nitrophenol	50.0 UJ	R	R	50.0 U	R	250.0 U	R	50.0 U
Dibenzofuran	10.0 U	10.0 UJ	10.0 U	10.0 U	10.0 U	50.0 U	10.0 U	10.0 U
2,4-Dinitrotoluene	10.0 U	10.0 UJ	10.0 U	10.0 U	10.0 U	50.0 U	10.0 U	10.0 U
Diethylphthalate	10.0 U	10.0 UJ	10.0 U	10.0 U	10.0 U	50.0 U	10.0 U	10.0 U
4-Chlorophenyl-phenylether	10.0 U	10.0 UJ	10.0 U	10.0 U	10.0 U	50.0 U	10.0 U	10.0 U
Fluorene	10.0 U	10.0 UJ	10.0 U	10.0 U	10.0 U	50.0 U	10.0 U	10.0 U
4-Nitroaniline	50.0 U	50.0 UJ	50.0 U	50.0 U	50.0 U	250.0 U	50.0 U	50.0 U
4,6-Dinitro-2-Methylphenol	50.0 UJ	R	R	50.0 U	R	250.0 U	R	50.0 U
N-Nitrosodiphenylamine (1)	10.0 U	10.0 UJ	10.0 U	10.0 U	10.0 U	50.0 U	10.0 U	10.0 U
4-Bromophenyl-phenylether	10.0 U	10.0 UJ	10.0 U	10.0 U	10.0 U	50.0 U	10.0 U	10.0 U
Hexachlorobenzene	10.0 U	10.0 UJ	10.0 U	10.0 U	10.0 U	50.0 U	10.0 U	10.0 U
Pentachlorophenol	50.0 UJ	R	R	50.0 U	R	250.0 U	R	50.0 U
Phenanthrene	10.0 U	10.0 UJ	10.0 U	10.0 U	10.0 U	50.0 U	10.0 U	10.0 U
Anthracene	10.0 U	10.0 UJ	10.0 U	10.0 U	10.0 U	50.0 U	10.0 U	10.0 U
Di-n-Butylphthalate	10.0 U	10.0 UJ	10.0 U	10.0 U	10.0 U	2.0 J	10.0 U	10.0 U
Fluoranthene	10.0 U	10.0 UJ	10.0 U	10.0 U	10.0 U	50.0 U	10.0 U	10.0 U
Pyrene	10.0 U	10.0 UJ	10.0 U	10.0 U	10.0 U	50.0 U	10.0 U	10.0 U
Butylbenzylphthalate	10.0 U	10.0 UJ	10.0 U	10.0 U	150.0 DJ	50.0 U	10.0 U	10.0 U
3,3'-Dichlorobenzidine	20.0 U	20.0 UJ	20.0 U	20.0 U	20.0 U	100.0 U	20.0 U	20.0 U
Benzo(a)Anthracene	10.0 U	10.0 UJ	10.0 U	10.0 U	10.0 U	50.0 U	10.0 U	10.0 U
Chrysene	10.0 U	10.0 UJ	10.0 U	10.0 U	10.0 U	50.0 U	10.0 U	10.0 U
bis(2-Ethylhexyl)Phthalate	25.0	19.0 UJ	29.0 U	11.0	13.0 U	840.0 BJ	19.0 U	10.0 U
Di-n-Octyl Phthalate	10.0 U	10.0 UJ	73.0 J	10.0 U	43.0 DJ	30.0 J	10.0 U	10.0 U
Benzo(b)Fluoranthene	10.0 U	10.0 UJ	10.0 U	10.0 U	10.0 U	50.0 U	10.0 U	10.0 U
Benzo(k)Fluoranthene	10.0 U	10.0 UJ	10.0 U	10.0 U	10.0 U	50.0 U	10.0 U	10.0 U
Benzo(a)Pyrene	10.0 U	10.0 UJ	10.0 U	10.0 U	10.0 U	50.0 U	10.0 U	10.0 U
Indeno(1,2,3-cd)Pyrene	10.0 U	10.0 UJ	10.0 U	10.0 U	10.0 U	50.0 U	10.0 U	10.0 U
Dibenz(a,h)Anthracene	10.0 U	10.0 UJ	10.0 U	10.0 U	10.0 U	50.0 U	10.0 U	10.0 U
Benzo(g,h,i)Perylene	10.0 U	10.0 UJ	10.0 U	10.0 U	10.0 U	50.0 U	10.0 U	10.0 U

FOOTNOTES :
* All values in ug/l unless noted otherwise
ug/l (micrograms per liter) = ppb (parts per billion).
J is a data qualifier indicating estimated values (appendix A).
R = Analyte was rejected due to QA/QC.
B = Indicates the analyte was found in the blank. Indicates possible blank contamination.
U = Indicates element was analyzed for but not detected. The number shown is the detection limit.
NR Indicates analysis was not requested.
E = Estimated value due to exceedance of linear calibration range.
D = Denotes analyte quantified at a secondary dilution factor.
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PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE E-6B
SEMI-VOLATILES 1
GROUND WATER SAMPLE RESULTS - ROUND 2

06/26/90

	CONCENTRATIONS in ug/l								
SAMPLE NUMBER -	GW-1S-02	GW-1D-02	GW-2S-02	GW-2D-02	GW-3S-02	GW-3D-02	GW-4S-02	GW-4D-02	GW-5S-02
SEMI-VOLATILES 1									
Phenol	10.0 U	10.0 U	R	R	R	R	R	10.0 U	R
bis(2-Chloroethyl)Ether	10.0 U	10.0 U	10.0 UJ	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
2-Chlorophenol	10.0 U	10.0 U	R	R	R	R	R	10.0 U	R
1,3-Dichlorobenzene	10.0 U	10.0 U	10.0 UJ	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
1,4-Dichlorobenzene	10.0 U	10.0 U	10.0 UJ	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
Benzyl Alcohol	10.0 U	10.0 U	10.0 UJ	10.0 UJ	10.0 U	10.0 U	10.0 UJ	10.0 U	10.0 U
1,2-Dichlorobenzene	10.0 U	10.0 U	10.0 UJ	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
2-Methylphenol	10.0 U	10.0 U	R	R	R	R	R	10.0 U	R
bis(2-Chloroisopropyl)Ether	10.0 U	10.0 U	10.0 UJ	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
4-Methylphenol	10.0 U	10.0 U	R	R	R	R	R	10.0 U	R
N-Nitroso-Di-n-Propylamine	10.0 U	10.0 U	10.0 UJ	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
Hexachloroethane	10.0 U	10.0 U	10.0 UJ	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
Nitrobenzene	10.0 U	10.0 U	10.0 UJ	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
Isophorone	10.0 U	10.0 U	10.0 UJ	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
2-Nitrophenol	10.0 U	10.0 U	R	R	R	R	R	10.0 U	R
2,4-Dimethylphenol	10.0 U	10.0 U	R	R	R	R	R	10.0 U	R
Benzoic Acid	50.0 U	50.0 U	R	R	R	R	R	50.0 U	R
bis(2-Chloroethoxy)Methane	10.0 U	10.0 U	10.0 UJ	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
2,4-Dichlorophenol	10.0 U	10.0 U	R	R	R	R	R	10.0 U	R
1,2,4-Trichlorobenzene	10.0 U	10.0 U	10.0 UJ	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
Naphthalene	10.0 U	10.0 U	10.0 UJ	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
4-Chloroaniline	10.0 U	10.0 U	10.0 UJ	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
Hexachlorobutadiene	10.0 U	10.0 U	10.0 UJ	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
4-Chloro-3-Methylphenol	10.0 U	10.0 U	R	R	R	R	R	10.0 U	R
2-Methylnaphthalene	10.0 U	10.0 U	10.0 UJ	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
Hexachlorocyclopentadiene	10.0 U	10.0 U	10.0 UJ	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
2,4,6-Trichlorophenol	10.0 U	10.0 U	R	R	R	R	R	10.0 U	R
2,4,5-Trichlorophenol	50.0 U	50.0 U	R	R	R	R	R	50.0 U	R
2-Chloronaphthalene	10.0 U	10.0 U	10.0 UJ	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
2-Nitroaniline	50.0 U	50.0 U	50.0 UJ	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U
Dimethyl Phthalate	10.0 U	10.0 U	10.0 UJ	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
Acenaphthylene	10.0 U	10.0 U	10.0 UJ	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
2,6-Dinitrotoluene	10.0 U	10.0 U	10.0 UJ	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U

FOOTNOTES :
* All values in ug/l unless noted otherwise
ug/l (micrograms per liter) = ppb (parts per billion).
J is a data qualifier indicating estimated values (appendix A).
R = Analyte was rejected due to QA/QC.
B = Indicates the analyte was found in the blank. Indicates possible blank contamination.
U = Indicates element was analyzed for but not detected. The number shown is the detection limit.
NR Indicates analysis was not requested.
E = Estimated value due to exceedance of linear calibration range.
D = Denotes analyte quantified at a secondary dilution factor.

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE E-6B (contd)
SEMI-VOLATILES 1
GROUND WATER SAMPLE RESULTS - ROUND 2

06/26/90

	CONCENTRATIONS in ug/l								
SAMPLE NUMBER -	GW-5D-02	GW-6S-02	GW-6D-02	GW-7S-02	GW-7D-02	GW-8S-02	GW-9S-02	GW-10S-02	GW-11S-02
SEMI-VOLATILES 1									
Phenol	10.0 U	R	10.0 U	R	10.0 U	R	R	20.0 U	20.0 U
bis(2-Chloroethyl)Ether	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	20.0 U	20.0 U
2-Chlorophenol	10.0 U	R	10.0 U	R	10.0 U	R	R	20.0 U	20.0 U
1,3-Dichlorobenzene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	20.0 U	20.0 U
1,4-Dichlorobenzene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	20.0 U	20.0 U
Benzyl Alcohol	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 UJ	10.0 UJ	20.0 UJ	20.0 U
1,2-Dichlorobenzene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	20.0 U	20.0 U
2-Methylphenol	10.0 U	R	10.0 U	R	10.0 U	R	R	20.0 U	20.0 U
bis(2-Chloroisopropyl)Ether	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	20.0 U	20.0 U
4-Methylphenol	10.0 U	R	10.0 U	R	10.0 U	R	R	20.0 U	20.0 U
N-Nitroso-Di-n-Propylamine	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	20.0 U	20.0 U
Hexachloroethane	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	20.0 U	20.0 U
Nitrobenzene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	20.0 U	20.0 U
Isophorone	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	20.0 U	20.0 U
2-Nitrophenol	10.0 U	R	10.0 U	R	10.0 U	R	R	20.0 U	20.0 U
2,4-Dimethylphenol	10.0 U	R	10.0 U	R	10.0 U	R	R	20.0 U	20.0 U
Benzoic Acid	50.0 U	R	50.0 U	R	50.0 U	R	R	100.0 U	100.0 U
bis(2-Chloroethoxy)Methane	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	20.0 U	20.0 U
2,4-Dichlorophenol	10.0 U	R	10.0 U	R	10.0 U	R	R	20.0 U	20.0 U
1,2,4-Trichlorobenzene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	20.0 U	20.0 U
Naphthalene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	20.0 U	20.0 U
4-Chloroaniline	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	20.0 U	20.0 U
Hexachlorobutadiene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	20.0 U	20.0 U
4-Chloro-3-Methylphenol	10.0 U	R	10.0 U	R	10.0 U	R	R	20.0 U	20.0 U
2-Methylnaphthalene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	20.0 U	20.0 U
Hexachlorocyclopentadiene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	20.0 U	20.0 U
2,4,6-Trichlorophenol	10.0 U	R	10.0 U	R	10.0 U	R	R	20.0 U	20.0 U
2,4,5-Trichlorophenol	50.0 U	R	50.0 U	R	50.0 U	R	R	100.0 UJ	100.0 U
2-Chloronaphthalene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	20.0 U	20.0 U
2-Nitroaniline	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	100.0 U	100.0 U
Dimethyl Phthalate	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	20.0 U	20.0 U
Acenaphthylene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	20.0 U	20.0 U
2,6-Dinitrotoluene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	20.0 U	20.0 U

FOOTNOTES :
* All values in ug/l unless noted otherwise
ug/l (micrograms per liter) = ppb (parts per billion).
J is a data qualifier indicating estimated values (appendix A).
R = Analyte was rejected due to QA/QC.
B = Indicates the analyte was found in the blank. Indicates possible blank contamination.
U = Indicates element was analyzed for but not detected. The number shown is the detection limit.
NR Indicates analysis was not requested.
E = Estimated value due to exceedance of linear calibration range.
D = Denotes analyte quantified at a secondary dilution factor.
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PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE E-6B (contd)
SEMI-VOLATILES 1
GROUND WATER SAMPLE RESULTS - ROUND 2

06/26/90

	CONCENTRATIONS in ug/l							
SAMPLE NUMBER -	GW-12S-02	GW-13S-02	GW-14S-02	GW-14S-02DUP	GW-15S-02	GW-16S-02	GW-16S-02DL	GW-17S-02
SEMI-VOLATILES 1								
Phenol	R	10.0 U	20.0 U	6.0 J	R	20.0 U	100.0 U	4000.0 D
bis(2-Chloroethyl)Ether	10.0 U	10.0 U	20.0 U	10.0 UJ	20.0 U	20.0 UJ	100.0 U	100.0 U
2-Chlorophenol	R	10.0 U	20.0 U	10.0 U	R	13.0 J	100.0 U	100.0 U
1,3-Dichlorobenzene	10.0 U	10.0 U	20.0 U	10.0 UJ	20.0 U	20.0 U	100.0 U	100.0 U
1,4-Dichlorobenzene	10.0 U	10.0 U	20.0 U	2.0 J	20.0 U	38.0 J	100.0 U	100.0 U
Benzyl Alcohol	10.0 UJ	10.0 U	20.0 U	10.0 UJ	20.0 U	20.0 UJ	100.0 U	100.0 U
1,2-Dichlorobenzene	10.0 U	10.0 U	20.0 U	10.0 UJ	20.0 U	4.0 J	100.0 U	100.0 U
2-Methylphenol	R	10.0 U	20.0 U	10.0 U	R	20.0 U	100.0 U	72.0 J
bis(2-Chloroisopropyl)Ether	10.0 U	10.0 U	20.0 U	10.0 UJ	20.0 U	20.0 UJ	100.0 U	100.0 U
4-Methylphenol	R	10.0 U	20.0 U	10.0 U	R	20.0 U	100.0 U	75.0 J
N-Nitroso-Di-n-Propylamine	10.0 U	10.0 U	20.0 U	10.0 UJ	20.0 U	20.0 UJ	100.0 U	100.0 U
Hexachloroethane	10.0 U	10.0 U	20.0 U	10.0 UJ	20.0 U	20.0 UJ	100.0 U	100.0 U
Nitrobenzene	10.0 U	10.0 U	20.0 U	10.0 UJ	20.0 U	20.0 UJ	100.0 U	100.0 U
Isophorone	10.0 U	10.0 U	20.0 U	10.0 UJ	20.0 U	20.0 UJ	100.0 U	100.0 U
2-Nitrophenol	R	10.0 U	20.0 U	10.0 U	R	20.0 U	100.0 U	100.0 U
2,4-Dimethylphenol	R	10.0 U	20.0 U	10.0 U	R	860.0 E	940.0 D	630.0
Benzoic Acid	R	50.0 U	100.0 U	50.0 U	R	100.0 U	500.0 U	500.0 UJ
bis(2-Chloroethoxy)Methane	10.0 U	10.0 U	20.0 U	10.0 UJ	20.0 U	20.0 UJ	100.0 U	100.0 U
2,4-Dichlorophenol	R	10.0 U	20.0 U	10.0 U	R	20.0 U	100.0 U	100.0 U
1,2,4-Trichlorobenzene	10.0 U	10.0 U	20.0 U	10.0 UJ	20.0 U	20.0 UJ	100.0 U	100.0 U
Naphthalene	10.0 U	10.0 U	20.0 U	10.0 UJ	20.0 U	20.0 UJ	100.0 U	100.0 U
4-Chloroaniline	10.0 U	10.0 U	20.0 U	10.0 UJ	20.0 U	20.0 UJ	100.0 U	100.0 U
Hexachlorobutadiene	10.0 U	10.0 U	20.0 U	10.0 UJ	20.0 U	20.0 UJ	100.0 U	100.0 U
4-Chloro-3-Methylphenol	R	10.0 U	20.0 U	10.0 U	R	20.0 U	100.0 U	100.0 U
2-Methylnaphthalene	10.0 U	10.0 U	20.0 U	10.0 UJ	20.0 U	20.0 UJ	100.0 U	100.0 U
Hexachlorocyclopentadiene	10.0 U	10.0 U	20.0 U	10.0 UJ	20.0 U	20.0 UJ	100.0 U	100.0 U
2,4,6-Trichlorophenol	R	10.0 U	20.0 U	10.0 U	R	20.0 U	100.0 U	100.0 U
2,4,5-Trichlorophenol	R	50.0 U	100.0 U	50.0 U	R	100.0 U	500.0 UJ	500.0 U
2-Chloronaphthalene	10.0 U	10.0 U	20.0 U	10.0 UJ	20.0 U	20.0 UJ	100.0 U	100.0 U
2-Nitroaniline	50.0 U	50.0 U	100.0 U	50.0 UJ	100.0 U	100.0 UJ	500.0 U	500.0 U
Dimethyl Phthalate	10.0 U	10.0 U	20.0 U	10.0 UJ	20.0 U	20.0 UJ	100.0 U	100.0 U
Acenaphthylene	10.0 U	10.0 U	20.0 U	10.0 UJ	20.0 U	20.0 UJ	100.0 U	100.0 U
2,6-Dinitrotoluene	10.0 U	10.0 U	20.0 U	10.0 UJ	20.0 U	20.0 UJ	100.0 U	100.0 U

FOOTNOTES :
* All values in ug/l unless noted otherwise
ug/l (micrograms per liter) = ppb (parts per billion).
J is a data qualifier indicating estimated values (appendix A).
R = Analyte was rejected due to QA/QC.
B = Indicates the analyte was found in the blank. Indicates possible blank contamination.
U = Indicates element was analyzed for but not detected. The number shown is the detection limit.
NR Indicates analysis was not requested.
E = Estimated value due to exceedance of linear calibration range.
D = Denotes analyte quantified at a secondary dilution factor.

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE E-6B
SEMI-VOLATILES 2
GROUND WATER SAMPLE RESULTS - ROUND 2

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	CONCENTRATIONS in ug/l								
SAMPLE NUMBER -	GW-1S-02	GW-1D-02	GW-2S-02	GW-2D-02	GW-3S-02	GW-3D-02	GW-4S-02	GW-4D-02	GW-5S-02
SEMI-VOLATILES 2									
3-Nitroaniline	50.0 U	50.0 U	R	R	50.0 U	50.0 U	R	50.0 U	50.0 U
Acenaphthene	10.0 U	10.0 U	10.0 UJ	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
2,4-Dinitrophenol	50.0 U	50.0 U	R	R	R	R	R	50.0 U	R
4-Nitrophenol	50.0 U	50.0 U	R	R	R	R	R	50.0 U	R
Dibenzofuran	10.0 U	10.0 U	10.0 UJ	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
2,4-Dinitrotoluene	10.0 U	10.0 U	10.0 UJ	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
Diethylphthalate	10.0 U	10.0 U	10.0 UJ	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
4-Chlorophenyl-phenylether	10.0 U	10.0 U	10.0 UJ	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
Fluorene	10.0 U	10.0 U	10.0 UJ	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
4-Nitroaniline	50.0 U	50.0 U	R	R	50.0 U	50.0 U	R	50.0 U	50.0 U
4,6-Dinitro-2-Methylphenol	50.0 U	50.0 U	R	R	R	R	R	50.0 U	R
N-Nitrosodiphenylamine (1)	10.0 U	10.0 U	10.0 UJ	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
4-Bromophenyl-phenylether	10.0 U	10.0 U	10.0 UJ	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
Hexachlorobenzene	10.0 U	10.0 U	10.0 UJ	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
Pentachlorophenol	50.0 U	50.0 U	R	R	R	R	R	50.0 U	R
Phenanthrene	10.0 U	10.0 U	10.0 UJ	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
Anthracene	10.0 U	10.0 U	10.0 UJ	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
Di-n-Butylphthalate	10.0 U	10.0 U	10.0 UJ	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
Fluoranthene	10.0 U	10.0 U	10.0 UJ	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
Pyrene	10.0 U	10.0 U	10.0 UJ	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
Butylbenzylphthalate	10.0 U	10.0 U	10.0 UJ	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
3,3'-Dichlorobenzidine	20.0 U	20.0 U	R	R	20.0 U	20.0 U	R	20.0 U	20.0 U
Benzo(a)Anthracene	10.0 U	10.0 U	10.0 UJ	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
Chrysene	10.0 U	10.0 U	10.0 UJ	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
bis(2-Ethylhexyl)Phthalate	4.0 J	3.0 J	10.0 UJ	12.0	66.0 J	24.0 J	3.0 J	8.0 J	21.0 J
Di-n-Octyl Phthalate	10.0 U	10.0 U	10.0 UJ	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
Benzo(b)Fluoranthene	10.0 U	10.0 U	10.0 UJ	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
Benzo(k)Fluoranthene	10.0 U	10.0 U	10.0 UJ	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
Benzo(a)Pyrene	10.0 U	10.0 U	10.0 UJ	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
Indeno(1,2,3-cd)Pyrene	10.0 U	10.0 U	10.0 UJ	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
Dibenz(a,h)Anthracene	10.0 U	10.0 U	10.0 UJ	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
Benzo(g,h,i)Perylene	10.0 U	10.0 U	10.0 UJ	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U

FOOTNOTES :
* All values in ug/l unless noted otherwise
ug/l (micrograms per liter) = ppb (parts per billion).
J is a data qualifier indicating estimated values (appendix A).
R = Analyte was rejected due to QA/QC.
B = Indicates the analyte was found in the blank. Indicates possible blank contamination.
U = Indicates element was analyzed for but not detected. The number shown is the detection limit.
NR Indicates analysis was not requested.
E = Estimated value due to exceedance of linear calibration range.
D = Denotes analyte quantified at a secondary dilution factor.

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE E-6B (contd)
SEMI-VOLATILES 2
GROUND WATER SAMPLE RESULTS - ROUND 2
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	CONCENTRATIONS in ug/l								
SAMPLE NUMBER -	GW-5D-02	GW-6S-02	GW-6D-02	GW-7S-02	GW-7D-02	GW-8S-02	GW-9S-02	GW-10S-02	GW-11S-02
SEMI-VOLATILES 2									
3-Nitroaniline	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	R	R	R	100.0 U
Acenaphthene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	20.0 U	20.0 U
2,4-Dinitrophenol	50.0 U	R	50.0 U	R	50.0 U	R	R	100.0 U	100.0 U
4-Nitrophenol	50.0 U	R	50.0 U	R	50.0 U	R	R	R	100.0 U
Dibenzofuran	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	20.0 U	20.0 U
2,4-Dinitrotoluene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	20.0 U	20.0 U
Diethylphthalate	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	20.0 U	20.0 U
4-Chlorophenyl-phenylether	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	20.0 U	20.0 U
Fluorene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	20.0 U	20.0 U
4-Nitroaniline	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	R	R	R	100.0 U
4,6-Dinitro-2-Methylphenol	50.0 U	R	50.0 U	R	50.0 U	R	R	100.0 U	100.0 U
N-Nitrosodiphenylamine (1)	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	20.0 U	20.0 U
4-Bromophenyl-phenylether	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	20.0 U	20.0 U
Hexachlorobenzene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	20.0 U	20.0 U
Pentachlorophenol	50.0 U	R	50.0 U	R	50.0 U	R	R	100.0 U	100.0 U
Phenanthrene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	20.0 U	20.0 U
Anthracene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	20.0 U	20.0 U
Di-n-Butylphthalate	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	20.0 U	20.0 U
Fluoranthene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	20.0 U	20.0 U
Pyrene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	20.0 U	20.0 U
Butylbenzylphthalate	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	20.0 U	20.0 U
3,3'-Dichlorobenzidine	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	R	R	R	40.0 U
Benzo(a)Anthracene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	20.0 U	20.0 U
Chrysene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	20.0 U	20.0 U
bis(2-Ethylhexyl)Phthalate	7.0 J	10.0 U	3.0 J	10.0 U	42.0 J	9.0 J	10.0 U	20.0 U	4.0 J
Di-n-Octyl Phthalate	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	20.0 U	20.0 U
Benzo(b)Fluoranthene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	20.0 U	20.0 U
Benzo(k)Fluoranthene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	20.0 U	20.0 U
Benzo(a)Pyrene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	20.0 U	20.0 U
Indeno(1,2,3-cd)Pyrene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	20.0 U	20.0 U
Dibenz(a,h)Anthracene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	20.0 U	20.0 U
Benzo(g,h,i)Perylene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	20.0 U	20.0 U

FOOTNOTES :
* All values in ug/l unless noted otherwise
ug/l (micrograms per liter) = ppb (parts per billion).
J is a data qualifier indicating estimated values (appendix A).
R = Analyte was rejected due to QA/QC.
B = Indicates the analyte was found in the blank. Indicates possible blank contamination.
U = Indicates element was analyzed for but not detected. The number shown is the detection limit.
NR Indicates analysis was not requested.
E = Estimated value due to exceedance of linear calibration range.
D = Denotes analyte quantified at a secondary dilution factor.

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE E-68 (contd)
SEMI-VOLATILES 2
GROUND WATER SAMPLE RESULTS - ROUND 2

06/26/90

	CONCENTRATIONS in ug/l							
SAMPLE NUMBER -	GW-12S-02	GW-13S-02	GW-14S-02	GW-14S-02DUP	GW-15S-02	GW-16S-02	GW-16S-02DL	GW-17S-02
SEMI-VOLATILES 2								
3-Nitroaniline	R	50.0 U	100.0 U	50.0 UJ	100.0 U	100.0 UJ	500.0 U	500.0 U
Acenaphthene	10.0 U	10.0 U	20.0 U	10.0 UJ	20.0 U	20.0 UJ	100.0 U	100.0 U
2,4-Dinitrophenol	R	50.0 U	100.0 U	50.0 U	R	100.0 U	500.0 U	500.0 U
4-Nitrophenol	R	50.0 U	100.0 U	50.0 U	R	100.0 U	500.0 U	500.0 U
Dibenzofuran	10.0 U	10.0 U	20.0	15.0 J	20.0 U	20.0 UJ	100.0 U	100.0 U
2,4-Dinitrotoluene	10.0 U	10.0 U	20.0 U	10.0 UJ	20.0 U	20.0 UJ	100.0 U	100.0 U
Diethylphthalate	10.0 U	10.0 U	20.0 U	10.0 UJ	20.0 U	20.0 UJ	100.0 U	100.0 U
4-Chlorophenyl-phenylether	10.0 U	10.0 U	20.0 U	10.0 UJ	20.0 U	20.0 UJ	100.0 U	100.0 U
Fluorene	10.0 U	10.0 U	20.0 U	10.0 UJ	20.0 U	20.0 UJ	100.0 U	100.0 U
4-Nitroaniline	R	50.0 U	100.0 U	50.0 UJ	100.0 U	100.0 UJ	500.0 U	500.0 UJ
4,6-Dinitro-2-Methylphenol	R	50.0 U	100.0 U	50.0 U	R	100.0 U	500.0 U	500.0 U
N-Nitrosodiphenylamine (1)	10.0 U	10.0 U	20.0 U	10.0 UJ	20.0 U	20.0 UJ	100.0 U	100.0 U
4-Bromophenyl-phenylether	10.0 U	10.0 U	20.0 U	10.0 UJ	20.0 U	20.0 UJ	100.0 U	100.0 U
Hexachlorobenzene	10.0 U	10.0 U	20.0 U	10.0 UJ	20.0 U	20.0 UJ	100.0 U	100.0 U
Pentachlorophenol	R	50.0 U	100.0 U	50.0 U	R	100.0 U	500.0 U	500.0 U
Phenanthrene	10.0 U	10.0 U	20.0 U	10.0 UJ	20.0 U	20.0 UJ	100.0 U	100.0 U
Anthracene	10.0 U	10.0 U	20.0 U	10.0 UJ	20.0 U	20.0 UJ	100.0 U	100.0 U
Di-n-Butylphthalate	10.0 U	10.0 U	20.0 U	10.0 UJ	20.0 U	20.0 UJ	100.0 U	100.0 U
Fluoranthene	10.0 U	10.0 U	20.0 U	10.0 UJ	20.0 U	20.0 UJ	100.0 U	100.0 U
Pyrene	10.0 U	10.0 U	20.0 U	10.0 UJ	20.0 U	20.0 UJ	100.0 U	100.0 U
Butylbenzylphthalate	10.0 U	10.0 U	20.0 U	10.0 UJ	20.0 U	20.0 UJ	100.0 U	100.0 U
3,3'-Dichlorobenzidine	R	20.0 U	40.0 U	20.0 UJ	40.0 U	40.0 UJ	200.0 U	200.0 U
Benzo(a)Anthracene	10.0 U	10.0 U	20.0 U	10.0 UJ	20.0 U	20.0 UJ	100.0 U	100.0 U
Chrysene	10.0 U	10.0 U	20.0 U	10.0 UJ	20.0 U	20.0 UJ	100.0 U	100.0 U
bis(2-Ethylhexyl)Phthalate	5.0 J	3.0 J	20.0 U	10.0 UJ	26.0 J	20.0 UJ	100.0 U	100.0 U
Di-n-Octyl Phthalate	10.0 U	10.0 U	20.0 U	10.0 UJ	20.0 U	20.0 UJ	100.0 U	100.0 U
Benzo(b)Fluoranthene	10.0 U	10.0 U	20.0 U	10.0 UJ	20.0 U	20.0 UJ	100.0 U	100.0 U
Benzo(k)Fluoranthene	10.0 U	10.0 U	20.0 U	10.0 UJ	20.0 U	20.0 UJ	100.0 U	100.0 U
Benzo(a)Pyrene	10.0 U	10.0 U	20.0 U	10.0 UJ	20.0 U	20.0 UJ	100.0 U	100.0 U
Indeno(1,2,3-cd)Pyrene	10.0 U	10.0 U	20.0 U	10.0 UJ	20.0 U	20.0 UJ	100.0 U	100.0 U
Dibenz(a,h)Anthracene	10.0 U	10.0 U	20.0 U	10.0 UJ	20.0 U	20.0 UJ	100.0 U	100.0 U
Benzo(g,h,i)Perylene	10.0 U	10.0 U	20.0 U	10.0 UJ	20.0 U	20.0 UJ	100.0 U	100.0 U

FOOTNOTES :
* All values in ug/l unless noted otherwise
ug/l (micrograms per liter) = ppb (parts per billion).
J is a data qualifier indicating estimated values (appendix A).
R = Analyte was rejected due to QA/QC.
B = Indicates the analyte was found in the blank. Indicates possible blank contamination.
U = Indicates element was analyzed for but not detected. The number shown is the detection limit.
NR Indicates analysis was not requested.
E = Estimated value due to exceedance of linear calibration range.
D = Denotes analyte quantified at a secondary dilution factor.

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE E-7A
PESTICIDES/PCBs
GROUND WATER SAMPLE RESULTS - ROUND 1

06/26/90

SAMPLE NUMBER -	CONCENTRATIONS in ug/l								
	GW-1S-01	GW-1D-01	GW-3S-01	GW-3D-01	GW-3D-01BDUP	GW-4S-01	GW-4D-01	GW-5S-01	GW-5D-01
PESTICIDES/PCBs									
alpha-BHC	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.05 UJ	0.05 U	0.25 UJ	0.05 U	0.05 U
beta-BHC	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.05 UJ	0.05 U	0.25 UJ	0.05 U	0.05 U
delta-BHC	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.05 UJ	0.05 U	0.25 UJ	0.05 U	0.05 U
gamma-BHC (Lindane)	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.05 UJ	0.05 U	0.25 UJ	0.05 U	0.05 U
Heptachlor	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.05 UJ	0.05 U	0.25 UJ	0.05 U	0.05 U
Aldrin	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.05 UJ	0.05 U	0.25 UJ	0.05 U	0.05 U
Heptachlor epoxide	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.05 UJ	0.05 U	0.25 UJ	0.05 U	0.05 U
Endosulfan I	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.05 UJ	0.05 U	0.25 UJ	0.05 U	0.05 U
Dieldrin	0.10 U	0.10 U	0.10 UJ	0.10 UJ	0.10 UJ	0.10 U	0.50 UJ	0.10 U	0.10 U
4,4'-DDE	0.10 U	0.10 U	0.10 UJ	0.10 UJ	0.10 UJ	0.10 U	0.50 UJ	0.10 U	0.10 U
Endrin	0.10 U	0.10 U	0.10 UJ	0.10 UJ	0.10 UJ	0.10 U	0.50 UJ	0.10 U	0.10 U
Endosulfan II	0.10 U	0.10 U	0.10 UJ	0.10 UJ	0.10 UJ	0.10 U	0.50 UJ	0.10 U	0.10 U
4,4'-DDD	0.10 U	0.10 U	0.10 UJ	0.10 UJ	0.10 UJ	0.10 U	0.50 UJ	0.10 U	0.10 U
Endosulfan sulfate	0.10 U	0.10 U	0.10 UJ	0.10 UJ	0.10 UJ	0.10 U	0.50 UJ	0.10 U	0.10 U
4,4'-DDT	0.10 U	0.10 U	0.10 UJ	0.10 UJ	0.10 UJ	0.10 U	0.50 UJ	0.10 U	0.10 U
Methoxychlor	0.50 U	0.50 U	0.50 UJ	0.50 UJ	0.50 UJ	0.50 U	2.50 UJ	0.50 U	0.50 U
Endrin ketone	0.10 U	0.10 U	0.10 UJ	0.10 UJ	0.10 UJ	0.10 U	0.50 UJ	0.10 U	0.10 U
alpha-Chlordane	0.50 U	0.50 U	0.50 UJ	0.50 UJ	0.50 UJ	0.50 U	2.50 UJ	0.50 U	0.50 U
gamma-Chlordane	0.50 U	0.50 U	0.50 UJ	0.50 UJ	0.50 UJ	0.50 U	2.50 UJ	0.50 U	0.50 U
Toxaphene	1.00 U	1.00 U	1.00 UJ	1.00 UJ	1.00 UJ	1.00 U	5.00 UJ	1.00 U	1.00 U
Aroclor-1016	0.50 U	0.05 U	0.50 UJ	0.50 UJ	0.50 UJ	0.50 U	2.50 UJ	0.50 U	0.50 U
Aroclor-1221	0.50 U	0.05 U	0.50 UJ	0.50 UJ	0.50 UJ	0.50 U	2.50 UJ	0.50 U	0.50 U
Aroclor-1232	0.50 U	0.05 U	0.50 UJ	0.50 UJ	0.50 UJ	0.50 U	2.50 UJ	0.50 U	0.50 U
Aroclor-1242	0.50 U	0.05 U	0.50 UJ	0.50 UJ	0.50 UJ	0.50 U	2.50 UJ	0.50 U	0.50 U
Aroclor-1248	0.50 U	0.05 U	0.50 UJ	0.50 UJ	0.50 UJ	0.50 U	2.50 UJ	0.50 U	0.50 U
Aroclor-1254	1.00 U	1.00 U	1.00 UJ	1.00 UJ	1.00 UJ	1.00 U	5.00 UJ	1.00 U	1.00 U
Aroclor-1260	1.00 U	1.00 U	1.00 UJ	1.00 UJ	1.00 UJ	1.00 U	5.00 UJ	1.00 U	1.00 U

FOOTNOTES :
* All values in ug/l unless noted otherwise
ug/l (micrograms per liter) = ppb (parts per billion).
J is a data qualifier indicating estimated values (appendix A).
R = Analyte was rejected due to QA/QC.
B = Indicates the analyte was found in the blank. Indicates possible blank contamination.
U = Indicates element was analyzed for but not detected. The number shown is the detection limit.
NR Indicates analysis was not requested.
E = Estimated value due to exceedance of linear calibration range.
D = Denotes analyte quantified at a secondary dilution factor.

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE E-7A (contd)
PESTICIDES/PCBs
GROUND WATER SAMPLE RESULTS - ROUND 1

06/26/90

	CONCENTRATIONS in ug/l							
SAMPLE NUMBER -	GW-6S-01	GW-6D-01	GW-7S-01	GW-7D-01	GW-8S-01	GW-9S-01	GW-10S-01	GW-12S-01
PESTICIDES/PCBs								
alpha-BHC	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 U
beta-BHC	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 U
delta-BHC	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 U
gamma-BHC (Lindane)	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 U
Heptachlor	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 U
Aldrin	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 U
Heptachlor epoxide	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 U
Endosulfan I	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 U
Dieldrin	0.10 U	0.10 U	0.10 U	0.10 UJ	0.10 U	0.10 U	0.10 U	0.10 U
4,4'-DDE	0.10 U	0.10 U	0.10 U	0.10 UJ	0.10 U	0.10 U	0.10 U	0.10 U
Endrin	0.10 U	0.10 U	0.10 U	0.10 UJ	0.10 U	0.10 U	0.10 U	0.10 U
Endosulfan II	0.10 U	0.10 U	0.10 U	0.10 UJ	0.10 U	0.10 U	0.10 U	0.10 U
4,4'-DDD	0.10 U	0.10 U	0.10 U	0.10 UJ	0.10 U	0.10 U	0.10 U	0.10 U
Endosulfan sulfate	0.10 U	0.10 U	0.10 U	0.10 UJ	0.10 U	0.10 U	0.10 U	0.10 U
4,4'-DDT	0.10 U	0.10 U	0.10 U	0.10 UJ	0.10 U	0.10 U	0.10 U	0.10 U
Methoxychlor	0.50 U	0.50 U	0.50 U	0.50 UJ	0.50 U	0.50 U	0.10 U	0.50 U
Endrin ketone	0.10 U	0.10 U	0.10 U	0.10 UJ	0.10 U	0.10 U	0.50 U	0.10 U
alpha-Chlordane	0.50 U	0.50 U	0.50 U	0.50 UJ	0.50 U	0.50 U	0.10 U	0.50 U
gamma-Chlordane	0.50 U	0.50 U	0.50 U	0.50 UJ	0.50 U	0.50 U	0.50 U	0.50 U
Toxaphene	1.00 U	1.00 U	1.00 U	1.00 UJ	1.00 U	1.00 U	0.50 U	1.00 U
Aroclor-1016	0.50 U	0.50 U	0.50 U	0.50 UJ	0.50 U	0.50 U	1.00 U	0.50 U
Aroclor-1221	0.50 U	0.50 U	0.50 U	0.50 UJ	0.50 U	0.50 U	0.50 U	0.50 U
Aroclor-1232	0.50 U	0.50 U	0.50 U	0.50 UJ	0.50 U	0.50 U	0.50 U	0.50 U
Aroclor-1242	0.50 U	0.50 U	0.50 U	0.50 UJ	0.50 U	0.50 U	0.50 U	0.50 U
Aroclor-1248	0.50 U	0.50 U	0.50 U	0.50 UJ	0.50 U	0.50 U	0.50 U	0.50 U
Aroclor-1254	1.00 U	1.00 U	1.00 U	1.00 UJ	1.00 U	1.00 U	0.50 U	1.00 U
Aroclor-1260	1.00 U	1.00 U	1.00 U	1.00 UJ	1.00 U	1.00 U	1.00 U	1.00 U

FOOTNOTES :
* All values in ug/l unless noted otherwise
ug/l (micrograms per liter) = ppb (parts per billion).
J is a data qualifier indicating estimated values (appendix A).
R = Analyte was rejected due to QA/QC.
B = Indicates the analyte was found in the blank. Indicates possible blank contamination.
U = Indicates element was analyzed for but not detected. The number shown is the detection limit.
NR Indicates analysis was not requested.
E = Estimated value due to exceedance of linear calibration range.
D = Denotes analyte quantified at a secondary dilution factor.

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE E-7B
PESTICIDES/PCBs
GROUND WATER SAMPLE RESULTS - ROUND 2

06/26/90

	CONCENTRATIONS in ug/l								
SAMPLE NUMBER -	GW-1S-02	GW-1D-02	GW-2S-02	GW-2D-02	GW-3S-02	GW-3D-02	GW-4S-02	GW-4D-02	GW-5S-02
PESTICIDES/PCBs									
alpha-BHC	0.05 U	R	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	R	0.05 U
beta-BHC	0.05 U	R	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	R	0.05 U
delta-BHC	0.05 U	R	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	R	0.05 U
gamma-BHC (Lindane)	0.05 U	R	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	R	0.05 U
Heptachlor	0.05 U	R	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	R	0.05 U
Aldrin	0.05 U	R	0.05 U	0.05 J	0.05 U	0.05 U	0.05 UJ	R	0.05 U
Heptachlor epoxide	0.05 U	R	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	R	0.05 U
Endosulfan I	0.05 U	R	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	R	0.05 U
Dieldrin	0.10 U	R	0.10 U	0.10 U	0.10 U	0.10 U	0.10 UJ	R	0.10 U
4,4'-DDE	0.10 U	R	0.10 U	0.10 U	0.10 U	0.10 U	0.10 UJ	R	0.10 U
Endrin	0.10 U	R	0.10 U	0.10 U	0.10 U	0.10 U	0.10 UJ	R	0.10 U
Endosulfan II	0.10 U	R	0.10 U	0.10 U	0.10 U	0.10 U	0.10 UJ	R	0.10 U
4,4'-DDD	0.10 U	R	0.10 U	0.10 U	0.10 U	0.10 U	0.10 UJ	R	0.10 U
Endosulfan sulfate	0.10 U	R	0.10 U	0.10 U	0.10 U	0.10 U	0.10 UJ	R	0.10 U
4,4'-DDT	0.10 U	R	0.10 U	0.10 U	0.10 U	0.10 U	0.10 UJ	R	0.10 U
Methoxychlor	0.50 U	R	0.50 U	0.50 U	0.50 U	0.50 U	0.50 UJ	R	0.50 U
Endrin ketone	0.10 U	R	0.10 U	0.10 U	0.10 U	0.10 U	0.10 UJ	R	0.10 U
alpha-Chlordane	0.50 U	R	0.50 U	0.50 U	0.50 U	0.50 U	0.50 UJ	R	0.50 U
gamma-Chlordane	0.50 U	R	0.50 U	0.50 U	0.50 U	0.50 U	0.50 UJ	R	0.50 U
Toxaphene	1.00 U	R	1.00 U	1.00 U	1.00 U	1.00 U	1.00 UJ	R	1.00 U
Aroclor-1016	0.50 U	R	0.50 U	0.50 U	0.50 U	0.50 U	0.50 UJ	R	0.50 U
Aroclor-1221	0.50 U	R	0.50 U	0.50 U	0.50 U	0.50 U	0.50 UJ	R	0.50 U
Aroclor-1232	0.50 U	R	0.50 U	0.50 U	0.50 U	0.50 U	0.50 UJ	R	0.50 U
Aroclor-1242	0.50 U	R	0.50 U	0.50 U	0.50 U	0.50 U	0.50 UJ	R	0.50 U
Aroclor-1248	0.50 U	R	0.50 U	0.50 U	0.50 U	0.50 U	0.50 UJ	R	0.50 U
Aroclor-1254	1.00 U	R	1.00 U	1.00 U	1.00 U	1.00 U	1.00 UJ	R	1.00 U
Aroclor-1260	1.00 U	R	1.00 U	1.00 U	1.00 U	1.00 U	1.00 UJ	R	1.00 U

FOOTNOTES :
* All values in ug/l unless noted otherwise
ug/l (micrograms per liter) = ppb (parts per billion).
J is a data qualifier indicating estimated values (appendix A).
R = Analyte was rejected due to QA/QC.
B = Indicates the analyte was found in the blank. Indicates possible blank contamination.
U = Indicates element was analyzed for but not detected. The number shown is the detection limit.
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D = Denotes analyte quantified at a secondary dilution factor.

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE E-7B (contd)
PESTICIDES/PCBs
GROUND WATER SAMPLE RESULTS - ROUND 2
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	CONCENTRATIONS in ug/l								
SAMPLE NUMBER -	GW-5D-02	GW-6S-02	GW-6D-02	GW-7S-02	GW-7D-02	GW-8S-02	GW-9S-02	GW-10S-02	GW-11S-02
PESTICIDES/PCBs									
alpha-BHC	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 U	0.05 UJ	0.05 UJ	0.05 U	0.05 UJ
beta-BHC	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 U	0.05 UJ	0.05 UJ	0.05 U	0.05 UJ
delta-BHC	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 U	0.05 UJ	0.05 UJ	0.05 U	0.05 UJ
gamma-BHC (Lindane)	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 U	0.05 UJ	0.05 UJ	0.05 U	0.05 UJ
Heptachlor	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 U	0.05 UJ	0.05 UJ	0.05 U	0.05 UJ
Aldrin	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 U	0.05 UJ	0.05 UJ	0.05 U	0.05 UJ
Heptachlor epoxide	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 U	0.05 UJ	0.05 UJ	0.05 U	0.05 UJ
Endosulfan I	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 U	0.05 UJ	0.05 UJ	0.05 U	0.05 UJ
Dieldrin	0.10 UJ	0.10 UJ	0.10 UJ	0.10 UJ	0.10 U	0.10 UJ	0.10 UJ	0.10 U	0.10 UJ
4,4'-DDE	0.10 UJ	0.10 UJ	0.10 UJ	0.10 UJ	0.10 U	0.10 UJ	0.10 UJ	0.10 U	0.10 UJ
Endrin	0.10 UJ	0.10 UJ	0.10 UJ	0.10 UJ	0.10 U	0.10 UJ	0.10 UJ	0.10 U	0.10 UJ
Endosulfan II	0.10 UJ	0.10 UJ	0.10 UJ	0.10 UJ	0.10 U	0.10 UJ	0.10 UJ	0.10 U	0.10 UJ
4,4'-DDD	0.10 UJ	0.10 UJ	0.10 UJ	0.10 UJ	0.10 U	0.10 UJ	0.10 UJ	0.10 U	0.10 UJ
Endosulfan sulfate	0.10 UJ	0.10 UJ	0.10 UJ	0.10 UJ	0.10 U	0.10 UJ	0.10 UJ	0.10 U	0.10 UJ
4,4'-DDT	0.10 UJ	0.10 UJ	0.10 UJ	0.10 UJ	0.10 U	0.10 UJ	0.10 UJ	0.10 U	0.10 UJ
Methoxychlor	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.50 U	0.50 UJ	0.50 UJ	0.50 U	0.50 UJ
Endrin ketone	0.10 UJ	0.10 UJ	0.10 UJ	0.10 UJ	0.10 U	0.10 UJ	0.10 UJ	0.10 U	0.10 UJ
alpha-Chlordane	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.50 U	0.50 UJ	0.50 UJ	0.50 U	0.50 UJ
gamma-Chlordane	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.50 U	0.50 UJ	0.50 UJ	0.50 U	0.50 UJ
Toxaphene	1.00 UJ	1.00 UJ	1.00 UJ	1.00 UJ	1.00 U	1.00 U	1.00 UJ	1.00 U	1.00 UJ
Aroclor-1016	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.50 U	0.50 U	0.50 UJ	0.50 U	0.50 UJ
Aroclor-1221	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.50 U	0.50 U	0.50 UJ	0.50 U	0.50 UJ
Aroclor-1232	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.50 U	0.50 U	0.50 UJ	0.50 U	0.50 UJ
Aroclor-1242	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.50 U	0.50 U	0.50 UJ	0.50 U	0.50 UJ
Aroclor-1248	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.50 U	0.50 U	0.50 UJ	0.50 U	0.50 UJ
Aroclor-1254	1.00 UJ	1.00 UJ	1.00 UJ	1.00 UJ	1.00 U	1.00 U	1.00 UJ	1.00 U	1.00 UJ
Aroclor-1260	1.00 UJ	1.00 UJ	1.00 UJ	1.00 UJ	1.00 U	1.00 U	1.00 UJ	1.00 U	1.00 UJ

FOOTNOTES :
* All values in ug/l unless noted otherwise
ug/l (micrograms per liter) = ppb (parts per billion).
J is a data qualifier indicating estimated values (appendix A).
R = Analyte was rejected due to QA/QC.
B = Indicates the analyte was found in the blank. Indicates possible blank contamination.
U = Indicates element was analyzed for but not detected. The number shown is the detection limit.
NR Indicates analysis was not requested.
E = Estimated value due to exceedance of linear calibration range.
D = Denotes analyte quantified at a secondary dilution factor.

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE E-7B (contd)
PESTICIDES/PCBs
GROUND WATER SAMPLE RESULTS - ROUND 2

06/26/90

	CONCENTRATIONS in ug/l						
SAMPLE NUMBER -	GW-12S-02	GW-13S-02	GW-14S-02	GW-14S-02DUP	GW-15S-02	GW-16S-02	GW-17S-02
PESTICIDES/PCBs							
alpha-BHC	R	0.50 U	R	R	0.50 UJ	R	0.50 UJ
beta-BHC	R	0.50 U	R	R	0.50 UJ	R	0.50 UJ
delta-BHC	R	0.50 U	R	R	0.50 UJ	R	0.50 UJ
gamma-BHC (Lindane)	R	0.50 U	R	R	0.50 UJ	R	R
Heptachlor	R	0.50 U	R	R	0.50 UJ	R	0.50 UJ
Aldrin	R	0.50 U	R	R	0.50 UJ	R	0.50 UJ
Heptachlor epoxide	R	0.50 U	R	R	0.50 UJ	R	0.50 UJ
Endosulfan I	R	0.50 U	R	R	0.50 UJ	R	0.50 UJ
Dieldrin	R	1.00 U	R	R	1.00 UJ	R	1.00 UJ
4,4'-DDE	R	1.00 U	R	R	1.00 UJ	R	1.00 UJ
Endrin	R	1.00 U	R	R	1.00 UJ	R	1.00 UJ
Endosulfan II	R	1.00 U	0.69 J	R	1.00 UJ	R	R
4,4'-DDD	R	1.00 U	R	R	1.00 UJ	R	1.00 UJ
Endosulfan sulfate	R	R	R	R	1.00 UJ	R	1.00 UJ
4,4'-DDT	R	1.00 U	R	R	1.00 UJ	R	1.00 UJ
Methoxychlor	R	5.00 U	R	R	5.00 UJ	R	5.00 UJ
Endrin ketone	R	1.00 U	R	R	1.00 UJ	R	1.00 UJ
alpha-Chlordane	R	5.00 U	R	R	5.00 UJ	R	5.00 UJ
gamma-Chlordane	R	5.00 U	R	R	5.00 UJ	R	5.00 UJ
Toxaphene	R	10.00 U	R	R	10.00 UJ	R	10.00 UJ
Aroclor-1016	R	5.00 U	R	R	5.00 UJ	R	5.00 UJ
Aroclor-1221	R	5.00 U	R	R	5.00 UJ	R	5.00 UJ
Aroclor-1232	R	R	R	R	110.00 J	R	110.00 J
Aroclor-1242	R	5.00 U	R	R	5.00 UJ	R	5.00 UJ
Aroclor-1248	R	5.00 U	R	R	5.00 UJ	R	5.00 UJ
Aroclor-1254	R	10.00 U	R	R	10.00 UJ	R	10.00 UJ
Aroclor-1260	R	10.00 U	R	R	10.00 UJ	R	10.00 UJ

FOOTNOTES :
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ug/l (micrograms per liter) = ppb (parts per billion).
J is a data qualifier indicating estimated values (appendix A).
R = Analyte was rejected due to QA/QC.
B = Indicates the analyte was found in the blank. Indicates possible blank contamination.
U = Indicates element was analyzed for but not detected. The number shown is the detection limit.
NR Indicates analysis was not requested.
E = Estimated value due to exceedance of linear calibration range.
D = Denotes analyte quantified at a secondary dilution factor.

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE E-8A
INORGANICS
GROUND WATER SAMPLE RESULTS - ROUND 1
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	CONCENTRATIONS in ug/l								
SAMPLE NUMBER -	GW-1S-01	GW-1D-01	GW-3S-01	GW-3D-01	GW-4S-01	GW-4D-01	GW-5S-01	GW-5D-01	GW-6S-01
INORGANICS									
ALUMINUM	97.60 B	56.10 B	4460.00	78.10 B	1050.00	146.00 B	59.50 B	108.00 B	90.90 B
ANTIMONY	53.10 U	53.10 U	53.10 U	53.10 U	53.10 U	53.10 U	53.10 U	53.10 U	53.10 U
ARSENIC	6.20 B	1.90 U	3.90 B	4.60 B	2.50 B	1.90 U	9.80 B	4.70 B	1.90 U
BARIUM	77.90 B	24.90 B	79.50 B	64.60 B	62.00 B	34.40 B	73.20 B	174.00 B	35.50 B
BERYLLIUM	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
CADMIUM	3.60 U	3.90 B	3.60 U	3.60 U	3.60 U	3.60 U	3.60 U	3.60 U	3.60 U
CALCIUM	213000.00	30300.00	80700.00	90700.00	39100.00	55600.00	28200.00	115000.00	111000.00
CHROMIUM	3.10 B	5.60 B	21.20 J	131.00 J	6.80 B	728.00 J	3.00 U	41.60	3.00 U
COBALT	4.20 U	4.20 U	4.20 U	4.20 U	4.20 U	7.10 B	4.20 U	4.20 U	4.20 U
COPPER	10.00 B	2.60 U	45.80	3.70 B	5.30 B	3.90 B	10.20 B	12.40 B	14.80 B
IRON	5070.00	272.00	7360.00	4510.00	1720.00	2260.00	2370.00	5270.00	201.00
LEAD	2.80 B	2.00 U	11.30	3.10 B	2.90 B	2.30 B	2.00 U	2.00 U	5.90
MAGNESIUM	41700.00	7180.00	44600.00	17400.00	21500.00	29500.00	20400.00	36800.00	32400.00
MANGANESE	1580.00	5.90 B	1620.00	234.00	591.00	47.60	576.00	82.70	1080.00
MERCURY	0.20 U	0.20 U	R	R	0.38	R	0.20 U	0.20 U	0.20 U
NICKEL	13.70 B	17.40 B	26.60 B	52.00	28.00 B	198.00	10.70 U	21.10 B	13.10 B
POTASSIUM	1800.00 B	5330.00	3860.00 B	2670.00 B	1330.00 B	15600.00	761.00 B	6700.00	1960.00 B
SELENIUM	2.10 U	2.10 U	2.30 U	2.30 U	2.30 U	2.30 U	2.30 U	2.30 U	2.30 U
SILVER	2.80 U	2.80 U	2.80 U	2.80 U	2.80 U	2.80 U	2.80 U	2.80 U	2.80 U
SODIUM	70100.00	38800.00	22400.00	67900.00	19400.00	41100.00	27700.00	131000.00	84000.00 B
THALLIUM	2.80 U	2.80 U	2.60 U	2.60 U	2.80 U	2.60 U	2.80 U	2.80 U	2.80 U
VANADIUM	3.20 U	3.20 U	8.40 B	3.20 U	3.20 U	6.80 B	3.20 U	3.20 U	3.20 U
ZINC	12.30 B	4.90 B	51.70	10.70 B	R	13.90 B	12.80 B	11.90 B	9.90 B
CYANIDE	10.00 U	10.00 U	R	R	10.00 U	R	10.00 U	10.00 U	10.00 U

FOOTNOTES :
* All values in ug/l unless noted otherwise
ug/l (micrograms per liter) = ppb (parts per billion).
J is a data qualifier indicating estimated values (appendix A).
R = Analyte was rejected due to QA/QC.
B = Analyte value is between the contract required detection limit (CRDL) and the instrument detection limit (IDL).
U = Indicates element was analyzed for but not detected. The number shown is the detection limit.
NR Indicates analysis was not requested.

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE E-8A (contd)
INORGANICS
GROUND WATER SAMPLE RESULTS - ROUND 1

06/26/90

	CONCENTRATIONS in ug/l						
SAMPLE NUMBER -	GW-6D-01	GW-7S-01	GW-7D-01	GW-8S-01	GW-9S-01	GW-10S-01	GW-12S-01
INORGANICS							
ALUMINUM	162.00 B	257.00	559.00	3960.00	2120.00	1850.00	311.00
ANTIMONY	53.10 U	53.10 U	53.10 U	53.10 U	53.10 U	53.10 U	53.10 U
ARSENIC	1.90 U	1.90 U	1.90 U	2.70 B	2.60 B	1.90 U	1.90 U
BARIUM	48.30 B	332.00	97.30 B	141.00 B	271.00	107.00 B	76.40 B
BERYLLIUM	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
CADMIUM	3.60 U	3.60 U	3.60 U	3.60 U	3.60 U	3.60 U	3.60 U
CALCIUM	68600.00	46800.00	244000.00	124000.00	156000.00	178000.00	345000.00
CHROMIUM	23.00	3.00 U	5.60 BJ	21.10	8.70 B	11.20	3.00 U
COBALT	4.20 U	4.20 U	4.20 U	4.50 B	4.20 U	4.20 U	4.20 U
COPPER	10.40 B	10.00 B	11.20 B	14.40 B	11.80 B	7.00 B	6.80 B
IRON	424.00	429.00	161.00	5650.00	13200.00	2740.00	547.00
LEAD	2.00 U	4.40 B	2.90 B	9.60	10.40	5.80	6.60
MAGNESIUM	20900.00	31500.00	156.00 B	61200.00	41400.00	150000.00	188000.00
MANGANESE	17.30	62.10	0.50 U	520.00	2280.00	391.00	451.00
MERCURY	0.20 U	0.20 U	R	0.20 U	0.20 U	2.00	3.20
NICKEL	33.00 B	11.80 B	10.70 U	113.00	20.50 B	14.30 B	10.70 U
POTASSIUM	5110.00	1900.00 B	23300.00	3100.00 B	42700.00	1970.00 B	839.00 B
SELENIUM	2.30 U	2.10 U	2.30 U	2.10 U	2.30 U	2.30 U	2.30 U
SILVER	2.80 U	2.80 U	2.80 U	2.80 U	2.80 U	2.80 U	2.80 U
SODIUM	127000.00	24000.00	58000.00	21500.00	30400.00	126000.00	206000.00
THALLIUM	2.80 U	2.80 U	2.60 U	2.80 U	2.80 U	2.80 U	2.80 U
VANADIUM	3.20 U	3.20 U	3.20 U	7.40 B	3.50 B	6.30 B	3.20 U
ZINC	R	10.80 B	21.40	R	R	R	7.80 B
CYANIDE	10.00 U	10.00 U	R	10.00 U	10.00 U	10.00 U	10.00 U

FOOTNOTES :
* All values in ug/l unless noted otherwise
ug/l (micrograms per liter) = ppb (parts per billion).
J is a data qualifier indicating estimated values (appendix A).
R = Analyte was rejected due to QA/QC.
B = Analyte value is between the contract required detection limit (CRDL) and the instrument detection limit (IDL).
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NR Indicates analysis was not requested.

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE E-8B
INORGANICS
GROUND WATER SAMPLE RESULTS - ROUND 2

06/26/90

	CONCENTRATIONS in ug/l								
SAMPLE NUMBER -	GW-1S-02	GW-1D-02	GW-2S-02	GW-2D-02	GW-3S-02	GW-3D-02	GW-4S-02	GW-4D-02	GW-5S-02
INORGANICS									
ALUMINUM	1210.00 J	89.00 B	728.00	1630.00	653.00	82.40 B	106.00 B	316.00	521.00
ANTIMONY	51.00 U	35.10 BJ	24.00 U	24.00 U	24.00 U	24.00 U	24.00 U	24.00 U	24.00 U
ARSENIC	5.10 BJ	2.00 U	3.70 B	2.40 B	2.30 B	3.60 B	3.50 B	2.00 U	10.10
BARIUM	107.00 BJ	34.20 BJ	111.00 B	49.70 B	82.80 BJ	81.50 BJ	73.50 B	28.90 BJ	52.20 BJ
BERYLLIUM	1.00 U	1.00 U	1.00 UJ	1.00 UJ	1.00 U	1.00 U	1.00 UJ	1.00 U	1.00 U
CADMIUM	4.00 U	4.20 BJ	1.00 U	2.30 B	1.30 BJ	4.00 BJ	4.60 B	4.20 BJ	3.20 BJ
CALCIUM	257000.00	70700.00	344000.00	125000.00	64600.00	121000.00	34100.00	81000.00	28700.00
CHROMIUM	15.00 J	2.40 BJ	9.50 B	32.70	4.90 BJ	36.00 J	1.00 U	11.50 J	10.80 J
COBALT	5.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	4.10 B	2.00 U	2.00 U
COPPER	12.10 BJ	5.70 BJ	40.10 J	17.60 BJ	4.10 BJ	28.40 J	5.60 B	1.00 UJ	16.30 BJ
IRON	9120.00	185.00	39100.00	2410.00	1160.00	2510.00	269.00	594.00	2530.00
LEAD	4.70	2.00 U	74.90 J	6.20	R	R	3.50 J	R	R
MAGNESIUM	56500.00	26300.00	60900.00	16300.00	48100.00	23100.00	20400.00	34700.00	20300.00
MANGANESE	1390.00 J	R	2100.00 J	59.50 J	580.00 J	428.00 J	263.00 J	R	845.00 J
MERCURY	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.87
NICKEL	23.00 U	20.00 U	20.00 U	26.40 B	20.00 U	39.40 B	20.00 U	30.00 B	20.00 U
POTASSIUM	2050.00 BJ	3000.00 B	21000.00 J	8200.00 J	2280.00 B	3110.00 B	933.00 B	3350.00 B	926.00 B
SELENIUM	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
SILVER	3.00 U	2.00 U	4.60 B	2.00 B	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
SODIUM	86000.00	41400.00	63700.00	68200.00	12700.00	85800.00	18900.00	34300.00	27300.00
THALLIUM	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
VANADIUM	4.00 U	1.00 U	5.40 B	35.30 BJ	1.00 U	1.00 U	4.10 B	1.40 B	2.80 B
ZINC	37.70 J	1.10 B	182.00 J	44.00 J	R	R	11.80 BJ	R	R
CYANIDE	10.00 U	10.00 U	30.00 J	10.00 UJ	10.00 U	10.00 U	10.00 UJ	10.00 U	10.00 U

FOOTNOTES :
* All values in ug/l unless noted otherwise
ug/l (micrograms per liter) = ppb (parts per billion).
J is a data qualifier indicating estimated values (appendix A).
R = Analyte was rejected due to QA/QC.
B = Analyte value is between the contract required detection limit (CRDL) and the instrument detection limit (IDL).
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NR Indicates analysis was not requested.

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE E-8B (contd)
INORGANICS
GROUND WATER SAMPLE RESULTS - ROUND 2

06/26/90

	CONCENTRATIONS in ug/l								
SAMPLE NUMBER -	GW-5D-02	GW-6S-02	GW-6D-02	GW-7S-02	GW-7D-02	GW-8S-02	GW-9S-02	GW-10S-02	GW-11S-02
INORGANICS									
ALUMINUM	234.00	227.00	326.00	610.00	1590.00	224.00	1850.00	603.00	76.90 B
ANTIMONY	24.00 U	24.00 U	30.40 BJ	24.00 U	24.00 U	24.00 U	24.00 U	24.00 U	24.00 U
ARSENIC	3.00 B	2.10 B	2.00 U	2.60 B	2.00 U	2.00 U	2.00 U	2.00 U	2.60 B
BARIUM	240.00 J	30.70 BJ	60.00 BJ	277.00 J	59.60 BJ	102.00 B	269.00	122.00 B	176.00 B
BERYLLIUM	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 UJ	1.00 UJ	1.00 UJ	1.00 UJ
CADMIUM	1.10 BJ	4.00 BJ	2.30 BJ	1.00 U	1.00 U	3.30 B	4.00 B	2.10 B	1.00 U
CALCIUM	138000.00	116000.00	118000.00	44200.00	156000.00	117000.00	141000.00	221000.00	93900.00
CHROMIUM	1.00 U	1.00 U	191.00 J	26.80 J	18.40 J	10.00 B	4.60 B	2.00 B	3.80 B
COBALT	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 B	2.00 U	2.00 U	2.00 U
COPPER	1.00 UJ	10.60 BJ	13.00 BJ	8.10 BJ	6.50 BJ	4.80 B	10.00 BJ	13.60 BJ	4.80 B
IRON	1250.00	2140.00	1200.00	1060.00	933.00	327.00	7240.00	1170.00	160.00
LEAD	2.00 U	R	R	R	6.80	R	6.00 J	4.70	R
MAGNESIUM	44400.00	35600.00	26700.00	31500.00	1210.00 B	62900.00	45600.00	97000.00	46600.00
MANGANESE	124.00 J	1670.00 J	R	248.00 J	R	341.00 J	1920.00 J	375.00 J	66.40 J
MERCURY	0.48	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
NICKEL	20.00 U	20.00 U	20.00 U	20.00 U	20.00 U	32.60 B	24.90 B	32.60 B	34.20 B
POTASSIUM	12400.00	3350.00 B	1850.00 B	3090.00 B	20800.00	1770.00 B	41700.00 J	30700.00 J	3890.00 B
SELENIUM	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U
SILVER	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.80 B	2.50 B	2.10 B	2.00 U
SODIUM	354000.00	130000.00	76900.00	28500.00	55000.00	35500.00	31400.00	183000.00	53200.00
THALLIUM	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
VANADIUM	1.00 U	1.40 B	1.00 U	1.00 U	1.40 B	8.10 B	8.10 B	1.40 B	4.10 B
ZINC	2.10 B	8.80 B	R	R	R	11.80 BJ	31.70 J	17.10 BJ	7.50 B
CYANIDE	10.00 U	10.00 U	10.00 U	10.00 U	R	10.00 UJ	10.00 UJ	10.00 UJ	10.00 UJ

FOOTNOTES :
* All values in ug/l unless noted otherwise
ug/l (micrograms per liter) = ppb (parts per billion).
J is a data qualifier indicating estimated values (appendix A).
R = Analyte was rejected due to QA/QC.
B = Analyte value is between the contract required detection limit (CRDL) and the instrument detection limit (IDL).
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PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE E-8B (contd)
INORGANICS
GROUND WATER SAMPLE RESULTS - ROUND 2

06/26/90

	CONCENTRATIONS in ug/l						
SAMPLE NUMBER -	GW-12S-02	GW-13S-02	GW-14S-02	GW-14S-02DUP	GW-15S-02	GW-16S-02	GW-17S-02
INORGANICS							
ALUMINUM	606.00	1750.00	73900.00	74000.00	323.00	51600.00	13300.00
ANTIMONY	24.00 U	24.00 U	24.00 U	24.00 U	24.00 U	33.00 BJ	24.40 BJ
ARSENIC	2.00 U	3.30 B	8.90 B	9.50 B	2.40 B	22.30	4.30 B
BARIUM	80.80 B	778.00 J	1170.00	1220.00	1840.00 J	1220.00	1530.00 J
BERYLLIUM	1.00 UJ	1.00 U	1.50 BJ	1.60 BJ	1.00 U	1.70 BJ	1.00 U
CADMIUM	3.50 B	1.00 U	1.80 B	1.00 U	1.00 U	5.10	12.00 J
CALCIUM	343000.00	206000.00	554000.00	593000.00	164000.00	463000.00	302000.00
CHROMIUM	196.00	5.10 BJ	115.00	107.00	11.10 J	99.70	25.40 J
COBALT	2.00 U	2.00 U	44.00 B	44.10 B	2.00 U	46.90 B	10.30 B
COPPER	8.80 B	6.00 BJ	239.00 J	258.00 J	2.70 BJ	3060.00 J	89.50 J
IRON	1270.00	38000.00	131000.00 J	130000.00	26300.00	176000.00	32500.00
LEAD	5.20	39.10	369.00	328.00 J	17.10	331.00 J	50.60
MAGNESIUM	203000.00	52500.00	159000.00	173000.00	79000.00	140000.00	175000.00
MANGANESE	1130.00 J	316.00 J	3220.00 J	3450.00 J	183.00 J	2710.00 J	1320.00 J
MERCURY	0.20 U	0.20 U	0.20 U	0.23	0.20 U	3.30	0.20 U
NICKEL	180.00	20.00 U	118.00	118.00	20.00 U	141.00	136.00
POTASSIUM	1710.00 B	38300.00	30800.00 J	30700.00 J	83500.00	28400.00 J	35000.00
SELENIUM	2.00 U	2.00 U	10.00 U	2.00 U	2.00 U	10.00 U	2.00 U
SILVER	2.00 U	2.00 U	9.60 B	6.60 B	2.00 U	23.70	2.00 U
SODIUM	287000.00	60700.00	46700.00	47500.00	97500.00	31100.00	201000.00
THALLIUM	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
VANADIUM	6.10 B	2.80 B	124.00 J	121.00 J	2.80 B	96.50 J	26.40 B
ZINC	17.20 BJ	R	769.00 J	780.00 J	R	1490.00 J	R
CYANIDE	10.00 UJ	20.00 U	20.00 UJ	20.00 UJ	20.00 U	20.00 UJ	20.00 U

FOOTNOTES :
* All values in ug/l unless noted otherwise
ug/l (micrograms per liter) = ppb (parts per billion).
J is a data qualifier indicating estimated values (appendix A).
R = Analyte was rejected due to QA/QC.
B = Analyte value is between the contract required detection limit (CRDL) and the instrument detection limit (IDL).
U = Indicates element was analyzed for but not detected. The number shown is the detection limit.
NR Indicates analysis was not requested.

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE
INORGANICS
FILTERED GROUND WATER SAMPLE ANALYTICAL RESULTS

06/27/90

	CONCENTRATIONS in ug/l								
SAMPLE NUMBER -	GW-9S-02	GW-9S-02F	GW-10S-02	GW-10S-02F	GW-14S-02	GW-14S-02F	GW-14S-02DUP	GW-14S-02FDUP	GW-16S-02
INORGANICS									
ALUMINUM	1850.00	20.00 U	603.00	20.00 U	73900.00	20.00 U	74000.00	20.00 U	51600.00
ANTIMONY	24.00 U	24.00 U	24.00 U	24.00 U	24.00 U	24.00 U	24.00 U	24.00 U	33.00 BJ
ARSENIC	2.00 U	2.00 U	2.00 U	2.00 U	8.90 B	2.10 B	9.50 B	2.00 U	22.30
BARIUM	269.00	248.00	122.00 B	118.00 B	1170.00	476.00	1220.00	481.00	1220.00
BERYLLIUM	1.00 UJ	1.00 UJ	1.00 UJ	1.00 UJ	1.50 BJ	1.00 UJ	1.60 BJ	1.00 UJ	1.70 BJ
CADMIUM	4.00 B	5.50	2.10 B	1.30 B	1.80 B	2.60 B	1.00 U	2.10 B	5.10
CALCIUM	141000.00	133000.00	221000.00	223000.00	554000.00	241000.00	593000.00	236000.00	463000.00
CHROMIUM	4.60 B	1.00 U	2.00 B	1.00 U	115.00	1.00 U	107.00	1.00 U	99.70
COBALT	2.00 U	2.00 U	2.00 U	2.00 U	44.00 B	2.00 U	44.10 B	2.00 U	46.90 B
COPPER	10.00 BJ	3.30 B	13.60 BJ	11.10 BJ	239.00 J	2.00 B	258.00 J	2.60 B	3060.00 J
IRON	7240.00	2360.00	1170.00	1.00 U	131000.00 J	16200.00 J	130000.00	13500.00	176000.00
LEAD	6.00 J	R	4.70	R	369.00	R	328.00 J	2.00 UJ	331.00 J
MAGNESIUM	45600.00	43000.00	97000.00	99400.00	159000.00	48400.00	173000.00	48500.00	140000.00
MANGANESE	1920.00 J	1910.00 J	375.00 J	356.00 J	3220.00 J	762.00 J	3450.00 J	763.00 J	2710.00 J
MERCURY	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.23	0.20 U	3.30
NICKEL	24.90 B	20.00 U	32.60 B	20.00 U	118.00	20.00 U	118.00	20.00 U	141.00
POTASSIUM	41700.00 J	41200.00 J	30700.00 J	30300.00 J	30800.00 J	16100.00 J	30700.00 J	16100.00 J	28400.00 J
SELENIUM	2.00 U	2.00 U	2.00 UJ	2.00 U	10.00 U	2.00 U	2.00 U	2.00 U	10.00 U
SILVER	2.50 B	2.00 U	2.10 B	2.00 U	9.60 B	2.60 B	6.60 B	2.00 U	23.70
SODIUM	31400.00	31400.00	183000.00	182000.00	46700.00	40000.00	47500.00	39600.00	31100.00
THALLIUM	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
VANADIUM	8.10 B	4.00 B	1.40 B	2.70 B	124.00 J	5.40 B	121.00 J	2.70 B	96.50 J
ZINC	31.70 J	5.20 B	17.10 BJ	12.90 BJ	769.00 J	6.00 B	780.00 J	7.30 B	1490.00 J
CYANIDE	10.00 UJ	NR	10.00 UJ	NR	20.00 UJ	NR	20.00 UJ	NR	20.00 UJ

FOOTNOTES :
* All values in ug/l unless noted otherwise
ug/l (micrograms per liter) = ppb (parts per billion).
J is a data qualifier indicating estimated values (appendix A).
R = Analyte was rejected due to QA/QC.
B = Analyte value is between the contract required detection limit (CRDL) and the instrument detection limit (IDL).
U = Indicates element was analyzed for but not detected. The number shown is the detection limit.
NR Indicates analysis was not requested.
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PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE (contd)
INORGANICS
FILTERED GROUND WATER SAMPLE ANALYTICAL RESULTS

06/27/90

	CONCENTRATIONS in ug/l
SAMPLE NUMBER -	GW-16S-02F
INORGANICS	
ALUMINUM	20.00 U
ANTIMONY	24.00 U
ARSENIC	2.70 B
BARIUM	322.00
BERYLLIUM	1.00 UJ
CADMIUM	4.50 B
CALCIUM	146000.00
CHROMIUM	1.00 U
COBALT	2.00 U
COPPER	3.00 B
IRON	51700.00
LEAD	13.20 J
MAGNESIUM	30700.00
MANGANESE	242.00 J
MERCURY	0.20 U
NICKEL	28.00 B
POTASSIUM	18500.00 J
SELENIUM	2.00 U
SILVER	3.50 B
SODIUM	25600.00
THALLIUM	1.00 U
VANADIUM	1.00 U
ZINC	7.00 B
CYANIDE	NR

FOOTNOTES :
* All values in ug/l unless noted otherwise
ug/l (micrograms per liter) = ppb (parts per billion).
J is a data qualifier indicating estimated values (appendix A).
R = Analyte was rejected due to QA/QC.
B = Analyte value is between the contract required detection limit (CRDL) and the instrument detection limit (IDL).
U = Indicates element was analyzed for but not detected. The number shown is the detection limit.
NR Indicates analysis was not requested.
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APPENDIX I

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE E-1
VOLATILES
SOIL BORING ANALYTICAL RESULTS

06/26/90

	CONCENTRATIONS in ug/kg								
SAMPLE NUMBER -	B1-SS-05	B1-SS-06	B2-SS-03	B2-SS-05	B3-SS-06	B4-SS-03	B4-SS-03D	B4-SS-10	B4-SS-10D
VOLATILES									
Chloromethane	12.0 U	12.0 U	11.0 U	12.0 U	130.0 U	200.0 UJ	5000.0 U	12.0 U	59.0 U
Bromomethane	12.0 U	12.0 U	11.0 U	12.0 U	130.0 U	200.0 UJ	5000.0 U	12.0 U	59.0 U
Vinyl Chloride	12.0 U	12.0 U	11.0 U	12.0 U	130.0 U	200.0 UJ	5000.0 U	12.0 U	59.0 U
Chloroethane	12.0 U	12.0 U	11.0 U	12.0 U	130.0 U	200.0 UJ	5000.0 U	12.0 UJ	59.0 U
Methylene Chloride	R	R	R	R	80.0 U	390.0 UJ	5000.0 U	34.0 U	33.0 U
Acetone	R	R	R	R	130.0 U	6800.0 UJ	7300.0 U	770.0 DJ	950.0 DJ
Carbon Disulfide	6.0 U	6.0 U	6.0 U	6.0 U	64.0 U	100.0 UJ	2500.0 U	6.0 U	29.0 U
1,1-Dichloroethene	6.0 U	6.0 U	6.0 U	6.0 U	64.0 U	100.0 UJ	2500.0 U	6.0 U	29.0 U
1,1-Dichloroethane	6.0 U	6.0 U	6.0 U	6.0 U	64.0 U	100.0 UJ	2500.0 U	6.0 U	29.0 U
1,2-Dichloroethene (total)	6.0 U	6.0 U	6.0 U	6.0 U	64.0 U	100.0 UJ	2500.0 U	6.0 U	29.0 U
Chloroform	6.0 U	6.0 U	6.0 U	6.0 U	64.0 U	100.0 UJ	2500.0 U	6.0 U	29.0 U
1,2-Dichloroethane	6.0 U	6.0 U	6.0 U	6.0 U	64.0 U	100.0 UJ	2500.0 U	6.0 U	29.0 U
2-Butanone	12.0 U	12.0 U	11.0 U	12.0 U	130.0 U	R	5000.0 U	R	59.0 U
1,1,1-Trichloroethane	6.0 U	6.0 U	6.0 U	6.0 U	64.0 U	100.0 UJ	2500.0 U	6.0 U	29.0 U
Carbon Tetrachloride	6.0 U	6.0 U	6.0 U	6.0 U	64.0 U	100.0 UJ	2500.0 U	6.0 U	29.0 U
Vinyl Acetate	12.0 U	12.0 U	11.0 U	12.0 U	130.0 U	200.0 UJ	5000.0 U	12.0 U	59.0 U
Bromodichloromethane	6.0 U	6.0 U	6.0 U	6.0 U	64.0 U	100.0 UJ	2500.0 U	6.0 U	29.0 U
1,2-Dichloropropane	6.0 U	6.0 U	6.0 U	6.0 U	64.0 U	100.0 UJ	2500.0 U	6.0 U	29.0 U
cis-1,3-Dichloropropene	6.0 U	6.0 U	6.0 U	6.0 U	64.0 U	100.0 UJ	2500.0 U	6.0 U	29.0 U
Trichloroethene	6.0 U	6.0 U	6.0 U	6.0 U	64.0 U	100.0 UJ	2500.0 U	6.0 U	29.0 U
Dibromochloromethane	6.0 U	6.0 U	6.0 U	6.0 U	64.0 U	100.0 UJ	2500.0 U	6.0 U	29.0 U
1,1,2-Trichloroethane	6.0 U	6.0 U	6.0 U	6.0 U	64.0 U	100.0 UJ	2500.0 U	6.0 U	29.0 U
Benzene	6.0 U	6.0 U	6.0 U	6.0 U	54.0 J	4200.0 E	3700.0 D	6.0 U	29.0 U
trans-1,3-Dichloropropene	6.0 U	6.0 U	6.0 U	6.0 U	64.0 U	100.0 UJ	2500.0 U	6.0 U	29.0 U
Bromoform	6.0 U	6.0 U	6.0 U	6.0 U	64.0 U	100.0 UJ	2500.0 U	6.0 U	29.0 U
4-Methyl-2-Pentanone	12.0 U	12.0 U	11.0 U	12.0 U	130.0 U	200.0 UJ	5000.0 U	12.0 UJ	59.0 U
2-Hexanone	12.0 U	12.0 U	11.0 U	12.0 U	130.0 U	200.0 UJ	5000.0 U	12.0 UJ	59.0 U
Tetrachloroethene	6.0 U	6.0 U	6.0 U	6.0 U	64.0 U	100.0 UJ	2500.0 U	6.0 UJ	29.0 U
1,1,2,2-Tetrachloroethane	6.0 U	6.0 U	6.0 U	6.0 U	64.0 U	100.0 UJ	2500.0 U	6.0 UJ	29.0 U
Toluene	6.0 U	6.0 U	6.0 U	6.0 U	64.0 U	19000.0 E	17000.0 D	11.0 J	15.0 JD
Chlorobenzene	6.0 U	6.0 U	6.0 U	6.0 U	2200.0	150.0 J	2500.0 U	6.0 UJ	18.0 JD
Ethylbenzene	6.0 U	6.0 U	6.0 U	6.0 U	1300.0	590.0	2400.0 JD	6.0 UJ	29.0 U
Styrene	6.0 U	6.0 U	6.0 U	6.0 U	64.0 U	100.0 UJ	2500.0 U	6.0 UJ	29.0 U
Xylenes(total)	6.0 U	6.0 U	6.0 U	6.0 U	3100.0 J	3300.0	11000.0 D	11.0 J	29.0 U

FOOTNOTES :
ug/kg (micrograms per kilogram) = ppb (parts per billion).
Units for inorganic results are mg/kg (milligrams per kilogram).
J is a data qualifier indicating estimated values (appendix A).
R = Analyte was rejected due to QA/QC.
B = For organics, analyte was detected in the method blank.
B = For inorganics, analyte value is between the contract required detection limit (CRDL) and the instrument detection limit (IDL).
U = Indicates element was analyzed for but not detected. The number shown is the detection limit.
D = Denotes analyte quantified at a secondary dilution factor.
E = Estimated value due to excedence of linear calibration range.
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PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE E-1 (contd)
VOLATILES
SOIL BORING ANALYTICAL RESULTS

06/26/90

SAMPLE NUMBER -	B5-SS-08	B6-SS-07	B6-SS-7DUP	B7-SS-06	B8-SS-08	B9-SS-07	B9-SS-10	B10-SS-02	B10-SS-05
	CONCENTRATIONS in ug/kg								
VOLATILES				mg/kg					
Chloromethane	59.0 U	67.0 U	64.0 U	1700.0 U	62.0 U	59.0 U	60.0 U	11000.0 U	16000.0 U
Bromomethane	59.0 U	67.0 U	64.0 U	1700.0 U	62.0 U	59.0 U	60.0 U	11000.0 U	16000.0 U
Vinyl Chloride	59.0 U	67.0 U	64.0 U	1700.0 U	62.0 U	59.0 U	60.0 U	11000.0 U	16000.0 U
Chloroethane	59.0 U	67.0 U	64.0 U	1700.0 U	62.0 U	59.0 U	60.0 U	11000.0 U	16000.0 U
Methylene Chloride	29.0 U	67.0 U	64.0 U	690.0 J	83.0 U	30.0 U	60.0 U	5700.0 U	8000.0 U
Acetone	110.0 J	240.0 J	490.0 J	R	330.0 J	310.0 J	230.0 J	R	R
Carbon Disulfide	29.0 U	33.0 U	32.0 U	870.0 U	31.0 U	29.0 U	30.0 U	5700.0 U	8000.0 U
1,1-Dichloroethene	29.0 U	33.0 U	32.0 U	870.0 U	31.0 U	29.0 U	30.0 U	5700.0 U	8000.0 U
1,1-Dichloroethane	29.0 U	33.0 U	32.0 U	870.0 U	31.0 U	29.0 U	30.0 U	5700.0 U	8000.0 U
1,2-Dichloroethene (total)	29.0 U	33.0 U	32.0 U	870.0 U	31.0 U	29.0 U	30.0 U	5700.0 U	4600.0 J
Chloroform	29.0 U	33.0 U	32.0 U	870.0 U	31.0 U	29.0 U	30.0 U	5700.0 U	8000.0 U
1,2-Dichloroethane	29.0 U	33.0 U	32.0 U	870.0 U	31.0 U	29.0 U	30.0 U	5700.0 U	8000.0 U
2-Butanone	59.0 U	67.0 U	64.0 U	R	62.0 UJ	59.0 U	60.0 UJ	R	R
1,1,1-Trichloroethane	29.0 U	33.0 U	32.0 U	870.0 U	31.0 U	29.0 U	30.0 U	5700.0 U	8000.0 U
Carbon Tetrachloride	29.0 U	33.0 U	32.0 U	870.0 U	31.0 U	29.0 U	30.0 U	5700.0 U	8000.0 U
Vinyl Acetate	59.0 UJ	67.0 UJ	64.0 UJ	1700.0 U	62.0 U	59.0 UJ	60.0 U	11000.0 U	16000.0 U
Bromodichloromethane	29.0 U	33.0 U	32.0 U	870.0 U	31.0 U	29.0 U	30.0 U	5700.0 U	8000.0 U
1,2-Dichloropropane	29.0 U	33.0 U	32.0 U	870.0 U	31.0 U	29.0 U	30.0 U	5700.0 U	8000.0 U
cis-1,3-Dichloropropene	29.0 U	33.0 U	32.0 U	870.0 U	31.0 U	29.0 U	30.0 U	5700.0 U	8000.0 U
Trichloroethene	29.0 U	33.0 U	32.0 U	870.0 U	31.0 U	29.0 U	30.0 U	5700.0 U	8000.0 U
Dibromochloromethane	29.0 U	33.0 U	32.0 U	870.0 U	31.0 U	29.0 U	30.0 U	5700.0 U	8000.0 U
1,1,2-Trichloroethane	29.0 U	33.0 U	32.0 U	870.0 U	31.0 U	29.0 U	30.0 U	5700.0 U	8000.0 U
Benzene	29.0 U	33.0 U	32.0 U	870.0 U	31.0 U	29.0 U	30.0 U	5700.0 U	8000.0 U
trans-1,3-Dichloropropene	29.0 UJ	33.0 U	32.0 U	870.0 U	31.0 U	29.0 U	30.0 U	5700.0 U	8000.0 U
Bromoform	29.0 U	33.0 U	32.0 U	870.0 U	31.0 U	29.0 U	30.0 U	5700.0 U	8000.0 U
4-Methyl-2-Pentanone	59.0 U	67.0 U	64.0 U	1700.0 U	62.0 U	59.0 U	60.0 U	11000.0 U	16000.0 U
2-Hexanone	59.0 UJ	67.0 U	64.0 U	1700.0 U	62.0 U	59.0 U	60.0 U	11000.0 U	16000.0 U
Tetrachloroethene	29.0 U	33.0 U	32.0 U	870.0 U	31.0 U	29.0 U	30.0 U	5700.0 U	8000.0 U
1,1,2,2-Tetrachloroethane	29.0 U	33.0 U	32.0 U	870.0 U	31.0 U	29.0 U	30.0 U	5700.0 U	8000.0 U
Toluene	29.0 U	33.0 U	32.0 U	870.0 U	31.0 U	29.0 U	30.0 U	5700.0 U	8000.0 U
Chlorobenzene	29.0 U	33.0 U	32.0 U	870.0 U	31.0 U	29.0 U	30.0 U	5700.0 U	8000.0 U
Ethylbenzene	29.0 U	33.0 U	32.0 U	1000.0	31.0 U	29.0 U	30.0 U	6900.0	89000.0
Styrene	29.0 U	33.0 U	32.0 U	870.0 U	31.0 U	29.0 U	30.0 U	5700.0 U	8000.0 U
Xylenes(total)	29.0 U	33.0 U	32.0 U	1700.0	31.0 U	29.0 U	30.0 U	90000.0	110000.0

FOOTNOTES :
ug/kg (micrograms per kilogram) = ppb (parts per billion).
Units for inorganic results are mg/kg (milligrams per kilogram).
J is a data qualifier indicating estimated values (appendix A).
R = Analyte was rejected due to QA/QC.
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B = For inorganics, analyte value is between the contract required detection limit (CRDL) and the instrument detection limit (IDL).
U = Indicates element was analyzed for but not detected. The number shown is the detection limit.
D = Denotes analyte quantified at a secondary dilution factor.
E = Estimated value due to excedence of linear calibration range.
→

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE E-1 (contd)
VOLATILES
SOIL BORING ANALYTICAL RESULTS

06/26/90

	CONCENTRATIONS in ug/kg								
SAMPLE NUMBER -	B11-SS-07	B12-SS-01	B12-SS-04	B13-SS-04	B13-SS-567	B14-SS-05	B14-SS-13	B15-SS-06	B15-SS-13
VOLATILES									
Chloromethane	69.0 U	88.0 U	62.0 U	63.0 U	14000.0 U	62.0 U	58.0 U	60.0 U	56.0 U
Bromomethane	69.0 U	88.0 U	62.0 U	63.0 U	14000.0 U	62.0 U	58.0 U	60.0 U	56.0 U
Vinyl Chloride	69.0 U	88.0 U	62.0 U	63.0 U	14000.0 U	62.0 U	58.0 U	60.0 U	56.0 U
Chloroethane	69.0 U	88.0 U	62.0 U	63.0 U	14000.0 U	62.0 U	58.0 U	60.0 U	56.0 U
Methylene Chloride	40.0 U	200.0	34.0	100.0	R	90.0	23.0 J	62.0	58.0
Acetone	430.0 J	330.0 J	280.0 J	440.0 J	14000.0 U	930.0 J	210.0 J	700.0 J	330.0 J
Carbon Disulfide	35.0 U	44.0 U	31.0 U	32.0 U	7200.0 U	420.0 J	29.0 U	30.0 U	28.0 U
1,1-Dichloroethene	35.0 U	44.0 U	31.0 U	32.0 U	7200.0 U	31.0 U	29.0 U	30.0 U	28.0 U
1,1-Dichloroethane	35.0 U	44.0 U	31.0 U	32.0 U	7200.0 U	31.0 U	29.0 U	30.0 U	28.0 U
1,2-Dichloroethene (total)	35.0 U	44.0 U	31.0 U	32.0 U	7200.0 U	31.0 U	29.0 U	30.0 U	28.0 U
Chloroform	35.0 U	44.0 U	31.0 U	32.0 U	7200.0 U	31.0 U	29.0 U	30.0 U	28.0 U
1,2-Dichloroethane	35.0 U	44.0 U	31.0 U	32.0 U	7200.0 U	31.0 U	29.0 U	30.0 U	28.0 U
2-Butanone	69.0 U	88.0 UJ	62.0 UJ	63.0 U	14000.0 UJ	62.0 UJ	58.0 UJ	60.0 UJ	56.0 UJ
1,1,1-Trichloroethane	35.0 U	44.0 U	31.0 U	32.0 U	7200.0 U	31.0 U	29.0 U	30.0 U	28.0 U
Carbon Tetrachloride	35.0 U	44.0 U	31.0 U	32.0 U	7200.0 U	31.0 U	29.0 U	30.0 U	28.0 U
Vinyl Acetate	69.0 UJ	88.0 U	62.0 U	63.0 UJ	R	62.0 U	58.0 U	60.0 U	56.0 U
Bromodichloromethane	35.0 U	44.0 U	31.0 U	32.0 U	7200.0 U	31.0 U	29.0 U	30.0 U	28.0 U
1,2-Dichloropropane	35.0 U	44.0 U	31.0 U	32.0 U	7200.0 U	31.0 U	29.0 U	30.0 U	28.0 U
cis-1,3-Dichloropropene	35.0 U	44.0 U	31.0 U	32.0 U	7200.0 U	31.0 U	29.0 U	30.0 U	28.0 U
Trichloroethene	35.0 U	44.0 U	31.0 U	32.0 U	7200.0 U	31.0 U	29.0 U	30.0 U	28.0 U
Dibromochloromethane	35.0 U	44.0 U	31.0 U	32.0 U	7200.0 U	31.0 U	29.0 U	30.0 U	28.0 U
1,1,2-Trichloroethane	35.0 U	44.0 U	31.0 U	32.0 U	7200.0 U	31.0 U	29.0 U	30.0 U	28.0 U
Benzene	35.0 U	44.0 U	31.0 U	32.0 U	7200.0 U	31.0 U	29.0 U	30.0 U	28.0 U
trans-1,3-Dichloropropene	35.0 U	44.0 UJ	31.0 UJ	32.0 UJ	7200.0 U	31.0 UJ	29.0 UJ	30.0 UJ	28.0 UJ
Bromoform	35.0 U	44.0 U	31.0 U	32.0 U	7200.0 U	31.0 U	29.0 U	30.0 U	28.0 U
4-Methyl-2-Pentanone	69.0 U	88.0 U	62.0 U	63.0 U	14000.0 U	62.0 U	58.0 U	60.0 U	56.0 U
2-Hexanone	69.0 U	88.0 UJ	62.0 UJ	63.0 UJ	14000.0 U	62.0 UJ	58.0 UJ	60.0 UJ	56.0 UJ
Tetrachloroethene	35.0 U	44.0 U	31.0 U	32.0 U	7200.0 U	31.0 U	29.0 U	30.0 U	28.0 U
1,1,2,2-Tetrachloroethane	35.0 U	44.0 U	31.0 U	32.0 U	7200.0 U	31.0 U	29.0 U	30.0 U	28.0 U
Toluene	35.0 U	44.0 U	31.0 U	32.0 U	7200.0 U	31.0 U	29.0 U	30.0 U	28.0 U
Chlorobenzene	35.0 U	44.0 U	31.0 U	32.0 U	7200.0 U	31.0 U	29.0 U	30.0 U	28.0 U
Ethylbenzene	35.0 U	44.0 U	31.0 U	32.0 U	7200.0 U	31.0 U	29.0 U	30.0 U	28.0 U
Styrene	35.0 U	44.0 U	31.0 U	32.0 U	7200.0 U	31.0 U	29.0 U	30.0 U	28.0 U
Xylenes(total)	35.0 U	44.0 U	31.0 U	32.0 U	7200.0 U	31.0 U	29.0 U	30.0 U	28.0 U

FOOTNOTES :
ug/kg (micrograms per kilogram) = ppb (parts per billion).
Units for inorganic results are mg/kg (milligrams per kilogram).
J is a data qualifier indicating estimated values (appendix A).
R = Analyte was rejected due to QA/QC.
B = For organics, analyte was detected in the method blank.
B = For inorganics, analyte value is between the contract required detection limit (CRDL) and the instrument detection limit (IDL).
U = Indicates element was analyzed for but not detected. The number shown is the detection limit.
D = Denotes analyte quantified at a secondary dilution factor.
E = Estimated value due to excedence of linear calibration range.

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE E-1 (contd)
VOLATILES
SOIL BORING ANALYTICAL RESULTS

06/26/90

	CONCENTRATIONS in ug/kg								
SAMPLE NUMBER -	B16-SS-08	B16-SS-10	MW-1D-07	MW-2S-07	MW-2S-07DL	MW-2S-11	MW-2S-11DL	MW-3S-04	MW-3S-06
VOLATILES				mg/kg	mg/kg				
Chloromethane	3000.0 U	12.0 U	12.0 U	32.0 U	6400.0 U	12.0 U	59.0 U	11.0 U	12.0 U
Bromomethane	3000.0 U	12.0 U	12.0 U	32.0 U	6400.0 U	12.0 U	59.0 U	11.0 U	12.0 U
Vinyl Chloride	3000.0 U	12.0 U	12.0 U	32.0 U	6400.0 U	12.0 U	59.0 U	11.0 U	12.0 U
Chloroethane	3000.0 U	12.0 U	12.0 U	45.0	6400.0 U	12.0 U	59.0 U	11.0 U	12.0 U
Methylene Chloride	2300.0 U	12.0	6.0	16.0 U	3200.0 U	14.0	130.0 U	6.0 U	19.0
Acetone	R	37.0 J	220.0 D	R	R	270.0 E	570.0 JD	59.0	79.0
Carbon Disulfide	1500.0 U	6.0 U	6.0 U	16.0 U	3200.0 U	6.0 U	29.0 U	6.0 U	6.0 U
1,1-Dichloroethene	1500.0 U	6.0 U	6.0 U	910.0 J	710.0 JD	6.0 U	29.0 U	6.0 U	6.0 U
1,1-Dichloroethane	1500.0 U	6.0 U	6.0 U	2100.0 J	2000.0 JD	100.0	51.0 D	6.0 U	6.0 U
1,2-Dichloroethene (total)	1500.0 U	6.0 U	6.0 U	16.0 U	3200.0 U	6.0 U	29.0 U	6.0 U	6.0 U
Chloroform	1500.0 U	6.0 U	6.0 U	16.0 U	3200.0 U	6.0 U	29.0 U	6.0 U	6.0 U
1,2-Dichloroethane	1500.0 U	6.0 U	6.0 U	16.0 U	3200.0 U	6.0 U	29.0 U	6.0 U	6.0 U
2-Butanone	3000.0 U	R	25.0	32.0 U	6400.0 U	R	R	11.0 U	12.0 U
1,1,1-Trichloroethane	2900.0	6.0 U	6.0 U	11000.0 E	83000.0 D	780.0 E	620.0 D	6.0 U	6.0 U
Carbon Tetrachloride	1500.0 U	6.0 U	6.0 U	16.0 U	3200.0 U	6.0 U	29.0 U	6.0 U	6.0 U
Vinyl Acetate	3000.0 U	12.0 U	12.0 U	32.0 U	6400.0 U	12.0 U	59.0 U	11.0 U	12.0 U
Bromodichloromethane	1500.0 U	6.0 U	6.0 U	16.0 U	3200.0 U	6.0 U	29.0 U	6.0 U	6.0 U
1,2-Dichloropropane	1500.0 U	6.0 U	6.0 U	16.0 U	3200.0 U	6.0 U	29.0 U	6.0 U	6.0 U
cis-1,3-Dichloropropene	1500.0 U	6.0 U	6.0 U	16.0 U	3200.0 U	6.0 U	29.0 U	6.0 U	6.0 U
Trichloroethene	1500.0 U	6.0 U	6.0 U	30.0	3200.0 U	6.0 U	29.0 U	6.0 U	6.0 U
Dibromochloromethane	1500.0 U	6.0 U	6.0 U	16.0 U	3200.0 U	6.0 U	29.0 U	6.0 U	6.0 U
1,1,2-Trichloroethane	1500.0 U	6.0 U	6.0 U	28.0	3200.0 U	6.0 U	29.0 U	6.0 U	6.0 U
Benzene	1500.0 U	6.0 U	6.0 U	16.0 U	3200.0 U	6.0 U	29.0 U	6.0 U	6.0 U
trans-1,3-Dichloropropene	1500.0 U	6.0 U	6.0 U	16.0 U	3200.0 U	6.0 U	29.0 U	6.0 U	6.0 U
Bromoform	1500.0 U	6.0 U	6.0 U	16.0 U	3200.0 U	6.0 U	29.0 U	6.0 U	6.0 U
4-Methyl-2-Pentanone	3000.0 U	12.0 U	4.0 J	32.0 U	6400.0 U	12.0 U	59.0 U	11.0 U	12.0 U
2-Hexanone	3000.0 U	12.0 U	12.0 U	32.0 U	6400.0 U	12.0 U	59.0 U	11.0 U	12.0 U
Tetrachloroethene	1500.0 U	6.0 U	6.0 U	31.0	3200.0 U	6.0 U	29.0 U	6.0 U	6.0 U
1,1,2,2-Tetrachloroethane	1500.0 U	6.0 U	12.0 U	16.0 U	3200.0 U	6.0 U	29.0 U	11.0 U	12.0 U
Toluene	1500.0 U	6.0 U	3.0 J	12.0 J	3200.0 U	6.0 U	29.0 U	6.0 U	6.0 U
Chlorobenzene	1500.0 U	6.0 U	6.0 U	16.0 U	3200.0 U	6.0 U	29.0 U	6.0 U	6.0 U
Ethylbenzene	1500.0 U	6.0 U	6.0 U	62.0	3200.0 U	6.0 U	29.0 U	6.0 U	6.0 U
Styrene	1500.0 U	6.0 U	6.0 U	16.0 U	3200.0 U	6.0 U	29.0 U	6.0 U	6.0 U
Xylenes(total)	1500.0 U	6.0 U	6.0 U	350.0	3200.0 U	7.0	29.0 U	6.0 U	6.0 U

FOOTNOTES :
ug/kg (micrograms per kilogram) = ppb (parts per billion).
Units for inorganic results are mg/kg (milligrams per kilogram).
J is a data qualifier indicating estimated values (appendix A).
R = Analyte was rejected due to QA/QC.
B = For organics, analyte was detected in the method blank.
B = For inorganics, analyte value is between the contract required detection limit (CRDL) and the instrument detection limit (IDL).
U = Indicates element was analyzed for but not detected. The number shown is the detection limit.
D = Denotes analyte quantified at a secondary dilution factor.
E = Estimated value due to excedence of linear calibration range.

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE E-1 (contd)
VOLATILES
SOIL BORING ANALYTICAL RESULTS

06/26/90

	CONCENTRATIONS in ug/kg								
SAMPLE NUMBER -	MW-3S-07	MW-4D-10	MW-5S-01	MW-6S-02	MW-6S-03	MW-6S-03BD	MW-7S-15	MW-8S-05	MW-9S-06
VOLATILES									
Chloromethane	11.0 U	11.0 U	12.0 U	11.0 U	12.0 U	12.0 U	13.0 U	11.0 U	11.0 U
Bromomethane	11.0 U	11.0 U	12.0 U	11.0 U	12.0 U	12.0 U	13.0 U	11.0 U	11.0 U
Vinyl Chloride	11.0 U	11.0 U	12.0 U	11.0 U	12.0 U	12.0 U	13.0 U	11.0 U	11.0 U
Chloroethane	11.0 U	11.0 U	12.0 U	11.0 U	12.0 U	12.0 U	13.0 U	11.0 U	11.0 U
Methylene Chloride	12.0	6.0	18.0	R	R	R	7.0	5.0 J	17.0
Acetone	83.0	11.0 U	39.0	120.0 B	R	R	R	25.0	43.0
Carbon Disulfide	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U
1,1-Dichloroethene	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U
1,1-Dichloroethane	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U
1,2-Dichloroethene (total)	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U
Chloroform	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U
1,2-Dichloroethane	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U
2-Butanone	11.0 U	11.0 U	12.0 U	11.0 U	12.0 U	12.0 U	13.0 U	11.0 U	11.0 U
1,1,1-Trichloroethane	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U
Carbon Tetrachloride	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U
Vinyl Acetate	11.0 U	11.0 U	12.0 U	11.0 U	12.0 U	12.0 U	13.0 U	11.0 U	11.0 U
Bromodichloromethane	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U
1,2-Dichloropropane	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U
cis-1,3-Dichloropropene	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U
Trichloroethene	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U
Dibromochloromethane	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U
1,1,2-Trichloroethane	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U
Benzene	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U
trans-1,3-Dichloropropene	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U
Bromoform	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U
4-Methyl-2-Pentanone	11.0 U	11.0 U	12.0 U	11.0 U	12.0 U	12.0 U	13.0 U	11.0 U	11.0 U
2-Hexanone	11.0 U	11.0 U	12.0 U	11.0 U	12.0 U	12.0 U	13.0 U	11.0 U	11.0 U
Tetrachloroethene	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U
1,1,2,2-Tetrachloroethane	11.0 U	11.0 U	12.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U
Toluene	6.0 U	1.0 J	1.0 J	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U
Chlorobenzene	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U
Ethylbenzene	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U
Styrene	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U
Xylenes(total)	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U

FOOTNOTES :
ug/kg (micrograms per kilogram) = ppb (parts per billion).
Units for inorganic results are mg/kg (milligrams per kilogram).
J is a data qualifier indicating estimated values (appendix A).
R = Analyte was rejected due to QA/QC.
B = For organics, analyte was detected in the method blank.
B = For inorganics, analyte value is between the contract required detection limit (CRDL) and the instrument detection limit (IDL).
U = Indicates element was analyzed for but not detected. The number shown is the detection limit.
D = Denotes analyte quantified at a secondary dilution factor.
E = Estimated value due to excedence of linear calibration range.

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE E-1 (contd)
VOLATILES
SOIL BORING ANALYTICAL RESULTS

06/26/90

	CONCENTRATIONS in ug/kg								
SAMPLE NUMBER -	MW-10S-07	MW-11S-07	MW-12S-07	MW-13S-02	MW-13S-06	MW-14S-08	MW-14S-12	MW-15S-05	MW-16S-01
VOLATILES									
Chloromethane	11.0 U	12.0 U	11.0 U	12.0 U	12.0 U	11.0 U	13.0 U	12.0 U	1500.0 U
Bromomethane	11.0 U	12.0 U	11.0 U	12.0 U	12.0 U	11.0 U	13.0 U	12.0 U	1500.0 U
Vinyl Chloride	11.0 U	12.0 U	11.0 U	12.0 U	12.0 U	11.0 U	13.0 U	12.0 U	1500.0 U
Chloroethane	11.0 U	12.0 U	11.0 U	12.0 U	12.0 U	11.0 U	13.0 U	12.0 U	1500.0 U
Methylene Chloride	R	R	18.0	18.0 U	17.0 U	7.0	12.0	12.0 U	1000.0 U
Acetone	11.0 U	55.0	35.0	21.0	89.0	81.0 J	120.0 J	100.0	1500.0 U
Carbon Disulfide	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	740.0 U
1,1-Dichloroethene	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	740.0 U
1,1-Dichloroethane	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	740.0 U
1,2-Dichloroethene (total)	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	740.0 U
Chloroform	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	740.0 U
1,2-Dichloroethane	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	740.0 U
2-Butanone	11.0 U	12.0 U	11.0 U	12.0 U	12.0 U	R	R	12.0 U	1500.0 U
1,1,1-Trichloroethane	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0	3.0 J	6.0 U	740.0 U
Carbon Tetrachloride	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	740.0 U
Vinyl Acetate	11.0 U	12.0 U	11.0 U	12.0 U	12.0 U	11.0 U	13.0 U	12.0 U	1500.0 U
Bromodichloromethane	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	740.0 U
1,2-Dichloropropane	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	740.0 U
cis-1,3-Dichloropropene	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	740.0 U
Trichloroethene	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	31.0	740.0 U
Dibromochloromethane	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	740.0 U
1,1,2-Trichloroethane	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	740.0 U
Benzene	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	740.0 U
trans-1,3-Dichloropropene	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	740.0 U
Bromoform	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	740.0 U
4-Methyl-2-Pentanone	11.0 U	12.0 U	11.0 U	12.0 U	12.0 U	11.0 U	13.0 U	12.0 U	1500.0 U
2-Hexanone	11.0 U	12.0 U	11.0 U	12.0 U	12.0 U	11.0 U	13.0 U	12.0 U	1500.0 U
Tetrachloroethene	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	740.0 U
1,1,2,2-Tetrachloroethane	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	740.0 U
Toluene	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	740.0 U
Chlorobenzene	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	780.0
Ethylbenzene	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	740.0 U
Styrene	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	740.0 U
Xylenes(total)	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	740.0 U

FOOTNOTES :
ug/kg (micrograms per kilogram) = ppb (parts per billion).
Units for inorganic results are mg/kg (milligrams per kilogram).
J is a data qualifier indicating estimated values (appendix A).
R = Analyte was rejected due to QA/QC.
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U = Indicates element was analyzed for but not detected. The number shown is the detection limit.
D = Denotes analyte quantified at a secondary dilution factor.
E = Estimated value due to excedence of linear calibration range.

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE E-1 (contd)
VOLATILES
SOIL BORING ANALYTICAL RESULTS

06/26/90

	CONCENTRATIONS in ug/kg			
SAMPLE NUMBER -	MW-16S-03	MW-16S-3DUP	MW-17S-05	MW-17S-11
VOLATILES				
Chloromethane	1600.0 U	1600.0 U	3000.0 U	1500.0 U
Bromomethane	1600.0 U	1600.0 U	3000.0 U	1500.0 U
Vinyl Chloride	1600.0 U	1600.0 U	3000.0 U	1500.0 U
Chloroethane	1600.0 U	1600.0 U	3000.0 U	1500.0 U
Methylene Chloride	890.0 U	790.0 U	1900.0 U	1100.0 U
Acetone	1600.0 U	1600.0 U	3000.0 U	1500.0 U
Carbon Disulfide	790.0 U	790.0 U	1500.0 U	750.0 U
1,1-Dichloroethene	790.0 U	790.0 U	1500.0 U	750.0 U
1,1-Dichloroethane	790.0 U	790.0 U	1500.0 U	750.0 U
1,2-Dichloroethene (total)	790.0 U	790.0 U	1500.0 U	750.0 U
Chloroform	790.0 U	790.0 U	1500.0 U	750.0 U
1,2-Dichloroethane	790.0 U	790.0 U	1500.0 U	750.0 U
2-Butanone	1600.0 U	1600.0 U	3000.0 U	1500.0 U
1,1,1-Trichloroethane	790.0 U	790.0 U	1500.0 U	750.0 U
Carbon Tetrachloride	790.0 U	790.0 U	1500.0 U	750.0 U
Vinyl Acetate	1600.0 U	1600.0 U	3000.0 U	1500.0 U
Bromodichloromethane	790.0 U	790.0 U	1500.0 U	750.0 U
1,2-Dichloropropane	790.0 U	790.0 U	1500.0 U	750.0 U
cis-1,3-Dichloropropene	790.0 U	790.0 U	1500.0 U	750.0 U
Trichloroethene	790.0 U	790.0 U	1500.0 U	750.0 U
Dibromochloromethane	790.0 U	790.0 U	1500.0 U	750.0 U
1,1,2-Trichloroethane	790.0 U	790.0 U	1500.0 U	750.0 U
Benzene	790.0 U	790.0 U	1500.0 U	750.0 U
trans-1,3-Dichloropropene	790.0 U	790.0 U	1500.0 U	750.0 U
Bromoform	790.0 U	790.0 U	1500.0 U	750.0 U
4-Methyl-2-Pentanone	1600.0 U	1600.0 U	3000.0 U	1500.0 U
2-Hexanone	1600.0 U	1600.0 U	3000.0 U	1500.0 U
Tetrachloroethene	790.0 U	790.0 U	1500.0 U	750.0 U
1,1,2,2-Tetrachloroethane	790.0 U	790.0 U	1500.0 U	750.0 U
Toluene	790.0 U	790.0 U	1500.0 U	750.0 U
Chlorobenzene	790.0 U	790.0 U	1500.0 U	750.0 U
Ethylbenzene	790.0 U	790.0 U	1500.0 U	750.0 U
Styrene	790.0 U	790.0 U	1500.0 U	750.0 U
Xylenes(total)	790.0 U	790.0 U	1500.0 U	750.0 U

FOOTNOTES :
ug/kg (micrograms per kilogram) = ppb (parts per billion).
Units for inorganic results are mg/kg (milligrams per kilogram).
J is a data qualifier indicating estimated values (appendix A).
R = Analyte was rejected due to QA/QC.
B = For organics, analyte was detected in the method blank.
B = For inorganics, analyte value is between the contract required detection limit (CRDL) and the instrument detection limit (IDL).
U = Indicates element was analyzed for but not detected. The number shown is the detection limit.
D = Denotes analyte quantified at a secondary dilution factor.
E = Estimated value due to excedence of linear calibration range.

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE E-2
SEMI-VOLATILES 1
SOIL BORING ANALYTICAL RESULTS

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	CONCENTRATIONS in ug/kg								
SAMPLE NUMBER -	B1-SS-05	B1-SS-06	B2-SS-03	B2-SS-05RE	B3-SS-06	B3-SS-6DL	B4-SS-03	B4-SS-10	B5-SS-08
SEMI-VOLATILES 1									
Phenol	390.0 U	400.0 U	380.0 U	390.0 UJ	85000.0 U	170000.0 U	150000.0	1800.0	390.0 U
bis(2-Chloroethyl)Ether	390.0 U	400.0 U	380.0 U	390.0 UJ	85000.0 U	170000.0 U	14000.0 U	390.0 U	390.0 U
2-Chlorophenol	390.0 U	400.0 U	380.0 U	390.0 UJ	85000.0 U	170000.0 U	14000.0 U	390.0 U	390.0 U
1,3-Dichlorobenzene	390.0 U	400.0 U	380.0 U	390.0 UJ	85000.0 U	170000.0 U	14000.0 U	390.0 U	390.0 U
1,4-Dichlorobenzene	390.0 U	400.0 U	380.0 U	390.0 UJ	85000.0 U	170000.0 U	14000.0 U	390.0 U	390.0 U
Benzyl Alcohol	390.0 U	400.0 U	380.0 U	390.0 UJ	85000.0 U	170000.0 UJ	14000.0 U	390.0 U	390.0 U
1,2-Dichlorobenzene	390.0 U	400.0 U	380.0 U	390.0 UJ	85000.0 U	170000.0 U	14000.0 U	390.0 U	390.0 U
2-Methylphenol	390.0 U	400.0 U	380.0 U	390.0 UJ	85000.0 U	170000.0 U	4400.0 J	390.0 U	390.0 U
bis(2-Chloroisopropyl)Ether	390.0 U	400.0 U	380.0 U	390.0 UJ	85000.0 U	170000.0 U	14000.0 U	390.0 U	390.0 U
4-Methylphenol	390.0 U	400.0 U	380.0 U	390.0 UJ	85000.0 U	170000.0 U	14000.0 U	390.0 U	390.0 U
N-Nitroso-Di-n-Propylamine	390.0 U	400.0 U	380.0 U	390.0 UJ	85000.0 U	170000.0 U	14000.0 U	390.0 U	390.0 U
Hexachloroethane	390.0 U	400.0 U	380.0 U	390.0 UJ	85000.0 U	170000.0 U	14000.0 U	390.0 U	390.0 U
Nitrobenzene	390.0 U	400.0 U	380.0 U	390.0 UJ	85000.0 U	170000.0 U	14000.0 U	390.0 U	390.0 U
Isophorone	390.0 U	400.0 U	380.0 U	390.0 UJ	85000.0 U	170000.0 U	14000.0 U	390.0 U	390.0 U
2-Nitrophenol	390.0 U	400.0 U	380.0 U	390.0 UJ	85000.0 U	170000.0 U	14000.0 U	390.0 U	390.0 U
2,4-Dimethylphenol	390.0 U	400.0 U	380.0 U	390.0 UJ	85000.0 U	170000.0 U	14000.0 U	390.0 U	390.0 U
Benzoic Acid	1900.0 U	1900.0 U	1800.0 U	1900.0 UJ	420000.0 U	850000.0 U	69000.0 U	1900.0 U	1900.0 U
bis(2-Chloroethoxy)Methane	390.0 U	400.0 U	380.0 U	390.0 UJ	85000.0 U	170000.0 U	14000.0 U	390.0 U	390.0 U
2,4-Dichlorophenol	390.0 U	400.0 U	380.0 U	390.0 UJ	85000.0 U	170000.0 U	14000.0 U	390.0 U	390.0 U
1,2,4-Trichlorobenzene	390.0 U	400.0 U	380.0 U	390.0 UJ	85000.0 U	170000.0 U	14000.0 U	390.0 U	390.0 U
Naphthalene	390.0 U	400.0 U	380.0 U	390.0 UJ	85000.0 U	170000.0 U	14000.0 U	390.0 U	390.0 U
4-Chloroaniline	390.0 U	400.0 U	380.0 U	390.0 UJ	85000.0 U	170000.0 U	14000.0 U	390.0 U	390.0 U
Hexachlorobutadiene	390.0 U	400.0 U	380.0 U	390.0 UJ	85000.0 U	170000.0 U	14000.0 U	390.0 U	390.0 U
4-Chloro-3-Methylphenol	390.0 U	400.0 U	380.0 U	390.0 UJ	85000.0 U	170000.0 U	14000.0 U	390.0 U	390.0 U
2-Methylnaphthalene	390.0 U	400.0 U	380.0 U	390.0 UJ	85000.0 U	170000.0 U	14000.0 U	390.0 U	390.0 U
Hexachlorocyclopentadiene	390.0 U	400.0 U	380.0 U	390.0 UJ	85000.0 U	170000.0 U	14000.0 U	390.0 U	390.0 U
2,4,6-Trichlorophenol	390.0 U	400.0 U	380.0 U	390.0 UJ	85000.0 U	170000.0 U	14000.0 U	390.0 U	390.0 U
2,4,5-Trichlorophenol	1900.0 U	1900.0 U	1800.0 U	1900.0 UJ	420000.0 U	850000.0 U	69000.0 U	1900.0 U	1900.0 U
2-Chloronaphthalene	390.0 U	400.0 U	380.0 U	390.0 UJ	85000.0 U	170000.0 U	14000.0 U	390.0 U	390.0 U
2-Nitroaniline	1900.0 U	1900.0 U	1800.0 U	1900.0 UJ	420000.0 U	850000.0 U	69000.0 U	1900.0 U	1900.0 U
Dimethyl Phthalate	390.0 U	400.0 U	380.0 U	390.0 UJ	85000.0 U	170000.0 U	14000.0 U	390.0 U	390.0 U
Acenaphthylene	390.0 U	400.0 U	75.0 J	390.0 UJ	85000.0 U	170000.0 U	14000.0 U	390.0 U	390.0 U
2,6-Dinitrotoluene	390.0 U	400.0 U	380.0 U	390.0 UJ	85000.0 U	170000.0 U	14000.0 U	390.0 U	390.0 U

FOOTNOTES :
ug/kg (micrograms per kilogram) = ppb (parts per billion).
Units for inorganic results are mg/kg (milligrams per kilogram).
J is a data qualifier indicating estimated values (appendix A).
R = Analyte was rejected due to QA/QC.
B = For organics, analyte was detected in the method blank.
B = For inorganics, analyte value is between the contract required detection limit (CRDL) and the instrument detection limit (IDL).
U = Indicates element was analyzed for but not detected. The number shown is the detection limit.
D = Denotes analyte quantified at a secondary dilution factor.
E = Estimated value due to excedence of linear calibration range.
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PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE E-2 (contd)
SEMI-VOLATILES 1
SOIL BORING ANALYTICAL RESULTS

06/26/90

	CONCENTRATIONS in ug/kg								
SAMPLE NUMBER -	B6-SS-07	B6-SS-7DUP	B7-SS-06	B8-SS-08	B9-SS-07	B9-SS-10	B10-SS-02	B10-SS-05	B11-SS-07
SEMI-VOLATILES 1			mg/kg						
Phenol	880.0 U	850.0 U	9200.0 U	R	780.0 U	R	75000.0 U	42000.0 U	2300.0 U
bis(2-Chloroethyl)Ether	880.0 U	850.0 U	9200.0 U	810.0 U	780.0 U	390.0 U	75000.0 U	42000.0 U	2300.0 U
2-Chlorophenol	880.0 U	850.0 U	9200.0 U	R	780.0 U	R	75000.0 U	42000.0 U	2300.0 U
1,3-Dichlorobenzene	880.0 U	850.0 U	9200.0 U	810.0 U	780.0 U	390.0 U	75000.0 U	42000.0 U	2300.0 U
1,4-Dichlorobenzene	880.0 U	850.0 U	9200.0 U	810.0 U	780.0 U	390.0 U	75000.0 U	42000.0 U	2300.0 U
Benzyl Alcohol	880.0 U	850.0 U	9200.0 UJ	810.0 U	780.0 U	390.0 U	75000.0 UJ	42000.0 UJ	2300.0 U
1,2-Dichlorobenzene	880.0 U	850.0 U	9200.0 U	810.0 U	780.0 U	390.0 U	75000.0 U	42000.0 U	2300.0 U
2-Methylphenol	880.0 U	850.0 U	9200.0 U	R	780.0 U	R	75000.0 U	42000.0 U	2300.0 U
bis(2-Chloroisopropyl)Ether	880.0 U	850.0 U	9200.0 U	810.0 U	780.0 U	390.0 U	75000.0 U	42000.0 U	2300.0 U
4-Methylphenol	880.0 U	850.0 U	9200.0 U	R	780.0 U	R	36000.0 J	42000.0 U	2300.0 U
N-Nitroso-Di-n-Propylamine	880.0 U	850.0 U	9200.0 U	810.0 U	780.0 U	390.0 U	75000.0 U	42000.0 U	2300.0 U
Hexachloroethane	880.0 U	850.0 U	9200.0 U	810.0 U	780.0 U	390.0 U	75000.0 U	42000.0 U	2300.0 U
Nitrobenzene	880.0 U	850.0 U	9200.0 U	810.0 U	780.0 U	390.0 U	75000.0 U	42000.0 U	2300.0 U
Isophorone	880.0 U	850.0 U	9200.0 U	810.0 U	780.0 U	390.0 U	75000.0 U	42000.0 U	2300.0 U
2-Nitrophenol	880.0 U	850.0 U	9200.0 U	R	780.0 U	R	75000.0 U	42000.0 U	2300.0 U
2,4-Dimethylphenol	880.0 U	850.0 U	9200.0 U	R	780.0 U	R	110000.0	65000.0	2300.0 U
Benzoic Acid	4400.0 U	4200.0 U	46000.0 U	R	3900.0 U	R	380000.0 U	210000.0 U	1800.0 J
bis(2-Chloroethoxy)Methane	880.0 U	850.0 U	9200.0 U	810.0 U	780.0 U	390.0 U	75000.0 U	42000.0 U	2300.0 U
2,4-Dichlorophenol	880.0 U	850.0 U	9200.0 U	R	780.0 U	R	75000.0 U	42000.0 U	2300.0 U
1,2,4-Trichlorobenzene	880.0 U	850.0 U	9200.0 U	810.0 U	780.0 U	390.0 U	75000.0 U	42000.0 U	2300.0 U
Naphthalene	880.0 U	850.0 U	9200.0 U	810.0 U	780.0 U	390.0 U	7500.0 J	3900.0 J	340.0 J
4-Chloroaniline	880.0 U	850.0 U	9200.0 U	810.0 U	780.0 U	390.0 U	75000.0 U	42000.0 U	2300.0 U
Hexachlorobutadiene	880.0 U	850.0 U	9200.0 U	810.0 U	780.0 U	390.0 U	75000.0 U	42000.0 U	2300.0 U
4-Chloro-3-Methylphenol	880.0 U	850.0 U	9200.0 U	R	780.0 U	R	75000.0 U	42000.0 U	2300.0 U
2-Methylnaphthalene	880.0 U	850.0 U	9200.0 U	810.0 U	780.0 U	390.0 U	75000.0 U	9900.0 J	2300.0 U
Hexachlorocyclopentadiene	880.0 U	850.0 U	9200.0 U	810.0 U	780.0 U	390.0 U	75000.0 U	42000.0 U	2300.0 U
2,4,6-Trichlorophenol	880.0 U	850.0 U	9200.0 U	R	780.0 U	R	75000.0 U	42000.0 U	2300.0 U
2,4,5-Trichlorophenol	4400.0 U	4200.0 U	46000.0 U	R	3900.0 U	R	380000.0 U	210000.0 U	11000.0 U
2-Chloronaphthalene	880.0 U	850.0 U	9200.0 U	810.0 U	780.0 U	390.0 U	75000.0 U	42000.0 U	2300.0 U
2-Nitroaniline	4400.0 U	4200.0 U	46000.0 U	4100.0 U	3900.0 U	1900.0 U	380000.0 U	210000.0 U	11000.0 U
Dimethyl Phthalate	880.0 U	850.0 U	9200.0 U	810.0 U	780.0 U	390.0 U	75000.0 U	42000.0 U	2300.0 U
Acenaphthylene	880.0 U	850.0 U	9200.0 U	810.0 U	780.0 U	390.0 U	75000.0 U	42000.0 U	2300.0 U
2,6-Dinitrotoluene	880.0 U	850.0 U	9200.0 U	810.0 U	780.0 U	390.0 U	75000.0 U	42000.0 U	2300.0 U

FOOTNOTES :
ug/kg (micrograms per kilogram) = ppb (parts per billion).
Units for inorganic results are mg/kg (milligrams per kilogram).
J is a data qualifier indicating estimated values (appendix A).
R = Analyte was rejected due to QA/QC.
B = For organics, analyte was detected in the method blank.
B = For inorganics, analyte value is between the contract required detection limit (CRDL) and the instrument detection limit (IDL).
U = Indicates element was analyzed for but not detected. The number shown is the detection limit.
D = Denotes analyte quantified at a secondary dilution factor.
E = Estimated value due to excedence of linear calibration range.

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE E-2 (contd)
SEMI-VOLATILES 1
SOIL BORING ANALYTICAL RESULTS

06/26/90

	CONCENTRATIONS in ug/kg								
SAMPLE NUMBER -	B12-SS-01	B12-SS-04	B13-SS-04	B13-SS-567	B14-SS-05	B14-SS-13	B15-SS-06	B15-SS-13	B16-SS-08
SEMI-VOLATILES 1									
Phenol	1200.0 U	400.0 U	550.0	380.0 U	410.0 U	380.0 U	390.0 U	R	800.0 U
bis(2-Chloroethyl)Ether	1200.0 U	400.0 U	420.0 U	380.0 U	410.0 U	380.0 U	390.0 U	740.0 U	800.0 U
2-Chlorophenol	1200.0 U	400.0 U	420.0 U	380.0 U	410.0 U	380.0 U	390.0 U	R	800.0 U
1,3-Dichlorobenzene	1200.0 U	400.0 U	420.0 U	380.0 U	410.0 U	380.0 U	390.0 U	740.0 U	800.0 U
1,4-Dichlorobenzene	1200.0 U	400.0 U	420.0 U	380.0 U	410.0 U	380.0 U	390.0 U	740.0 U	800.0 U
Benzyl Alcohol	1200.0 UJ	400.0 U	420.0 UJ	380.0 UJ	410.0 U	380.0 U	390.0 UJ	740.0 UJ	800.0 U
1,2-Dichlorobenzene	1200.0 U	400.0 U	420.0 U	380.0 U	410.0 U	380.0 U	390.0 U	740.0 U	800.0 U
2-Methylphenol	1200.0 U	400.0 U	420.0 U	380.0 U	410.0 U	380.0 U	390.0 U	R	800.0 U
bis(2-Chloroisopropyl)Ether	1200.0 U	400.0 U	420.0 U	380.0 U	410.0 U	380.0 U	390.0 U	740.0 U	800.0 U
4-Methylphenol	1200.0 U	400.0 U	420.0 U	380.0 U	410.0 U	380.0 U	390.0 U	R	800.0 U
N-Nitroso-Di-n-Propylamine	1200.0 U	400.0 U	420.0 U	380.0 U	410.0 U	380.0 U	390.0 U	740.0 U	800.0 U
Hexachloroethane	1200.0 U	400.0 U	420.0 U	380.0 U	410.0 U	380.0 U	390.0 U	740.0 U	800.0 U
Nitrobenzene	1200.0 U	400.0 U	420.0 U	380.0 U	410.0 U	380.0 U	390.0 U	740.0 U	800.0 U
Isophorone	1200.0 U	400.0 U	420.0 U	380.0 U	410.0 U	380.0 U	390.0 U	740.0 U	800.0 U
2-Nitrophenol	1200.0 U	400.0 U	420.0 U	380.0 U	410.0 U	380.0 U	390.0 U	R	800.0 U
2,4-Dimethylphenol	1200.0 U	400.0 U	420.0 U	380.0 U	410.0 U	380.0 U	390.0 U	R	800.0 U
Benzoic Acid	5800.0 U	2000.0 U	2100.0 U	1900.0 U	2100.0 U	1900.0 U	2000.0 U	R	4000.0 U
bis(2-Chloroethoxy)Methane	1200.0 U	400.0 U	420.0 U	380.0 U	410.0 U	380.0 U	390.0 U	740.0 U	800.0 U
2,4-Dichlorophenol	1200.0 U	400.0 U	420.0 U	380.0 U	410.0 U	380.0 U	390.0 U	R	800.0 U
1,2,4-Trichlorobenzene	1200.0 U	400.0 U	420.0 U	380.0 U	410.0 U	380.0 U	390.0 U	740.0 U	800.0 U
Naphthalene	1200.0 U	400.0 U	420.0 U	380.0 U	410.0 U	380.0 U	390.0 U	740.0 U	800.0 U
4-Chloroaniline	1200.0 U	400.0 U	420.0 U	380.0 U	410.0 U	380.0 U	390.0 U	740.0 U	800.0 U
Hexachlorobutadiene	1200.0 U	400.0 U	420.0 U	380.0 U	410.0 U	380.0 U	390.0 U	740.0 U	800.0 U
4-Chloro-3-Methylphenol	1200.0 U	400.0 U	420.0 U	380.0 U	410.0 U	380.0 U	390.0 U	R	800.0 U
2-Methylnaphthalene	1200.0 U	400.0 U	420.0 U	380.0 U	410.0 U	380.0 U	390.0 U	740.0 U	800.0 U
Hexachlorocyclopentadiene	1200.0 U	400.0 U	420.0 U	380.0 U	410.0 U	380.0 U	390.0 U	740.0 U	800.0 U
2,4,6-Trichlorophenol	1200.0 U	400.0 U	420.0 U	380.0 U	410.0 U	380.0 U	390.0 U	R	800.0 U
2,4,5-Trichlorophenol	5800.0 U	2000.0 U	2100.0 U	1900.0 U	2100.0 U	1900.0 U	2000.0 U	R	4000.0 U
2-Chloronaphthalene	1200.0 U	400.0 U	420.0 U	380.0 U	410.0 U	380.0 U	390.0 U	740.0 U	800.0 U
2-Nitroaniline	5800.0 U	2000.0 U	2100.0 U	1900.0 U	2100.0 U	1900.0 U	2000.0 U	3700.0 U	4000.0 U
Dimethyl Phthalate	1200.0 U	400.0 U	420.0 U	380.0 U	410.0 U	380.0 U	390.0 U	740.0 U	800.0 U
Acenaphthylene	1200.0 U	400.0 U	420.0 U	380.0 U	410.0 U	380.0 U	390.0 U	740.0 U	800.0 U
2,6-Dinitrotoluene	1200.0 U	400.0 U	420.0 U	380.0 U	410.0 U	380.0 U	390.0 U	740.0 U	800.0 U

FOOTNOTES :
ug/kg (micrograms per kilogram) = ppb (parts per billion).
Units for inorganic results are mg/kg (milligrams per kilogram).
J is a data qualifier indicating estimated values (appendix A).
R = Analyte was rejected due to QA/QC.
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B = For inorganics, analyte value is between the contract required detection limit (CRDL) and the instrument detection limit (IDL).
U = Indicates element was analyzed for but not detected. The number shown is the detection limit.
D = Denotes analyte quantified at a secondary dilution factor.
E = Estimated value due to excedence of linear calibration range.

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE E-2 (contd)
SEMI-VOLATILES 1
SOIL BORING ANALYTICAL RESULTS

06/26/90

	CONCENTRATIONS in ug/kg								
SAMPLE NUMBER -	B16-SS-10	MW-1D-07	MW-2S-07	MW-2S-11	MW-3S-04	MW-3S-06	MW-3S-07	MW-4D-10	MW-5S-01
SEMI-VOLATILES 1			mg/kg						
Phenol	390.0 U	790.0 U	13.0 U	R	370.0 U	390.0 U	370.0 U	730.0 U	790.0 U
bis(2-Chloroethyl)Ether	390.0 U	790.0 U	13.0 U	390.0 UJ	370.0 U	390.0 U	370.0 U	730.0 U	790.0 U
2-Chlorophenol	390.0 U	790.0 U	13.0 U	R	370.0 U	390.0 U	370.0 U	730.0 U	790.0 U
1,3-Dichlorobenzene	390.0 U	790.0 U	13.0 U	390.0 UJ	370.0 U	390.0 U	370.0 U	730.0 U	790.0 U
1,4-Dichlorobenzene	390.0 U	790.0 U	13.0 U	390.0 UJ	370.0 U	390.0 U	370.0 U	730.0 U	790.0 U
Benzyl Alcohol	390.0 U	790.0 U	13.0 U	390.0 UJ	370.0 U	390.0 U	370.0 U	730.0 U	790.0 U
1,2-Dichlorobenzene	390.0 U	790.0 U	13.0 U	390.0 UJ	370.0 U	390.0 U	370.0 U	730.0 U	790.0 U
2-Methylphenol	390.0 U	790.0 U	13.0 U	R	370.0 U	390.0 U	370.0 U	730.0 U	790.0 U
bis(2-Chloroisopropyl)Ether	390.0 U	790.0 U	13.0 U	390.0 UJ	370.0 U	390.0 U	370.0 U	730.0 U	790.0 U
4-Methylphenol	390.0 U	790.0 U	13.0 U	R	370.0 U	390.0 U	370.0 U	730.0 U	790.0 U
N-Nitroso-Di-n-Propylamine	390.0 U	790.0 U	13.0 U	390.0 UJ	370.0 U	390.0 U	370.0 U	730.0 U	790.0 U
Hexachloroethane	390.0 U	790.0 U	13.0 U	390.0 UJ	370.0 U	390.0 U	370.0 U	730.0 U	790.0 U
Nitrobenzene	390.0 U	790.0 U	13.0 U	390.0 UJ	370.0 U	390.0 U	370.0 U	730.0 U	790.0 U
Isophorone	390.0 U	790.0 U	13.0 U	390.0 UJ	370.0 U	390.0 U	370.0 U	730.0 U	790.0 U
2-Nitrophenol	390.0 U	790.0 U	13.0 U	R	370.0 U	390.0 U	370.0 U	730.0 U	790.0 U
2,4-Dimethylphenol	390.0 U	790.0 U	13.0 U	R	370.0 U	390.0 U	370.0 U	730.0 U	790.0 U
Benzoic Acid	2000.0 U	4000.0 U	62.0 UJ	R	1900.0 U	2000.0 U	1900.0 U	3600.0 U	4000.0 U
bis(2-Chloroethoxy)Methane	390.0 U	790.0 U	13.0 U	390.0 UJ	370.0 U	390.0 U	370.0 U	730.0 U	790.0 U
2,4-Dichlorophenol	390.0 U	790.0 U	13.0 U	R	370.0 U	390.0 U	370.0 U	730.0 U	790.0 U
1,2,4-Trichlorobenzene	390.0 U	790.0 U	13.0 U	390.0 UJ	370.0 U	390.0 U	370.0 U	730.0 U	790.0 U
Naphthalene	390.0 U	790.0 U	13.0 U	390.0 UJ	370.0 U	390.0 U	370.0 U	730.0 U	790.0 U
4-Chloroaniline	390.0 U	790.0 U	13.0 U	390.0 UJ	370.0 U	390.0 U	370.0 U	730.0 U	790.0 U
Hexachlorobutadiene	390.0 U	790.0 U	13.0 U	390.0 UJ	370.0 U	390.0 U	370.0 U	730.0 U	790.0 U
4-Chloro-3-Methylphenol	390.0 U	790.0 U	13.0 U	R	370.0 U	390.0 U	370.0 U	730.0 U	790.0 U
2-Methylnaphthalene	390.0 U	790.0 U	13.0 U	390.0 UJ	370.0 U	390.0 U	370.0 U	730.0 U	790.0 U
Hexachlorocyclopentadiene	390.0 U	790.0 U	13.0 U	390.0 UJ	370.0 U	390.0 U	370.0 U	730.0 U	790.0 U
2,4,6-Trichlorophenol	390.0 U	790.0 U	13.0 U	R	370.0 U	390.0 U	370.0 U	730.0 U	790.0 U
2,4,5-Trichlorophenol	2000.0 U	4000.0 U	62.0 U	R	1900.0 U	2000.0 U	1900.0 U	3600.0 U	4000.0 U
2-Chloronaphthalene	390.0 U	790.0 U	13.0 U	390.0 UJ	370.0 U	390.0 U	370.0 U	730.0 U	790.0 U
2-Nitroaniline	2000.0 U	4000.0 U	62.0 U	1900.0 UJ	1900.0 U	2000.0 U	1900.0 U	3600.0 U	4000.0 U
Dimethyl Phthalate	390.0 U	790.0 U	13.0 U	390.0 UJ	370.0 U	390.0 U	370.0 U	730.0 U	790.0 U
Acenaphthylene	390.0 U	790.0 U	13.0 U	390.0 UJ	370.0 U	390.0 U	370.0 U	730.0 U	790.0 U
2,6-Dinitrotoluene	390.0 U	790.0 U	13.0 U	390.0 UJ	370.0 U	390.0 U	370.0 U	730.0 U	790.0 U

FOOTNOTES :
ug/kg (micrograms per kilogram) = ppb (parts per billion).
Units for inorganic results are mg/kg (milligrams per kilogram).
J is a data qualifier indicating estimated values (appendix A).
R = Analyte was rejected due to QA/QC.
B = For organics, analyte was detected in the method blank.
B = For inorganics, analyte value is between the contract required detection limit (CRDL) and the instrument detection limit (IDL).
U = Indicates element was analyzed for but not detected. The number shown is the detection limit.
D = Denotes analyte quantified at a secondary dilution factor.
E = Estimated value due to excedence of linear calibration range.

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE E-2 (contd)
SEMI-VOLATILES 1
SOIL BORING ANALYTICAL RESULTS

06/26/90

	CONCENTRATIONS in ug/kg								
SAMPLE NUMBER -	MW-6S-02	MW-6S-03	MW-6S-03BD	MW-7S-15	MW-8S-05	MW-9S-06	MW-10S-07	MW-11S-07	MW-12S-07
SEMI-VOLATILES 1									
Phenol	380.0 U	390.0 U	400.0 U	420.0 U	400.0 U	370.0 U	400.0 U	400.0 U	380.0 U
bis(2-Chloroethyl)Ether	380.0 U	390.0 U	400.0 U	420.0 U	400.0 U	370.0 U	400.0 U	400.0 U	380.0 U
2-Chlorophenol	380.0 U	390.0 U	400.0 U	420.0 U	400.0 U	370.0 U	400.0 U	400.0 U	380.0 U
1,3-Dichlorobenzene	380.0 U	390.0 U	400.0 U	420.0 U	400.0 U	370.0 U	400.0 U	400.0 U	380.0 U
1,4-Dichlorobenzene	380.0 U	390.0 U	400.0 U	420.0 U	400.0 U	370.0 U	400.0 U	400.0 U	380.0 U
Benzyl Alcohol	380.0 U	390.0 U	400.0 U	420.0 U	400.0 U	370.0 U	400.0 U	400.0 U	380.0 U
1,2-Dichlorobenzene	380.0 U	390.0 U	400.0 U	420.0 U	400.0 U	370.0 U	400.0 U	400.0 U	380.0 U
2-Methylphenol	380.0 U	390.0 U	400.0 U	420.0 U	400.0 U	370.0 U	400.0 U	400.0 U	380.0 U
bis(2-Chloroisopropyl)Ether	380.0 U	390.0 U	400.0 U	420.0 U	400.0 U	370.0 U	400.0 U	400.0 U	380.0 U
4-Methylphenol	380.0 U	390.0 U	400.0 U	420.0 U	400.0 U	370.0 U	400.0 U	400.0 U	380.0 U
N-Nitroso-Di-n-Propylamine	380.0 U	390.0 U	400.0 U	420.0 U	400.0 U	370.0 U	400.0 U	400.0 U	380.0 U
Hexachloroethane	380.0 U	390.0 U	400.0 U	420.0 U	400.0 U	370.0 U	400.0 U	400.0 U	380.0 U
Nitrobenzene	380.0 U	390.0 U	400.0 U	420.0 U	400.0 U	370.0 U	400.0 U	400.0 U	380.0 U
Isophorone	380.0 U	390.0 U	400.0 U	420.0 U	400.0 U	370.0 U	400.0 U	400.0 U	380.0 U
2-Nitrophenol	380.0 U	390.0 U	400.0 U	420.0 U	400.0 U	370.0 U	400.0 U	400.0 U	380.0 U
2,4-Dimethylphenol	380.0 U	390.0 U	400.0 U	420.0 U	400.0 U	370.0 U	400.0 U	400.0 U	380.0 U
Benzoic Acid	1800.0 U	1900.0 U	1900.0 U	2000.0 U	1900.0 U	1800.0 U	1900.0 U	1900.0 U	1800.0 U
bis(2-Chloroethoxy)Methane	380.0 U	390.0 U	400.0 U	420.0 U	400.0 U	370.0 U	400.0 U	400.0 U	380.0 U
2,4-Dichlorophenol	380.0 U	390.0 U	400.0 U	420.0 U	400.0 U	370.0 U	400.0 U	400.0 U	380.0 U
1,2,4-Trichlorobenzene	380.0 U	390.0 U	400.0 U	420.0 U	400.0 U	370.0 U	400.0 U	400.0 U	380.0 U
Naphthalene	380.0 U	390.0 U	400.0 U	420.0 U	400.0 U	370.0 U	400.0 U	400.0 U	120.0 J
4-Chloroaniline	380.0 U	390.0 U	400.0 U	420.0 U	400.0 U	370.0 U	400.0 U	400.0 U	380.0 U
Hexachlorobutadiene	380.0 U	390.0 U	400.0 U	420.0 U	400.0 U	370.0 U	400.0 U	400.0 U	380.0 U
4-Chloro-3-Methylphenol	380.0 U	390.0 U	400.0 U	420.0 U	400.0 U	370.0 U	400.0 U	400.0 U	380.0 U
2-Methylnaphthalene	380.0 U	390.0 U	400.0 U	420.0 U	400.0 U	370.0 U	400.0 U	400.0 U	380.0 U
Hexachlorocyclopentadiene	380.0 U	390.0 U	400.0 U	420.0 U	400.0 U	370.0 U	400.0 U	400.0 U	380.0 U
2,4,6-Trichlorophenol	380.0 U	390.0 U	400.0 U	420.0 U	400.0 U	370.0 U	400.0 U	400.0 U	380.0 U
2,4,5-Trichlorophenol	1800.0 U	1900.0 U	1900.0 U	2000.0 U	1900.0 U	1800.0 U	1900.0 U	1900.0 U	1800.0 U
2-Chloronaphthalene	380.0 U	390.0 U	400.0 U	420.0 U	400.0 U	370.0 U	400.0 U	400.0 U	380.0 U
2-Nitroaniline	1800.0 U	1900.0 U	1900.0 U	2000.0 U	1900.0 U	1800.0 U	1900.0 U	1900.0 U	1800.0 U
Dimethyl Phthalate	380.0 U	390.0 U	400.0 U	420.0 U	400.0 U	370.0 U	400.0 U	400.0 U	380.0 U
Acenaphthylene	380.0 U	390.0 U	400.0 U	420.0 U	400.0 U	370.0 U	400.0 U	400.0 U	380.0 U
2,6-Dinitrotoluene	380.0 U	390.0 U	400.0 U	420.0 U	400.0 U	370.0 U	400.0 U	400.0 U	380.0 U

FOOTNOTES :
ug/kg (micrograms per kilogram) = ppb (parts per billion).
Units for inorganic results are mg/kg (milligrams per kilogram).
J is a data qualifier indicating estimated values (appendix A).
R = Analyte was rejected due to QA/QC.
B = For organics, analyte was detected in the method blank.
B = For inorganics, analyte value is between the contract required detection limit (CRDL) and the instrument detection limit (IDL).
U = Indicates element was analyzed for but not detected. The number shown is the detection limit.
D = Denotes analyte quantified at a secondary dilution factor.
E = Estimated value due to excedence of linear calibration range.

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE E-2 (contd)
SEMI-VOLATILES 1
SOIL BORING ANALYTICAL RESULTS

06/26/90

	CONCENTRATIONS in ug/kg								
SAMPLE NUMBER -	MW-13S-02	MW-13S-06	MW-14S-08	MW-14S-12	MW-15S-05	MW-16S-01	MW-16S-03	MW-16S-3DUP	MW-17S-05
SEMI-VOLATILES 1									
Phenol	400.0 U	400.0 U	370.0 U	420.0 UJ	820.0 U	390.0 U	420.0 U	420.0 U	11000.0 E
bis(2-Chloroethyl)Ether	400.0 U	400.0 U	370.0 U	420.0 UJ	820.0 U	390.0 U	420.0 U	420.0 U	390.0 U
2-Chlorophenol	400.0 U	400.0 U	370.0 U	420.0 UJ	820.0 U	390.0 U	420.0 U	420.0 U	390.0 U
1,3-Dichlorobenzene	400.0 U	400.0 U	370.0 U	420.0 UJ	820.0 U	390.0 U	420.0 U	420.0 U	390.0 U
1,4-Dichlorobenzene	400.0 U	400.0 U	370.0 U	420.0 UJ	820.0 U	390.0 U	420.0 U	420.0 U	390.0 U
Benzyl Alcohol	400.0 U	400.0 U	370.0 U	420.0 UJ	820.0 U	390.0 U	420.0 U	420.0 U	390.0 U
1,2-Dichlorobenzene	400.0 U	400.0 U	370.0 U	420.0 UJ	820.0 U	390.0 U	420.0 U	420.0 U	390.0 U
2-Methylphenol	400.0 U	400.0 U	370.0 U	420.0 UJ	820.0 U	390.0 U	420.0 U	420.0 U	390.0 U
bis(2-Chloroisopropyl)Ether	400.0 U	400.0 U	370.0 U	420.0 UJ	820.0 U	390.0 U	420.0 U	420.0 U	390.0 U
4-Methylphenol	400.0 U	400.0 U	370.0 U	420.0 UJ	820.0 U	390.0 U	420.0 U	420.0 U	390.0 U
N-Nitroso-Di-n-Propylamine	400.0 U	400.0 U	370.0 U	420.0 UJ	820.0 U	390.0 U	420.0 U	420.0 U	390.0 U
Hexachloroethane	400.0 U	400.0 U	370.0 U	420.0 UJ	820.0 U	390.0 U	420.0 U	420.0 U	390.0 U
Nitrobenzene	400.0 U	400.0 U	370.0 U	420.0 UJ	820.0 U	390.0 U	420.0 U	420.0 U	390.0 U
Isophorone	400.0 U	400.0 U	370.0 U	420.0 UJ	820.0 U	390.0 U	420.0 U	420.0 U	390.0 U
2-Nitrophenol	400.0 U	400.0 U	370.0 U	420.0 UJ	820.0 U	390.0 U	420.0 U	420.0 U	390.0 U
2,4-Dimethylphenol	400.0 U	400.0 U	370.0 U	420.0 UJ	820.0 U	390.0 U	420.0 U	420.0 U	390.0 U
Benzoic Acid	2000.0 U	2000.0 U	1900.0 U	2100.0 UJ	4100.0 U	2000.0 U	2100.0 U	2100.0 U	2000.0 U
bis(2-Chloroethoxy)Methane	400.0 U	400.0 U	370.0 U	420.0 UJ	820.0 U	390.0 U	420.0 U	420.0 U	390.0 U
2,4-Dichlorophenol	400.0 U	400.0 U	370.0 U	420.0 UJ	820.0 U	390.0 U	420.0 U	420.0 U	390.0 U
1,2,4-Trichlorobenzene	400.0 U	400.0 U	370.0 U	420.0 UJ	820.0 U	390.0 U	420.0 U	420.0 U	390.0 U
Naphthalene	400.0 U	400.0 U	370.0 U	420.0 UJ	820.0 U	390.0 U	420.0 U	420.0 U	390.0 U
4-Chloroaniline	400.0 U	400.0 U	370.0 U	420.0 UJ	820.0 U	390.0 U	420.0 U	420.0 U	390.0 U
Hexachlorobutadiene	400.0 U	400.0 U	370.0 U	420.0 UJ	820.0 U	390.0 U	420.0 U	420.0 U	390.0 U
4-Chloro-3-Methylphenol	400.0 U	400.0 U	370.0 U	420.0 UJ	820.0 U	390.0 U	420.0 U	420.0 U	390.0 U
2-Methylnaphthalene	400.0 U	400.0 U	370.0 U	420.0 UJ	820.0 U	390.0 U	420.0 U	420.0 U	390.0 U
Hexachlorocyclopentadiene	400.0 U	400.0 U	370.0 U	420.0 UJ	820.0 U	390.0 U	420.0 UJ	420.0 U	390.0 U
2,4,6-Trichlorophenol	400.0 U	400.0 U	370.0 U	420.0 UJ	820.0 U	390.0 U	420.0 UJ	420.0 U	390.0 U
2,4,5-Trichlorophenol	2000.0 U	2000.0 U	1900.0 U	2100.0 UJ	4100.0 U	2000.0 U	2100.0 UJ	2100.0 U	2000.0 U
2-Chloronaphthalene	400.0 U	400.0 U	370.0 U	420.0 UJ	820.0 U	390.0 U	420.0 UJ	420.0 U	390.0 U
2-Nitroaniline	2000.0 U	2000.0 U	1900.0 U	2100.0 UJ	4100.0 U	2000.0 U	2100.0 UJ	2100.0 U	2000.0 U
Dimethyl Phthalate	400.0 U	400.0 U	370.0 U	420.0 UJ	820.0 U	390.0 U	420.0 UJ	420.0 U	390.0 U
Acenaphthylene	400.0 U	400.0 U	370.0 U	420.0 UJ	820.0 U	390.0 U	420.0 UJ	420.0 U	390.0 U
2,6-Dinitrotoluene	400.0 U	400.0 U	370.0 U	420.0 UJ	820.0 U	390.0 U	420.0 UJ	420.0 U	390.0 U

FOOTNOTES :
ug/kg (micrograms per kilogram) = ppb (parts per billion).
Units for inorganic results are mg/kg (milligrams per kilogram).
J is a data qualifier indicating estimated values (appendix A).
R = Analyte was rejected due to QA/QC.
B = For organics, analyte was detected in the method blank.
B = For inorganics, analyte value is between the contract required detection limit (CRDL) and the instrument detection limit (IDL).
U = Indicates element was analyzed for but not detected. The number shown is the detection limit.
D = Denotes analyte quantified at a secondary dilution factor.
E = Estimated value due to excedence of linear calibration range.

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE E-2 (contd)
SEMI-VOLATILES 1
SOIL BORING ANALYTICAL RESULTS

06/26/90

	CONCENTRATIONS in ug/kg
SAMPLE NUMBER -	MW-17S-11
SEMI-VOLATILES 1	
Phenol	310.0 J
bis(2-Chloroethyl)Ether	390.0 U
2-Chlorophenol	390.0 U
1,3-Dichlorobenzene	390.0 U
1,4-Dichlorobenzene	390.0 U
Benzyl Alcohol	390.0 U
1,2-Dichlorobenzene	390.0 U
2-Methylphenol	390.0 U
bis(2-Chloroisopropyl)Ether	390.0 U
4-Methylphenol	390.0 U
N-Nitroso-Di-n-Propylamine	390.0 U
Hexachloroethane	390.0 U
Nitrobenzene	390.0 U
Isophorone	390.0 U
2-Nitrophenol	390.0 U
2,4-Dimethylphenol	390.0 U
Benzoic Acid	2000.0 U
bis(2-Chloroethoxy)Methane	390.0 U
2,4-Dichlorophenol	390.0 U
1,2,4-Trichlorobenzene	390.0 U
Naphthalene	390.0 U
4-Chloroaniline	390.0 U
Hexachlorobutadiene	390.0 U
4-Chloro-3-Methylphenol	390.0 U
2-Methylnaphthalene	390.0 U
Hexachlorocyclopentadiene	390.0 U
2,4,6-Trichlorophenol	390.0 U
2,4,5-Trichlorophenol	2000.0 U
2-Chloronaphthalene	390.0 U
2-Nitroaniline	2000.0 U
Dimethyl Phthalate	390.0 U
Acenaphthylene	390.0 U
2,6-Dinitrotoluene	390.0 U

FOOTNOTES :
ug/kg (micrograms per kilogram) = ppb (parts per billion).
Units for inorganic results are mg/kg (milligrams per kilogram).
J is a data qualifier indicating estimated values (appendix A).
R = Analyte was rejected due to QA/QC.
B = For organics, analyte was detected in the method blank.
B = For inorganics, analyte value is between the contract required detection limit (CRDL) and the instrument detection limit (IDL).
U = Indicates element was analyzed for but not detected. The number shown is the detection limit.
D = Denotes analyte quantified at a secondary dilution factor.
E = Estimated value due to excedence of linear calibration range.

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE E-2
SEMI-VOLATILES 2
SOIL BORING ANALYTICAL RESULTS

06/26/90

SAMPLE NUMBER	CONCENTRATIONS in ug/kg								
	B1-SS-05	B1-SS-06	B2-SS-03	B2-SS-05RE	B3-SS-06	B3-SS-60L	B4-SS-03	B4-SS-10	B5-SS-08
SEMI-VOLATILES 2									
3-Nitroaniline	1900.0 U	1900.0 U	1800.0 U	1900.0 UJ	420000.0 U	850000.0 U	69000.0 U	1900.0 U	1900.0 U
Acenaphthene	390.0 U	400.0 U	380.0 U	390.0 UJ	85000.0 U	170000.0 U	14000.0 U	390.0 U	390.0 U
2,4-Dinitrophenol	1900.0 U	1900.0 U	1800.0 U	1900.0 UJ	420000.0 U	850000.0 U	69000.0 U	1900.0 U	1900.0 U
4-Nitrophenol	1900.0 U	1900.0 U	1800.0 U	1900.0 UJ	420000.0 U	850000.0 U	69000.0 U	1900.0 U	1900.0 U
Dibenzofuran	390.0 U	400.0 U	380.0 U	390.0 UJ	1800000.0 E	1900000.0	2100.0 J	120.0 J	390.0 U
2,4-Dinitrotoluene	390.0 U	400.0 U	380.0 U	390.0 UJ	85000.0 U	170000.0 U	14000.0 U	390.0 U	390.0 U
Diethylphthalate	390.0 U	400.0 U	380.0 U	390.0 UJ	85000.0 U	170000.0 U	14000.0 U	390.0 U	390.0 U
4-Chlorophenyl-phenylether	390.0 U	400.0 U	380.0 U	390.0 UJ	85000.0 U	170000.0 U	14000.0 U	390.0 U	390.0 U
Fluorene	390.0 U	400.0 U	380.0 U	390.0 UJ	85000.0 U	170000.0 U	14000.0 U	390.0 U	390.0 U
4-Nitroaniline	1900.0 U	1900.0 U	1800.0 U	1900.0 UJ	420000.0 U	850000.0 U	69000.0 U	1900.0 U	1900.0 U
4,6-Dinitro-2-Methylphenol	1900.0 U	1900.0 U	1800.0 U	1900.0 UJ	420000.0 U	850000.0 U	69000.0 U	1900.0 U	1900.0 U
N-Nitrosodiphenylamine (1)	390.0 U	400.0 U	380.0 U	390.0 UJ	85000.0 U	170000.0 U	14000.0 U	390.0 U	390.0 U
4-Bromophenyl-phenylether	390.0 U	400.0 U	380.0 U	390.0 UJ	85000.0 U	170000.0 U	14000.0 U	390.0 U	390.0 U
Hexachlorobenzene	390.0 U	400.0 U	380.0 U	390.0 UJ	85000.0 U	170000.0 U	14000.0 U	390.0 U	390.0 U
Pentachlorophenol	1900.0 U	1900.0 U	1800.0 U	1900.0 UJ	420000.0 U	850000.0 U	69000.0 U	1900.0 U	1900.0 U
Phenanthrene	390.0 U	400.0 U	350.0 J	390.0 UJ	32000.0 J	170000.0 U	8300.0 J	390.0 U	390.0 U
Anthracene	390.0 U	400.0 U	72.0 J	390.0 UJ	85000.0 U	170000.0 U	1900.0 J	390.0 U	390.0 U
Di-n-Butylphthalate	390.0 U	400.0 U	380.0 U	390.0 UJ	85000.0 U	170000.0 U	14000.0 U	390.0 U	390.0 U
Fluoranthene	390.0 U	400.0 U	910.0	390.0 UJ	67000.0 J	170000.0 U	17000.0	140.0 J	390.0 U
Pyrene	390.0 U	400.0 U	940.0	390.0 UJ	49000.0 J	170000.0 U	5200.0 J	390.0 U	390.0 U
Butylbenzylphthalate	390.0 U	400.0 U	380.0 U	390.0 UJ	85000.0 U	170000.0 U	14000.0 U	140.0 J	390.0 U
3,3'-Dichlorobenzidine	790.0 U	800.0 U	760.0 U	790.0 UJ	170000.0 U	340000.0 U	28000.0 U	780.0 U	780.0 U
Benzo(a)Anthracene	390.0 U	400.0 U	940.0	390.0 UJ	24000.0 J	170000.0 U	2900.0 J	390.0 U	390.0 U
Chrysene	390.0 U	400.0 U	600.0	390.0 UJ	25000.0 J	170000.0 U	14000.0 U	390.0 U	390.0 U
bis(2-Ethylhexyl)Phthalate	390.0 U	400.0 U	3000.0 B	R	34000.0 J	170000.0 U	14000.0 U	390.0 U	390.0 U
Di-n-Octyl Phthalate	390.0 U	400.0 U	380.0 U	390.0 UJ	85000.0 U	170000.0 U	14000.0 U	390.0 U	390.0 U
Benzo(b)Fluoranthene	390.0 U	400.0 U	610.0	390.0 UJ	32000.0 J	170000.0 U	4100.0 J	390.0 U	390.0 U
Benzo(k)Fluoranthene	390.0 U	400.0 U	400.0	390.0 UJ	85000.0 U	170000.0 U	14000.0 U	390.0 U	390.0 U
Benzo(a)Pyrene	390.0 U	400.0 U	390.0	390.0 UJ	21000.0 J	170000.0 U	14000.0 U	390.0 U	390.0 U
Indeno(1,2,3-cd)Pyrene	390.0 U	400.0 U	270.0 J	390.0 UJ	85000.0 U	170000.0 U	14000.0 U	390.0 U	390.0 U
Dibenz(a,h)Anthracene	390.0 U	400.0 U	380.0 U	390.0 UJ	85000.0 U	170000.0 U	14000.0 U	390.0 U	390.0 U
Benzo(g,h,i)Perylene	390.0 U	400.0 U	230.0 J	390.0 UJ	85000.0 U	170000.0 U	14000.0 U	390.0 U	390.0 U

FOOTNOTES :
ug/kg (micrograms per kilogram) = ppb (parts per billion).
Units for inorganic results are mg/kg (milligrams per kilogram).
J is a data qualifier indicating estimated values (appendix A).
R = Analyte was rejected due to QA/QC.
B = For organics, analyte was detected in the method blank.
B = For inorganics, analyte value is between the contract required detection limit (CRDL) and the instrument detection limit (IDL).
U = Indicates element was analyzed for but not detected. The number shown is the detection limit.
D = Denotes analyte quantified at a secondary dilution factor.
E = Estimated value due to excedence of linear calibration range.
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PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE E-2 (contd)
SEMI-VOLATILES 2
SOIL BORING ANALYTICAL RESULTS

06/26/90

	CONCENTRATIONS in ug/kg								
SAMPLE NUMBER :	B6-SS-07	B6-SS-7DUP	B7-SS-06	B8-SS-08	B9-SS-07	B9-SS-10	B10-SS-02	B10-SS-05	B11-SS-07
SEMI-VOLATILES 2			mg/kg						
3-Nitroaniline	4400.0 U	4200.0 U	46000.0 UJ	4100.0 U	3900.0 U	1900.0 U	380000.0 UJ	210000.0 UJ	11000.0 U
Acenaphthene	880.0 U	850.0 U	9200.0 U	210.0 J	780.0 U	390.0 U	75000.0 U	42000.0 U	2300.0 U
2,4-Dinitrophenol	4400.0 U	4200.0 U	46000.0 U	R	3900.0 U	R	380000.0 U	210000.0 U	11000.0 U
4-Nitrophenol	4400.0 U	4200.0 U	46000.0 U	R	3900.0 U	R	380000.0 U	210000.0 U	11000.0 U
Dibenzofuran	580.0 J	440.0 J	9200.0 U	150.0 J	780.0 U	390.0 U	75000.0 U	42000.0 U	2300.0 U
2,4-Dinitrotoluene	880.0 U	850.0 U	9200.0 U	810.0 U	780.0 U	390.0 U	75000.0 U	42000.0 U	2300.0 U
Diethylphthalate	880.0 U	850.0 U	9200.0 U	810.0 U	780.0 U	150.0 J	75000.0 U	42000.0 U	2300.0 U
4-Chlorophenyl-phenylether	880.0 U	850.0 U	9200.0 U	810.0 U	780.0 U	390.0 U	75000.0 U	42000.0 U	2300.0 U
Fluorene	880.0 U	850.0 U	9200.0 U	160.0 J	780.0 U	390.0 U	75000.0 U	42000.0 U	2300.0 U
4-Nitroaniline	4400.0 U	4200.0 U	46000.0 U	4100.0 U	3900.0 U	1900.0 U	380000.0 U	210000.0 U	11000.0 U
4,6-Dinitro-2-Methylphenol	4400.0 U	4200.0 U	46000.0 U	R	3900.0 U	R	380000.0 U	210000.0 U	11000.0 U
N-Nitrosodiphenylamine (1)	880.0 U	850.0 U	9200.0 U	810.0 U	780.0 U	390.0 U	75000.0 U	42000.0 U	2300.0 U
4-Bromophenyl-phenylether	880.0 U	850.0 U	9200.0 U	810.0 U	780.0 U	390.0 U	75000.0 U	42000.0 U	2300.0 U
Hexachlorobenzene	880.0 U	850.0 U	9200.0 U	810.0 U	780.0 U	390.0 U	75000.0 U	42000.0 U	2300.0 U
Pentachlorophenol	4400.0 U	4200.0 U	46000.0 U	R	3900.0 U	R	380000.0 U	210000.0 U	11000.0 U
Phenanthrene	690.0 J	76.0 J	9200.0 U	1100.0	780.0 U	390.0 U	75000.0 U	8600.0 J	300.0 J
Anthracene	150.0 J	39.0 J	9200.0 U	290.0 J	780.0 U	390.0 U	75000.0 U	42000.0 U	2300.0 U
Di-n-Butylphthalate	880.0 U	850.0 U	9200.0 U	810.0 U	780.0 U	390.0 U	75000.0 U	42000.0 U	2300.0 U
Fluoranthene	1000.0	120.0 J	9200.0 U	1600.0	780.0 U	390.0 U	75000.0 U	42000.0 U	160.0 J
Pyrene	670.0 J	100.0 J	9200.0 U	1100.0	780.0 U	390.0 U	75000.0 U	42000.0 U	190.0 J
Butylbenzylphthalate	880.0 U	850.0 U	9200.0 U	810.0 U	780.0 U	7900.0 J	75000.0 U	42000.0 U	3400.0
3,3'-Dichlorobenzidine	1800.0 U	1700.0 U	18000.0 UJ	1600.0 U	1600.0 U	780.0 U	150000.0 UJ	85000.0 UJ	4600.0 U
Benzo(a)Anthracene	550.0 J	55.0 J	9200.0 U	790.0 J	780.0 U	390.0 U	75000.0 U	42000.0 U	2300.0 U
Chrysene	460.0 J	53.0 J	9200.0 U	840.0	780.0 U	390.0 U	75000.0 U	42000.0 U	2300.0 U
bis(2-Ethylhexyl)Phthalate	880.0 U	1000.0	9200.0 U	810.0 U	780.0 U	390.0 U	75000.0 U	42000.0 U	1200.0 J
Di-n-Octyl Phthalate	880.0 U	850.0 U	9200.0 U	810.0 UJ	780.0 UJ	390.0 UJ	75000.0 U	42000.0 U	2300.0 U
Benzo(b)Fluoranthene	480.0 J	70.0 J	9200.0 U	960.0 J	780.0 UJ	390.0 UJ	75000.0 U	42000.0 U	2300.0 U
Benzo(k)Fluoranthene	880.0 U	850.0 U	9200.0 U	810.0 UJ	780.0 UJ	390.0 UJ	75000.0 U	42000.0 U	2300.0 U
Benzo(a)Pyrene	880.0 U	850.0 U	9200.0 U	510.0 J	780.0 UJ	390.0 UJ	75000.0 U	42000.0 U	2300.0 U
Indeno(1,2,3-cd)Pyrene	880.0 U	850.0 U	9200.0 U	390.0 J	780.0 UJ	390.0 UJ	75000.0 U	42000.0 U	2300.0 U
Dibenz(a,h)Anthracene	880.0 U	850.0 U	9200.0 U	810.0 UJ	780.0 UJ	390.0 UJ	75000.0 U	42000.0 U	2300.0 U
Benzo(g,h,i)Perylene	880.0 U	850.0 U	9200.0 U	300.0 J	780.0 UJ	390.0 UJ	75000.0 U	42000.0 U	2300.0 U

FOOTNOTES :
ug/kg (micrograms per kilogram) = ppb (parts per billion).
Units for inorganic results are mg/kg (milligrams per kilogram).
J is a data qualifier indicating estimated values (appendix A).
R = Analyte was rejected due to QA/QC.
B = For organics, analyte was detected in the method blank.
B = For inorganics, analyte value is between the contract required detection limit (CRDL) and the instrument detection limit (IDL).
U = Indicates element was analyzed for but not detected. The number shown is the detection limit.
D = Denotes analyte quantified at a secondary dilution factor.
E = Estimated value due to excedence of linear calibration range.

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE E-2 (contd)
SEMI-VOLATILES 2
SOIL BORING ANALYTICAL RESULTS

06/26/90

	CONCENTRATIONS in ug/kg								
SAMPLE NUMBER -	B12-SS-01	B12-SS-04	B13-SS-04	B13-SS-567	B14-SS-05	B14-SS-13	B15-SS-06	B15-SS-13	B16-SS-08
SEMI-VOLATILES 2									
3-Nitroaniline	5800.0 U	2000.0 U	2100.0 U	1900.0 U	2100.0 U	1900.0 U	2000.0 U	3700.0 U	4000.0 U
Acenaphthene	1200.0 U	400.0 U	420.0 U	380.0 U	410.0 U	380.0 U	390.0 U	740.0 U	800.0 U
2,4-Dinitrophenol	5800.0 U	2000.0 U	2100.0 U	1900.0 U	2100.0 U	1900.0 U	2000.0 U	R	4000.0 U
4-Nitrophenol	5800.0 U	2000.0 U	2100.0 U	1900.0 U	2100.0 U	1900.0 U	2000.0 U	R	4000.0 U
Dibenzofuran	1200.0 U	400.0 U	170.0 J	380.0 U	410.0 U	380.0 U	390.0 U	740.0 U	800.0 U
2,4-Dinitrotoluene	1200.0 U	400.0 U	420.0 U	380.0 U	410.0 U	380.0 U	390.0 U	740.0 U	800.0 U
Diethylphthalate	1200.0 U	400.0 U	420.0 U	380.0 U	410.0 U	380.0 U	390.0 U	740.0 U	800.0 U
4-Chlorophenyl-phenylether	1200.0 U	400.0 U	420.0 U	380.0 U	410.0 U	380.0 U	390.0 U	740.0 U	800.0 U
Fluorene	1200.0 U	400.0 U	420.0 U	380.0 U	410.0 U	380.0 U	390.0 U	740.0 U	800.0 U
4-Nitroaniline	5800.0 U	2000.0 U	2100.0 U	1900.0 U	2100.0 U	1900.0 U	2000.0 U	3700.0 U	4000.0 U
4,6-Dinitro-2-Methylphenol	5800.0 U	2000.0 U	2100.0 U	1900.0 U	2100.0 U	1900.0 U	2000.0 U	R	4000.0 U
N-Nitrosodiphenylamine (1)	1200.0 U	400.0 U	420.0 U	380.0 U	410.0 U	380.0 U	390.0 U	740.0 U	800.0 U
4-Bromophenyl-phenylether	1200.0 U	400.0 U	420.0 U	380.0 U	410.0 U	380.0 U	390.0 U	740.0 U	800.0 U
Hexachlorobenzene	1200.0 U	400.0 U	420.0 U	380.0 U	410.0 U	380.0 U	390.0 U	740.0 U	800.0 U
Pentachlorophenol	5800.0 U	2000.0 U	2100.0 U	1900.0 U	2100.0 U	1900.0 U	2000.0 U	R	4000.0 U
Phenanthrene	1200.0 U	400.0 U	420.0 U	380.0 U	410.0 U	380.0 U	390.0 U	740.0 U	800.0 U
Anthracene	1200.0 U	400.0 U	420.0 U	380.0 U	410.0 U	380.0 U	390.0 U	740.0 U	800.0 U
Di-n-Butylphthalate	1200.0 U	400.0 U	420.0 U	380.0 U	410.0 U	380.0 U	390.0 U	740.0 U	800.0 U
Fluoranthene	340.0 J	400.0 U	420.0 U	380.0 U	410.0 U	380.0 U	290.0 J	740.0 U	800.0 U
Pyrene	340.0 J	400.0 U	420.0 U	380.0 U	410.0 U	380.0 U	310.0 J	740.0 U	800.0 U
Butylbenzylphthalate	1200.0 U	400.0 U	420.0 U	380.0 U	410.0 U	380.0 U	390.0 U	740.0 U	800.0 U
3,3'-Dichlorobenzidine	2300.0 U	810.0 U	840.0 U	760.0 U	820.0 U	770.0 U	790.0 U	1500.0 U	1600.0 U
Benzo(a)Anthracene	1200.0 U	400.0 U	420.0 U	380.0 U	410.0 U	380.0 U	280.0 J	740.0 U	800.0 U
Chrysene	1200.0 U	400.0 U	420.0 U	380.0 U	410.0 U	380.0 U	210.0 J	740.0 U	800.0 U
bis(2-Ethylhexyl)Phthalate	1200.0 U	400.0 U	61.0 J	380.0 U	420.0 U	4700.0 BJ	190.0 J	510.0 J	800.0 U
Di-n-Octyl Phthalate	1200.0 U	400.0 U	420.0 U	380.0 U	410.0 U	380.0 U	390.0 U	740.0 U	800.0 U
Benzo(b)Fluoranthene	1200.0 U	400.0 U	420.0 U	380.0 U	410.0 U	380.0 U	240.0 J	740.0 U	800.0 U
Benzo(k)Fluoranthene	1200.0 U	400.0 U	420.0 U	380.0 U	410.0 U	380.0 U	390.0 U	740.0 U	800.0 U
Benzo(a)Pyrene	1200.0 U	400.0 U	420.0 U	380.0 U	410.0 U	380.0 U	170.0 J	740.0 U	800.0 U
Indeno(1,2,3-cd)Pyrene	1200.0 U	400.0 U	420.0 U	380.0 U	410.0 U	380.0 U	95.0 J	740.0 U	800.0 U
Dibenz(a,h)Anthracene	1200.0 U	400.0 U	420.0 U	380.0 U	410.0 U	380.0 U	390.0 U	740.0 U	800.0 U
Benzo(g,h,i)Perylene	1200.0 U	400.0 U	420.0 U	380.0 U	410.0 U	380.0 U	390.0 U	740.0 U	800.0 U

FOOTNOTES :
ug/kg (micrograms per kilogram) = ppb (parts per billion).
Units for inorganic results are mg/kg (milligrams per kilogram).
J is a data qualifier indicating estimated values (appendix A).
R = Analyte was rejected due to QA/QC.
B = For organics, analyte was detected in the method blank.
B = For inorganics, analyte value is between the contract required detection limit (CRDL) and the instrument detection limit (IDL).
U = Indicates element was analyzed for but not detected. The number shown is the detection limit.
D = Denotes analyte quantified at a secondary dilution factor.
E = Estimated value due to excedence of linear calibration range.

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE E-2 (contd)
SEMI-VOLATILES 2
SOIL BORING ANALYTICAL RESULTS

06/26/90

	CONCENTRATIONS in ug/kg								
SAMPLE NUMBER -	B16-SS-10	MW-1D-07	MW-2S-07	MW-2S-11	MW-3S-04	MW-3S-06	MW-3S-07	MW-4D-10	MW-5S-01
SEMI-VOLATILES 2			mg/kg						
3-Nitroaniline	2000.0 U	4000.0 U	62.0 U	1900.0 UJ	1900.0 U	2000.0 U	1900.0 U	3600.0 U	4000.0 U
Acenaphthene	390.0 U	790.0 U	13.0 U	390.0 UJ	370.0 U	390.0 U	370.0 U	730.0 U	790.0 U
2,4-Dinitrophenol	2000.0 U	4000.0 U	62.0 U	R	1900.0 U	2000.0 U	1900.0 U	3600.0 U	4000.0 U
4-Nitrophenol	2000.0 U	4000.0 U	62.0 U	R	1900.0 U	2000.0 U	1900.0 U	3600.0 U	4000.0 U
Dibenzofuran	390.0 U	790.0 U	13.0 U	390.0 UJ	370.0 U	390.0 U	370.0 U	730.0 U	790.0 U
2,4-Dinitrotoluene	390.0 U	790.0 U	13.0 U	390.0 UJ	370.0 U	390.0 U	370.0 U	730.0 U	790.0 U
Diethylphthalate	390.0 U	790.0 U	13.0 U	390.0 UJ	370.0 U	390.0 U	370.0 U	730.0 U	790.0 U
4-Chlorophenyl-phenylether	390.0 U	790.0 U	13.0 U	390.0 UJ	370.0 U	390.0 U	370.0 U	730.0 U	790.0 U
Fluorene	390.0 U	790.0 U	13.0 U	390.0 UJ	370.0 U	390.0 U	370.0 U	730.0 U	790.0 U
4-Nitroaniline	2000.0 U	4000.0 U	62.0 UJ	1900.0 UJ	1900.0 U	2000.0 U	1900.0 U	3600.0 U	4000.0 U
4,6-Dinitro-2-Methylphenol	2000.0 U	4000.0 U	62.0 U	R	1900.0 U	2000.0 U	1900.0 U	3600.0 U	4000.0 U
N-Nitrosodiphenylamine (1)	390.0 U	790.0 U	13.0 U	390.0 UJ	370.0 U	390.0 U	370.0 U	730.0 U	790.0 U
4-Bromophenyl-phenylether	390.0 U	790.0 U	13.0 U	390.0 UJ	370.0 U	390.0 U	370.0 U	730.0 U	790.0 U
Hexachlorobenzene	390.0 U	790.0 U	13.0 U	390.0 UJ	370.0 U	390.0 U	370.0 U	730.0 U	790.0 U
Pentachlorophenol	2000.0 U	4000.0 U	62.0 U	R	1900.0 U	2000.0 U	1900.0 U	3600.0 U	4000.0 U
Phenanthrene	390.0 U	790.0 U	5.0 J	390.0 UJ	370.0 U	390.0 U	370.0 U	730.0 U	790.0 U
Anthracene	390.0 U	790.0 U	13.0 U	390.0 UJ	370.0 U	390.0 U	370.0 U	730.0 U	790.0 U
Di-n-Butylphthalate	390.0 U	790.0 U	13.0 U	390.0 UJ	370.0 U	390.0 U	370.0 U	730.0 U	790.0 U
Fluoranthene	390.0 U	790.0 U	13.0 U	390.0 UJ	370.0 U	390.0 U	370.0 U	730.0 U	790.0 U
Pyrene	390.0 U	790.0 U	13.0 U	390.0 UJ	370.0 U	390.0 U	370.0 U	730.0 U	790.0 U
Butylbenzylphthalate	390.0 U	790.0 U	13.0 U	390.0 UJ	370.0 U	390.0 U	370.0 U	730.0 U	790.0 U
3,3'-Dichlorobenzidine	790.0 U	1600.0 U	25.0 U	780.0 UJ	740.0 U	790.0 U	750.0 U	1500.0 U	1600.0 U
Benzo(a)Anthracene	390.0 U	790.0 U	13.0 U	390.0 UJ	370.0 U	390.0 U	370.0 U	730.0 U	790.0 U
Chrysene	390.0 U	790.0 U	13.0 U	390.0 UJ	370.0 U	390.0 U	370.0 U	730.0 U	790.0 U
bis(2-Ethylhexyl)Phthalate	110.0 U	140.0 J	13.0 U	390.0 UJ	1500.0	250.0 J	130.0 J	140.0 J	790.0 U
Di-n-Octyl Phthalate	390.0 U	790.0 U	13.0 U	390.0 UJ	370.0 U	390.0 U	370.0 U	730.0 U	790.0 U
Benzo(b)Fluoranthene	390.0 U	790.0 U	13.0 U	390.0 UJ	370.0 U	390.0 U	370.0 U	730.0 U	790.0 U
Benzo(k)Fluoranthene	390.0 U	790.0 U	13.0 U	390.0 UJ	370.0 U	390.0 U	370.0 U	730.0 U	790.0 U
Benzo(a)Pyrene	390.0 U	790.0 U	13.0 U	390.0 UJ	370.0 U	390.0 U	370.0 U	730.0 U	790.0 U
Indeno(1,2,3-cd)Pyrene	390.0 U	790.0 U	13.0 U	390.0 UJ	370.0 U	390.0 U	370.0 U	730.0 U	790.0 U
Dibenz(a,h)Anthracene	390.0 U	790.0 U	13.0 U	390.0 UJ	370.0 U	390.0 U	370.0 U	730.0 U	790.0 U
Benzo(g,h,i)Perylene	390.0 U	790.0 U	13.0 U	390.0 UJ	370.0 U	390.0 U	370.0 U	730.0 U	790.0 U

FOOTNOTES :
ug/kg (micrograms per kilogram) = ppb (parts per billion).
Units for inorganic results are mg/kg (milligrams per kilogram).
J is a data qualifier indicating estimated values (appendix A).
R = Analyte was rejected due to QA/QC.
B = For organics, analyte was detected in the method blank.
B = For inorganics, analyte value is between the contract required detection limit (CRDL) and the instrument detection limit (IDL).
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D = Denotes analyte quantified at a secondary dilution factor.
E = Estimated value due to excedence of linear calibration range.
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PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE E-2 (contd)
SEMI-VOLATILES 2
SOIL BORING ANALYTICAL RESULTS

06/26/90

	CONCENTRATIONS in ug/kg								
SAMPLE NUMBER -	MW-6S-02	MW-6S-03	MW-6S-03BD	MW-7S-15	MW-8S-05	MW-9S-06	MW-10S-07	MW-11S-07	MW-12S-07
SEMI-VOLATILES 2									
3-Nitroaniline	1800.0 U	1900.0 U	1900.0 U	2000.0 U	1900.0 U	1800.0 U	1900.0 U	1900.0 U	1800.0 U
Acenaphthene	380.0 U	390.0 U	400.0 U	420.0 U	400.0 U	370.0 U	400.0 U	400.0 U	380.0 U
2,4-Dinitrophenol	1800.0 U	1900.0 U	1900.0 U	2000.0 U	1900.0 U	1800.0 U	1900.0 U	1900.0 U	1800.0 U
4-Nitrophenol	1800.0 U	1900.0 U	1900.0 U	2000.0 U	1900.0 U	1800.0 U	1900.0 U	1900.0 U	1800.0 U
Dibenzofuran	380.0 U	390.0 U	400.0 U	420.0 U	400.0 U	370.0 U	400.0 U	400.0 U	380.0 U
2,4-Dinitrotoluene	380.0 U	390.0 U	400.0 U	420.0 U	400.0 U	370.0 U	400.0 U	400.0 U	380.0 U
Diethylphthalate	380.0 U	390.0 U	400.0 U	420.0 U	400.0 U	370.0 U	400.0 U	400.0 U	380.0 U
4-Chlorophenyl-phenylether	380.0 U	390.0 U	400.0 U	420.0 U	400.0 U	370.0 U	400.0 U	400.0 U	380.0 U
Fluorene	380.0 U	390.0 U	400.0 U	420.0 U	400.0 U	370.0 U	400.0 U	400.0 U	380.0 U
4-Nitroaniline	1800.0 U	1900.0 U	1900.0 U	2000.0 U	1900.0 U	1800.0 U	1900.0 U	1900.0 U	1800.0 U
4,6-Dinitro-2-Methylphenol	1800.0 U	1900.0 U	1900.0 U	2000.0 U	1900.0 U	1800.0 U	1900.0 U	1900.0 U	1800.0 U
N-Nitrosodiphenylamine (1)	380.0 U	390.0 U	400.0 U	420.0 U	400.0 U	370.0 U	400.0 U	400.0 U	380.0 U
4-Bromophenyl-phenylether	380.0 U	390.0 U	400.0 U	420.0 U	400.0 U	370.0 U	400.0 U	400.0 U	380.0 U
Hexachlorobenzene	380.0 U	390.0 U	400.0 U	420.0 U	400.0 U	370.0 U	400.0 U	400.0 U	380.0 U
Pentachlorophenol	1800.0 U	1900.0 U	1900.0 U	2000.0 U	1900.0 U	1800.0 U	1900.0 U	1900.0 U	1800.0 U
Phenanthrene	130.0 J	200.0 J	400.0 U	420.0 U	250.0 J	370.0 U	400.0 U	400.0 U	230.0 J
Anthracene	380.0 U	390.0 U	400.0 U	420.0 U	320.0 J	370.0 U	400.0 U	400.0 U	380.0 U
Di-n-Butylphthalate	380.0 U	390.0 U	400.0 U	420.0 U	400.0 U	370.0 U	400.0 U	400.0 U	380.0 U
Fluoranthene	220.0 J	270.0 J	400.0 U	190.0 J	340.0 J	370.0 U	400.0 U	400.0 U	160.0 J
Pyrene	170.0 J	240.0 J	400.0 U	420.0 U	260.0 J	370.0 U	400.0 U	400.0 U	110.0 J
Butylbenzylphthalate	380.0 U	390.0 U	400.0 U	420.0 U	400.0 U	370.0 U	400.0 U	400.0 U	380.0 U
3,3'-Dichlorobenzidine	760.0 U	790.0 U	800.0 U	840.0 U	800.0 U	740.0 U	800.0 U	790.0 U	760.0 U
Benzo(a)Anthracene	97.0 J	120.0 J	400.0 U	420.0 U	99.0 J	370.0 U	400.0 U	400.0 U	380.0 U
Chrysene	85.0 J	110.0 J	400.0 U	420.0 U	150.0 J	370.0 U	400.0 U	400.0 U	380.0 U
bis(2-Ethylhexyl)Phthalate	380.0 U	470.0	400.0 U	150.0 J	400.0 U	100.0 J	2600.0	400.0 U	380.0 U
Di-n-Octyl Phthalate	380.0 U	390.0 U	400.0 U	420.0 U	400.0 U	370.0 U	400.0 U	400.0 U	380.0 U
Benzo(b)Fluoranthene	91.0 J	190.0 J	400.0 U	420.0 U	170.0 J	370.0 U	400.0 U	400.0 U	380.0 U
Benzo(k)Fluoranthene	70.0 J	390.0 U	400.0 U	420.0 U	400.0 U	370.0 U	400.0 U	400.0 U	380.0 U
Benzo(a)Pyrene	380.0 U	98.0 J	400.0 U	420.0 U	92.0 J	370.0 U	400.0 U	400.0 U	380.0 U
Indeno(1,2,3-cd)Pyrene	380.0 U	390.0 U	400.0 U	420.0 U	65.0 J	370.0 U	400.0 U	400.0 U	380.0 U
Dibenz(a,h)Anthracene	380.0 U	390.0 U	400.0 U	420.0 U	31.0 J	370.0 U	400.0 U	400.0 U	380.0 U
Benzo(g,h,i)Perylene	380.0 U	390.0 U	400.0 U	420.0 U	68.0 J	370.0 U	400.0 U	400.0 U	380.0 U

FOOTNOTES :
ug/kg (micrograms per kilogram) = ppb (parts per billion).
Units for inorganic results are mg/kg (milligrams per kilogram).
J is a data qualifier indicating estimated values (appendix A).
R = Analyte was rejected due to QA/QC.
B = For organics, analyte was detected in the method blank.
B = For inorganics, analyte value is between the contract required detection limit (CRDL) and the instrument detection limit (IDL).
U = Indicates element was analyzed for but not detected. The number shown is the detection limit.
D = Denotes analyte quantified at a secondary dilution factor.
E = Estimated value due to excedence of linear calibration range.

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE E-2 (cont'd)
SEMI-VOLATILES 2
SOIL BORING ANALYTICAL RESULTS

06/26/90

	CONCENTRATIONS in ug/kg								
SAMPLE NUMBER -	MW-13S-02	MW-13S-06	MW-14S-08	MW-14S-12	MW-15S-05	MW-16S-01	MW-16S-03	MW-16S-3DUP	MW-17S-05
SEMI-VOLATILES 2									
3-Nitroaniline	2000.0 UJ	2000.0 U	1900.0 U	2100.0 UJ	4100.0 U	2000.0 UJ	2100.0 UJ	2100.0 UJ	2000.0 U
Acenaphthene	400.0 U	400.0 U	370.0 U	420.0 UJ	820.0 U	390.0 U	420.0 UJ	420.0 U	390.0 U
2,4-Dinitrophenol	2000.0 U	2000.0 U	1900.0 U	2100.0 UJ	4100.0 U	2000.0 U	2100.0 UJ	2100.0 U	2000.0 U
4-Nitrophenol	2000.0 U	2000.0 U	1900.0 U	2100.0 UJ	4100.0 U	2000.0 U	2100.0 UJ	2100.0 U	2000.0 U
Dibenzofuran	400.0 U	400.0 U	370.0 U	420.0 UJ	820.0 U	390.0 U	420.0 UJ	420.0 U	140.0 J
2,4-Dinitrotoluene	400.0 U	400.0 U	370.0 U	420.0 UJ	820.0 U	390.0 U	420.0 UJ	420.0 U	390.0 U
Diethylphthalate	400.0 U	400.0 U	370.0 U	420.0 UJ	820.0 U	390.0 U	420.0 UJ	420.0 U	390.0 U
4-Chlorophenyl-phenylether	400.0 U	400.0 U	370.0 U	420.0 UJ	820.0 U	390.0 U	420.0 UJ	420.0 U	390.0 U
Fluorene	400.0 U	400.0 U	370.0 U	420.0 UJ	820.0 U	390.0 U	420.0 UJ	420.0 U	390.0 U
4-Nitroaniline	2000.0 U	2000.0 UJ	1900.0 UJ	2100.0 UJ	4100.0 UJ	2000.0 U	2100.0 UJ	2100.0 U	2000.0 UJ
4,6-Dinitro-2-Methylphenol	2000.0 UJ	2000.0 U	1900.0 U	2100.0 UJ	4100.0 U	2000.0 U	2100.0 UJ	2100.0 UJ	2000.0 U
N-Nitrosodiphenylamine (1)	400.0 UJ	400.0 U	370.0 U	420.0 UJ	820.0 U	390.0 U	420.0 UJ	420.0 UJ	390.0 U
4-Bromophenyl-phenylether	400.0 UJ	400.0 U	370.0 U	420.0 UJ	820.0 U	390.0 U	420.0 UJ	420.0 UJ	390.0 U
Hexachlorobenzene	400.0 UJ	400.0 U	370.0 U	420.0 UJ	820.0 U	390.0 U	420.0 UJ	420.0 UJ	390.0 U
Pentachlorophenol	R	R	R	R	R	R	R	R	R
Phenanthrene	150.0 J	400.0 U	370.0 U	420.0 UJ	820.0 U	390.0 U	420.0 UJ	420.0 UJ	390.0 U
Anthracene	400.0 UJ	400.0 U	370.0 U	420.0 UJ	820.0 U	390.0 U	420.0 UJ	420.0 UJ	390.0 U
Di-n-Butylphthalate	400.0 UJ	400.0 U	370.0 U	420.0 UJ	1400.0	390.0 U	420.0 UJ	420.0 UJ	390.0 U
Fluoranthene	180.0 J	400.0 U	370.0 U	420.0 UJ	180.0 J	390.0 U	420.0 UJ	420.0 UJ	390.0 U
Pyrene	150.0 J	400.0 U	370.0 U	420.0 UJ	190.0 J	390.0 U	420.0 UJ	420.0 UJ	390.0 U
Butylbenzylphthalate	400.0 UJ	400.0 U	120.0 J	420.0 UJ	31000.0 D	390.0 U	420.0 UJ	420.0 UJ	390.0 U
3,3'-Dichlorobenzidine	800.0 UJ	800.0 U	750.0 U	840.0 UJ	1600.0 U	790.0 UJ	840.0 UJ	840.0 UJ	790.0 U
Benzo(a)Anthracene	400.0 UJ	400.0 U	370.0 U	420.0 UJ	820.0 U	390.0 U	420.0 UJ	420.0 UJ	390.0 U
Chrysene	400.0 UJ	400.0 U	370.0 U	420.0 UJ	820.0 U	390.0 U	420.0 UJ	420.0 UJ	390.0 U
bis(2-Ethylhexyl)Phthalate	120.0 J	400.0 U	200.0 J	420.0 UJ	100000.0 D	210.0 J	130.0 J	130.0 J	390.0 U
Di-n-Octyl Phthalate	400.0 UJ	400.0 U	370.0 U	420.0 UJ	820.0 U	390.0 U	420.0 UJ	420.0 UJ	390.0 U
Benzo(b)Fluoranthene	400.0 UJ	400.0 U	370.0 U	420.0 UJ	820.0 U	390.0 U	420.0 UJ	420.0 UJ	390.0 U
Benzo(k)Fluoranthene	400.0 UJ	400.0 U	370.0 U	420.0 UJ	820.0 U	390.0 U	420.0 UJ	420.0 UJ	390.0 U
Benzo(a)Pyrene	400.0 UJ	400.0 U	370.0 U	420.0 UJ	820.0 U	390.0 U	420.0 UJ	420.0 UJ	390.0 U
Indeno(1,2,3-cd)Pyrene	400.0 UJ	400.0 U	370.0 U	420.0 UJ	820.0 U	390.0 U	420.0 UJ	420.0 UJ	390.0 U
Dibenz(a,h)Anthracene	400.0 UJ	400.0 U	370.0 U	420.0 UJ	820.0 U	390.0 U	420.0 UJ	420.0 UJ	390.0 U
Benzo(g,h,i)Perylene	400.0 UJ	400.0 U	370.0 U	420.0 UJ	820.0 U	390.0 U	420.0 UJ	420.0 UJ	390.0 U

FOOTNOTES :
ug/kg (micrograms per kilogram) = ppb (parts per billion).
Units for inorganic results are mg/kg (milligrams per kilogram).
J is a data qualifier indicating estimated values (appendix A).
R = Analyte was rejected due to QA/QC.
B = For organics, analyte was detected in the method blank.
B = For inorganics, analyte value is between the contract required detection limit (CRDL) and the instrument detection limit (IDL).
U = Indicates element was analyzed for but not detected. The number shown is the detection limit.
D = Denotes analyte quantified at a secondary dilution factor.
E = Estimated value due to excedence of linear calibration range.

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE E-2 (contd)
SEMI-VOLATILES 2
SOIL BORING ANALYTICAL RESULTS

06/26/90

	CONCENTRATIONS in ug/kg
SAMPLE NUMBER -	MW-17S-11
SEMI-VOLATILES 2	
3-Nitroaniline	2000.0 UJ
Acenaphthene	390.0 U
2,4-Dinitrophenol	2000.0 U
4-Nitrophenol	2000.0 U
Dibenzofuran	390.0 U
2,4-Dinitrotoluene	390.0 U
Diethylphthalate	390.0 U
4-Chlorophenyl-phenylether	390.0 U
Fluorene	390.0 U
4-Nitroaniline	2000.0 U
4,6-Dinitro-2-Methylphenol	2000.0 U
N-Nitrosodiphenylamine (1)	390.0 U
4-Bromophenyl-phenylether	390.0 U
Hexachlorobenzene	390.0 U
Pentachlorophenol	R
Phenanthrene	390.0 U
Anthracene	390.0 U
Di-n-Butylphthalate	390.0 U
Fluoranthene	390.0 U
Pyrene	390.0 U
Butylbenzylphthalate	390.0 U
3,3'-Dichlorobenzidine	790.0 UJ
Benzo(a)Anthracene	390.0 U
Chrysene	390.0 U
bis(2-Ethylhexyl)Phthalate	230.0 J
Di-n-Octyl Phthalate	390.0 U
Benzo(b)Fluoranthene	390.0 U
Benzo(k)Fluoranthene	390.0 U
Benzo(a)Pyrene	390.0 U
Indeno(1,2,3-cd)Pyrene	390.0 U
Dibenz(a,h)Anthracene	390.0 U
Benzo(g,h,i)Perylene	390.0 U

FOOTNOTES :
ug/kg (micrograms per kilogram) = ppb (parts per billion).
Units for inorganic results are mg/kg (milligrams per kilogram).
J is a data qualifier indicating estimated values (appendix A).
R = Analyte was rejected due to QA/QC.
B = For organics, analyte was detected in the method blank.
B = For inorganics, analyte value is between the contract required detection limit (CRDL) and the instrument detection limit (IDL).
U = Indicates element was analyzed for but not detected. The number shown is the detection limit.
D = Denotes analyte quantified at a secondary dilution factor.
E = Estimated value due to excedence of linear calibration range.

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE E-3
PESTICIDES/PCBs
SOIL BORING ANALYTICAL RESULTS

06/26/90

	CONCENTRATIONS in ug/kg								
SAMPLE NUMBER -	B1-SS-05	B1-SS-06	B2-SS-03	B2-SS-05	B3-SS-06	B4-SS-03	B4-SS-03D	B4-SS-10	B5-SS-08
PESTICIDES/PCBs									
alpha-BHC	9.5 U	9.6 U	92.0 UJ	9.5 UJ	210.0 U	R	3200.0 U	47.0 U	9.4 U
beta-BHC	9.5 U	9.6 U	92.0 UJ	9.5 UJ	210.0 U	R	R	47.0 U	9.4 U
delta-BHC	9.5 U	9.6 U	92.0 UJ	9.5 UJ	210.0 U	R	3200.0 U	47.0 U	9.4 U
gamma-BHC (Lindane)	9.5 U	9.6 U	92.0 UJ	9.5 UJ	210.0 U	R	3200.0 U	47.0 U	9.4 U
Heptachlor	9.5 U	9.6 U	92.0 UJ	9.5 UJ	210.0 U	R	3200.0 U	47.0 U	9.4 U
Aldrin	9.5 U	9.6 U	92.0 UJ	9.5 UJ	210.0 U	R	3200.0 U	47.0 U	9.4 U
Heptachlor epoxide	9.5 U	9.6 U	92.0 UJ	9.5 UJ	210.0 U	320.0 U	3200.0 U	47.0 U	9.4 U
Endosulfan I	9.5 U	9.6 U	92.0 UJ	9.5 UJ	210.0 U	320.0 U	3200.0 U	47.0 U	9.4 U
Dieldrin	19.0 U	19.0 U	180.0 UJ	19.0 UJ	410.0 U	640.0 U	6400.0 U	94.0 U	19.0 U
4,4'-DDE	19.0 U	19.0 U	180.0 UJ	19.0 UJ	560.0	R	6400.0 U	94.0 U	19.0 U
Endrin	19.0 U	19.0 U	180.0 UJ	19.0 UJ	410.0 U	640.0 U	6400.0 U	94.0 U	19.0 U
Endosulfan II	19.0 U	19.0 U	180.0 UJ	19.0 UJ	410.0 U	640.0 U	6400.0 U	94.0 U	19.0 U
4,4'-DDD	19.0 U	19.0 U	180.0 UJ	19.0 UJ	410.0 U	640.0 U	6400.0 U	94.0 U	19.0 U
Endosulfan sulfate	19.0 U	19.0 U	180.0 UJ	19.0 UJ	410.0 U	640.0 U	6400.0 U	94.0 U	19.0 U
4,4'-DDT	19.0 U	19.0 U	180.0 UJ	19.0 UJ	410.0 U	640.0 U	6400.0 U	94.0 U	19.0 U
Methoxychlor	95.0 U	96.0 U	920.0 UJ	95.0 UJ	2100.0 U	3200.0 U	32000.0 U	470.0 U	94.0 U
Endrin ketone	19.0 U	19.0 U	180.0 UJ	19.0 UJ	410.0 U	640.0 U	6400.0 U	94.0 U	19.0 U
alpha-Chlordane	95.0 U	96.0 U	920.0 UJ	95.0 UJ	2100.0 U	3200.0 U	32000.0 U	470.0 U	94.0 U
gamma-Chlordane	95.0 U	96.0 U	920.0 UJ	95.0 UJ	2100.0 U	3200.0 U	32000.0 U	470.0 U	94.0 U
Toxaphene	190.0 U	190.0 U	1800.0 UJ	190.0 UJ	4100.0 U	6400.0 U	64000.0 U	940.0 U	190.0 U
Aroclor-1016	95.0 U	96.0 U	920.0 UJ	95.0 UJ	2100.0 U	3200.0 U	32000.0 U	470.0 U	94.0 U
Aroclor-1221	95.0 U	96.0 U	920.0 UJ	95.0 UJ	2100.0 U	3200.0 U	32000.0 U	470.0 U	94.0 U
Aroclor-1232	95.0 U	96.0 U	920.0 UJ	95.0 UJ	2100.0 U	3200.0 U	32000.0 U	470.0 U	94.0 U
Aroclor-1242	95.0 U	96.0 U	920.0 UJ	95.0 UJ	2100.0 U	3200.0 U	32000.0 U	470.0 U	94.0 U
Aroclor-1248	95.0 U	96.0 U	920.0 UJ	95.0 UJ	2100.0 U	3200.0 U	32000.0 U	470.0 U	94.0 U
Aroclor-1254	190.0 U	190.0 U	1800.0 UJ	190.0 UJ	4100.0 U	6400.0 U	64000.0 U	940.0 U	190.0 U
Aroclor-1260	190.0 U	190.0 U	1800.0 UJ	190.0 UJ	4100.0 U	6400.0 U	64000.0 U	940.0 U	190.0 U

FOOTNOTES :
ug/kg (micrograms per kilogram) = ppb (parts per billion).
Units for inorganic results are mg/kg (milligrams per kilogram).
J is a data qualifier indicating estimated values (appendix A).
R = Analyte was rejected due to QA/QC.
B = For organics, analyte was detected in the method blank.
B = For inorganics, analyte value is between the contract required detection limit (CRDL) and the instrument detection limit (IDL).
U = Indicates element was analyzed for but not detected. The number shown is the letection limit.
D = Denotes analyte quantified at a secondary dilution factor.
E = Estimated value due to excedence of linear calibration range.

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE E-3 (contd)
PESTICIDES/PCBs
SOIL BORING ANALYTICAL RESULTS

06/26/90

	CONCENTRATIONS in ug/kg								
SAMPLE NUMBER -	B6-SS-07	B6-SS-7DUP	B7-SS-06	B8-SS-08	B9-SS-07	B9-SS-10	B10-SS-02	B10-SS-05	B10-SS-05DL
PESTICIDES/PCBs									
alpha-BHC	11.0 U	10.0 U	11.0 U	9.9 U	9.4 U	9.6 U	37.0 U	R	510.0 U
beta-BHC	11.0 U	10.0 U	11.0 U	9.9 U	9.4 U	9.6 U	37.0 U	R	510.0 U
delta-BHC	11.0 U	10.0 U	11.0 U	9.9 U	9.4 U	9.6 U	37.0 U	R	510.0 U
gamma-BHC (Lindane)	11.0 U	10.0 U	11.0 U	9.9 U	9.4 U	9.6 U	37.0 U	R	510.0 U
Heptachlor	11.0 U	10.0 U	11.0 U	9.9 U	9.4 U	9.6 U	37.0 U	R	510.0 U
Aldrin	11.0 U	10.0 U	11.0 U	9.9 U	9.4 U	9.6 U	6.9 J	R	510.0 U
Heptachlor epoxide	11.0 U	10.0 U	11.0 U	9.9 U	9.4 U	9.6 U	37.0 U	R	510.0 U
Endosulfan I	11.0 U	10.0 U	11.0 U	9.9 U	9.4 U	9.6 U	37.0 U	R	510.0 U
Dieldrin	21.0 U	21.0 U	210.0	20.0 U	19.0 U	19.0 U	74.0 U	R	1000.0 U
4,4'-DDE	21.0 U	21.0 U	22.0 U	20.0 U	19.0 U	19.0 U	74.0 U	R	1000.0 U
Endrin	21.0 U	21.0 U	220.0	20.0 U	19.0 U	19.0 U	74.0 U	R	1000.0 U
Endosulfan II	21.0 U	21.0 U	22.0 U	20.0 U	19.0 U	19.0 U	74.0 U	R	1000.0 U
4,4'-DDD	21.0 U	21.0 U	22.0 U	20.0 U	19.0 U	19.0 U	74.0 U	R	1000.0 U
Endosulfan sulfate	21.0 U	21.0 U	22.0 U	20.0 U	19.0 U	19.0 U	74.0 U	R	1000.0 U
4,4'-DDT	21.0 U	21.0 U	230.0	20.0 U	19.0 U	19.0 U	30.0 J	R	1000.0 U
Methoxychlor	110.0 U	100.0 U	110.0 U	99.0 U	94.0 U	96.0 U	370.0 U	R	5100.0 U
Endrin ketone	21.0 U	21.0 U	22.0 U	20.0 U	19.0 U	19.0 U	74.0 U	R	1000.0 U
alpha-Chlordane	110.0 U	100.0 U	110.0 U	99.0 U	94.0 U	96.0 U	370.0 U	R	5100.0 U
gamma-Chlordane	110.0 U	100.0 U	110.0 U	99.0 U	94.0 U	96.0 U	4.8 J	R	5100.0 U
Toxaphene	210.0 U	210.0 U	220.0 U	200.0 U	190.0 U	190.0 U	740.0 U	R	10000.0 U
Aroclor-1016	110.0 U	100.0 U	110.0 U	99.0 U	94.0 U	96.0 U	370.0 U	R	5100.0 U
Aroclor-1221	110.0 U	100.0 U	110.0 U	99.0 U	94.0 U	96.0 U	370.0 U	R	5100.0 U
Aroclor-1232	110.0 U	100.0 U	110.0 U	99.0 U	94.0 U	96.0 U	370.0 U	R	5100.0 U
Aroclor-1242	110.0 U	100.0 U	110.0 U	99.0 U	94.0 U	96.0 U	370.0 U	R	5100.0 U
Aroclor-1248	110.0 U	100.0 U	110.0 U	99.0 U	94.0 U	96.0 U	370.0 U	R	5100.0 U
Aroclor-1254	210.0 U	210.0 U	220.0 U	200.0 U	190.0 U	190.0 U	740.0 U	R	10000.0 U
Aroclor-1260	210.0 U	210.0 U	220.0 U	200.0 U	190.0 U	190.0 U	740.0 U	R	10000.0 U

FOOTNOTES :
ug/kg (micrograms per kilogram) = ppb (parts per billion).
Units for inorganic results are mg/kg (milligrams per kilogram).
J is a data qualifier indicating estimated values (appendix A).
R = Analyte was rejected due to QA/QC.
B = For organics, analyte was detected in the method blank.
B = For inorganics, analyte value is between the contract required detection limit (CRDL) and the instrument detection limit (IDL).
U = Indicates element was analyzed for but not detected. The number shown is the detection limit.
D = Denotes analyte quantified at a secondary dilution factor.
E = Estimated value due to excedence of linear calibration range.

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE E-3 (contd)
PESTICIDES/PCBs
SOIL BORING ANALYTICAL RESULTS

06/26/90

	CONCENTRATIONS in ug/kg								
SAMPLE NUMBER -	B11-SS-07	B12-SS-01	B12-SS-04	B13-SS-04	B13-SS-567	B14-SS-05	B14-SS-13	B15-SS-06	B15-SS-13
PESTICIDES/PCBs									
alpha-BHC	11.0 U	140.0 U	9.8 U	10.0 U	9.2 U	10.0 U	9.3 U	9.5 U	9.0 U
beta-BHC	11.0 U	140.0 U	9.8 U	10.0 U	9.2 U	10.0 U	9.3 U	9.5 U	9.0 U
delta-BHC	11.0 U	140.0 U	9.8 U	10.0 U	9.2 U	10.0 U	9.3 U	9.5 U	9.0 U
gamma-BHC (Lindane)	11.0 U	140.0 U	9.8 U	10.0 U	9.2 U	10.0 U	9.3 U	9.5 U	9.0 U
Heptachlor	11.0 U	140.0 U	9.8 U	10.0 U	9.2 U	10.0 U	9.3 U	9.5 U	9.0 U
Aldrin	11.0 U	140.0 U	9.8 U	10.0 U	9.2 U	10.0 U	9.3 U	9.5 U	9.0 U
Heptachlor epoxide	11.0 U	140.0 U	9.8 U	10.0 U	9.2 U	10.0 U	9.3 U	9.5 U	9.0 U
Endosulfan I	11.0 U	140.0 U	9.8 U	10.0 U	9.2 U	10.0 U	9.3 U	9.5 U	9.0 U
Dieldrin	22.0 U	280.0 U	20.0 U	20.0 U	18.0 U	20.0 U	19.0 U	19.0 U	18.0 U
4,4'-DDE	22.0 U	280.0 U	20.0 U	20.0 U	18.0 U	20.0 U	19.0 U	19.0 U	18.0 U
Endrin	22.0 U	280.0 U	20.0 U	20.0 U	18.0 U	20.0 U	19.0 U	19.0 U	18.0 U
Endosulfan II	22.0 U	280.0 U	20.0 U	20.0 U	18.0 U	20.0 U	19.0 U	19.0 U	18.0 U
4,4'-DDD	22.0 U	280.0 U	20.0 U	20.0 U	18.0 U	20.0 U	19.0 U	19.0 U	18.0 U
Endosulfan sulfate	22.0 U	280.0 U	20.0 U	20.0 U	18.0 U	20.0 U	19.0 U	19.0 U	18.0 U
4,4'-DDT	22.0 U	280.0 U	20.0 U	20.0 U	18.0 U	20.0 U	19.0 U	19.0 U	18.0 U
Methoxychlor	110.0 U	1400.0 U	98.0 U	100.0 U	92.0 U	100.0 U	93.0 U	95.0 U	90.0 U
Endrin ketone	22.0 U	280.0 U	20.0 U	20.0 U	18.0 U	20.0 U	19.0 U	19.0 U	18.0 U
alpha-Chlordane	110.0 U	1400.0 U	98.0 U	100.0 U	92.0 U	100.0 U	93.0 U	95.0 U	90.0 U
gamma-Chlordane	110.0 U	1400.0 U	98.0 U	100.0 U	92.0 U	100.0 U	93.0 U	95.0 U	90.0 U
Toxaphene	220.0 U	2800.0 U	200.0 U	200.0 U	180.0 U	200.0 U	190.0 U	190.0 U	180.0 U
Aroclor-1016	110.0 U	1400.0 U	98.0 U	100.0 U	92.0 U	100.0 U	93.0 U	95.0 U	90.0 U
Aroclor-1221	110.0 U	1400.0 U	98.0 U	100.0 U	92.0 U	100.0 U	93.0 U	95.0 U	90.0 U
Aroclor-1232	110.0 U	1400.0 U	98.0 U	100.0 U	92.0 U	100.0 U	93.0 U	95.0 U	90.0 U
Aroclor-1242	3700.0	1400.0 U	98.0 U	100.0 U	92.0 U	100.0 U	93.0 U	95.0 U	90.0 U
Aroclor-1248	110.0 U	1400.0 U	98.0 U	100.0 U	92.0 U	100.0 U	93.0 U	95.0 U	90.0 U
Aroclor-1254	220.0 U	2800.0 U	200.0 U	200.0 U	180.0 U	200.0 U	190.0 U	190.0 U	180.0 U
Aroclor-1260	220.0 U	2800.0 U	200.0 U	200.0 U	180.0 U	200.0 U	190.0 U	190.0 U	180.0 U

FOOTNOTES :
ug/kg (micrograms per kilogram) = ppb (parts per billion).
Units for inorganic results are mg/kg (milligrams per kilogram).
J is a data qualifier indicating estimated values (appendix A).
R = Analyte was rejected due to QA/QC.
B = For organics, analyte was detected in the method blank.
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D = Denotes analyte quantified at a secondary dilution factor.
E = Estimated value due to excedence of linear calibration range.

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE E-3 (contd)
PESTICIDES/PCBs
SOIL BORING ANALYTICAL RESULTS

06/26/90

SAMPLE NUMBER -	B16-SS-08	B16-SS-10	MW-1D-07	MW-2S-07	MW-2S-11	MW-3S-04	MW-3S-06	MW-3S-07	MW-4D-10
	CONCENTRATIONS in ug/kg								
PESTICIDES/PCBs									
alpha-BHC	9.6 U	9.5 U	9.0 U	310.0 U	9.4 U	9.0 U	9.5 U	9.1 U	9.0 U
beta-BHC	9.6 U	9.5 U	9.0 U	310.0 U	9.4 U	9.0 U	9.5 U	9.1 U	9.0 U
delta-BHC	9.6 U	9.5 U	9.0 U	310.0 U	9.4 U	9.0 U	9.5 U	9.1 U	9.0 U
gamma-BHC (Lindane)	9.6 U	9.5 U	9.0 U	310.0 U	9.4 U	9.0 U	9.5 U	9.1 U	9.0 U
Heptachlor	9.6 U	9.5 U	9.0 U	310.0 U	9.4 U	9.0 U	9.5 U	9.1 U	9.0 U
Aldrin	9.6 U	9.5 U	9.0 U	310.0 U	9.4 U	9.0 U	9.5 U	9.1 U	9.0 U
Heptachlor epoxide	9.6 U	9.5 U	9.0 U	310.0 U	9.4 U	9.0 U	9.5 U	9.1 U	9.0 U
Endosulfan I	9.6 U	9.5 U	9.0 U	310.0 U	9.4 U	9.0 U	9.5 U	9.1 U	9.0 U
Dieldrin	19.0 U	19.0 U	18.0 U	620.0 U	19.0 U	18.0 U	19.0 U	18.0 U	18.0 U
4,4'-DDE	19.0 U	19.0 U	18.0 U	620.0 U	19.0 U	18.0 U	19.0 U	18.0 U	18.0 U
Endrin	19.0 U	19.0 U	18.0 U	620.0 U	19.0 U	18.0 U	19.0 U	18.0 U	18.0 U
Endosulfan II	19.0 U	19.0 U	18.0 U	620.0 U	19.0 U	18.0 U	19.0 U	18.0 U	18.0 U
4,4'-DDD	19.0 U	19.0 U	18.0 U	620.0 U	19.0 U	18.0 U	19.0 U	18.0 U	18.0 U
Endosulfan sulfate	19.0 U	19.0 U	18.0 U	620.0 U	19.0 U	18.0 U	19.0 U	18.0 U	18.0 U
4,4'-DDT	19.0 U	19.0 U	18.0 U	620.0 U	19.0 U	18.0 U	19.0 U	18.0 U	18.0 U
Methoxychlor	96.0 U	95.0 U	90.0 U	3100.0 U	94.0 U	90.0 U	95.0 U	91.0 U	90.0 U
Endrin ketone	19.0 U	19.0 U	18.0 U	620.0 U	19.0 U	18.0 U	19.0 U	18.0 U	18.0 U
alpha-Chlordane	96.0 U	95.0 U	90.0 U	3100.0 U	94.0 U	90.0 U	95.0 U	91.0 U	90.0 U
gamma-Chlordane	96.0 U	95.0 U	90.0 U	3100.0 U	94.0 U	90.0 U	95.0 U	91.0 U	90.0 U
Toxaphene	190.0 U	190.0 U	180.0 U	6200.0 U	190.0 U	180.0 U	190.0 U	180.0 U	180.0 U
Aroclor-1016	96.0 U	95.0 U	90.0 U	3100.0 U	94.0 U	90.0 U	95.0 U	91.0 U	90.0 U
Aroclor-1221	96.0 U	95.0 U	90.0 U	3100.0 U	94.0 U	90.0 U	95.0 U	91.0 U	90.0 U
Aroclor-1232	96.0 U	95.0 U	90.0 U	3100.0 U	94.0 U	90.0 U	95.0 U	91.0 U	90.0 U
Aroclor-1242	96.0 U	95.0 U	90.0 U	3100.0 U	94.0 U	90.0 U	95.0 U	91.0 U	90.0 U
Aroclor-1248	96.0 U	95.0 U	90.0 U	3100.0 U	94.0 U	90.0 U	95.0 U	91.0 U	90.0 U
Aroclor-1254	190.0 U	190.0 U	180.0 U	6200.0 U	190.0 U	180.0 U	190.0 U	180.0 U	180.0 U
Aroclor-1260	190.0 U	190.0 U	180.0 U	6200.0 U	190.0 U	180.0 U	190.0 U	180.0 U	180.0 U

FOOTNOTES :
ug/kg (micrograms per kilogram) = ppb (parts per billion).
Units for inorganic results are mg/kg (milligrams per kilogram).
J is a data qualifier indicating estimated values (appendix A).
R = Analyte was rejected due to QA/QC.
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U = Indicates element was analyzed for but not detected. The number shown is the detection limit.
D = Denotes analyte quantified at a secondary dilution factor.
E = Estimated value due to excedence of linear calibration range.

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE E-3 (contd)
PESTICIDES/PCBs
SOIL BORING ANALYTICAL RESULTS

06/26/90

SAMPLE NUMBER -	CONCENTRATIONS in ug/kg								
	MW-5S-01	MW-6S-02	MW-6S-03	MW-6S-03BD	MW-7S-15	MW-8S-05	MW-9S-06	MW-10S-07	MW-11S-07
PESTICIDES/PCBs									
alpha-BHC	9.3 U	9.2 U	9.2 U	9.5 U	10.0 U	9.2 U	9.0 U	9.2 U	9.4 U
beta-BHC	9.3 U	9.2 U	9.2 U	9.5 U	10.0 U	9.2 U	9.0 U	9.2 U	9.4 U
delta-BHC	9.3 U	9.2 U	9.2 U	9.5 U	10.0 U	9.2 U	9.0 U	9.2 U	9.4 U
gamma-BHC (Lindane)	9.3 U	9.2 U	9.2 U	9.5 U	10.0 U	9.2 U	9.0 U	9.2 U	9.4 U
Heptachlor	9.3 U	9.2 U	9.2 U	9.5 U	10.0 U	9.2 U	9.0 U	9.2 U	9.4 U
Aldrin	9.3 U	9.2 U	9.2 U	9.5 U	10.0 U	9.2 U	9.0 U	9.2 U	9.4 U
Heptachlor epoxide	9.3 U	9.2 U	9.2 U	9.5 U	10.0 U	9.2 U	9.0 U	9.2 U	9.4 U
Endosulfan I	9.3 U	9.2 U	9.2 U	9.5 U	10.0 U	9.2 U	9.0 U	9.2 U	9.4 U
Dieldrin	19.0 U	18.0 U	18.0 U	19.0 U	20.0 U	18.0 U	18.0 U	18.0 U	19.0 U
4,4'-DDE	19.0 U	18.0 U	18.0 U	19.0 U	20.0 U	18.0 U	18.0 U	18.0 U	19.0 U
Endrin	19.0 U	18.0 U	18.0 U	19.0 U	20.0 U	18.0 U	18.0 U	18.0 U	19.0 U
Endosulfan II	19.0 U	18.0 U	18.0 U	19.0 U	20.0 U	18.0 U	18.0 U	18.0 U	19.0 U
4,4'-DDD	19.0 U	18.0 U	18.0 U	19.0 U	20.0 U	18.0 U	18.0 U	18.0 U	19.0 U
Endosulfan sulfate	19.0 U	18.0 U	18.0 U	19.0 U	20.0 U	18.0 U	18.0 U	18.0 U	19.0 U
4,4'-DDT	19.0 U	18.0 U	18.0 U	19.0 U	35.0	18.0 U	18.0 U	18.0 U	19.0 U
Methoxychlor	93.0 U	92.0 U	92.0 U	95.0 U	100.0 U	92.0 U	90.0 U	92.0 U	94.0 U
Endrin ketone	19.0 U	18.0 U	18.0 U	19.0 U	20.0 U	18.0 U	18.0 U	18.0 U	19.0 U
alpha-Chlordane	93.0 U	92.0 U	92.0 U	95.0 U	100.0 U	92.0 U	90.0 U	92.0 U	94.0 U
gamma-Chlordane	93.0 U	92.0 U	92.0 U	95.0 U	100.0 U	92.0 U	90.0 U	92.0 U	94.0 U
Toxaphene	190.0 U	180.0 U	180.0 U	190.0 U	200.0 U	180.0 U	180.0 U	180.0 U	190.0 U
Aroclor-1016	93.0 U	92.0 U	92.0 U	95.0 U	100.0 U	92.0 U	90.0 U	92.0 U	94.0 U
Aroclor-1221	93.0 U	92.0 U	92.0 U	95.0 U	100.0 U	92.0 U	90.0 U	92.0 U	94.0 U
Aroclor-1232	93.0 U	92.0 U	92.0 U	95.0 U	100.0 U	92.0 U	90.0 U	92.0 U	94.0 U
Aroclor-1242	93.0 U	92.0 U	92.0 U	95.0 U	100.0 U	92.0 U	90.0 U	92.0 U	94.0 U
Aroclor-1248	93.0 U	92.0 U	92.0 U	95.0 U	100.0 U	92.0 U	90.0 U	92.0 U	94.0 U
Aroclor-1254	190.0 U	180.0 U	180.0 U	190.0 U	200.0 U	180.0 U	180.0 U	180.0 U	190.0 U
Aroclor-1260	190.0 U	180.0 U	180.0 U	190.0 U	200.0 U	180.0 U	180.0 U	180.0 U	190.0 U

FOOTNOTES :
ug/kg (micrograms per kilogram) = ppb (parts per billion).
Units for inorganic results are mg/kg (milligrams per kilogram).
J is a data qualifier indicating estimated values (appendix A).
R = Analyte was rejected due to QA/QC.
B = For organics, analyte was detected in the method blank.
B = For inorganics, analyte value is between the contract required detection limit (CRDL) and the instrument detection limit (IDL).
U = Indicates element was analyzed for but not detected. The number shown is the detection limit.
D = Denotes analyte quantified at a secondary dilution factor.
E = Estimated value due to excedence of linear calibration range.

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE E-3 (contd)
PESTICIDES/PCBs
SOIL BORING ANALYTICAL RESULTS

06/26/90

	CONCENTRATIONS in ug/kg								
SAMPLE NUMBER -	MW-12S-07	MW-13S-02	MW-13S-06	MW-14S-08	MW-14S-12	MW-15S-05	MW-16S-01	MW-16S-03	MW-16S-3DUP
PESTICIDES/PCBs									
alpha-BHC	9.2 U	9.6 U	9.6 U	9.1 U	10.0 U	10.0 U	9.5 U	10.0 U	10.0 U
beta-BHC	9.2 U	9.6 U	9.6 U	9.1 U	10.0 U	10.0 U	9.5 U	10.0 U	10.0 U
delta-BHC	9.2 U	9.6 U	9.6 U	9.1 U	10.0 U	10.0 U	9.5 U	10.0 U	10.0 U
gamma-BHC (Lindane)	9.2 U	9.6 U	9.6 U	9.1 U	10.0 U	10.0 U	9.5 U	10.0 U	10.0 U
Heptachlor	9.2 U	9.6 U	9.6 U	9.1 U	10.0 U	10.0 U	9.5 U	10.0 U	10.0 U
Aldrin	9.2 U	9.6 U	9.6 U	9.1 U	10.0 U	10.0 U	9.5 U	10.0 U	10.0 U
Heptachlor epoxide	9.2 U	9.6 U	9.6 U	9.1 U	10.0 U	10.0 U	9.5 U	10.0 U	10.0 U
Endosulfan I	9.2 U	9.6 U	9.6 U	9.1 U	10.0 U	10.0 U	9.5 U	10.0 U	10.0 U
Dieldrin	18.0 U	19.0 U	19.0 U	18.0 U	20.0 U	20.0 U	19.0 U	20.0 U	20.0 U
4,4'-DDE	18.0 U	19.0 U	19.0 U	18.0 U	20.0 U	20.0 U	19.0 U	20.0 U	20.0 U
Endrin	18.0 U	19.0 U	19.0 U	18.0 U	20.0 U	20.0 U	19.0 U	R	20.0 U
Endosulfan II	18.0 U	19.0 U	19.0 U	18.0 U	20.0 U	20.0 U	19.0 U	R	20.0 U
4,4'-DDD	18.0 U	19.0 U	19.0 U	18.0 U	20.0 U	20.0 U	19.0 U	R	20.0 U
Endosulfan sulfate	18.0 U	19.0 U	19.0 U	18.0 U	20.0 U	R	19.0 U	20.0 U	20.0 U
4,4'-DDT	18.0 U	19.0 U	19.0 U	18.0 U	20.0 U	R	19.0 U	320.0 J	20.0 U
Methoxychlor	92.0 U	96.0 U	96.0 U	91.0 U	100.0 U	R	95.0 U	100.0 U	100.0 U
Endrin ketone	18.0 U	19.0 U	19.0 U	18.0 U	20.0 U	R	19.0 U	20.0 U	20.0 U
alpha-Chlordane	92.0 U	96.0 U	96.0 U	91.0 U	100.0 U	100.0 U	95.0 U	100.0 U	100.0 U
gamma-Chlordane	92.0 U	96.0 U	96.0 U	91.0 U	100.0 U	100.0 U	95.0 U	100.0 U	100.0 U
Toxaphene	180.0 U	190.0 U	190.0 U	180.0 U	200.0 U	200.0 U	190.0 U	200.0 U	200.0 U
Aroclor-1016	92.0 U	96.0 U	96.0 U	91.0 U	100.0 U	100.0 U	95.0 U	100.0 U	100.0 U
Aroclor-1221	92.0 U	96.0 U	96.0 U	91.0 U	100.0 U	100.0 U	95.0 U	100.0 U	100.0 U
Aroclor-1232	92.0 U	96.0 U	96.0 U	91.0 U	100.0 U	100.0 U	95.0 U	100.0 U	100.0 U
Aroclor-1242	92.0 U	96.0 U	96.0 U	91.0 U	100.0 U	100.0 U	95.0 U	100.0 U	100.0 U
Aroclor-1248	92.0 U	96.0 U	96.0 U	91.0 U	100.0 U	100.0 U	95.0 U	100.0 U	100.0 U
Aroclor-1254	180.0 U	190.0 U	190.0 U	180.0 U	200.0 U	200.0 U	190.0 U	200.0 U	200.0 U
Aroclor-1260	180.0 U	190.0 U	190.0 U	180.0 U	200.0 U	200.0 U	190.0 U	200.0 U	200.0 U

FOOTNOTES :
ug/kg (micrograms per kilogram) = ppb (parts per billion).
Units for inorganic results are mg/kg (milligrams per kilogram).
J is a data qualifier indicating estimated values (appendix A).
R = Analyte was rejected due to QA/QC.
B = For organics, analyte was detected in the method blank.
B = For inorganics, analyte value is between the contract required detection limit (CRDL) and the instrument detection limit (IDL).
U = Indicates element was analyzed for but not detected. The number shown is the detection limit.
D = Denotes analyte quantified at a secondary dilution factor.
E = Estimated value due to excedence of linear calibration range.

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE E-3 (contd)
PESTICIDES/PCBs
SOIL BORING ANALYTICAL RESULTS

06/26/90

	CONCENTRATIONS in ug/kg	
SAMPLE NUMBER -	MW-17S-05	MW-17S-11
PESTICIDES/PCBs		
alpha-BHC	9.5 U	9.6 U
beta-BHC	9.5 U	9.6 U
delta-BHC	9.5 U	9.6 U
gamma-BHC (Lindane)	9.5 U	9.6 U
Heptachlor	9.5 U	9.6 U
Aldrin	9.5 U	9.6 U
Heptachlor epoxide	9.5 U	9.6 U
Endosulfan I	9.5 U	9.6 U
Dieldrin	19.0 U	19.0 U
4,4'-DDE	19.0 U	19.0 U
Endrin	19.0 U	19.0 U
Endosulfan II	19.0 U	19.0 U
4,4'-DDD	19.0 U	19.0 U
Endosulfan sulfate	19.0 U	19.0 U
4,4'-DDT	19.0 U	19.0 U
Methoxychlor	95.0 U	96.0 U
Endrin ketone	19.0 U	19.0 U
alpha-Chlordane	95.0 U	96.0 U
gamma-Chlordane	95.0 U	96.0 U
Toxaphene	190.0 U	190.0 U
Aroclor-1016	95.0 U	96.0 U
Aroclor-1221	95.0 U	96.0 U
Aroclor-1232	95.0 U	96.0 U
Aroclor-1242	95.0 U	96.0 U
Aroclor-1248	95.0 U	96.0 U
Aroclor-1254	190.0 U	190.0 U
Aroclor-1260	190.0 U	190.0 U

FOOTNOTES :
ug/kg (micrograms per kilogram) = ppb (parts per billion).
Units for inorganic results are mg/kg (milligrams per kilogram).
J is a data qualifier indicating estimated values (appendix A).
R = Analyte was rejected due to QA/QC.
B = For organics, analyte was detected in the method blank.
B = For inorganics, analyte value is between the contract required detection limit (CRDL) and the instrument detection limit (IDL).
U = Indicates element was analyzed for but not detected. The number shown is the detection limit.
D = Denotes analyte quantified at a secondary dilution factor.
E = Estimated value due to excedence of linear calibration range.

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE E-4
INORGANICS
SOIL BORING ANALYTICAL RESULTS

06/26/90

SAMPLE NUMBER -	CONCENTRATIONS in mg/kg								
	B1-SS-05	B1-SS-06	B2-SS-03	B2-SS-05	B3-SS-06	B4-SS-03	B4-SS-10	B5-SS-08	B6-SS-07
INORGANICS									
ALUMINUM	11600.00	9540.00	5940.00	4620.00	9930.00	1700.00	11200.00	2290.00	10500.00
ANTIMONY	20.30 J	12.90 UJ	12.20 UJ	13.40 BJ	13.80 UJ	15.70 UJ	11.70 UJ	11.90 UJ	13.20 UJ
ARSENIC	3.10	2.90	3.80	2.20 B	3.90 J	26.20 J	4.70 J	0.77 BJ	8.10
BARIUM	93.00	75.00	35.40 B	37.00 B	168.00	304.00	85.70	15.70 B	126.00
BERYLLIUM	0.02 U	0.02 U	0.02 U	0.02 U	0.60 B	0.31 U	0.50 B	0.23 U	0.43 B
CADMIUM	0.85 U	0.87 U	0.83 U	0.86 U	1.10 U	4.30	0.92 U	0.94 U	1.30
CALCIUM	62900.00	69100.00	55200.00	121000.00	36000.00	8040.00	61700.00	54700.00	6460.00 J
CHROMIUM	16.00 J	15.10 J	9.60 J	6.50	24.00 J	82.80 J	15.40 J	4.70	33.20
COBALT	8.00 B	6.70 B	4.30 B	3.10 B	10.90 B	27.10	7.60 B	2.60 B	12.40 B
COPPER	16.50 J	15.80 J	13.90 J	17.80 J	43.40	573.00	17.10	8.30	72.30
IRON	18700.00	16000.00	11600.00	7920.00	21400.00	104000.00	18200.00	5400.00	55800.00
LEAD	12.80	23.20	49.10	12.30	70.50 J	375.00 J	13.40 J	12.60 J	107.00
MAGNESIUM	17400.00	20100.00	13400.00	60000.00	12800.00	1070.00 B	23400.00	24100.00	3780.00
MANGANESE	667.00	445.00	339.00	565.00	244.00 J	728.00 J	453.00 J	294.00 J	770.00
MERCURY	0.12 U	0.12 U	0.11 U	0.12 U	0.31	1.30	0.81	0.12 U	0.70
NICKEL	15.60	14.60	10.40	4.50 B	35.30	173.00	18.60	5.60 B	43.90
POTASSIUM	2190.00	2030.00	769.00 B	1200.00	1600.00	189.00 B	2820.00	659.00 B	1280.00 B
SELENIUM	0.54 U	0.56 U	0.53 U	0.55 U	0.54 UJ	0.62 BJ	0.46 UJ	0.47 UJ	0.78 B
SILVER	0.66 U	0.68 U	0.64 U	0.67 U	0.81 U	4.70	0.69 U	0.70 U	1.70 B
SODIUM	202.00 B	202.00 B	161.00 B	164.00 B	381.00 B	174.00 B	246.00 B	195.00 B	215.00 B
THALLIUM	0.61 U	0.63 U	0.60 U	0.62 U	0.81 U	0.93 U	0.69 U	0.70 U	0.78 U
VANADIUM	21.60 J	20.00 J	14.30 J	10.60 BJ	22.50	1.20 U	21.40	7.80 B	16.40
ZINC	79.30	70.40	50.10	70.70	158.00	1000.00	63.20	70.20	669.00
CYANIDE	0.59 U	0.61 U	0.57 U	0.60 U	R	R	R	R	0.65 U

FOOTNOTES :
ug/kg (micrograms per kilogram) = ppb (parts per billion).
Units for inorganic results are mg/kg (milligrams per kilogram).
J is a data qualifier indicating estimated values (appendix A).
R = Analyte was rejected due to QA/QC.
B = For organics, analyte was detected in the method blank.
B = For inorganics, analyte value is between the contract required detection limit (CRDL) and the instrument detection limit (IDL).
U = Indicates element was analyzed for but not detected. The number shown is the detection limit.
D = Denotes analyte quantified at a secondary dilution factor.
E = Estimated value due to excedence of linear calibration range.

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE E-4 (contd)
INORGANICS
SOIL BORING ANALYTICAL RESULTS

06/26/90

	CONCENTRATIONS in mg/kg								
SAMPLE NUMBER -	B6-SS-7DUP	B7-SS-06	B8-SS-08	B9-SS-07	B9-SS-10	B10-SS-02	B10-SS-05	B11-SS-07	B12-SS-01
INORGANICS									
ALUMINUM	9910.00	9560.00	7970.00	9310.00	8860.00	2900.00	R	2630.00	10300.00
ANTIMONY	13.70 UJ	13.00 U	12.60 UJ	12.10 UJ	11.40 UJ	15.50 U	17.80 U	15.20 UJ	15.20 UJ
ARSENIC	4.50	3.50	3.00	3.10	1.90 B	2.70 B	29.70	1.10 B	21.80 J
BARIUM	82.30	77.50	72.10	76.70	85.30	185.00	5080.00	39.70 B	2240.00
BERYLLIUM	0.50 B	0.56 B	0.34 B	0.44 B	0.29 B	0.06 B	0.48 B	0.30 U	1.00 B
CADMIUM	1.10 U	0.88 U	0.99 U	0.95 U	0.90 U	5.50	1.50 B	1.20 U	5.90
CALCIUM	3190.00 J	52400.00	57600.00 J	71100.00 J	70500.00 J	R	R	54900.00 J	8450.00
CHROMIUM	32.20	17.00	17.50	13.50	13.60	28.20	484.00	15.60	37.50 J
COBALT	8.50 B	9.30 BJ	6.40 B	7.60 B	6.10 B	16.90 J	44.60 J	8.30 B	13.50 B
COPPER	29.30	37.90 J	18.20	17.60	15.10	512.00 J	268.00 J	27.80	337.00
IRON	23600.00	17500.00	13700.00	18400.00	14400.00	12800.00	489000.00	20000.00	33100.00
LEAD	91.00	52.60	49.60	13.00	12.30	431.00 J	633.00 J	50.00	882.00 J
MAGNESIUM	3380.00	18300.00	21800.00	25600.00	20200.00	1370.00 B	1850.00	23700.00	1300.00 B
MANGANESE	587.00	461.00 J	415.00	471.00	454.00	146.00 J	4430.00 J	351.00	275.00 J
MERCURY	0.28	0.12 U	0.12 U	0.15	0.11 U	0.27	0.17 U	0.15 U	1.10
NICKEL	27.30	19.80	16.20	16.10	13.00	22.60	193.00	20.30	34.80
POTASSIUM	1460.00	1850.00	1820.00	2550.00	2370.00	357.00 B	232.00 B	640.00 B	1170.00 B
SELENIUM	0.54 U	0.51 U	0.50 U	1.20 J	0.45 U	2.00	0.71 U	0.59 U	2.00 J
SILVER	0.81 U	0.69 U	0.74 U	0.71 U	0.67 U	2.10 B	11.20	4.30	2.40 B
SODIUM	178.00 B	237.00 B	237.00 B	280.00 B	300.00 B	262.00 B	837.00 B	269.00 B	244.00 B
THALLIUM	0.81 U	0.69 U	0.74 U	0.71 U	0.67 U	0.82 U	0.94 U	0.89 U	0.89 U
VANADIUM	21.90	20.60	16.40	18.50	21.30	6.50 B	1.10 U	8.20 B	36.60
ZINC	R	82.60	114.00	87.00	55.70	200.00	643.00	472.00	1150.00
CYANIDE	0.74	0.61 UJ	0.62 U	1.20 U	1.10 U	1.00 J	1.30 J	0.74 U	R

FOOTNOTES :
ug/kg (micrograms per kilogram) = ppb (parts per billion).
Units for inorganic results are mg/kg (milligrams per kilogram).
J is a data qualifier indicating estimated values (appendix A).
R = Analyte was rejected due to QA/QC.
B = For organics, analyte was detected in the method blank.
B = For inorganics, analyte value is between the contract required detection limit (CRDL) and the instrument detection limit (IDL).
U = Indicates element was analyzed for but not detected. The number shown is the detection limit.
D = Denotes analyte quantified at a secondary dilution factor.
E = Estimated value due to excedence of linear calibration range.

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE E-4 (contd)
INORGANICS
SOIL BORING ANALYTICAL RESULTS

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SAMPLE NUMBER -	CONCENTRATIONS in mg/kg								
	B12-SS-04	B13-SS-04	B13-SS-567	B14-SS-05	B14-SS-13	B15-SS-06	B15-SS-13	B16-SS-08	B16-SS-10
INORGANICS									
ALUMINUM	12700.00	5160.00	6670.00	6630.00	9240.00	14900.00	8650.00	3130.00 J	9070.00 J
ANTIMONY	13.60 UJ	12.60 UJ	11.70 UJ	12.20 UJ	11.80 UJ	12.80 UJ	11.20 UJ	5.70 U	5.70 U
ARSENIC	6.50 J	15.80 J	2.80 J	5.10 J	2.30 BJ	3.00 J	8.40 J	1.80 BJ	2.20 BJ
BARIUM	106.00	35.00 B	68.50	52.50	73.90	106.00	79.90	29.00 BJ	92.40 J
BERYLLIUM	0.59 B	0.37 B	0.27 B	0.42 B	0.45 B	0.61 B	0.37 B	0.24 U	0.24 U
CADMIUM	1.10 U	0.99 U	0.91 U	0.95 U	0.92 U	1.00 U	0.88 U	0.24 U	0.24 U
CALCIUM	7150.00	51300.00	70900.00	42400.00	69600.00	3330.00	71400.00	59100.00 J	74700.00 J
CHROMIUM	18.00 J	8.40 J	9.80 J	11.00 J	12.40 J	21.60 J	12.00 J	4.70 J	11.50 J
COBALT	8.10 B	3.90 B	6.50 B	7.00 B	5.70 B	8.70 B	6.00 B	2.50 BJ	6.40 BJ
COPPER	23.90	10.40	13.60	23.20	12.90	20.90	15.00	14.20 J	16.90 J
IRON	26100.00	12300.00	11700.00	14400.00	13700.00	21000.00	13700.00	7260.00 J	14900.00 J
LEAD	38.20 J	148.00 J	15.40 J	13.00 J	16.30 J	27.80 J	11.70 J	17.70 J	18.30 J
MAGNESIUM	4470.00	22600.00	26000.00	12400.00	26800.00	4300.00	28500.00	25000.00 J	26500.00 J
MANGANESE	386.00 J	412.00 J	451.00 J	311.00 J	458.00 J	202.00 J	428.00 J	341.00 J	483.00 J
MERCURY	1.20	0.14	0.11 U	0.12 U	0.12 U	0.13 U	0.17	0.12 U	0.12 U
NICKEL	19.10	8.70 B	10.60	18.60	14.10	23.10	13.40	4.70 U	12.00 J
POTASSIUM	1470.00	1370.00	1600.00	1570.00	2820.00	2040.00	2420.00	920.00 B	2440.00 J
SELENIUM	0.59 BJ	0.49 UJ	0.46 UJ	0.48 UJ	0.46 UJ	0.50 UJ	0.44 UJ	0.47 U	0.47 U
SILVER	0.80 U	0.74 U	0.69 U	0.72 U	0.69 U	0.75 U	0.66 U	0.47 U	0.47 U
SODIUM	192.00 B	180.00 B	345.00 B	179.00 B	249.00 B	209.00 B	228.00 B	193.00 B	228.00 B
THALLIUM	0.80 U	0.74 U	0.69 U	0.72 U	0.69 U	0.75 U	0.66 U	0.24 U	0.24 U
VANADIUM	25.80	14.50	13.60	14.50	19.60	25.90	17.30	8.50 BJ	17.10 J
ZINC	113.00	79.80	86.80	74.30	66.90	109.00	61.10	191.00 J	83.10 J
CYANIDE	R	R	R	R	R	R	R	0.59 U	0.59 U

FOOTNOTES :
ug/kg (micrograms per kilogram) = ppb (parts per billion).
Units for inorganic results are mg/kg (milligrams per kilogram).
J is a data qualifier indicating estimated values (appendix A).
R = Analyte was rejected due to QA/QC.
B = For organics, analyte was detected in the method blank.
B = For inorganics, analyte value is between the contract required detection limit (CRDL) and the instrument detection limit (IDL).
U = Indicates element was analyzed for but not detected. The number shown is the detection limit.
D = Denotes analyte quantified at a secondary dilution factor.
E = Estimated value due to excedence of linear calibration range.

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE E-4 (contd)
INORGANICS
SOIL BORING ANALYTICAL RESULTS

06/26/90

SAMPLE NUMBER -	CONCENTRATIONS in mg/kg								
	MW-1D-07	MW-2S-07	MW-2S-11	MW-3S-04	MW-3S-06	MW-3S-07	MW-4D-10	MW-5S-01	MW-6S-02
INORGANICS									
ALUMINUM	4240.00 J	3490.00 J	10900.00 J	9770.00	6570.00	8870.00	13100.00 J	4450.00	6000.00
ANTIMONY	4.60 B	6.10 U	5.30 U	5.60 BJ	7.40 BJ	8.60 BJ	3.60 U	4.20 U	12.40 UJ
ARSENIC	1.60 B	1.70 BJ	3.60 J	3.90 J	3.10 J	2.90 J	4.90	2.10	3.50
BARIUM	38.80 B	31.10 BJ	93.80 J	78.40	63.70	81.10	92.00	51.70	34.90 B
BERYLLIUM	0.17 BJ	0.25 U	0.22 U	0.59 B	0.47 B	0.59 B	0.57 BJ	0.32 B	0.02 U
CADMIUM	0.75 U	0.25 U	0.22 U	0.68 U	0.64 U	0.68 U	0.77 U	0.58 U	0.84 U
CALCIUM	65400.00	58300.00 J	54300.00 J	72500.00	76400.00	78300.00	70900.00	56800.00 J	28000.00
CHROMIUM	4.50	5.80 J	13.80 J	10.60	6.50	8.80	14.00	5.00	6.80
COBALT	4.30 B	0.99 BJ	8.80 BJ	9.10 B	6.30 B	8.30 B	11.10 B	4.20 B	2.40 B
COPPER	R	27.00 J	29.70 J	17.60 J	13.90 J	16.80 J	R	22.20 J	15.50 J
IRON	7570.00	8280.00 J	19600.00	15800.00	11300.00	14500.00	21400.00	8710.00 J	7820.00
LEAD	11.90 J	23.30 J	12.90 J	13.50	13.10	20.80	16.20 J	43.70	30.70
MAGNESIUM	27300.00 J	24100.00 J	19900.00 J	25200.00	30100.00	31900.00	24900.00 J	23600.00	3660.00
MANGANESE	323.00	360.00 J	414.00 J	506.00	412.00	459.00	476.00	358.00 J	103.00
MERCURY	0.22	0.13 U	0.14 J	0.12 U	0.11 U	0.12 U	0.17	0.31	0.12 U
NICKEL	10.30	8.40 BJ	18.40 J	18.50	12.90	17.20	22.30	8.10	6.80 B
POTASSIUM	801.00 B	846.00 B	2510.00 J	1940.00	1450.00	2070.00	2640.00	975.00 B	624.00 B
SELENIUM	0.89 UJ	0.51 U	0.44 U	0.61 U	0.58 U	0.61 U	0.92 U	0.26 U	0.54 U
SILVER	0.65 U	0.51 U	0.44 U	R	R	R	0.67 UJ	0.94 U	0.65 U
SODIUM	155.00 B	205.00 BJ	200.00 BJ	184.00 B	177.00 B	193.00 B	233.00 B	143.00 BJ	205.00 B
THALLIUM	0.43 U	0.25 U	0.22 U	0.42 U	0.40 U	0.42 U	0.45 U	0.36 U	0.61 U
VANADIUM	11.20 B	8.10 BJ	18.40 J	19.30	13.60	17.70	25.20	10.40 J	16.10 J
ZINC	66.50	73.90 J	63.30 J	92.60	76.40	71.30	64.00	82.00 J	61.70
CYANIDE	0.60 U	0.63 U	0.55 U	0.59 U	0.55 U	0.59 U	0.62 U	0.50 U	0.58 U

FOOTNOTES :
ug/kg (micrograms per kilogram) = ppb (parts per billion).
Units for inorganic results are mg/kg (milligrams per kilogram).
J is a data qualifier indicating estimated values (appendix A).
R = Analyte was rejected due to QA/QC.
B = For organics, analyte was detected in the method blank.
B = For inorganics, analyte value is between the contract required detection limit (CRDL) and the instrument detection limit (IDL).
U = Indicates element was analyzed for but not detected. The number shown is the detection limit.
D = Denotes analyte quantified at a secondary dilution factor.
E = Estimated value due to excedence of linear calibration range.

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE E-4 (contd)
INORGANICS
SOIL BORING ANALYTICAL RESULTS

06/26/90

	CONCENTRATIONS in mg/kg								
SAMPLE NUMBER -	MW-6S-03	MW-6S-03D	MW-7S-15	MW-8S-05	MW-9S-06	MW-10S-07	MW-11S-07	MW-12S-07	MW-13S-02
INORGANICS									
ALUMINUM	4480.00	4920.00	4200.00	10800.00	4500.00	10300.00	11800.00	8900.00	16500.00
ANTIMONY	12.50 UJ	13.00 UJ	12.50 UJ	12.30 UJ	11.90 UJ	12.20 UJ	12.50 UJ	11.80 UJ	12.70 UJ
ARSENIC	2.30 B	3.00	3.70	3.80	1.90 B	2.90	3.30	2.40	4.40 J
BARIUM	30.60 B	33.60 B	29.30 B	67.60	33.40 B	79.80	94.70	93.50	104.00
BERYLLIUM	0.02 U	0.02 U	0.24 B	0.44 B	0.02 U	0.32 B	0.39 B	0.39 B	1.40
CADMIUM	0.85 U	0.88 U	0.85 U	0.84 U	0.81 U	0.83 U	0.85 U	0.80 U	1.00 U
CALCIUM	49800.00	57900.00	55400.00	43200.00	52100.00	66000.00	73600.00	65800.00	72900.00
CHROMIUM	7.60 J	7.80 J	7.30 J	15.80 J	7.80 J	15.00 J	16.30 J	13.20 J	21.40
COBALT	3.50 B	3.50 B	3.90 B	7.40 B	4.10 B	8.40 B	7.90 B	5.00 B	7.40 B
COPPER	11.60 J	18.90 J	7.80 J	16.50	14.40	15.00	16.20	21.30 J	21.20
IRON	9880.00	10500.00	7770.00	17800.00	8660.00	16300.00	17700.00	13800.00	24500.00
LEAD	10.00	11.80	18.50	16.90 J	12.00 J	14.10 J	15.10 J	10.00	19.00
MAGNESIUM	20000.00	25100.00	21800.00	15500.00	20900.00	21400.00	23400.00	24400.00	24500.00
MANGANESE	414.00	406.00	321.00	449.00	329.00	508.00	520.00	382.00	449.00
MERCURY	0.12 U	0.12 U	0.37	0.31 J	0.11 UJ	0.31 J	0.12 UJ	0.71	0.16
NICKEL	5.90 B	8.00 B	6.10 B	17.40	8.90 B	15.30	16.70	13.00	21.20
POTASSIUM	905.00 B	981.00 B	1270.00	2060.00 J	1120.00	2630.00 J	3010.00 J	2080.00	3330.00
SELENIUM	0.54 U	0.56 U	0.49 UJ	0.49 U	0.52 U	0.48 U	0.49 U	0.47 UJ	0.50 U
SILVER	0.66 U	0.68 U	0.66 U	0.65 U	0.63 U	0.64 U	0.66 U	0.62 U	0.75 U
SODIUM	114.00 B	135.00 B	169.00 B	196.00 B	158.00 B	228.00 B	239.00 B	263.00 B	296.00 BJ
THALLIUM	0.61 U	0.63 U	0.66 U	0.65 U	0.58 U	0.64 U	0.66 U	0.62 U	0.25 U
VANADIUM	13.00 J	13.80 J	11.60 BJ	21.00	10.80 B	20.60	21.90	19.10 J	31.00
ZINC	67.20	73.60	78.10	68.00	70.80	78.90	70.60	97.20	76.90
CYANIDE	0.59 U	0.61 U	1.20 U	1.20 U	1.10 U	0.57 U	0.59 U	1.10 U	1.20 U

FOOTNOTES :
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Units for inorganic results are mg/kg (milligrams per kilogram).
J is a data qualifier indicating estimated values (appendix A).
R = Analyte was rejected due to QA/QC.
B = For organics, analyte was detected in the method blank.
B = For inorganics, analyte value is between the contract required detection limit (CRDL) and the instrument detection limit (IDL).
U = Indicates element was analyzed for but not detected. The number shown is the detection limit.
D = Denotes analyte quantified at a secondary dilution factor.
E = Estimated value due to excedence of linear calibration range.

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE E-4 (contd)
INORGANICS
SOIL BORING ANALYTICAL RESULTS

06/26/90

	CONCENTRATIONS in mg/kg								
SAMPLE NUMBER -	MW-13S-06	MW-14S-08	MW-14S-12	MW-15S-05	MW-16S-01	MW-16S-03	MW-16S-3DUP	MW-17S-05	MW-17S-11
INORGANICS									
ALUMINUM	12500.00	4850.00	14300.00	7530.00	5920.00	10500.00	6990.00	2570.00	6690.00
ANTIMONY	12.20 UJ	11.90 UJ	12.10 UJ	12.60 UJ	12.00 UJ	12.30 UJ	11.80 UJ	12.40 UJ	11.90 UJ
ARSENIC	2.60 J	1.70 BJ	7.20 J	3.30 J	1.70 BJ	R	2.80 J	2.40 BJ	2.60 J
BARIUM	98.80	35.50 B	115.00	340.00	43.90 B	74.90	65.00	12.60 B	61.00
BERYLLIUM	1.30	0.23 U	1.40	0.25 U	0.24 U	1.20	1.20	0.24 U	1.20
CADMIUM	0.96 U	0.93 U	0.95 U	2.00	0.94 U	0.97 U	0.93 U	0.97 U	0.93 U
CALCIUM	71200.00	57000.00	50700.00	30900.00	58500.00	63100.00	64900.00	53900.00	64500.00
CHROMIUM	16.80	7.10	19.90	50.30	8.30	15.40 J	10.10 J	4.20	10.30
COBALT	8.50 B	3.30 B	11.50 B	12.80	3.40 B	7.60 B	5.80 B	2.30 B	4.60 B
COPPER	17.40	10.00	25.20	123.00	11.50	20.70	24.30	9.80	15.30
IRON	19300.00	9250.00	25100.00	52800.00	10000.00	17400.00	12300.00	6250.00	11900.00
LEAD	17.20	20.20	13.90	110.00	11.30	18.30	10.00	12.30	15.20
MAGNESIUM	25000.00	23300.00	19100.00	9630.00	24100.00	23800.00	25100.00	23400.00	25200.00
MANGANESE	516.00	357.00	479.00	555.00	355.00	448.00	401.00	343.00	409.00
MERCURY	0.12 U	0.12 U	0.12 U	0.49	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
NICKEL	19.50	7.40 B	28.90	46.80	8.00 B	15.80	11.40	10.60	10.00
POTASSIUM	3560.00	1160.00 B	3130.00	1170.00 B	1790.00	2710.00	1790.00	563.00 B	1960.00
SELENIUM	0.48 U	0.47 U	0.48 U	0.49 U	0.47 U	0.48 U	0.46 U	0.49 U	0.47 U
SILVER	0.72 U	0.70 U	0.71 U	2.90	0.71 U	0.72 U	0.69 U	0.73 U	0.70 U
SODIUM	242.00 BJ	187.00 BJ	228.00 BJ	184.00 BJ	192.00 BJ	233.00 BJ	213.00 BJ	155.00 BJ	202.00 BJ
THALLIUM	0.24 B	0.23 U	0.45 B	0.32 B	0.24 B	0.34 B	0.28 B	0.24 U	0.23 U
VANADIUM	23.80	11.60	25.30	16.80	14.00	21.40	14.40	8.00 B	15.90
ZINC	75.20	66.10	72.80	511.00	76.00	70.20	64.60	153.00	91.10
CYANIDE	1.20 U	1.20 U	0.60 U	1.20 U	1.20 U	1.20 U	1.20 U	0.61 U	1.20 U

FOOTNOTES :
ug/kg (micrograms per kilogram) = ppb (parts per billion).
Units for inorganic results are mg/kg (milligrams per kilogram).
J is a data qualifier indicating estimated values (appendix A).
R = Analyte was rejected due to QA/QC.
B = For organics, analyte was detected in the method blank.
B = For inorganics, analyte value is between the contract required detection limit (CRDL) and the instrument detection limit (IDL).
U = Indicates element was analyzed for but not detected. The number shown is the detection limit.
D = Denotes analyte quantified at a secondary dilution factor.
E = Estimated value due to excedence of linear calibration range.

APPENDIX J

November 5, 1990
[file name = VOASW1]

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

VOLATILES
SURFACE WATER (SW)
(Page 1 of 3)

	SW-1-001	SW-2-001	SW-3-001	SW-4-001	SW-5-001	SW-6-001	SW-7-001
VOLATILES							
chloromethane	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
bromomethane	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
vinyl chloride	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
chloroethane	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
methylene chloride	5.0 U	24.0 U	48.0 U	5.0 U	48.0 U	42.0 U	5.0 U
acetone	10.0 U	10.0 U	17.0 U	10.0 U	10.0 U	18.0	10.0 U
carbon disulfide	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-dichloroethene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-dichloroethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-dichloroethene (total)	5.0 U	5.0 U	5.0 U	5.0 U	6.0	5.0 U	4.0 J
chloroform	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-dichloroethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-butanone	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
1,1,1-trichloroethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
carbon tetrachloride	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
vinyl acetate	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
bromodichloromethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-dichloropropane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,3-dichloropropene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
trichloroethene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
dibromochloromethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2-trichloroethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
benzene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,3-dichloropropene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
bromoform	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-methyl-2-pentanone	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
2-hexanone	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
tetrachloroethene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2,2-tetrachloroethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
toluene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
chlorobenzene	5.0 U	5.0 U	5.0 U	5.0 U	10.0	5.0 U	5.0 U
ethylbenzene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
styrene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
xylenes (total)	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

November 5, 1990
[file name = VOASW2]

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

VOLATILES
SURFACE WATER (SW)

	SW-7-002	SW-8-001	SW-9-001	SW-10-001	SW-11-001	SW-12-001	SW-13-001
VOLATILES							
chloromethane	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
bromomethane	10.0 U	10.0 U	R	R	R	R	R
vinyl chloride	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
chloroethane	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
methylene chloride	5.0 U	7.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
acetone	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	R	10.0 U
carbon disulfide	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-dichloroethene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-dichloroethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-dichloroethene (total)	3.0 J	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
chloroform	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-dichloroethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-butanone	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
1,1,1-trichloroethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
carbon tetrachloride	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
vinyl acetate	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
bromodichloromethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-dichloropropane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,3-dichloropropene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
trichloroethene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
dibromochloromethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2-trichloroethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
benzene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,3-dichloropropene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
bromoform	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-methyl-2-pentanone	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
2-hexanone	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
tetrachloroethene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2,2-tetrachloroethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
toluene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
chlorobenzene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
ethylbenzene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
styrene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
xylenes (total)	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

November 5, 1990
[file name = VOASW3]

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

VOLATILES
SURFACE WATER (SW)
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	SW-14-001	SW-15-001	SW-16-001
VOLATILES			
chloromethane	10.0 U	10.0 U	10.0 U
bromomethane	10.0 U	10.0 U	10.0 U
vinyl chloride	10.0 U	10.0 U	10.0 U
chloroethane	10.0 U	10.0 U	10.0 U
methylene chloride	5.0 U	5.0 U	5.0 U
acetone	10.0 U	10.0 U	10.0 U
carbon disulfide	5.0 U	5.0 U	5.0 U
1,1-dichloroethene	5.0 U	5.0 U	5.0 U
1,1-dichloroethane	5.0 U	5.0 U	5.0 U
1,2-dichloroethene (total)	5.0 U	5.0 U	5.0 U
chloroform	5.0 U	5.0 U	5.0 U
1,2-dichloroethane	5.0 U	5.0 U	5.0 U
2-butanone	10.0 U	10.0 U	10.0 U
1,1,1-trichloroethane	5.0 U	5.0 U	5.0 U
carbon tetrachloride	5.0 U	5.0 U	5.0 U
vinyl acetate	10.0 U	10.0 U	10.0 U
bromodichloromethane	5.0 U	5.0 U	5.0 U
1,2-dichloropropane	5.0 U	5.0 U	5.0 U
cis-1,3-dichloropropene	5.0 U	5.0 U	5.0 U
trichloroethene	5.0 U	5.0 U	5.0 U
dibromochloromethane	5.0 U	5.0 U	5.0 U
1,1,2-trichloroethane	5.0 U	5.0 U	5.0 U
benzene	5.0 U	5.0 U	5.0 U
trans-1,3-dichloropropene	5.0 U	5.0 U	5.0 U
bromoform	5.0 U	5.0 U	5.0 U
4-methyl-2-pentanone	10.0 U	10.0 U	10.0 U
2-hexanone	10.0 U	10.0 U	10.0 U
tetrachloroethene	5.0 U	5.0 U	5.0 U
1,1,2,2-tetrachloroethane	5.0 U	5.0 U	5.0 U
toluene	5.0 U	5.0 U	5.0 U
chlorobenzene	5.0 U	5.0 U	5.0 U
ethylbenzene	5.0 U	5.0 U	5.0 U
styrene	5.0 U	5.0 U	5.0 U
xylenes (total)	5.0 U	5.0 U	5.0 U

Notes: All values are in ug/l unless noted otherwise
U Indicates element was analyzed for but not detected. The number shown is the detection limit.
J Indicates an estimated value.
R Indicates the analyte was rejected due to failing QA/QC criteria

November 5, 1990
[file name = BNASW1]

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

SEMI-VOLATILES
SURFACE WATER (SW)
(Page 1 of 6)

	SW-1-001	SW-2-001	SW-3-001	SW-4-001	SW-5-001	SW-6-001	SW-7-001/002
SEMI-VOLATILES							
phenol	10.0 UJQH	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
bis(2-chloroethyl)ether	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
2-chlorophenol	10.0 UJQH	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
1,3-dichlorobenzene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
1,4-dichlorobenzene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
benzyl alcohol	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
1,2-dichlorobenzene	10.0 U	10.0 U	10.0 U	10.0 U	4.0 J	10.0 U	10.0 U
2-methylphenol	10.0 UJQH	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
bis(2-chloroisopropyl)ether	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
4-methylphenol	10.0 UJQH	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
N-nitroso-di-n-propylamine	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
hexachloroethane	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
nitrobenzene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
isophorone	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
2-nitrophenol	10.0 UJQH	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
2,4-dimethylphenol	10.0 UJQH	10.0 U	10.0 U	10.0 U	4.0 J	10.0 U	10.0 U
benzoic acid	50.0 UJQH	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U
bis(2-chloroethoxy)methane	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
2,4-dichlorophenol	10.0 UJQH	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
1,2,4-trichlorobenzene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
naphthalene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
4-chloroaniline	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
hexachlorobutadiene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
4-chloro-3-methylphenol	10.0 UJQH	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
2-methynaphthalene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
hexachlorocyclopentadiene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
2,4,6-trichlorophenol	10.0 UJQH	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
2,4,5-trichlorophenol	50.0 UJQH	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U
2-chloronaphthalene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
2-nitroaniline	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U
dimethyl phthalate	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
acenaphthylene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
2,6-dinitrotoluene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
3-nitroaniline	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U
acenaphthene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
2,4-dinitrophenol	50.0 UJQH	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U
4-nitrophenol	50.0 UJQH	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U
dibenzofuran	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
2,4-dinitrotoluene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
diethylphthalate	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
4-chlorophenyl-phenylether	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
fluorene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
4-nitroaniline	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U
4,6-dinitro-2-methylphenol	50.0 UJQH	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U

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[file name = BNASW1]

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

SEMI-VOLATILES
SURFACE WATER (SW)
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	SW-1-001	SW-2-001	SW-3-001	SW-4-001	SW-5-001	SW-6-001	SW-7-001/002
N-nitrosodiphenylamine (1)	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
4-bromophenyl-phenylether	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
hexachlorobenzene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
pentachlorophenol	50.0 UJQH	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U
phenanthrene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
anthracene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
di-n-butylphthalate	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
fluoranthene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
pyrene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
butylbenzylphthalate	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
3,3'-dichlorobenzidine	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U
benzo(a)anthracene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
chrysene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
bis(2-ethylhexyl)phthalate	12.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	32.0 U/12.0 U
di-n-octylphthalate	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
benzo(b)fluoranthene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
benzo(k)fluoranthene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
benzo(a)pyrene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
ideno(1,2,3-cd)pyrene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
dibenz(a,h)anthracene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
benzo(g,h,i)perylene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U

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[file name = BNASW2]

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

SEMI-VOLATILES
SURFACE WATER (SW)
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	SW-8-001	SW-9-001	SW-10-001	SW-11-001	SW-12-001	SW-13-001	SW-14-001
SEMI-VOLATILES							
phenol	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
bis(2-chloroethyl)ether	10.0 U	10.0 U	10.0 U	10.0 U	R	10.0 U	10.0 U
2-chlorophenol	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
1,3-dichlorobenzene	10.0 U	10.0 U	10.0 U	10.0 U	R	10.0 U	10.0 U
1,4-dichlorobenzene	10.0 U	10.0 U	10.0 U	10.0 U	R	10.0 U	10.0 U
benzyl alcohol	10.0 U	10.0 U	10.0 U	10.0 U	R	10.0 U	10.0 U
1,2-dichlorobenzene	10.0 U	10.0 U	10.0 U	10.0 U	R	10.0 U	10.0 U
2-methylphenol	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
bis(2-chloroisopropyl)ether	10.0 U	10.0 U	10.0 U	10.0 U	R	10.0 U	10.0 U
4-methylphenol	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
N-nitroso-di-n-propylamine	10.0 U	10.0 U	10.0 U	10.0 U	R	10.0 U	10.0 U
hexachloroethane	10.0 U	10.0 U	10.0 U	10.0 U	R	10.0 U	10.0 U
nitrobenzene	10.0 U	10.0 U	10.0 U	10.0 U	R	10.0 U	10.0 U
isophorone	10.0 U	10.0 U	10.0 U	10.0 U	R	10.0 U	10.0 U
2-nitrophenol	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
2,4-dimethylphenol	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
benzoic acid	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U
bis(2-chloroethoxy)methane	10.0 U	10.0 U	10.0 U	10.0 U	R	10.0 U	10.0 U
2,4-dichlorophenol	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
1,2,4-trichlorobenzene	10.0 U	10.0 U	10.0 U	10.0 U	R	10.0 U	10.0 U
naphthalene	10.0 U	10.0 U	10.0 U	10.0 U	R	10.0 U	10.0 U
4-chloroaniline	10.0 U	10.0 U	10.0 U	10.0 U	R	10.0 U	10.0 U
hexachlorobutadiene	10.0 U	10.0 U	10.0 U	10.0 U	R	10.0 U	10.0 U
4-chloro-3-methylphenol	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
2-methynaphthalene	10.0 U	10.0 U	10.0 U	10.0 U	R	10.0 U	10.0 U
hexachlorocyclopentadiene	10.0 U	10.0 U	10.0 U	10.0 U	R	10.0 U	10.0 U
2,4,6-trichlorophenol	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
2,4,5-trichlorophenol	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U
2-chloronaphthalene	10.0 U	10.0 U	10.0 U	10.0 U	R	10.0 U	10.0 U
2-nitroaniline	50.0 U	50.0 U	50.0 U	50.0 U	R	50.0 U	50.0 U
dimethyl phthalate	10.0 U	10.0 U	10.0 U	10.0 U	R	10.0 U	10.0 U
acenaphthylene	10.0 U	10.0 U	10.0 U	10.0 U	R	10.0 U	10.0 U
2,6-dinitrotoluene	10.0 U	10.0 U	10.0 U	10.0 U	R	10.0 U	10.0 U
3-nitroaniline	50.0 U	50.0 U	50.0 U	50.0 U	R	50.0 U	50.0 U
acenaphthene	10.0 U	10.0 U	10.0 U	10.0 U	R	10.0 U	10.0 U
2,4-dinitrophenol	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U
4-nitrophenol	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U
dibenzofuran	10.0 U	10.0 U	10.0 U	10.0 U	R	10.0 U	10.0 U
2,4-dinitrotoluene	10.0 U	10.0 U	10.0 U	10.0 U	R	10.0 U	10.0 U
diethylphthalate	10.0 U	10.0 U	10.0 U	10.0 U	R	10.0 U	10.0 U
4-chlorophenyl-phenylether	10.0 U	10.0 U	10.0 U	10.0 U	R	10.0 U	10.0 U
fluorene	10.0 U	10.0 U	10.0 U	10.0 U	R	10.0 U	10.0 U
4-nitroaniline	50.0 U	50.0 U	50.0 U	50.0 U	R	50.0 U	50.0 U
4,6-dinitro-2-methylphenol	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U

November 5, 1990
[file name = BNASW2]

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

SEMI-VOLATILES
SURFACE WATER (SW)
(Page 4 of 6)

	SW-8-001	SW-9-001	SW-10-001	SW-11-001	SW-12-001	SW-13-001	SW-14-001
N-nitrosodiphenylamine (1)	10.0 U	10.0 U	10.0 U	10.0 U	R	10.0 U	10.0 U
4-bromophenyl-phenylether	10.0 U	10.0 U	10.0 U	10.0 U	R	10.0 U	10.0 U
hexachlorobenzene	10.0 U	10.0 U	10.0 U	10.0 U	R	10.0 U	10.0 U
pentachlorophenol	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U
phenanthrene	10.0 U	10.0 U	10.0 U	10.0 U	R	10.0 U	10.0 U
anthracene	10.0 U	10.0 U	10.0 U	10.0 U	R	10.0 U	10.0 U
di-n-butylphthalate	10.0 U	10.0 U	10.0 U	10.0 U	R	10.0 U	10.0 U
fluoranthene	10.0 U	10.0 U	10.0 U	10.0 U	R	10.0 U	10.0 U
pyrene	10.0 U	10.0 U	10.0 U	10.0 U	R	10.0 U	10.0 U
butylbenzylphthalate	10.0 U	10.0 U	10.0 U	10.0 U	R	10.0 U	10.0 U
3,3'-dichlorobenzidine	20.0 U	20.0 U	20.0 U	20.0 U	R	20.0 U	20.0 U
benzo(a)anthracene	10.0 U	10.0 U	10.0 U	10.0 U	R	10.0 U	10.0 U
chrysene	10.0 U	10.0 U	10.0 U	10.0 U	R	10.0 U	10.0 U
bis(2-ethylhexyl)phthalate	10.0 U	16.0 U	10.0 U	50.0 U	22.0 BJ	55.0 U	10.0 U
di-n-octylphthalate	10.0 U	10.0 U	10.0 U	10.0 U	R	10.0 U	10.0 U
benzo(b)fluoranthene	10.0 U	10.0 U	10.0 U	10.0 U	R	10.0 U	10.0 U
benzo(k)fluoranthene	10.0 U	10.0 U	10.0 U	10.0 U	R	10.0 U	10.0 U
benzo(a)pyrene	10.0 U	10.0 U	10.0 U	10.0 U	R	10.0 U	10.0 U
ideno(1,2,3-cd)pyrene	10.0 U	10.0 U	10.0 U	10.0 U	R	10.0 U	10.0 U
dibenz(a,h)anthracene	10.0 U	10.0 U	10.0 U	10.0 U	R	10.0 U	10.0 U
benzo(g,h,i)perylene	10.0 U	10.0 U	10.0 U	10.0 U	R	10.0 U	10.0 U

November 5, 1990
[file name = BNASW3]

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

SEMI-VOLATILES
SURFACE WATER (SW)

	SW-15-001	SW-16-001
SEMI-VOLATILES		
phenol	10.0 U	10.0 U
bis(2-chloroethyl)ether	10.0 U	10.0 U
2-chlorophenol	10.0 U	10.0 U
1,3-dichlorobenzene	10.0 U	10.0 U
1,4-dichlorobenzene	10.0 U	10.0 U
benzyl alcohol	10.0 U	10.0 U
1,2-dichlorobenzene	10.0 U	10.0 U
2-methylphenol	10.0 U	10.0 U
bis(2-chloroisopropyl)ether	10.0 U	10.0 U
4-methylphenol	10.0 U	10.0 U
N-nitroso-di-n-propylamine	10.0 U	10.0 U
hexachloroethane	10.0 U	10.0 U
nitrobenzene	10.0 U	10.0 U
isophorone	10.0 U	10.0 U
2-nitrophenol	10.0 U	10.0 U
2,4-dimethylphenol	10.0 U	10.0 U
benzoic acid	50.0 U	50.0 U
bis(2-chloroethoxy)methane	10.0 U	10.0 U
2,4-dichlorophenol	10.0 U	10.0 U
1,2,4-trichlorobenzene	10.0 U	10.0 U
naphthalene	10.0 U	10.0 U
4-chloroaniline	10.0 U	10.0 U
hexachlorobutadiene	10.0 U	10.0 U
4-chloro-3-methylphenol	10.0 U	10.0 U
2-methynaphthalene	10.0 U	10.0 U
hexachlorocyclopentadiene	10.0 U	10.0 U
2,4,6-trichlorophenol	10.0 U	10.0 U
2,4,5-trichlorophenol	50.0 U	50.0 U
2-chloronaphthalene	10.0 U	10.0 U
2-nitroaniline	50.0 U	50.0 U
dimethyl phthalate	10.0 U	10.0 U
acenaphthylene	10.0 U	10.0 U
2,6-dinitrotoluene	10.0 U	10.0 U
3-nitroaniline	50.0 U	50.0 U
acenaphthene	10.0 U	10.0 U
2,4-dinitrophenol	50.0 U	50.0 U
4-nitrophenol	50.0 U	50.0 U
dibenzofuran	10.0 U	10.0 U
2,4-dinitrotoluene	10.0 U	10.0 U
diethylphthalate	10.0 U	10.0 U
4-chlorophenyl-phenylether	10.0 U	10.0 U
fluorene	10.0 U	10.0 U
4-nitroaniline	50.0 U	50.0 U
4,6-dinitro-2-methylphenol	50.0 U	50.0 U

November 5, 1990
[file name = BNASW3]

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

SEMI-VOLATILES
SURFACE WATER (SW)
(Page 6 of 6)

	SW-15-001	SW-16-001
N-nitrosodiphenylamine (1)	10.0 U	10.0 U
4-bromophenyl-phenylether	10.0 U	10.0 U
hexachlorobenzene	10.0 U	10.0 U
pentachlorophenol	50.0 U	50.0 U
phenanthrene	10.0 U	10.0 U
anthracene	10.0 U	10.0 U
di-n-butylphthalate	10.0 U	10.0 U
fluoranthene	10.0 U	10.0 U
pyrene	10.0 U	10.0 U
butylbenzylphthalate	10.0 U	10.0 U
3,3'-dichlorobenzidine	20.0 U	20.0 U
benzo(a)anthracene	10.0 U	10.0 U
chrysene	10.0 U	10.0 U
bis(2-ethylhexyl)phthalate	11.0 U	10.0 U
di-n-octylphthalate	14.0	10.0 U
benzo(b)fluoranthene	10.0 U	10.0 U
benzo(k)fluoranthene	10.0 U	10.0 U
benzo(a)pyrene	10.0 U	10.0 U
ideno(1,2,3-cd)pyrene	10.0 U	10.0 U
dibenz(a,h)anthracene	10.0 U	10.0 U
benzo(g,h,i)perylene	10.0 U	10.0 U

Notes: All values are in ug/l unless noted otherwise
U Indicates element was analyzed for but not detected. The number shown is the detection limit.
J Indicates an estimated value.
R Indicates the analyte was rejected due to failing QA/QC criteria
(1) Cannot be separated from diphenylamine

November 5, 1990
[file name = PESTSW1]

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

PESTICIDES/PCBS
SURFACE WATER (SW)
(Page 1 of 3)

	SW-1-001	SW-2-001	SW-3-001	SW-4-001	SW-5-001	SW-6-001	SW-7-001
PESTICIDES/PCBS							
alpha-BHC	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
beta-BHC	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
delta-BHC	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
gamma-BHC (Lindane)	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
heptachlor	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
aldrin	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
heptachlor epoxide	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
endosulfan I	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
dieldrin	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
4,4'-DDE	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
endrin	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
endosulfan II	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
4,4'-DDD	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
endosulfan sulfate	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
4,4'DDT	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
methoxychlor	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
endrin keytone	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
alpha-chlordane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
gamma-chlordane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
toxaphene	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
aroclor-1016	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
aroclor-1221	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
aroclor-1232	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
aroclor-1242	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
aroclor-1248	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
aroclor-1254	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
aroclor-1260	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U

November 5, 1990
[file name = PESTSW2]

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

PESTICIDES/PCBS
SURFACE WATER (SW)
(Page 2 of 3)

	SW-7-002	SW-8-001	SW-9-001	SW-10-001	SW-11-001	SW-12-001	SW-13-001
PESTICIDES/PCBS							
alpha-BHC	R	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJM	0.05 U
beta-BHC	R	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJM	0.05 U
delta-BHC	R	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJM	0.05 U
gamma-BHC (Lindane)	R	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJM	0.05 U
heptachlor	R	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJM	0.05 U
aldrin	R	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJM	0.05 U
heptachlor epoxide	R	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJM	0.05 U
endosulfan I	R	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJM	0.05 U
dieldrin	R	0.10 U	0.10 U	0.10 U	0.10 U	0.10 UJM	0.10 U
4,4'-DDE	R	0.10 U	0.10 U	0.10 U	0.10 U	0.10 UJM	0.10 U
endrin	R	0.10 U	0.10 U	0.10 U	0.10 U	0.10 UJM	0.10 U
endosulfan II	R	0.10 U	0.10 U	0.10 U	0.10 U	0.10 UJM	0.10 U
4,4'-DDD	R	0.10 U	0.10 U	0.10 U	0.10 U	0.10 UJM	0.10 U
endosulfan sulfate	R	0.10 U	0.10 U	0.10 U	0.10 U	0.10 UJM	0.10 U
4,4'DDT	R	0.10 U	0.10 U	0.10 U	0.10 U	0.10 UJM	0.10 U
methoxychlor	R	0.50 U	0.50 U	0.50 U	0.50 U	0.50 UJM	0.50 U
endrin keytone	R	0.10 U	0.10 U	0.10 U	0.10 U	0.10 UJM	0.10 U
alpha-chlordane	R	0.50 U	0.50 U	0.50 U	0.50 U	0.50 UJM	0.50 U
gamma-chlordane	R	0.50 U	0.50 U	0.50 U	0.50 U	0.50 UJM	0.50 U
toxaphene	R	1.00 U	1.00 U	1.00 U	1.00 U	1.00 UJM	1.00 U
aroclor-1016	R	0.50 U	0.50 U	0.50 U	0.50 U	0.50 UJM	0.50 U
aroclor-1221	R	0.50 U	0.50 U	0.50 U	0.50 U	0.50 UJM	0.50 U
aroclor-1232	R	0.50 U	0.50 U	0.50 U	0.50 U	0.50 UJM	0.50 U
aroclor-1242	R	0.50 U	0.50 U	0.50 U	0.50 U	0.50 UJM	0.50 U
aroclor-1248	R	0.50 U	0.50 U	0.50 U	0.50 U	0.50 UJM	0.50 U
aroclor-1254	R	1.00 U	1.00 U	1.00 U	1.00 U	1.00 UJM	1.00 U
aroclor-1260	R	1.00 U	1.00 U	1.00 U	1.00 U	1.00 UJM	1.00 U

November 5, 1990
[file name = PESTSW3]

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

PESTICIDES/PCBS
SURFACE WATER (SW)
(Page 3 of 3)

	SW-14-001	SW-15-001	SW-16-001
PESTICIDES/PCBS			
alpha-BHC	0.05 U	0.05 U	0.05 U
beta-BHC	0.05 U	0.05 U	0.05 U
delta-BHC	0.05 U	0.05 U	0.05 U
gamma-BHC (Lindane)	0.05 U	0.05 U	0.05 U
heptachlor	0.05 U	0.05 U	0.05 U
aldrin	0.05 U	0.05 U	0.05 U
heptachlor epoxide	0.05 U	0.05 U	0.05 U
endosulfan I	0.05 U	0.05 U	0.05 U
dieldrin	0.10 U	0.10 U	0.10 U
4,4'-DDE	0.10 U	0.10 U	0.10 U
endrin	0.10 U	0.10 U	0.10 U
endosulfan II	0.10 U	0.10 U	0.10 U
4,4'-DDD	0.10 U	0.10 U	0.10 U
endosulfan sulfate	0.10 U	0.10 U	0.10 U
4,4'DDT	0.10 U	0.10 U	0.10 U
methoxychlor	0.50 U	0.50 U	0.50 U
endrin keytone	0.10 U	0.10 U	0.10 U
alpha-chlordane	0.50 U	0.50 U	0.50 U
gamma-chlordane	0.50 U	0.50 U	0.50 U
toxaphene	1.00 U	1.00 U	1.00 U
aroclor-1016	0.50 U	0.50 U	0.50 U
aroclor-1221	0.50 U	0.50 U	0.50 U
aroclor-1232	0.50 U	0.50 U	0.50 U
aroclor-1242	0.50 U	0.50 U	0.50 U
aroclor-1248	0.50 U	0.50 U	0.50 U
aroclor-1254	1.00 U	1.00 U	1.00 U
aroclor-1260	1.00 U	1.00 U	1.00 U

Notes: All values are in ug/l unless noted otherwise
U Indicates element was analyzed for but not detected. The number shown is the detection limit.
R Indicates the analyte was rejected due to failing QA/QC criteria
JM Indicates an estimated value due to surrogate spike recovery out of control.

November 5, 1990
[file name = INORGSW1]

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

INORGANICS
SURFACE WATER (SW)
(Page 1 of 3)

	SW-1-001	SW-2-001	SW-3-001	SW-4-001	SW-5-001	SW-6-001	SW-7-001
INORGANICS							
aluminum	77.0 B	56.4 B	164.0 B	1090.0	44.0 B	33.7 B	121.0 B
antimony	37.5 B	34.8 U	34.8 U	34.8 U	34.8 U	34.8 U	34.8 U
arsenic	2.2 U	3.6 B	2.2 U	2.2 U	2.2 U	3.7 B	3.1 B
barium	64.2 B	18.8 B	69.2 B	86.1 B	71.8 B	233.0	201.0
beryllium	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.46 B	0.4 U
cadmium	3.5 U	3.5 U	3.5 U	13.8	3.5 U	3.5 U	3.5 U
calcium	99000.0	56800.0	95300.0	125000.0	189000.0	178000.0	179000.0
chromium	3.4 U	3.4 U	3.4 U	3.4 U	3.4 U	3.4 U	3.4 U
cobalt	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	3.0 B
copper	6.8 B	5.4 B	11.4 B	26.8	9.5 B	8.7 B	21.4 B
iron	507.0	294.0	462.0	2460.0	4000.0	522.0	439.0
lead	10.6	8.0	12.5	20.1	10.0	2.1 B	6.6
magnesium	20500.0	15000.0	20200.0	38400.0	43000.0	33200.0	36900.0
manganese	244.0 JSQD	54.3 JSQD	157.0 JSQD	146.0	401.0 JSQD	235.0 JSQD	236.0 JSQD
mercury	0.2 U	0.2 U	0.2 U	0.3	0.2 U	0.2 U	0.2 U
nickel	12.8 U	12.8 U	12.8 U	12.8 U	13.5 B	12.8 U	12.8 U
potassium	2740.0 B	1680.0 B	3300.0 B	9600.0	10300.0	15000.0	15500.0
selenium	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U
silver	3.1 U	3.1 U	3.1 U	3.1 U	3.1 U	3.1 U	3.1 U
sodium	135000.0	19900.0	236000.0	70400.0	64900.0	66300.0	113000.0
thallium	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
vanadium	2.4 U	2.4 U	2.4 U	3.6 B	2.4 U	2.4 U	2.4 U
zinc	33.3	36.1	98.6	59.4	76.6	20.0 B	18.0 B
cyanide	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U

November 5, 1990
[file name = INORGSW2]

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

INORGANICS
SURFACE WATER (SW)
(Page 2 of 3)

	SW-8-001	SW-9-001	SW-10-001	SW-11-001	SW-12-001	SW-13-001	SW-14-001
INORGANICS							
aluminum	190.0 B	383.0	51.5 B	62.2 B	61.6 B	58.2 B	39.2 B
antimony	34.8 U	34.8 U	34.8 U	34.8 U	34.8 U	34.8 U	34.8 U
arsenic	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U
barium	38.5 B	393.0	61.8 B	95.6 B	93.6 B	96.4 B	77.0 B
beryllium	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
cadmium	8.6	9.2	7.3	3.5 U	3.5 U	6.0	3.5 U
calcium	133000.0	114000.0	96000.0	59100.0	57100.0	59300.0	115000.0
chromium	3.4 U	3.4 U	3.4 U	3.4 U	3.4 U	3.4 U	3.4 U
cobalt	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U
copper	6.7 B	9.4 B	12.9 B	3.7 B	6.0 B	6.7 B	6.5 B
iron	462.0	672.0	1310.0	148.0	R	187.0	178.0
lead	4.8 B	5.6	10.9	3.9 B	2.6 U	2.5 B	3.7 B
magnesium	16600.0	32100.0	19800.0	14800.0	14300.0	14900.0	25300.0
manganese	42.1	427.0	209.0	18.8	19.9	18.1	13.1 BJSQD
mercury	0.2 U	0.25	0.3	0.25	0.48 JS	0.25	0.2 U
nickel	12.8 U	12.8 U	12.8 U	12.8 U	12.8 U	12.8 U	12.8 U
potassium	2840.0 B	22700.0	4330.0 B	3900.0 B	3540.0 B	4090.0 B	2120.0 B
selenium	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U
silver	3.1 U	3.1 U	3.1 U	3.1 U	3.1 U	3.1 U	3.1 U
sodium	33600.0	19000.0	144000.0	136000.0	132000.0	138000.0	308000.0
thallium	2.5 U	2.5 U	2.5 U	2.5 U	1.7 U	2.5 U	2.5 U
vanadium	2.4 U	3.0 B	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U
zinc	47.6	17.8 B	63.3	11.0 B	11.1 B	18.3 B	12.9 B
cyanide	10.0 U	10.0 U	10.0 U	10.0 U	R	10.0 U	10.0 U

November 5, 1990
[file name = INORGSW3]

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

INORGANICS
SURFACE WATER (SW)
(Page 3 of 3)

	SW-15-001		SW-16-001	
INORGANICS				
aluminum	36.1	B	146.0	B
antimony	34.8	U	34.8	U
arsenic	2.2	U	2.2	U
barium	142.0	B	135.0	B
beryllium	0.4	U	0.4	U
cadmium	7.1		5.0	B
calcium	233000.0		133000.0	
chromium	3.4	U	3.4	U
cobalt	2.8	U	2.8	U
copper	7.0	B	10.4	B
iron	768.0		424.0	
lead	2.1	U	12.6	
magnesium	39700.0		33800.0	
manganese	323.0	JSQD	92.8	
mercury	0.2	U	0.2	U
nickel	12.8	U	12.8	U
potassium	24200.0		3820.0	B
selenium	2.4	U	2.4	U
silver	3.1	U	3.1	U
sodium	58300.0		269000.0	
thallium	2.5	U	2.5	U
vanadium	2.4	U	2.4	U
zinc	17.0	B	39.8	
cyanide	10.0	U	10.0	U

Notes: All values are in ug/l unless noted otherwise
U Indicates element was analyzed for but not detected. The number shown is the detection limit.
JS Indicates analyte value is estimated due to % recovery exceeding QA/QC criteria for matrix spike
B Indicates the analyte value is between the contract required detection limit (CRDL) and the instrument detection limit (IDL).
R Indicates the analyte was rejected due to failing QA/QC criteria
JQ Indicates the analyte value is estimated due to laboratory duplicate sample analysis exceeding QA/QC criteria.
JD Indicates the analyte value is estimated due to % recovery exceeding QA/QC criteria for serial dilution.

November 5, 1990
[file name = VOASE1]

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

VOLATILES
SURFACE WATER SEDIMENTS (SE)
(Page 1 of 3)

	SE-1-001	SE-2-001	SE-3-001	SE-4-001	SE-5-001	SE-6-001	SE-7-001
VOLATILES							
chloromethane	60.0 U	19.0 U	91.0 U	13.0 U	12.0 U	14.0 U	71.0 U
bromomethane	R	R	R	13.0 U	R	R	R
vinyl chloride	60.0 U	19.0 U	91.0 U	13.0 U	12.0 U	14.0 U	71.0 U
chloroethane	60.0 U	19.0 U	91.0 U	13.0 U	12.0 U	14.0 U	71.0 U
methylene chloride	93.0 U	22.0 U	130.0 U	21.0	49.0 U	26.0 U	140.0 U
acetone	720.0 U	64.0 U	290.0 U	13.0 U	160.0 U	67.0 U	270.0 U
carbon disulfide	30.0 U	9.0 U	45.0 U	6.0 U	6.0 U	7.0 U	36.0 U
1,1-dichloroethene	30.0 U	9.0 U	45.0 U	6.0 U	6.0 U	7.0 U	36.0 U
1,1-dichloroethane	30.0 U	9.0 U	45.0 U	6.0 U	6.0 U	7.0 U	36.0 U
1,2-dichloroethene (total)	30.0 U	9.0 U	45.0 U	6.0 U	6.0 U	7.0 U	36.0 U
chloroform	30.0 U	9.0 U	45.0 U	6.0 U	6.0 U	7.0 U	36.0 U
1,2-dichloroethane	30.0 U	9.0 U	45.0 U	6.0 U	6.0 U	7.0 U	36.0 U
2-butanone	60.0 U	19.0 U	91.0 U	13.0 U	12.0 U	14.0 U	71.0 U
1,1,1-trichloroethane	30.0 U	9.0 U	45.0 U	6.0 U	6.0 U	7.0 U	36.0 U
carbon tetrachloride	30.0 U	9.0 U	45.0 U	6.0 U	6.0 U	7.0 U	36.0 U
vinyl acetate	60.0 U	19.0 U	91.0 U	13.0 U	12.0 U	14.0 U	71.0 U
bromodichloromethane	30.0 U	9.0 U	45.0 U	6.0 U	6.0 U	7.0 U	36.0 U
1,2-dichloropropane	30.0 U	9.0 U	45.0 U	6.0 U	6.0 U	7.0 U	36.0 U
cis-1,3-dichloropropene	30.0 U	9.0 U	45.0 U	6.0 U	6.0 U	7.0 U	36.0 U
trichloroethene	30.0 U	9.0 U	45.0 U	6.0 U	6.0 U	7.0 U	36.0 U
dibromochloromethane	30.0 U	9.0 U	45.0 U	6.0 U	6.0 U	7.0 U	36.0 U
1,1,2-trichloroethane	30.0 U	9.0 U	45.0 U	6.0 U	6.0 U	7.0 U	36.0 U
benzene	30.0 U	9.0 U	45.0 U	6.0 U	6.0 U	7.0 U	36.0 U
trans-1,3-dichloropropene	30.0 U	9.0 U	45.0 U	6.0 U	6.0 U	7.0 U	36.0 U
bromoform	30.0 U	9.0 U	45.0 U	6.0 U	6.0 U	7.0 U	36.0 U
4-methyl-2-pentanone	60.0 U	19.0 U	91.0 U	13.0 U	12.0 U	14.0 U	71.0 U
2-hexanone	60.0 U	19.0 U	91.0 U	13.0 U	12.0 U	14.0 U	71.0 U
tetrachloroethene	30.0 U	9.0 U	45.0 U	6.0 U	6.0 U	7.0 U	36.0 U
1,1,2,2-tetrachloroethane	30.0 U	9.0 U	45.0 U	6.0 U	6.0 U	7.0 U	36.0 U
toluene	30.0 U	9.0 U	45.0 U	6.0 U	6.0 U	7.0 U	36.0 U
chlorobenzene	30.0 U	9.0 U	45.0 U	6.0 U	6.0 U	7.0 U	36.0 U
ethylbenzene	30.0 U	9.0 U	45.0 U	6.0 U	6.0 U	7.0 U	36.0 U
styrene	30.0 U	9.0 U	45.0 U	6.0 U	6.0 U	7.0 U	36.0 U
xylenes (total)	30.0 U	9.0 U	45.0 U	6.0 U	6.0 U	7.0 U	36.0 U

November 5, 1990
[file name = VOASE2]

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

VOLATILES
SURFACE WATER SEDIMENTS (SE)
(Page 2 of 3)

	SE-7-002	SE-8-001	SE-9-001	SE-10-001	SE-11-001	SE-12-001	SE-13-001
VOLATILES							
chloromethane	13.0 U	12.0 U	16.0 U	15.0 U	12.0 U	16.0 U	19.0 U
bromomethane	R	12.0 U	16.0 U	15.0 U	12.0 U	16.0 U	19.0 U
vinyl chloride	13.0 U	12.0 U	16.0 U	15.0 U	12.0 U	16.0 U	19.0 U
chloroethane	13.0 U	12.0 U	16.0 U	15.0 U	12.0 U	16.0 U	19.0 U
methylene chloride	31.0 U	13.0	11.0	7.0 J	42.0	54.0	13.0
acetone	57.0 U	12.0 U	15.0 J	15.0 U	12.0 U	62.0	360.0
carbon disulfide	7.0 U	6.0 U	R	R	6.0 U	R	R
1,1-dichloroethene	7.0 U	6.0 U	8.0 U	8.0 U	6.0 U	8.0 U	9.0 U
1,1-dichloroethane	7.0 U	6.0 U	8.0 U	8.0 U	6.0 U	8.0 U	9.0 U
1,2-dichloroethene (total)	7.0 U	6.0 U	8.0 U	8.0 U	6.0 U	8.0 U	9.0 U
chloroform	7.0 U	6.0 U	8.0 U	8.0 U	6.0 U	8.0 U	9.0 U
1,2-dichloroethane	7.0 U	6.0 U	8.0 U	8.0 U	6.0 U	8.0 U	9.0 U
2-butanone	13.0 U	12.0 U	16.0 U	15.0 U	12.0 U	16.0 U	54.0
1,1,1-trichloroethane	7.0 U	6.0 U	8.0 U	8.0 U	6.0 U	8.0 U	9.0 U
carbon tetrachloride	7.0 U	6.0 U	8.0 U	8.0 U	6.0 U	8.0 U	9.0 U
vinyl acetate	13.0 U	12.0 U	16.0 U	15.0 U	12.0 U	16.0 U	19.0 U
bromodichloromethane	7.0 U	6.0 U	8.0 U	8.0 U	6.0 U	8.0 U	9.0 U
1,2-dichloropropane	7.0 U	6.0 U	8.0 U	8.0 U	6.0 U	8.0 U	9.0 U
cis-1,3-dichloropropene	7.0 U	6.0 U	8.0 U	8.0 U	6.0 U	8.0 U	9.0 U
trichloroethene	7.0 U	6.0 U	8.0 U	8.0 U	6.0 U	8.0 U	9.0 U
dibromochloromethane	7.0 U	6.0 U	8.0 U	8.0 U	6.0 U	8.0 U	9.0 U
1,1,2-trichloroethane	7.0 U	6.0 U	8.0 U	8.0 U	6.0 U	8.0 U	9.0 U
benzene	7.0 U	6.0 U	8.0 U	8.0 U	6.0 U	8.0 U	9.0 U
trans-1,3-dichloropropene	7.0 U	6.0 U	8.0 U	8.0 U	6.0 U	8.0 U	9.0 U
bromoform	7.0 U	6.0 U	8.0 U	8.0 U	6.0 U	8.0 U	9.0 U
4-methyl-2-pentanone	13.0 U	12.0 U	16.0 U	15.0 U	12.0 U	16.0 U	19.0 U
2-hexanone	13.0 U	12.0 U	16.0 U	15.0 U	12.0 U	16.0 U	19.0 U
tetrachloroethene	7.0 U	6.0 U	8.0 U	8.0 U	6.0 U	8.0 U	9.0 U
1,1,2,2-tetrachloroethane	7.0 U	6.0 U	8.0 U	8.0 U	6.0 U	8.0 U	9.0 U
toluene	7.0 U	6.0 U	8.0 U	8.0 U	6.0 U	8.0 U	9.0 U
chlorobenzene	7.0 U	6.0 U	8.0 U	8.0 U	6.0 U	8.0 U	9.0 U
ethylbenzene	7.0 U	6.0 U	8.0 U	8.0 U	6.0 U	8.0 U	9.0 U
styrene	7.0 U	6.0 U	8.0 U	8.0 U	6.0 U	8.0 U	9.0 U
xylenes (total)	7.0 U	6.0 U	8.0 U	8.0 U	6.0 U	8.0 U	9.0 U

November 5, 1990
[file name = VOASE3]

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

VOLATILES
SURFACE WATER SEDIMENTS (SE)
(Page 3 of 3)

	SE-14-001	SE-15-001	SE-16-001	SE-17-001	SE-18-001	SE-19-001
VOLATILES						
chloromethane	13.0 U	13.0 U	17.0 U	23.0 U	13.0 UJ	16.0 UJ
bromomethane	13.0 U	13.0 U	17.0 U	23.0 U	13.0 UJ	16.0 UJ
vinyl chloride	13.0 U	13.0 U	17.0 U	23.0 U	13.0 UJ	16.0 UJ
chloroethane	13.0 U	13.0 U	17.0 U	23.0 U	13.0 UJ	16.0 UJ
methylene chloride	26.0 U	13.0	120.0	28.0 U	20.0 UJ	18.0 UJ
acetone	20.0 JC	13.0 U	34.0	240.0	24.0 J	50.0 J
carbon disulfide	7.0 U	6.0 U	8.0 U	11.0 U	7.0 UJ	8.0 UJ
1,1-dichloroethene	7.0 U	6.0 U	8.0 U	11.0 U	7.0 UJ	8.0 UJ
1,1-dichloroethane	7.0 U	6.0 U	8.0 U	11.0 U	7.0 UJ	8.0 UJ
1,2-dichloroethene (total)	7.0 U	6.0 U	8.0 U	11.0 U	7.0 UJ	8.0 UJ
chloroform	7.0 U	6.0 U	8.0 U	11.0 U	7.0 UJ	8.0 UJ
1,2-dichloroethane	7.0 U	6.0 U	8.0 U	11.0 U	7.0 UJ	8.0 UJ
2-butanone	13.0 U	13.0 U	17.0 U	23.0 U	R	R
1,1,1-trichloroethane	7.0 U	6.0 U	8.0 U	11.0 U	7.0 UJ	8.0 UJ
carbon tetrachloride	7.0 U	6.0 U	8.0 U	11.0 U	7.0 UJ	8.0 UJ
vinyl acetate	13.0 U	13.0 U	17.0 U	23.0 U	13.0 UJ	16.0 UJ
bromodichloromethane	7.0 U	6.0 U	8.0 U	11.0 U	7.0 UJ	8.0 UJ
1,2-dichloropropane	7.0 U	6.0 U	8.0 U	11.0 U	7.0 UJ	8.0 UJ
cis-1,3-dichloropropene	7.0 U	6.0 U	8.0 U	11.0 U	7.0 UJ	8.0 UJ
trichloroethene	7.0 U	6.0 U	8.0 U	11.0 U	7.0 UJ	8.0 UJ
dibromochloromethane	7.0 U	6.0 U	8.0 U	11.0 U	7.0 UJ	8.0 UJ
1,1,2-trichloroethane	7.0 U	6.0 U	8.0 U	11.0 U	7.0 UJ	8.0 UJ
benzene	7.0 U	6.0 U	8.0 U	11.0 U	7.0 UJ	8.0 UJ
trans-1,3-dichloropropene	7.0 U	6.0 U	8.0 U	11.0 U	7.0 UJ	8.0 UJ
bromoform	7.0 U	6.0 U	8.0 U	11.0 U	7.0 UJ	8.0 UJ
4-methyl-2-pentanone	13.0 U	13.0 U	17.0 U	23.0 U	13.0 UJ	16.0 UJ
2-hexanone	13.0 U	13.0 U	17.0 U	23.0 U	13.0 UJ	16.0 UJ
tetrachloroethene	7.0 U	6.0 U	8.0 U	11.0 U	7.0 UJ	8.0 UJ
1,1,2,2-tetrachloroethane	7.0 U	6.0 U	8.0 U	11.0 U	7.0 UJ	8.0 UJ
toluene	7.0 U	6.0 U	8.0 U	11.0 U	7.0 UJ	8.0 UJ
chlorobenzene	7.0 U	6.0 U	8.0 U	11.0 U	7.0 UJ	8.0 UJ
ethylbenzene	7.0 U	6.0 U	8.0 U	11.0 U	7.0 UJ	8.0 UJ
styrene	7.0 U	6.0 U	8.0 U	11.0 U	7.0 UJ	8.0 UJ
xylenes (total)	7.0 U	6.0 U	8.0 U	11.0 U	7.0 UJ	8.0 UJ

Notes: All values are in ug/kg unless noted otherwise
U Indicates element was analyzed for but not detected. The number shown is the detection limit.
J Indicates an estimated value.
B Indicates the analyte was found in the blank. Indicates possible blank contamination.
R Indicates the analyte was rejected due to failing QA/QC criteria
JC Indicates an estimated value due to calibration results.

November 5, 1990
[file name = BNASE1]

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

SEMI-VOLATILES
SURFACE WATER SEDIMENT (SE)
(Page 1 of 6)

	SE-1-001	SE-2-001	SE-3-001	SE-4-001	SE-5-001	SE-6-001	SE-7-001
SEMI-VOLATILES							
phenol	2000.0 U	1200.0 U	600.0 U	830.0 U	370.0 U	450.0 U	470.0 U
bis(2-chloroethyl)ether	2000.0 U	1200.0 U	600.0 U	830.0 U	370.0 U	450.0 U	470.0 U
2-chlorophenol	2000.0 U	1200.0 U	600.0 U	830.0 U	370.0 U	450.0 U	470.0 U
1,3-dichlorobenzene	2000.0 U	1200.0 U	600.0 U	830.0 U	370.0 U	450.0 U	470.0 U
1,4-dichlorobenzene	2000.0 U	1200.0 U	600.0 U	830.0 U	370.0 U	450.0 U	470.0 U
benzyl alcohol	2000.0 U	1200.0 U	600.0 U	830.0 U	370.0 U	450.0 U	470.0 U
1,2-dichlorobenzene	2000.0 U	1200.0 U	600.0 U	830.0 U	370.0 U	450.0 U	470.0 U
2-methylphenol	2000.0 U	1200.0 U	600.0 U	830.0 U	370.0 U	450.0 U	470.0 U
bis(2-chloroisopropyl)ether	2000.0 U	1200.0 U	600.0 U	830.0 U	370.0 U	450.0 U	470.0 U
4-methylphenol	2000.0 U	1200.0 U	600.0 U	830.0 U	370.0 U	450.0 U	470.0 U
N-nitroso-di-n-propylamine	2000.0 U	1200.0 U	600.0 U	830.0 U	370.0 U	450.0 U	470.0 U
hexachloroethane	2000.0 U	1200.0 U	600.0 U	830.0 U	370.0 U	450.0 U	470.0 U
nitrobenzene	2000.0 U	1200.0 U	600.0 U	830.0 U	370.0 U	450.0 U	470.0 U
isophorone	2000.0 U	1200.0 U	600.0 U	830.0 U	370.0 U	450.0 U	470.0 U
2-nitrophenol	2000.0 U	1200.0 U	600.0 U	830.0 U	370.0 U	450.0 U	470.0 U
2,4-dimethylphenol	2000.0 U	1200.0 U	600.0 U	830.0 U	370.0 U	450.0 U	470.0 U
benzoic acid	9600.0 U	6000.0 U	2900.0 U	4000.0 U	1800.0 U	2200.0 U	2300.0 U
bis(2-chloroethoxy)methane	2000.0 U	1200.0 U	600.0 U	830.0 U	370.0 U	450.0 U	470.0 U
2,4-dichlorophenol	2000.0 U	1200.0 U	600.0 U	830.0 U	370.0 U	450.0 U	470.0 U
1,2,4-trichlorobenzene	2000.0 U	1200.0 U	600.0 U	830.0 U	370.0 U	450.0 U	470.0 U
naphthalene	2000.0 U	1200.0 U	600.0 U	180.0 J	370.0 U	450.0 U	470.0 U
4-chloroaniline	2000.0 U	1200.0 U	600.0 U	830.0 U	370.0 U	450.0 U	470.0 U
hexachlorobutadiene	2000.0 U	1200.0 U	600.0 U	830.0 U	370.0 U	450.0 U	470.0 U
4-chloro-3-methylphenol	2000.0 U	1200.0 U	600.0 U	830.0 U	370.0 U	450.0 U	470.0 U
2-methynaphthalene	2000.0 U	1200.0 U	600.0 U	830.0 U	370.0 U	450.0 U	470.0 U
hexachlorocyclopentadiene	2000.0 U	1200.0 U	600.0 U	830.0 U	370.0 U	450.0 U	470.0 U
2,4,6-trichlorophenol	2000.0 U	1200.0 U	600.0 U	830.0 U	370.0 U	450.0 U	470.0 U
2,4,5-trichlorophenol	9600.0 U	6000.0 U	2900.0 U	4000.0 U	1800.0 U	2200.0 U	2300.0 U
2-chloronaphthalene	2000.0 U	1200.0 U	600.0 U	830.0 U	370.0 U	450.0 U	470.0 U
2-nitroaniline	9600.0 U	6000.0 U	2900.0 U	4000.0 U	1800.0 U	2200.0 U	2300.0 U
dimethyl phthalate	2000.0 U	1200.0 U	600.0 U	830.0 U	370.0 U	450.0 U	470.0 U
acenaphthylene	2000.0 U	1200.0 U	600.0 U	830.0 U	370.0 U	450.0 U	470.0 U
2,6-dinitrotoluene	2000.0 U	1200.0 U	600.0 U	830.0 U	370.0 U	450.0 U	470.0 U
3-nitroaniline	9600.0 U	6000.0 U	2900.0 U	4000.0 U	1800.0 U	2200.0 U	2300.0 U
acenaphthene	2000.0 U	1200.0 U	600.0 U	220.0 J	370.0 U	450.0 U	470.0 U
2,4-dinitrophenol	9600.0 U	6000.0 U	2900.0 U	4000.0 U	1800.0 U	2200.0 U	2300.0 U
4-nitrophenol	9600.0 U	6000.0 U	2900.0 U	4000.0 U	1800.0 U	2200.0 U	2300.0 U
dibenzofuran	2000.0 U	1200.0 U	600.0 U	260.0 J	370.0 U	450.0 U	470.0 U
2,4-dinitrotoluene	2000.0 U	1200.0 U	600.0 U	830.0 U	370.0 U	450.0 U	470.0 U
diethylphthalate	2000.0 U	1200.0 U	1300.0	830.0 U	490.0	450.0 U	8200.0 D
4-chlorophenyl-phenylether	2000.0 U	1200.0 U	600.0 U	830.0 U	370.0 U	450.0 U	470.0 U
fluorene	2000.0 U	1200.0 U	600.0 U	320.0 J	370.0 U	450.0 U	61.0 J
4-nitroaniline	9600.0 U	6000.0 U	2900.0 U	4000.0 U	1800.0 U	2200.0 U	2300.0 U
4,6-dinitro-2-methylphenol	9600.0 U	6000.0 U	2900.0 U	4000.0 U	1800.0 U	2200.0 U	2300.0 U
N-nitrosodiphenylamine (1)	2000.0 U	1200.0 U	600.0 U	830.0 U	370.0 U	450.0 U	470.0 U

November 5, 1990
[file name = BNASE1]

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

SEMI-VOLATILES
SURFACE WATER SEDIMENT (SE)
(Page 2 of 6)

	SE-1-001	SE-2-001	SE-3-001	SE-4-001	SE-5-001	SE-6-001	SE-7-001
4-bromophenyl-phenylether	2000.0 U	1200.0 U	600.0 U	830.0 U	370.0 U	450.0 U	470.0 U
hexachlorobenzene	2000.0 U	1200.0 U	600.0 U	830.0 U	370.0 U	450.0 U	470.0 U
pentachlorophenol	9600.0 U	6000.0 U	2900.0 U	4000.0 U	1800.0 U	2200.0 U	2300.0 U
phenanthrene	1800.0 J	90.0 J	260.0 J	1900.0	370.0 U	450.0 U	470.0 J
anthracene	440.0 J	1200.0 U	55.0 J	420.0 J	370.0 U	450.0 U	93.0 J
di-n-butylphthalate	2000.0 U	1200.0 U	600.0 U	830.0 U	370.0 U	450.0 U	470.0 U
fluoranthene	3100.0	150.0 J	380.0 J	1500.0	370.0 U	450.0 U	720.0
pyrene	2700.0	190.0 J	460.0 J	1400.0	370.0 U	450.0 U	890.0
butylbenzylphthalate	2000.0 U	1200.0 U	600.0 U	830.0 U	370.0 U	450.0 U	470.0 U
3,3'-dichlorobenzidine	4000.0 U	2500.0 U	1200.0 U	1700.0 U	730.0 U	890.0 U	940.0 U
benzo(a)anthracene	1500.0 J	1200.0 U	250.0 J	610.0 J	370.0 U	450.0 U	510.0
chrysene	1300.0 J	1200.0 U	240.0 J	600.0 J	370.0 U	450.0 U	360.0 J
bis(2-ethylhexyl)phthalate	780.0 J	1200.0 U	600.0 U	830.0 U	370.0 U	450.0 U	470.0 U
di-n-octylphthalate	2000.0 U	1200.0 U	600.0 U	830.0 U	370.0 U	450.0 U	470.0 U
benzo(b)fluoranthene	2900.0	1200.0 U	400.0 J	550.0 J	370.0 U	450.0 U	970.0
benzo(k)fluoranthene	2000.0 U	1200.0 U	280.0 J	690.0 J	370.0 U	450.0 U	470.0 U
benzo(a)pyrene	1300.0 J	1200.0 U	230.0 J	620.0 J	370.0 U	450.0 U	380.0 J
ideno(1,2,3-cd)pyrene	730.0 J	1200.0 U	150.0 J	390.0 J	370.0 U	450.0 U	320.0 J
dibenz(a,h)anthracene	2000.0 U	1200.0 U	600.0 U	830.0 U	370.0 U	450.0 U	470.0 U
benzo(g,h,i)perylene	580.0 J	1200.0 U	140.0 J	330.0 J	370.0 U	450.0 U	310.0 J

November 5, 1990
[file name = BNASE2]

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

SEMI-VOLATILES
SURFACE WATER SEDIMENT (SE)
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	SE-7-002	SE-8-001	SE-9-001	SE-10-001	SE-11-001	SE-12-001	SE-13-001
SEMI-VOLATILES							
phenol	440.0 U	400.0 U	1000.0 U	1000.0 U	410.0 U	2700.0 U	3100.0 U
bis(2-chloroethyl)ether	440.0 U	400.0 U	1000.0 U	1000.0 U	410.0 U	2700.0 U	3100.0 U
2-chlorophenol	440.0 U	400.0 U	1000.0 U	1000.0 U	410.0 U	2700.0 U	3100.0 U
1,3-dichlorobenzene	440.0 U	400.0 U	1000.0 U	1000.0 U	410.0 U	2700.0 U	3100.0 U
1,4-dichlorobenzene	440.0 U	400.0 U	1000.0 U	1000.0 U	410.0 U	2700.0 U	3100.0 U
benzyl alcohol	440.0 U	400.0 U	1000.0 U	1000.0 U	410.0 U	2700.0 U	3100.0 U
1,2-dichlorobenzene	440.0 U	400.0 U	1000.0 U	1000.0 U	410.0 U	2700.0 U	3100.0 U
2-methylphenol	440.0 U	400.0 U	1000.0 U	1000.0 U	410.0 U	2700.0 U	3100.0 U
bis(2-chloroisopropyl)ether	440.0 U	400.0 U	1000.0 U	1000.0 U	410.0 U	2700.0 U	3100.0 U
4-methylphenol	440.0 U	400.0 U	1000.0 U	1000.0 U	410.0 U	2700.0 U	3100.0 U
N-nitroso-di-n-propylamine	440.0 U	400.0 U	1000.0 U	1000.0 U	410.0 U	2700.0 U	3100.0 U
hexachloroethane	440.0 U	400.0 U	1000.0 U	1000.0 U	410.0 U	2700.0 U	3100.0 U
nitrobenzene	440.0 U	400.0 U	1000.0 U	1000.0 U	410.0 U	2700.0 U	3100.0 U
isophorone	440.0 U	400.0 U	1000.0 U	1000.0 U	410.0 U	2700.0 U	3100.0 U
2-nitrophenol	440.0 U	400.0 U	1000.0 U	1000.0 U	410.0 U	2700.0 U	3100.0 U
2,4-dimethylphenol	440.0 U	400.0 U	1000.0 U	1000.0 U	410.0 U	2700.0 U	3100.0 U
benzoic acid	2100.0 U	1900.0 U	5000.0 U	4800.0 U	2000.0 U	13000.0 U	15000.0 U
bis(2-chloroethoxy)methane	440.0 U	400.0 U	1000.0 U	1000.0 U	410.0 U	2700.0 U	3100.0 U
2,4-dichlorophenol	440.0 U	400.0 U	1000.0 U	1000.0 U	410.0 U	2700.0 U	3100.0 U
1,2,4-trichlorobenzene	440.0 U	400.0 U	1000.0 U	1000.0 U	410.0 U	2700.0 U	3100.0 U
naphthalene	440.0 U	400.0 U	1000.0 U	1000.0 U	410.0 U	2700.0 U	3100.0 U
4-chloroaniline	440.0 U	400.0 U	1000.0 U	1000.0 U	410.0 U	2700.0 U	3100.0 U
hexachlorobutadiene	440.0 U	400.0 U	1000.0 U	1000.0 U	410.0 U	2700.0 U	3100.0 U
4-chloro-3-methylphenol	440.0 U	400.0 U	1000.0 U	1000.0 U	410.0 U	2700.0 U	3100.0 U
2-methynaphthalene	440.0 U	400.0 U	1000.0 U	1000.0 U	410.0 U	2700.0 U	3100.0 U
hexachlorocyclopentadiene	440.0 U	400.0 U	1000.0 U	1000.0 U	410.0 U	2700.0 U	3100.0 U
2,4,6-trichlorophenol	440.0 U	400.0 U	1000.0 U	1000.0 U	410.0 U	2700.0 U	3100.0 U
2,4,5-trichlorophenol	2100.0 U	1900.0 U	5000.0 U	4800.0 U	2000.0 U	13000.0 U	15000.0 U
2-chloronaphthalene	440.0 U	400.0 U	1000.0 U	1000.0 U	410.0 U	2700.0 U	3100.0 U
2-nitroaniline	2100.0 U	1900.0 U	5000.0 U	4800.0 U	2000.0 U	13000.0 U	15000.0 U
dimethyl phthalate	440.0 U	400.0 U	1000.0 U	1000.0 U	410.0 U	2700.0 U	3100.0 U
acenaphthylene	440.0 U	400.0 U	1000.0 U	1000.0 U	410.0 U	2700.0 U	3100.0 U
2,6-dinitrotoluene	440.0 U	400.0 U	1000.0 U	1000.0 U	410.0 U	2700.0 U	3100.0 U
3-nitroaniline	2100.0 U	1900.0 U	5000.0 U	4800.0 U	2000.0 U	13000.0 U	15000.0 U
acenaphthene	440.0 U	400.0 U	1000.0 U	1000.0 U	410.0 U	2700.0 U	3100.0 U
2,4-dinitrophenol	2100.0 U	1900.0 U	5000.0 U	4800.0 U	2000.0 U	13000.0 U	15000.0 U
4-nitrophenol	2100.0 U	1900.0 U	5000.0 U	4800.0 U	2000.0 U	13000.0 U	15000.0 U
dibenzofuran	440.0 U	400.0 U	1000.0 U	1000.0 U	410.0 U	2700.0 U	3100.0 U
2,4-dinitrotoluene	440.0 U	400.0 U	1000.0 U	1000.0 U	410.0 U	2700.0 U	3100.0 U
diethylphthalate	440.0 U	400.0 U	1000.0 U	1000.0 U	410.0 U	2700.0 U	3100.0 U
4-chlorophenyl-phenylether	440.0 U	400.0 U	1000.0 U	1000.0 U	410.0 U	2700.0 U	3100.0 U
fluorene	440.0 U	400.0 U	1000.0 U	1000.0 U	410.0 U	2700.0 U	3100.0 U
4-nitroaniline	2100.0 U	1900.0 U	5000.0 U	4800.0 U	2000.0 U	13000.0 U	15000.0 U
4,6-dinitro-2-methylphenol	2100.0 U	1900.0 U	5000.0 U	4800.0 U	2000.0 U	13000.0 U	15000.0 U

November 5, 1990
[file name = BNASE2]

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

SEMI-VOLATILES
SURFACE WATER SEDIMENT (SE)
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	SE-7-002	SE-8-001	SE-9-001	SE-10-001	SE-11-001	SE-12-001	SE-13-001
N-nitrosodiphenylamine (1)	440.0 U	400.0 U	1000.0 U	1000.0 U	410.0 U	2700.0 U	3100.0 U
4-bromophenyl-phenylether	440.0 U	400.0 U	1000.0 U	1000.0 U	410.0 U	2700.0 U	3100.0 U
hexachlorobenzene	440.0 U	400.0 U	1000.0 U	1000.0 U	410.0 U	2700.0 U	3100.0 U
pentachlorophenol	2100.0 U	1900.0 U	5000.0 U	4800.0 U	2000.0 U	13000.0 U	15000.0 U
phenanthrene	440.0 U	400.0 U	1000.0 U	1000.0 U	410.0 U	2700.0 U	3100.0 U
anthracene	440.0 U	400.0 U	1000.0 U	1000.0 U	410.0 U	2700.0 U	3100.0 U
di-n-butylphthalate	440.0 U	400.0 U	1000.0 U	1000.0 U	410.0 U	2700.0 U	3100.0 U
fluoranthene	440.0 U	81.0 J	170.0 J	250.0 J	410.0 U	2700.0 U	3100.0 U
pyrene	440.0 U	91.0 J	170.0 J	240.0 J	410.0 U	2700.0 U	3100.0 U
butylbenzylphthalate	440.0 U	400.0 U	1000.0 U	1000.0 U	410.0 U	2700.0 U	3100.0 U
3,3'-dichlorobenzidine	880.0 U	800.0 U	2100.0 U	2100.0 U	820.0 U	5400.0 U	6200.0 U
benzo(a)anthracene	440.0 U	400.0 U	1000.0 U	1000.0 U	410.0 U	2700.0 U	3100.0 U
chrysene	440.0 U	400.0 U	1000.0 U	1000.0 U	410.0 U	2700.0 U	3100.0 U
bis(2-ethylhexyl)phthalate	440.0 U	400.0 U	1000.0 U	1000.0 U	410.0 U	2700.0 U	3100.0 U
di-n-octylphthalate	440.0 U	400.0 U	1000.0 U	1000.0 U	410.0 U	2700.0 U	3100.0 U
benzo(b)fluoranthene	440.0 U	73.0 J	1000.0 U	340.0 J	410.0 U	2700.0 U	3100.0 U
benzo(k)fluoranthene	440.0 U	400.0 U	1000.0 U	1000.0 U	410.0 U	2700.0 U	3100.0 U
benzo(a)pyrene	440.0 U	400.0 U	1000.0 U	160.0 J	410.0 U	2700.0 U	3100.0 U
ideno(1,2,3-cd)pyrene	440.0 U	400.0 U	1000.0 U	1000.0 U	410.0 U	2700.0 U	3100.0 U
dibenz(a,h)anthracene	440.0 U	400.0 U	1000.0 U	1000.0 U	410.0 U	2700.0 U	3100.0 U
benzo(g,h,i)perylene	440.0 U	400.0 U	1000.0 U	1000.0 U	410.0 U	2700.0 U	3100.0 U

November 5, 1990
[file name = BNASE3]

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

SEMI-VOLATILES
SURFACE WATER SEDIMENTS (SE)
(Page 5 or 6)

	SE-14-001	SE-15-001	SE-16-001	SE-17-001	SE-18-001	SE-19-001
SEMI-VOLATILES						
phenol	440.0 U	430.0 U	11000.0 U	1500.0 U	870.0 U	1000.0 U
bis(2-chloroethyl)ether	440.0 U	430.0 U	11000.0 U	1500.0 U	870.0 U	1000.0 U
2-chlorophenol	440.0 U	430.0 U	11000.0 U	1500.0 U	870.0 U	1000.0 U
1,3-dichlorobenzene	440.0 U	430.0 U	11000.0 U	1500.0 U	870.0 U	1000.0 U
1,4-dichlorobenzene	440.0 U	430.0 U	11000.0 U	1500.0 U	870.0 U	1000.0 U
benzyl alcohol	440.0 U	430.0 U	11000.0 U	1500.0 U	870.0 U	1000.0 U
1,2-dichlorobenzene	440.0 U	430.0 U	11000.0 U	1500.0 U	870.0 U	1000.0 U
2-methylphenol	440.0 U	430.0 U	11000.0 U	1500.0 U	870.0 U	1000.0 U
bis(2-chloroisopropyl)ether	440.0 U	430.0 U	11000.0 U	1500.0 U	870.0 U	1000.0 U
4-methylphenol	440.0 U	430.0 U	11000.0 U	1500.0 U	870.0 U	1000.0 U
N-nitroso-di-n-propylamine	440.0 U	430.0 U	11000.0 U	1500.0 U	870.0 U	1000.0 U
hexachloroethane	440.0 U	430.0 U	11000.0 U	1500.0 U	870.0 U	1000.0 U
nitrobenzene	440.0 U	430.0 U	11000.0 U	1500.0 U	870.0 U	1000.0 U
isophorone	440.0 U	430.0 U	11000.0 U	1500.0 U	870.0 U	1000.0 U
2-nitrophenol	440.0 U	430.0 U	11000.0 U	1500.0 U	870.0 U	1000.0 U
2,4-dimethylphenol	440.0 U	430.0 U	11000.0 U	1500.0 U	870.0 U	1000.0 U
benzoic acid	2100.0 U	160.0 J	53000.0 U	7500.0 U	4300.0 U	5200.0 U
bis(2-chloroethoxy)methane	440.0 U	430.0 U	11000.0 U	1500.0 U	870.0 U	1000.0 U
2,4-dichlorophenol	440.0 U	430.0 U	11000.0 U	1500.0 U	870.0 U	1000.0 U
1,2,4-trichlorobenzene	440.0 U	430.0 U	11000.0 U	1500.0 U	870.0 U	1000.0 U
naphthalene	440.0 U	430.0 U	11000.0 U	1500.0 U	870.0 U	1000.0 U
4-chloroaniline	440.0 U	430.0 U	11000.0 U	1500.0 U	870.0 U	1000.0 U
hexachlorobutadiene	440.0 U	430.0 U	11000.0 U	1500.0 U	870.0 U	1000.0 U
4-chloro-3-methylphenol	440.0 U	430.0 U	11000.0 U	1500.0 U	870.0 U	1000.0 U
2-methynaphthalene	440.0 U	430.0 U	11000.0 U	1500.0 U	870.0 U	1000.0 U
hexachlorocyclopentadiene	440.0 U	430.0 U	11000.0 U	1500.0 U	870.0 U	1000.0 U
2,4,6-trichlorophenol	440.0 U	430.0 U	11000.0 U	1500.0 U	870.0 U	1000.0 U
2,4,5-trichlorophenol	2100.0 U	2100.0 U	53000.0 U	7500.0 U	4300.0 U	5200.0 U
2-chloronaphthalene	440.0 U	430.0 U	11000.0 U	1500.0 U	870.0 U	1000.0 U
2-nitroaniline	2100.0 U	2100.0 U	53000.0 U	7500.0 U	4300.0 U	5200.0 U
dimethyl phthalate	440.0 U	430.0 U	11000.0 U	1500.0 U	870.0 U	1000.0 U
acenaphthylene	440.0 U	430.0 U	11000.0 U	1500.0 U	870.0 U	1000.0 U
2,6-dinitrotoluene	440.0 U	430.0 U	11000.0 U	1500.0 U	870.0 U	1000.0 U
3-nitroaniline	2100.0 U	2100.0 U	53000.0 U	7500.0 UJ	4300.0 U	5200.0 U
acenaphthene	440.0 U	430.0 U	11000.0 U	1500.0 U	870.0 U	1000.0 U
2,4-dinitrophenol	2100.0 U	2100.0 U	53000.0 U	7500.0 U	4300.0 U	5200.0 U
4-nitrophenol	2100.0 U	2100.0 U	53000.0 U	7500.0 U	4300.0 U	5200.0 U
dibenzofuran	440.0 U	430.0 U	11000.0 U	1500.0 U	870.0 U	1000.0 U
2,4-dinitrotoluene	440.0 U	430.0 U	11000.0 U	1500.0 U	870.0 U	1000.0 U
diethylphthalate	440.0 U	430.0 U	11000.0 U	1500.0 U	870.0 U	1000.0 U
4-chlorophenyl-phenylether	440.0 U	430.0 U	11000.0 U	1500.0 U	870.0 U	1000.0 U
fluorene	440.0 U	430.0 U	11000.0 U	1500.0 U	870.0 U	1000.0 U
4-nitroaniline	2100.0 U	2100.0 U	53000.0 U	7500.0 U	4300.0 U	5200.0 U
4,6-dinitro-2-methylphenol	2100.0 U	2100.0 U	53000.0 U	7500.0 UJ	4300.0 U	5200.0 U
N-nitrosodiphenylamine (1)	440.0 U	430.0 U	11000.0 U	1500.0 UJ	870.0 U	1000.0 U

November 5, 1990
[file name = BNASE3]

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

SEMI-VOLATILES
SURFACE WATER SEDIMENTS (SE)
(Page 6 or 6)

	SE-14-001	SE-15-001	SE-16-001	SE-17-001	SE-18-001	SE-19-001
4-bromophenyl-phenylether	440.0 U	430.0 U	11000.0 U	1500.0 UJ	870.0 U	1000.0 U
hexachlorobenzene	440.0 U	430.0 U	11000.0 U	1500.0 UJ	870.0 U	1000.0 U
pentachlorophenol	2100.0 U	2100.0 U	53000.0 U	R	4300.0 U	5200.0 U
phenanthrene	440.0 U	140.0 J	2900.0 J	1500.0 UJ	870.0 U	1000.0 U
anthracene	440.0 U	430.0 U	11000.0 U	1500.0 UJ	870.0 U	1000.0 U
di-n-butylphthalate	440.0 U	430.0 U	11000.0 U	1500.0 UJ	870.0 U	1000.0 U
fluoranthene	440.0 U	130.0 J	5800.0 J	1500.0 UJ	870.0 U	1000.0 U
pyrene	440.0 U	130.0 J	5400.0 J	1500.0 UJ	870.0 U	1000.0 U
butylbenzylphthalate	440.0 U	430.0 U	11000.0 U	1500.0 UJ	870.0 U	1000.0 U
3,3'-dichlorobenzidine	880.0 U	860.0 U	22000.0 U	3000.0 UJ	1700.0 U	2100.0 U
benzo(a)anthracene	440.0 U	430.0 U	2400.0 J	1500.0 UJ	870.0 U	1000.0 U
chrysene	440.0 U	430.0 U	2900.0 J	1500.0 UJ	870.0 U	1000.0 U
bis(2-ethylhexyl)phthalate	440.0 U	430.0 U	3100.0 J	1500.0 UJ	870.0 U	1000.0 U
di-n-octylphthalate	440.0 U	430.0 U	11000.0 U	1500.0 UJ	870.0 U	1000.0 U
benzo(b)fluoranthene	440.0 U	430.0 U	5700.0 J	1500.0 UJ	870.0 U	1000.0 U
benzo(k)fluoranthene	440.0 U	430.0 U	11000.0 U	1500.0 UJ	870.0 U	1000.0 U
benzo(a)pyrene	440.0 U	430.0 U	11000.0 U	1500.0 UJ	870.0 U	1000.0 U
ideno(1,2,3-cd)pyrene	440.0 U	430.0 U	11000.0 U	1500.0 UJ	870.0 U	1000.0 U
dibenz(a,h)anthracene	440.0 U	430.0 U	11000.0 U	1500.0 UJ	870.0 U	1000.0 U
benzo(g,h,i)perylene	440.0 U	430.0 U	11000.0 U	1500.0 UJ	870.0 U	1000.0 U

Notes: All values are in ug/kg unless noted otherwise
U Indicates element was analyzed for but not detected. The number shown is the detection limit.
J Indicates an estimated value.
B Indicates the analyte was found in the blank. Indicates possible blank contamination
(1) Cannot be separated from diphenylamine
D Indicates value was obtained from reanalysis of sample. Result is not estimated.

November 5, 1990
[file name = PESTSE1]

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

PESTICIDES/PCBS
SURFACE WATER SEDIMENTS (SE)
(Page 1 of 3)

	SE-1-001	SE-2-001	SE-3-001	SE-4-001	SE-5-001	SE-6-001	SE-7-001
PESTICIDES/PCBS							
alpha-BHC	9.6 U	45.0 U	15.0 U	10.0 U	9.9 U	11.0 U	R
beta-BHC	9.6 U	45.0 U	62.0	10.0 U	34.0	11.0 U	R
delta-BHC	9.6 U	45.0 U	15.0 U	10.0 U	9.9 U	11.0 U	R
gamma-BHC (Lindane)	9.6 U	45.0 U	15.0 U	10.0 U	9.9 U	11.0 U	R
heptachlor	9.6 U	45.0 U	15.0 U	10.0 U	9.9 U	11.0 U	11.0 U
aldrin	9.6 U	45.0 U	15.0 U	10.0 U	9.9 U	11.0 U	11.0 U
heptachlor epoxide	9.6 U	45.0 U	15.0 U	10.0 U	9.9 U	11.0 U	11.0 U
endosulfan I	9.6 U	45.0 U	15.0 U	10.0 U	9.9 U	11.0 U	11.0 U
dieldrin	19.0 U	91.0 U	29.0 U	20.0 U	20.0 U	22.0 U	23.0 U
4,4'-DDE	19.0 U	91.0 U	29.0 U	R	20.0 U	22.0 U	23.0 U
endrin	19.0 U	91.0 U	29.0 U	20.0 U	20.0 U	22.0 U	23.0 U
endosulfan II	19.0 U	91.0 U	29.0 U	20.0 U	20.0 U	22.0 U	23.0 U
4,4'-DDD	19.0 U	91.0 U	29.0 U	R	20.0 U	22.0 U	23.0 U
endosulfan sulfate	19.0 U	91.0 U	29.0 U	20.0 U	20.0 U	22.0 U	23.0 U
4,4'DDT	19.0 U	91.0 U	29.0 U	R	20.0 U	22.0 U	23.0 U
methoxychlor	96.0 U	450.0 U	150.0 U	100.0 U	99.0 U	110.0 U	110.0 U
endrin keytone	19.0 U	91.0 U	29.0 U	20.0 U	20.0 U	22.0 U	23.0 U
alpha-chlordane	96.0 U	450.0 U	150.0 U	100.0 U	99.0 U	110.0 U	110.0 U
gamma-chlordane	96.0 U	450.0 U	150.0 U	5.3 J	99.0 U	110.0 U	110.0 U
toxaphene	190.0 U	910.0 U	290.0 U	200.0 U	200.0 U	220.0 U	230.0 U
aroclor-1016	96.0 U	450.0 U	150.0 U	100.0 U	99.0 U	110.0 U	110.0 U
aroclor-1221	96.0 U	450.0 U	150.0 U	100.0 U	99.0 U	110.0 U	110.0 U
aroclor-1232	96.0 U	450.0 U	150.0 U	100.0 U	99.0 U	110.0 U	110.0 U
aroclor-1242	96.0 U	450.0 U	150.0 U	100.0 U	99.0 U	110.0 U	110.0 U
aroclor-1248	96.0 U	450.0 U	150.0 U	100.0 U	99.0 U	110.0 U	110.0 U
aroclor-1254	190.0 U	910.0 U	290.0 U	200.0 U	200.0 U	220.0 U	230.0 U
aroclor-1260	190.0 U	910.0 U	290.0 U	200.0 U	200.0 U	220.0 U	230.0 U

November 5, 1990
[file name = PESTSE2]

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

PESTICIDES/PCBS
SURFACE WATER SEDIMENTS (SE)
(Page 2 of 3)

	SE-7-002	SE-8-001	SE-9-001	SE-10-001	SE-11-001	SE-12-001	SE-13-001
PESTICIDES/PCBS							
alpha-BHC	11.0 U	R	12.0 U	12.0 U	9.9 U	13.0 UJM	15.0 UJM
beta-BHC	19.0	R	12.0 U	12.0 U	9.9 U	13.0 UJM	15.0 UJM
delta-BHC	11.0 U	R	12.0 U	12.0 U	9.9 U	13.0 UJM	15.0 UJM
gamma-BHC (Lindane)	11.0 U	R	12.0 U	12.0 U	9.9 U	13.0 UJM	15.0 UJM
heptachlor	11.0 U	R	12.0 U	12.0 U	9.9 U	13.0 UJM	15.0 UJM
aldrin	11.0 U	R	12.0 U	12.0 U	9.9 U	13.0 UJM	15.0 UJM
heptachlor epoxide	11.0 U	R	12.0 U	12.0 U	9.9 U	13.0 UJM	15.0 UJM
endosulfan I	11.0 U	R	12.0 U	12.0 U	9.9 U	13.0 UJM	15.0 UJM
dieldrin	21.0 U	R	25.0 U	24.0 U	20.0 U	26.0 UJM	30.0 UJM
4,4'-DDE	21.0 U	R	R	R	R	26.0 UJM	30.0 UJM
endrin	21.0 U	R	25.0 U	24.0 U	20.0 U	26.0 UJM	30.0 UJM
endosulfan II	21.0 U	R	25.0 U	24.0 U	20.0 U	26.0 UJM	30.0 UJM
4,4'-DDD	21.0 U	R	R	R	R	26.0 UJM	30.0 UJM
endosulfan sulfate	21.0 U	R	25.0 U	24.0 U	20.0 U	26.0 UJM	30.0 UJM
4,4'DDT	21.0 U	R	R	R	R	26.0 UJM	30.0 UJM
methoxychlor	110.0 U	R	120.0 U	120.0 U	99.0 U	130.0 UJM	150.0 UJM
endrin keytone	21.0 U	R	25.0 U	24.0 U	20.0 U	26.0 UJM	30.0 UJM
alpha-chlordane	110.0 U	R	120.0 U	120.0 U	99.0 U	130.0 UJM	150.0 UJM
gamma-chlordane	110.0 U	R	120.0 U	120.0 U	99.0 U	130.0 UJM	150.0 UJM
toxaphene	210.0 U	R	250.0 U	240.0 U	200.0 U	260.0 UJM	300.0 UJM
aroclor-1016	110.0 U	R	120.0 U	120.0 U	99.0 U	130.0 UJM	150.0 UJM
aroclor-1221	110.0 U	R	120.0 U	120.0 U	99.0 U	130.0 UJM	150.0 UJM
aroclor-1232	110.0 U	R	120.0 U	120.0 U	99.0 U	130.0 UJM	150.0 UJM
aroclor-1242	110.0 U	R	120.0 U	120.0 U	99.0 U	130.0 UJM	150.0 UJM
aroclor-1248	110.0 U	R	120.0 U	120.0 U	99.0 U	130.0 UJM	150.0 UJM
aroclor-1254	210.0 U	R	250.0 U	240.0 U	200.0 U	260.0 UJM	300.0 UJM
aroclor-1260	210.0 U	R	250.0 U	240.0 U	200.0 U	260.0 UJM	300.0 UJM

November 5, 1990
[file name = PESTSE3]

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

PESTICIDES/PCBS
SURFACE WATER SEDIMENTS (SE)
(Page 3 of 3)

	SE-14-001	SE-15-001	SE-16-001	SE-17-001	SE-18-001	SE-19-001
PESTICIDES/PCBS						
alpha-BHC	11.0 U	10.0 U	67.0 U	18.0 U	11.0 U R	13.0 U
beta-BHC	13.0	10.0 U	67.0 U	18.0 U	11.0 U	13.0 U
delta-BHC	11.0 U	10.0 U	67.0 U	18.0 U	11.0 U	13.0 U
gamma-BHC (Lindane)	11.0 U	10.0 U	67.0 U	18.0 U	11.0 U R	13.0 U
heptachlor	11.0 U	10.0 U	67.0 U	18.0 U	11.0 U R	13.0 U
aldrin	11.0 U	10.0 U	67.0 U	18.0 U	11.0 U R	13.0 U
heptachlor epoxide	11.0 U	10.0 U	67.0 U	18.0 U	11.0 U	13.0 U
endosulfan I	11.0 U	10.0 U	67.0 U	18.0 U	11.0 U	13.0 U
dieldrin	21.0 U	21.0 U	130.0 U	36.0 U	21.0 U	25.0 U
4,4'-DDE	21.0 U	R	130.0 U	36.0 U	21.0 U	25.0 U
endrin	21.0 U	21.0 U	130.0 U	R	21.0 U	25.0 U
endosulfan II	21.0 U	21.0 U	130.0 U	R	21.0 U	25.0 U
4,4'-DDD	21.0 U	R	130.0 U	R	21.0 U	25.0 U
endosulfan sulfate	21.0 U	21.0 U	130.0 U	36.0 U	21.0 U	25.0 U
4,4'DDT	21.0 U	R	130.0 U	520.0 J	21.0 U	25.0 U
methoxychlor	110.0 U	100.0 U	670.0 U	180.0 U	110.0 U	130.0 U
endrin keytone	21.0 U	21.0 U	130.0 U	36.0 U	21.0 U	25.0 U
alpha-chlordane	110.0 U	100.0 U	670.0 U	180.0 U	110.0 U	130.0 U
gamma-chlordane	110.0 U	100.0 U	670.0 U	180.0 U	110.0 U	130.0 U
toxaphene	210.0 U	210.0 U	1300.0 U	360.0 U	210.0 U	250.0 U
aroclor-1016	110.0 U	100.0 U	670.0 U	180.0 U	110.0 U	130.0 U
aroclor-1221	110.0 U	100.0 U	670.0 U	180.0 U	110.0 U	130.0 U
aroclor-1232	110.0 U	100.0 U	670.0 U	180.0 U	110.0 U	130.0 U
aroclor-1242	110.0 U	100.0 U	670.0 U	180.0 U	110.0 U	130.0 U
aroclor-1248	110.0 U	100.0 U	670.0 U	180.0 U	110.0 U	130.0 U
aroclor-1254	210.0 U	210.0 U	1300.0 U	360.0 U	210.0 U	250.0 U
aroclor-1260	210.0 U	210.0 U	1300.0 U	360.0 U	210.0 U	250.0 U

Notes: All values are in ug/kg unless noted otherwise
U Indicates element was analyzed for but not detected. The number shown is the detection limit.
J Indicates an estimated value.
JM Indicates an estimated value due to surrogate spike recovery out of control.
R Indicates the analyte was rejected due to failing QA/QC criteria

November 5, 1990
[file name = INORGSE1]

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

INORGANICS
SURFACE WATER SEDIMENTS (SE)
(Page 1 of 3)

	SE-1-001	SE-2-001	SE-3-001	SE-4-001	SE-5-001	SE-6-001	SE-7-001	SE-8-001
INORGANICS								
aluminum	5470.0 JQ	19200.0 JQ	20600.0 JQ	9100.0	12200.0 JQ	5580.0 JQ	12300.0 JQ	5120.0
antimony	8.2 JS	14.9 JS	15.1 JS	9.3 UJS	9.0 JS	9.7 JS	14.0 JS	8.3 UJS
arsenic	2.2 B	2.8 B	7.9	3.8 JS	3.6	3.4	7.6	2.6 JS
barium	54.8 JQ	133.0 JQ	161.0 JQ	92.0 JD	82.7 JQ	46.9 BJQ	280.0 JQ	21.9 BJD
beryllium	0.4 B	0.89 B	0.85 B	0.43 B	0.36 B	0.38 B	0.83 B	0.33 B
cadmium	1.4	2.0 B	5.4	2.5	0.9 U	2.2	4.7	1.3
calcium	67400.0 JQ	5380.0 JQ	45900.0 JQ	57600.0	75700.0 JQ	62100.0 JQ	40200.0 JQ	6480.0
chromium	13.2	27.4	41.2	15.0	18.1	13.1	27.7	9.3
cobalt	4.1 B	10.3 B	7.6 B	7.9 B	9.1 B	3.4 B	9.1 B	4.7 B
copper	27.8 JQ	25.6 JQ	52.2 JQ	32.1 JQSD	19.5 JQ	27.1 JQ	63.2 JQ	15.5 JQSD
iron	10800.0 JQ	24100.0 JQ	18800.0 JQ	17800.0	20000.0 JQ	10200.0 JQ	37200.0 JQ	12600.0
lead	131.0	42.6	1180.0	50.5 JD	11.5	64.6	177.0	14.8 JD
magnesium	14900.0 JQ	4970.0 JQ	7100.0 JQ	19600.0	26100.0 JQ	27500.0 JQ	8760.0 JQ	2820.0
manganese	313.0 JQ	301.0 JQ	305.0 JQ	503.0 JS	522.0 JQ	444.0 JQ	1100.0 JQ	311.0 JS
mercury	0.12 U	0.21 U	0.43	0.13 UJS	0.13 U	0.21	0.4	0.18 JS
nickel	11.2	32.2	25.6	17.9	21.9	11.7	28.5	14.9
potassium	1060.0 B	1640.0 B	1420.0 B	1710.0	2830.0	862.0 B	1330.0 B	456.0 B
selenium	0.56 U	1.0 U	1.0 U	0.64 U	0.62 U	0.67 U	0.96 U	0.57 U
silver	0.73 U	1.3 U	1.3 U	0.83 U	0.8 U	0.86 U	1.2 U	0.74 U
sodium	462.0 B	382.0 B	623.0 B	299.0 BJQ	246.0 B	1510.0	480.0 B	144.0 BJQ
thallium	0.59 U	1.1 U	1.1 U	0.67 U	0.64 U	0.7 U	1.0 U	0.6 U
vanadium	11.5 B	33.4	31.2	18.0	22.1	10.9 B	22.9	13.1
zinc	165.0 JQ	139.0 JQ	362.0 JQ	112.0 JS	79.6 JQ	103.0 JQ	299.0 JQ	61.2 JS
cyanide	1.2 U	2.1 U	2.2 U	1.3 UJD	1.3 U	1.4 U	1.5 B	1.2 UJD

November 5, 1990
[file name = INORGSE2]

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

INORGANICS
SURFACE WATER SEDIMENTS (SE)
(Page 2 of 3)

	SE-9-001	SE-10-001	SE-11-001	SE-12-001	SE-13-001	SE-14-001	SE-15-001	SE-16-001
INORGANICS								
aluminum	10800.0	11000.0	6340.0	4670.0	11200.0	7030.0 JQ	11800.0	9160.0
antimony	10.3 UJS	10.9 UJS	8.9 UJS	13.1 UJS	18.8 UJS	8.7 JS	11.5 UJS	9.0 UJS
arsenic	3.8 JS	4.6 JS	1.8 BJS	3.2 B	5.9	3.5	7.2 JS	3.1 JS
barium	154.0 JD	139.0 JD	43.3 BJD	51.0 B	117.0	47.0 BJQ	124.0 JD	152.0 JD
beryllium	0.4 B	0.43 B	0.35 B	0.24 B	0.44 B	0.46 B	0.53 B	0.41 B
cadmium	3.0	2.1	1.3	1.3 U	4.7	2.3	6.2	2.9
calcium	13100.0	5230.0	4850.0	56000.0	66000.0	13100.0 JQ	98300.0	15300.0
chromium	8.4	13.1	10.2	8.3	18.6	10.0	49.1	14.0
cobalt	1.8 B	4.1 B	4.6 B	4.4 B	7.0 B	4.6 B	6.6 B	5.3 B
copper	11.4 JQSD	15.2 JQSD	10.7 JQSD	13.3	26.1	11.5 JQ	107.0 JQSD	22.6 JQSD
iron	10600.0	15700.0	14000.0	8870.0	19800.0	10000.0 JQ	25700.0	17800.0
lead	27.2 JD	36.4 JD	10.2 JD	17.7	73.6	12.7	915.0 JD	37.4 JD
magnesium	1470.0 B	2440.0	2190.0	15500.0	16500.0	5330.0 JQ	12100.0	4210.0
manganese	327.0 JS	175.0 JS	129.0 JS	295.0	438.0	133.0 JQ	635.0 JS	263.0 JS
mercury	0.22 JS	0.23 JS	0.13 UJS	0.19 U	0.27 U	0.13 U	0.41 JS	0.13 UJS
nickel	5.7 B	11.3 B	9.9 B	9.3 B	20.3 B	12.8	30.3	12.7
potassium	368.0 B	532.0 B	409.0 B	995.0 B	1810.0 B	639.0 B	1400.0 B	1040.0 B
selenium	0.85 B	0.75 U	0.61 U	0.9 UJS	1.3 UJS	0.6 U	4.0 U	0.62 U
silver	0.91 U	0.97 U	0.79 U	1.2 U	1.7 U	0.78 U	1.0 U	0.80 U
sodium	201.0 BJQ	366.0 BJQ	177.0 BJQ	287.0 BJQ	585.0 BJQ	545.0 B	3770.0 JQ	251.0 BJQ
thallium	0.74 U	0.79 U	0.64 U	0.64 U	0.92 U	0.63 U	0.83 U	0.65 U
vanadium	19.5	19.7	20.4	10.6 B	22.8 B	14.6	29.8	18.1
zinc	48.4 JS	114.0 JS	55.2 JS	58.2	145.0	45.0 JQ	910.0 JS	137.0 JS
cyanide	1.5 UJD	1.6 UJD	1.3 UJD	R	R	1.3 U	10.0 JD	1.3 UJD

November 5, 1990
[file name = INORGSE3]

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

INORGANICS
SURFACE WATER SEDIMENTS (SE)
(Page 3 of 3)

	SE-17-001	SE-18-001	SE-19-001
INORGANICS			
aluminum	10800.0	9010.0 J	8750.0 J
antimony	18.2 UJ	6.9 U	7.3 U
arsenic	5.7 J	2.2 BJ	2.6 BJ
barium	171.0	74.7 J	50.8 BJ
beryllium	0.36 U	0.54 BJ	0.57 BJ
cadmium	2.6	0.33 BJ	0.3 U
calcium	27200.0	6660.0 J	14000.0 J
chromium	35.6	14.0 J	12.4 J
cobalt	14.2 B	5.7 BJ	4.8 BJ
copper	68.2	2160.0 J	20.8 J
iron	28000.0	14500.0 J	13000.0 J
lead	462.0	16.5 J	36.7 J
magnesium	14200.0	3670.0 J	5690.0 J
manganese	284.0	183.0 J	131.0 J
mercury	0.57	0.18 J	0.25 J
nickel	76.4	14.2 J	18.7 J
potassium	1230.0 B	1210.0 B	1180.0 B
selenium	0.93 BJ	0.58 U	0.61 U
silver	1.10 U	0.58 U	0.61 U
sodium	315.0 BJ	130.00 B	144.0 B
thallium	0.36 U	0.29 U	0.30 U
vanadium	24.1	14.5 J	16.0 J
zinc	315.0	144.0 J	96.9 J
cyanide	1.1	0.72 U	0.76 U

Notes: All values are in mg/kg unless noted otherwise
U Indicates element was analyzed for but not detected. The number shown is the detection limit.
J Indicates an estimated value.
JS Indicates analyte value is estimated due to % recovery exceeding QA/QC criteria for matrix spike
JQ Indicates analyte value is estimated due to % recovery exceeding QA/QC criteria for serial dilution
JD Indicates the analyte value is estimated due to % recovery exceeding QA/QC criteria for serial dilution.
B Indicates the analyte value is between the contract required detection limit (CRDL) and the instrument detection limit (IDL).
R Indicates the analyte was rejected due to failing QA/QC criteria

APPENDIX K

Concentration Dot Plots for the following contaminants can be found in Volume III part 1 and 2 of the Remedial Investigation Report.

Organics

- Aromatics
- Phenols
- Polycyclic Aromatic Hydrocarbons
- Halogenated hydrocarbons
- Ketones
- Furans
- Phthalates
- Pesticides
- Nitrogen Compounds
- Polychlorinated Biphenyls

Inorganics

- Aluminum
- Arsenic
- Antimony
- Barium
- Beryllium
- Cadmium
- Calcium
- Chromium
- Cobalt
- Copper
- Iron
- Lead
- Magnesium
- Manganese
- Mercury
- Nickel
- Potassium
- Selenium
- Silver
- Sodium
- Thallium
- Vanadium
- Zinc
- Cyanide

(PBLF4/14)

APPENDIX L

1/4/91 pfholeo2
[filename = aonorg]

TABLE 4-5

AREA A - ONSITE

CONCENTRATION RANGES DETECTED FOR EACH GROUP OF ORGANIC CONTAMINANTS IN VARIOUS SAMPLE MEDIA
PFOHL BROTHERS LANDFILL

CONTAMINANT	WASTE	SUB SOIL	SHALLOW GROUND WATER	DEEP GROUND WATER	SURFACE WATER	SURFACE WATER SEDIMENTS	LEACHATE SEEPS	LEACHATE SEEP SEDIMENTS
Phthalates		3,000	5 - 202			780 - 1300		
Nitrogen Compounds		190						
Phenols								
Polycyclic Aromatic Hydrocarbons		620 - 5,787				2,845 - 15,350		
PCBS								
Pesticides						13 - 62		
Halogenated Hydrocarbons		5 - 18	31.6					
Ketones								
Furans								
Aromatics								

Note: Quantities are in ppb

1/4/91 pfholeo2
[filename = aoninor]

TABLE 4-5

AREA A - ONSITE

CONCENTRATION RANGES FOR EACH INORGANIC CONSTITUENT DETECTED IN VARIOUS SAMPLE MEDIA
PFOHL BROTHERS LANDFILL

CONTAMINANT	WASTE	SUB SOIL	SHALLOW GROUND WATER	DEEP GROUND WATER	SURFACE WATER	SURFACE WATER SEDIMENTS	LEACHATE SEEPS	LEACHATE SEEP SEDIMENTS
Al		5,940 - 10,800	0.606 - 3.96		0.164	20,600		
Sb		13.4 - 20.3				15.1		
As		3.1 - 3.8				7.9		
Ba		37 - 93.5				161		
Be		0.39 - 0.44				0.85		
Cd						5.4		
Ca		43,200 - 121,000	124 - 345		115			
Cr		9.6 - 16	0.196			41.2		
Co		4.3 - 8.0	0.0045			7.6		
Cu		16.5 - 21.3			0.0114	52.2		
Fe		11,600 - 18,700	1.27 - 5.65		0.465 - 0.507	18,800		
Pb		16.9 - 49.1			0.0125	1,180		
Mg		15,500 - 60,000	62.9 - 203					
Mn		382 - 667	0.520 - 1.130					
Hg		0.31 - 0.71	0.0032			0.43		
Ni		10.4 - 17.4	0.113 - 0.180			25.6		
K		1,200 - 2,190	3.1		3.30	1,420		
Se								
Ag								
Na		164 - 263	287		135 - 308	623		
Tl								
Vn		14.3 - 21.6	0.0061 - 0.0081			31.2		
Zn		68 - 97.2			0.0986	362		
CN								

Note: Quantities are in ppm

1/4/91 pfholeo2
[filename = aofforg]

TABLE 4-5

AREA A - OFFSITE

CONCENTRATION RANGES DETECTED FOR EACH GROUP OF ORGANIC CONTAMINANTS IN VARIOUS SAMPLE MEDIA
PFOHL BROTHERS LANDFILL

CONTAMINANT	WASTE	SUB SOIL	SHALLOW GROUND WATER	DEEP GROUND WATER	SURFACE WATER	SURFACE WATER SEDIMENTS	LEACHATE SEEPS	LEACHATE SEEP SEDIMENTS
Phthalates		470	25	3				
Nitrogen Compounds		190						
Phenols								
Polycyclic Aromatic Hydrocarbons		1,298						
PCBS								
Pesticides								
Halogenated Hydrocarbons								
Ketones								
Furans								
Aromatics								

Note: Quantities are in ppb

1/4/91 pfholeo2
[filename = aoffino1]

TABLE 4-5

AREA A - OFFSITE

CONCENTRATION RANGES FOR EACH INORGANIC CONSTITUENT DETECTED IN VARIOUS SAMPLE MEDIA
PFOHL BROTHERS LANDFILL

CONTAMINANT	WASTE	SUB SOIL	SHALLOW GROUND WATER	DEEP GROUND WATER	SURFACE WATER	SURFACE WATER SEDIMENTS	LEACHATE SEEPS	LEACHATE SEEP SEDIMENTS
Al		6,000	0.227	0.326				
Sb				0.0304				
As		3.5						
Ba		34.9						
Be								
Cd								
Ca		57,900	116	118				
Cr		7.8		0.191				
Co								
Cu		18.9						
Fe		10,500	2.14	1.20	0.507			
Pb		30.7						
Mg		25,100	35.6					
Mn		414	1.67					
Hg								
Ni		8		0.033				
K		981	3.35	5.11				
Se								
Ag								
Na		205	130	127				
Tl								
Vn		16.1						
Zn		73.6						
CN								

Note: Quantities are in ppm

1/4/91 pfholeo2
[filename = bonorg]

TABLE 4-5

AREA B - ONSITE

CONCENTRATION RANGES DETECTED FOR EACH GROUP OF ORGANIC CONTAMINANTS IN VARIOUS SAMPLE MEDIA
PFOHL BROTHERS LANDFILL

CONTAMINANT	WASTE	SUB SOIL	SHALLOW GROUND WATER	DEEP GROUND WATER	SURFACE WATER	SURFACE WATER SEDIMENTS	LEACHATE SEEPS	LEACHATE SEEP SEDIMENTS
Phthalates	129 - 14,900	120 - 219,000	3 - 26	12		8,200	9 - 13	180 - 990
Nitrogen Compounds	5,900	1,800					5 - 9	
Phenols	9,000 - 4,500,000	146,000 - 251,000	959				7 - 10	
Polycyclic Aromatic Hydrocarbons	150 - 1,854,000	3 - 250,000				5,184	2 - 39	530 - 69,200
PCBS	7,500	3,700 - 8,700	110					4,000 - 7,700
Pesticides	110 - 14,000	41.7 - 1,014	320	0.05		19	0.007 - 0.06	16 - 92
Halogenated Hydrocarbons	3,259 - 92,000	31 - 86,144,000	21,040	17	4			
Ketones		26 - 360						
Furans	18 - 49,000,000	150 - 1,900,000	15				20 - 63	2,400 - 13,000
Aromatics	148 - 340,000	8 - 424,000	12,257				4 - 22	10

Note: Quantities are in ppb

1/4/91 pfholeo2
[filename = boninor]

TABLE 4-5

AREA B - ONSITE

CONCENTRATION RANGES FOR EACH INORGANIC CONSTITUENT DETECTED IN VARIOUS SAMPLE MEDIA
PFOHL BROTHERS LANDFILL

CONTAMINANT	WASTE	SUB SOIL	SHALLOW GROUND WATER	DEEP GROUND WATER	SURFACE WATER	SURFACE WATER SEDIMENTS	LEACHATE SEEPS	LEACHATE SEEP SEDIMENTS
Al		4,860 - 108,000	0.323 - 51.6	1.63	0.121	12,300	0.101 - 303	
Sb	39.2		0.033			9.7 - 14		
As	0.44 - 54.5	3.1 - 575				7.6	0.0035 - 0.0167	13.2 - 19.5
Ba	0.57 - 2,820	39.7 - 12,500	1.22 - 1.84			280	0.112 - 10	119 - 2,220
Be	0.17 - 1.8	0.33 - 2.3			0.00046	0.83	0.0148	0.46 - 0.59
Cd	1.3 - 5.1	1.3 - 39.4				4.7	0.0049 - 0.122	2.2 - 18.5
Ca	42.4 - 216,000	36,000 - 78,200	164 - 463	125	178 - 179		151 - 603	7,900 - 222,000
Cr	1 - 537	8.3 - 18,100	0.0997			27.7	0.0524 - 0.426	16.2 - 38.2
Co	1.7 - 23.2	4.1 - 74.7	0.0469		0.003	9.1	0.0034 - 0.157	7 - 17.8
Cu	1.9 - 29,400	16.9 - 1,650	3.06		0.0087 - 0.02	163.2	0.0139 - 0.784	71 - 270
Fe	162 - 465,000	8,080 - 489,000	26.3 - 178	2.41	0.439 - 0.522	37,200	44 - 494	21,200 - 317,000
Pb	0.54 - 3,180	12.6 - 36,200	0.0391 - 0.331			177	0.0501 - 1.640	
Mg	9.3 - 28,900	3,780 - 48,300	52.5 - 140		33.2 - 36.9	27,500	43.6 - 165	2,470 - 12,200
Mn	4.6 - 4,490	198 - 4,430	0.316 - 2.710			444 - 1,100	0.648 - 16.1	238 - 1,760
Hg	0.25 - 3.7	0.14 - 4.4	3.3			0.21 - 0.4	0.0021 - 0.0047	0.18 - 1.2
Ni	7.3 - 359	9.5 - 565	0.141	0.0264		28.5	0.0204 - 0.521	16.5 - 125
K	82.2 - 33,000	640 - 5,210	21.0 - 83.5	8.2	15 - 15.5	1,330	11.3 - 54.2	1,100 - 1,450
Se	0.52 - 3	0.6 - 28						0.67 - 5.3
Ag	1.3 - 13.5	0.92 - 11.2						1.8 - 4.8
Na	22.4 - 19,500	184 - 8,320	97.5		66.3 - 113	1,510	209	241 - 519
Tl		1.2						
Vn	1.7 - 106	16.4 - 43.1	0.0028 - 0.0965	0.0353		22.9	0.0037 - 0.471	25.9 - 26.4
Zn	7.1 - 8,440	70.2 - 35,300				299	0.263 - 8.27	510 - 2,770
CN	1.4 - 2.8	0.74 - 33.4				1.5		1.5 - 8

Note: Quantities are in ppm

1/4/91 piholeo2
[filenam = bofforg]

TABLE 4-5

AREA B - OFFSITE

CONCENTRATION RANGES DETECTED FOR EACH GROUP OF ORGANIC CONTAMINANTS IN VARIOUS SAMPLE MEDIA
PFOHL BROTHERS LANDFILL

CONTAMINANT	WASTE	SUB SOIL	SHALLOW GROUND WATER	DEEP GROUND WATER	SURFACE WATER	SURFACE WATER SEDIMENTS	LEACHATE SEEPS	LEACHATE SEEP SEDIMENTS
Phthalates		140 - 1,500	3 - 66	3 - 24				
Nitrogen Compounds								
Phenols								
Polycyclic Aromatic Hydrocarbons						340 - 990		
PCBS								
Pesticides								
Halogenated Hydrocarbons								
Ketones		29						
Furans								
Aromatics		1 - 3	67	26				

Note: Quantities are in ppb

1/4/91 pfholeo2
[filename = boffinor]

TABLE 4-5

AREA B - OFFSITE

CONCENTRATION RANGES FOR EACH INORGANIC CONSTITUENT DETECTED IN VARIOUS SAMPLE MEDIA
PFOHL BROTHERS LANDFILL

CONTAMINANT	WASTE	SUB SOIL	SHALLOW GROUND WATER	DEEP GROUND WATER	SURFACE WATER	SURFACE WATER SEDIMENTS	LEACHATE SEEPS	LEACHATE SEEP SEDIMENTS
Al		9,770 - 13,100	1.050 - 4.460	0.316	0.383	10,800 - 11,000		
Sb				0.0351				
As		3.3 - 4.9				3.8 - 4.6		
Ba		38.8 - 94.7		0.0388		139 - 154		
Be		0.17 - 0.59						
Cd					0.0073 - 0.0092	3		
Ca		65,400 - 78,300	257	121	114			
Cr		10.6 - 16.3		0.131 - 0.728				
Co		4.3 - 11.1	0.0041	0.0071				
Cu		16.2 - 17.6			0.0094 - 0.0129			
Fe		15,800 - 21,400	1.720 - 9.120	2.26 - 4.51	0.672 - 1.310	15,700		
Pb		11.9 - 20.8			0.0109 - 0.0126		0.67	
Mg		23,400 - 31,900	46.6 - 56.5		32.1			
Mn		323 - 520	0.591 - 1.62	0.428	0.427	327		
Hg		0.17 - 0.22			0.00025 - 0.0003	0.22 - 0.23		
Ni		10.3 - 22.3	0.0137 - 0.0342	0.0174 - 0.198				
K		801 - 3,010	2.05 - 3.89	3.11 - 15.6	4.33 - 22.7			
Se		0.85						
Ag								
Na		155 - 239	86	85.8	144			
Tl								
Vn		19.3 - 25.2	0.0041 - 0.0084	0.0068	0.003	19.5 - 19.7		
Zn		64 - 92.6			0.0633			
CN								

Note: Quantities are in ppm

1/4/91 pfholeo2
[filename = aeroorg]

TABLE 4-5

AERO LAKE

CONCENTRATION RANGES DETECTED FOR EACH GROUP OF ORGANIC CONTAMINANTS IN VARIOUS SAMPLE MEDIA
PFOHL BROTHERS LANDFILL

CONTAMINANT	WASTE	SUB SOIL	SHALLOW GROUND WATER	DEEP GROUND WATER	SURFACE WATER	SURFACE WATER SEDIMENTS	LEACHATE SEEPS	LEACHATE SEEP SEDIMENTS
Phthalates					22			
Nitrogen Compounds								
Phenols								
Polycyclic Aromatic Hydrocarbons								
PCBS								
Pesticides								
Halogenated Hydrocarbons								
Ketones						54		
Furans								
Aromatics								

Note: Quantities are in ppb

1/4/91 pfholeo2
[filename = aeroinor]

TABLE 4-5

AERO LAKE

CONCENTRATION RANGES FOR EACH INORGANIC CONSTITUENT DETECTED IN VARIOUS SAMPLE MEDIA
PFOHL BROTHERS LANDFILL

CONTAMINANT	WASTE	SUB SOIL	SHALLOW GROUND WATER	DEEP GROUND WATER	SURFACE WATER	SURFACE WATER SEDIMENTS	LEACHATE SEEPS	LEACHATE SEEP SEDIMENTS
Al						11,200		
Sb								
As						5.9		
Ba						117		
Be								
Cd					0.006	4.7		
Ca								
Cr						18.6		
Co						7		
Cu								
Fe						14,000 - 19,800		
Pb								
Mg						15,500 - 16,500		
Mn						438		
Hg					0.00025 - 0.00048			
Ni						20.3		
K					3.54 - 4.09	1,810		
Se								
Ag								
Na					132 - 138	585		
Tl								
Vn						20.4 - 22.8		
Zn								
CN								

Note: Quantities are in ppm

1/4/91 pfholeo2
[filename = conorg]

TABLE 4-5

AREA C - ONSITE

CONCENTRATION RANGES DETECTED FOR EACH GROUP OF ORGANIC CONTAMINANTS IN VARIOUS SAMPLE MEDIA
PFOHL BROTHERS LANDFILL

CONTAMINANT	WASTE	SUB SOIL	SHALLOW GROUND WATER	DEEP GROUND WATER	SURFACE WATER	SURFACE WATER SEDIMENTS	LEACHATE SEEPS	LEACHATE SEEP SEDIMENTS
Phthalates	4 - 28,000	61 - 131,000	21 - 872	7	14	490 - 3,100	9 - 60	
Nitrogen Compounds								
Phenols	870 - 141,430	310 - 550	6 - 4,777		4		30	
Polycyclic Aromatic Hydrocarbons	150 - 650,200	680 - 1,595				400 - 25,100		1,080 - 26,000
PCBS	13,000 - 10,020,000		110					
Pesticides	2,410 - 70,900	5.8 - 420	0.69			5.3 - 520	0.0032 - 0.388	6.3 - 107
Halogenated Hydrocarbons	4,890 - 92,000	6			6		2.3 - 92.1	
Ketones	240,000							
Furans	280 - 360,000	140 - 170	20			260		
Aromatics	278 - 4,213,000	1	3 - 47.7		14	160	2.0 - 140	23

Note: Quantities are in ppb

1/4/91 pfholeo2
[filename = coninor]

TABLE 4-5

AREA C - ONSITE

CONCENTRATION RANGES FOR EACH INORGANIC CONSTITUENT DETECTED IN VARIOUS SAMPLE MEDIA
PFOHL BROTHERS LANDFILL

CONTAMINANT	WASTE	SUB SOIL	SHALLOW GROUND WATER	DEEP GROUND WATER	SURFACE WATER	SURFACE WATER SEDIMENTS	LEACHATE SEEPS	LEACHATE SEEP SEDIMENTS
Al		4,500 - 15,000	0.521 - 74,000	0.234	0.146 - 1.090	9,100 - 11,800	0.145 - 1.410	
Sb			0.0244			9		
As	0.72 - 72	5.1 - 21.8				3.6 - 7.2	0.0060 - 0.008	29.9
Ba	0.53 - 4,910	51.7 - 2,240	1.22 - 1.53			82.7 - 171	0.0803 - 1.21	95.5 - 320
Be	0.28 - 1.8	0.32 - 1.4				0.53		0.4 - 0.63
Cd	1.7 - 28.7	3 - 5.9	0.012		0.005 - 0.0138	2.5 - 6.2	0.0043 - 0.0204	2.5 - 9.8
Ca	48.5 - 48,100	52,100 - 88,900	156 - 593	138	125 - 233	75,700 - 98,300	145 - 323	16,900 - 114,000
Cr	2.2 - 703	7.8 - 37.5	0.115			14 - 49.1		14.7 - 43.1
Co	7.1 - 378	4.1 - 13.5	0.0103 - 0.0441			5.3 - 14.2		6.4 - 13.5
Cu	1.4 - 692	17.2 - 337			0.007 - 0.0268	32.1 - 107	0.0197 - 0.216	26.2 - 113
Fe	155 - 254,000	8,660 - 33,100	2.53 - 131	5.27	0.424 - 4	17,800 - 28,000	75.7 - 376	36,800 - 97,800
Pb	1.4 - 651	12 - 882	0.0506 - 0.369		0.010 - 0.0201	462 - 915	0.0796 - 0.476	985
Mg	12.2 - 3,110	4,470 - 28,500	45.6 - 175	44.4	33.8 - 43.0	19,600 - 26,100	40.8 - 65.9	2,530 - 19,400
Mn	1.6 - 1,400	223 - 643	0.391 - 3.45		0.323 - 0.401	503 - 635	0.711 - 1.420	374 - 1,770
Hg	0.14 - 1.4	0.14 - 1.2			0.0003	0.41 - 0.57		0.2 - 0.9
Ni	4.1 - 445	8.1 - 34.8	0.0249 - 0.136	0.0211	0.0135	17.9 - 76.4	27.7 - 84.1	14.9 - 61.5
K	209 - 1,300	680 - 3,130	30.7 - 42.7	12.4	3.82 - 24.2	1,230 - 2,830	5.5 - 20.6	1,200 - 2,420
Se	8 - 39.2	2				0.93		1 - 2.9
Ag	1.1 - 11.9	0.68 - 2.4						
Na	46.7 - 23,800	143 - 345	183 - 201	354	58.3 - 269	3,770	187	271 - 4,490
Tl	1.9							0.59
Vn	3.2 - 52.3	14.5 - 36.6	0.0028 - 0.124		0.0036	18.0 - 29.8	0.0033 - 0.0037	26.4
Zn	6.4 - 4,460	69.4 - 1,150			0.0398 - 0.0766	315 - 910	0.066 - 3.360	110 - 1,770
CN	0.53 - 4	1.2				10		4 - 6.6

Note: Quantities are in ppm

1/4/91 pfholeo2
[filename = cofforg]

TABLE 4-5

AREA C - OFFSITE

CONCENTRATION RANGES DETECTED FOR EACH GROUP OF ORGANIC CONTAMINANTS IN VARIOUS SAMPLE MEDIA
PFOHL BROTHERS LANDFILL

CONTAMINANT	WASTE	SUB SOIL	SHALLOW GROUND WATER	DEEP GROUND WATER	SURFACE WATER	SURFACE WATER SEDIMENTS	LEACHATE SEEPS	LEACHATE SEEP SEDIMENTS
Phthalates		150	73	42				
Nitrogen Compounds								
Phenols				16				
Polycyclic Aromatic Hydrocarbons		190				430		
PCBS								
Pesticides		35						
Halogenated Hydrocarbons								
Ketones								
Furans								
Aromatics				8				

Note: Quantities are in ppb

1/4/91 pfhole>2
[filename = c>ffinor]

TABLE 4-5

AREA C - OFFSITE

CONCENTRATION RANGES FOR EACH INORGANIC CONSTITUENT DETECTED IN VARIOUS SAMPLE MEDIA
PFOHL BROTHERS LANDFILL

CONTAMINANT	WASTE	SUB SOIL	SHALLOW GROUND WATER	DEEP GROUND WATER	SURFACE WATER	SURFACE WATER SEDIMENTS	LEACHATE SEEPS	LEACHATE SEEP SEDIMENTS
Al			0.610	1.590		19,200		
Sb						14.9		
As		3.7						
Ba						133		
Be		0.24				0.89		
Cd								
Ca		55,400		244				
Cr		7.3				27.4		
Co		3.9				10.3		
Cu								
Fe			1.08	0.953		24,100		
Pb		18.5						
Mg		21,800						
Mn		321						
Hg		0.37						
Ni		0.0061				32.2		
K		1,270	3.09	23.3		1,640		
Se								
Ag								
Na		169						
Tl								
Vn						33.4		
Zn		78.1			0.0361			
CN								

Note: Quantities are in ppm

1/4/91 pfholeo2
[filename = elliorg]

TABLE 4-5

ELLICOTT CREEK

CONCENTRATION RANGES DETECTED FOR EACH GROUP OF ORGANIC CONTAMINANTS IN VARIOUS SAMPLE MEDIA
PFOHL BROTHERS LANDFILL

CONTAMINANT	WASTE	SUB SOIL	SHALLOW GROUND WATER	DEEP GROUND WATER	SURFACE WATER	SURFACE WATER SEDIMENTS	LEACHATE SEEPS	LEACHATE SEEP SEDIMENTS
Phthalates								
Nitrogen Compounds								
Phenols								
Polycyclic Aromatic Hydocarbons						245		
PCBS								
Pesticides								
Halogenated Hydrocarbons								
Ketones								
Furans								
Aromatics								

Note: Quantities are in ppb

1/4/91 pfholeo2
[filename = elliinor]

TABLE 4-5

ELLICOTT CREEK

CONCENTRATION RANGES FOR EACH INORGANIC CONSTITUENT DETECTED IN VARIOUS SAMPLE MEDIA
PFOHL BROTHERS LANDFILL

CONTAMINANT	WASTE	SUB SOIL	SHALLOW GROUND WATER	DEEP GROUND WATER	SURFACE WATER	SURFACE WATER SEDIMENTS	LEACHATE SEEPS	LEACHATE SEEP SEDIMENTS
Al					0.190	8,750 - 9,010		
Sb								
As								
Ba						74.7		
Be						0.54 - 0.57		
Cd					0.0086			
Ca					133			
Cr						14		
Co						4.7 - 5.7		
Cu						2,160		
Fe					0.462	12,600 - 14,500		
Pb						14.8 - 36.7		
Mg								
Mn								
Hg						0.18 - 0.25		
Ni						14.2 - 18.7		
K					2.84	1,180 - 1,210		
Se								
Ag								
Na					33.6			
Tl								
Vn						16		
Zn					0.0476			
CN								

Note: Quantities are in ppm

APPENDIX M

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE

VOLATILES

07/27/90

SAMPLE NUMBER -	CONCENTRATIONS in ug/l or ug/kg								
	DR-01-01	DR-02-01	DR-03-01	DR-04-01	DR-05-01	DR-06-01	DR-07-01	DR-08-01	DR-09-01
VOLATILES									
Chloromethane	1900.0 U	4900.0 U	41000.0 U	71.0 U	24.0 U	1600.0 U	110.0 U	14000.0 U	37000.0 U
Bromomethane	1900.0 U	4900.0 U	41000.0 U	71.0 U	24.0 U	1600.0 U	110.0 U	14000.0 U	37000.0 U
Vinyl Chloride	1900.0 U	4900.0 U	41000.0 U	71.0 U	24.0 U	1600.0 U	110.0 U	14000.0 U	37000.0 U
Chloroethane	1900.0 U	4900.0 U	41000.0 U	71.0 U	24.0 U	1600.0 U	110.0 U	14000.0 U	37000.0 U
Methylene Chloride	1400.0 B	2300.0 J	14000.0 BJ	140.0 U	56.0 J	1200.0 B	230.0 J	6900.0	19000.0 U
Acetone	1900.0 U	4900.0 U	41000.0 U	850.0 U	230.0 BJ	1600.0 U	1600.0 J	14000.0 U	37000.0 U
Carbon Disulfide	950.0 U	2500.0 U	20000.0 U	63.0	12.0 U	810.0 U	56.0 U	6800.0 U	19000.0 U
1,1-Dichloroethene	950.0 U	2500.0 U	20000.0 U	36.0 U	12.0 U	810.0 U	56.0 U	6800.0 U	19000.0 U
1,1-Dichloroethane	950.0 U	2500.0 U	20000.0 U	36.0 U	12.0 U	810.0 U	56.0 U	6800.0 U	19000.0 U
1,2-Dichloroethene (total)	950.0 U	2500.0 U	20000.0 U	36.0 U	12.0 U	810.0 U	56.0 U	6800.0 U	19000.0 U
Chloroform	950.0 U	2500.0 U	20000.0 U	36.0 U	12.0 U	810.0 U	56.0 U	6800.0 U	19000.0 U
1,2-Dichloroethane	950.0 U	2500.0 U	20000.0 U	36.0 U	12.0 U	810.0 U	56.0 U	6800.0 U	19000.0 U
2-Butanone	1900.0 U	4900.0 U	41000.0 U	34.0 J	R	1600.0 U	110.0 U	14000.0 U	37000.0 U
1,1,1-Trichloroethane	950.0 U	2500.0 U	20000.0 U	36.0 U	12.0 U	810.0 U	56.0 U	6800.0 U	19000.0 U
Carbon Tetrachloride	950.0 U	2500.0 U	20000.0 U	36.0 U	12.0 U	810.0 U	56.0 U	6800.0 U	19000.0 U
Vinyl Acetate	1900.0 U	4900.0 U	41000.0 U	71.0 U	24.0 U	1600.0 U	110.0 UJ	14000.0 U	37000.0 UJ
Bromodichloromethane	950.0 U	2500.0 U	20000.0 U	36.0 U	12.0 U	810.0 U	56.0 U	6800.0 U	19000.0 U
1,2-Dichloropropane	950.0 U	2500.0 U	20000.0 U	36.0 U	12.0 U	810.0 U	56.0 U	6800.0 U	19000.0 U
cis-1,3-Dichloropropene	950.0 U	2500.0 U	20000.0 U	36.0 U	12.0 U	810.0 U	56.0 U	6800.0 U	19000.0 U
Trichloroethene	950.0 U	2500.0 U	20000.0 U	36.0 U	12.0 U	810.0 U	56.0 U	6800.0 U	19000.0 U
Dibromochloromethane	950.0 U	2500.0 U	20000.0 U	36.0 U	12.0 U	810.0 U	56.0 U	6800.0 U	19000.0 U
1,1,2-Trichloroethane	950.0 U	2500.0 U	20000.0 U	36.0 U	12.0 U	810.0 U	56.0 U	6800.0 U	19000.0 U
Benzene	950.0 U	2500.0 U	20000.0 U	36.0 U	12.0 U	810.0 U	56.0 U	6800.0 U	19000.0 U
trans-1,3-Dichloropropene	950.0 U	2500.0 U	20000.0 U	36.0 U	12.0 U	810.0 U	56.0 U	6800.0 U	19000.0 U
Bromoform	950.0 U	2500.0 U	20000.0 U	36.0 U	12.0 U	810.0 U	56.0 U	6800.0 U	19000.0 U
4-Methyl-2-Pentanone	1900.0 U	4900.0 U	41000.0 U	71.0 U	24.0 U	1600.0 U	110.0 UJ	14000.0 U	240000.0 J
2-Hexanone	1900.0 U	4900.0 U	41000.0 U	71.0 U	24.0 U	1600.0 U	110.0 UJ	14000.0 U	37000.0 U
Tetrachloroethene	950.0 U	2500.0 U	20000.0 U	36.0 U	12.0 U	810.0 U	56.0 UJ	6800.0 U	19000.0 U
1,1,2,2-Tetrachloroethane	950.0 U	2500.0 U	20000.0 U	36.0 U	12.0 U	810.0 U	56.0 UJ	6800.0 U	19000.0 U
Toluene	950.0 U	2500.0 U	13000.0 J	15.0 J	12.0 U	810.0 U	56.0 UJ	6800.0 U	19000.0 U
Chlorobenzene	950.0 U	2500.0 U	20000.0 U	30.0 J	12.0 U	810.0 U	70.0 J	6800.0 U	19000.0 U
Ethylbenzene	950.0 U	2500.0 U	20000.0 U	230.0	12.0 U	810.0 U	38.0 J	6800.0 U	19000.0 U
Styrene	950.0 U	2500.0 U	20000.0 U	36.0 U	12.0 U	810.0 U	56.0 UJ	6800.0 U	19000.0 U
Xylenes(total)	950.0 U	2500.0 U	20000.0 U	25.0 J	12.0 U	810.0 U	170.0 J	6800.0 U	19000.0 U

FOOTNOTES :
ug/l (micrograms per liter) = ug/kg (micrograms per kilogram) = ppb (parts per billion).
J is a data qualifier indicating estimated values (appendix A).
R = Analyte was rejected due to QA/QC.
B = Indicates the analyte was found in the blank. Indicates possible blank contamination.
U = Indicates element was analyzed for but not detected. The number shown is the detection limit.
E = Estimated value due to exceedance of linear calibration range.
D = Analyte detected at a dilution.
→

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE (contd)

VOLATILES

7/27/90

	CONCENTRATIONS in ug/l or ug/kg								
SAMPLE NUMBER -	DR-10-01	DR-10-01D	DR-11-01	DR-11-01D	DR-13-01	DR-16-01	DR-18-01	DR-18-01D	DR-19-01
VOLATILES									
Chloromethane	32000.0 U	320000.0 U	36000.0 U	3600.0 U	12000.0 U	8400.0 U	48.0 U	4800.0 U	47000.0 U
Bromomethane	32000.0 U	320000.0 U	36000.0 U	3600.0 U	12000.0 UJ	8400.0 U	48.0 U	4800.0 U	47000.0 U
Vinyl Chloride	32000.0 U	320000.0 U	36000.0 U	3600.0 U	12000.0 U	8400.0 U	48.0 U	4800.0 U	47000.0 U
Chloroethane	32000.0 U	320000.0 U	36000.0 U	3600.0 U	12000.0 U	8400.0 U	48.0 U	4800.0 U	47000.0 U
Methylene Chloride	140000.0 B	220000.0 BD	18000.0 U	1800.0 U	7800.0 U	4200.0 U	24.0 U	2400.0 U	23000.0 J
Acetone	32000.0 U	320000.0 U	R	R	R	8400.0 U	48.0 UJ	9900.0 UJ	47000.0 U
Carbon Disulfide	16000.0 U	160000.0 U	18000.0 U	1800.0 U	6200.0 U	4200.0 U	24.0 U	2400.0 U	24000.0 U
1,1-Dichloroethene	16000.0 U	160000.0 U	18000.0 U	1800.0 U	6200.0 U	4200.0 U	24.0 U	2400.0 U	24000.0 U
1,1-Dichloroethane	16000.0 U	160000.0 U	18000.0 U	1800.0 U	6200.0 U	4200.0 U	290.0	2400.0 U	24000.0 U
1,2-Dichloroethene (total)	16000.0 U	160000.0 U	41000.0	1800.0 U	6200.0 U	4200.0 U	24.0 U	2400.0 U	24000.0 U
Chloroform	16000.0 U	160000.0 U	18000.0 U	1800.0 U	6200.0 U	4200.0 U	24.0 U	2400.0 U	24000.0 U
1,2-Dichloroethane	16000.0 U	160000.0 U	18000.0 U	1800.0 U	6200.0 U	4200.0 U	24.0 U	2400.0 U	24000.0 U
2-Butanone	32000.0 U	320000.0 U	R	R	12000.0 U	8400.0 U	R	R	47000.0 U
1,1,1-Trichloroethane	16000.0 U	160000.0 U	18000.0 U	1800.0 U	6200.0 U	4200.0 U	4600.0 D	4600.0 D	24000.0 U
Carbon Tetrachloride	16000.0 U	160000.0 U	18000.0 U	1800.0 U	6200.0 U	4200.0 U	24.0 U	2400.0 U	24000.0 U
Vinyl Acetate	32000.0 U	320000.0 U	36000.0 U	3600.0 U	12000.0 U	8400.0 U	48.0 U	4800.0 U	47000.0 UJ
Bromodichloromethane	16000.0 U	160000.0 U	18000.0 U	1800.0 U	6200.0 U	4200.0 U	24.0 U	2400.0 U	24000.0 U
1,2-Dichloropropane	16000.0 U	160000.0 U	18000.0 U	1800.0 U	6200.0 U	4200.0 U	24.0 U	2400.0 U	24000.0 U
cis-1,3-Dichloropropene	16000.0 U	160000.0 U	18000.0 U	1800.0 U	6200.0 U	4200.0 U	24.0 U	2400.0 U	24000.0 U
Trichloroethene	16000.0 U	160000.0 U	51000.0	1800.0 U	6200.0 U	4200.0 U	24.0 U	2400.0 U	24000.0 U
Dibromochloromethane	16000.0 U	160000.0 U	18000.0 U	1800.0 U	6200.0 U	4200.0 U	24.0 U	2400.0 U	24000.0 U
1,1,2-Trichloroethane	16000.0 U	160000.0 U	18000.0 U	1800.0 U	6200.0 U	4200.0 U	24.0 U	2400.0 U	24000.0 U
Benzene	16000.0 U	160000.0 U	18000.0 U	1800.0 U	6200.0 U	4200.0 U	13.0 J	2400.0 U	24000.0 U
trans-1,3-Dichloropropene	16000.0 U	160000.0 U	18000.0 U	1800.0 U	6200.0 U	4200.0 U	24.0 U	2400.0 U	24000.0 U
Bromoform	16000.0 U	160000.0 U	18000.0 U	1800.0 U	6200.0 U	4200.0 U	24.0 U	2400.0 U	24000.0 U
4-Methyl-2-Pentanone	32000.0 U	320000.0 U	36000.0 U	3600.0 U	12000.0 U	8400.0 U	48.0 U	4800.0 U	47000.0 U
2-Hexanone	32000.0 U	320000.0 U	36000.0 U	3600.0 U	12000.0 U	8400.0 U	48.0 U	4800.0 U	47000.0 U
Tetrachloroethene	16000.0 U	160000.0 U	18000.0 U	1800.0 U	6200.0 U	4200.0 U	24.0 U	2400.0 U	22000.0 J
1,1,2,2-Tetrachloroethane	16000.0 U	160000.0 U	18000.0 U	1800.0 U	6200.0 U	4200.0 U	24.0 U	2400.0 U	24000.0 U
Toluene	4200000.0 D	4200000.0 D	390000.0	1800.0 U	6200.0 U	4200.0 U	99.0	2400.0 U	24000.0 U
Chlorobenzene	16000.0 U	160000.0 U	18000.0 U	1800.0 U	6700.0	11000.0	24.0 U	2400.0 U	16000.0 J
Ethylbenzene	16000.0 U	160000.0 U	310000.0	1800.0 U	11000.0	4200.0 U	6200.0 D	6200.0 D	24000.0 U
Styrene	16000.0 U	160000.0 U	18000.0 U	1800.0 U	6200.0 U	4200.0 U	24.0 U	2400.0 U	24000.0 U
Xylenes(total)	13000.0 J	160000.0 U	1300000.0 DJ	1300.0 DJ	120000.0	53000.0	52000.0 D	52000.0 D	19000.0 J

FOOTNOTES :
ug/l (micrograms per liter) = ug/kg (micrograms per kilogram) = ppb (parts per billion).
J is a data qualifier indicating estimated values (appendix A).
R = Analyte was rejected due to QA/QC.
B = Indicates the analyte was found in the blank. Indicates possible blank contamination.
U = Indicates element was analyzed for but not detected. The number shown is the detection limit.
E = Estimated value due to exceedance of linear calibration range.
D = Analyte detected at a dilution.

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE (contd)

VOLATILES
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SAMPLE NUMBER -	CONCENTRATIONS in ug/l or ug/kg								
	DR-19-02	DR-20-01	DR-22-01	DR-24-01	DR-24-01BDUP	DR-26-01	DR-26-01DUP	DR-28-01	DR-28-01D
VOLATILES									
Chloromethane	48000.0 U	49000.0 U	31000.0 U	25000.0 U	25000.0 U	16.0 UJ	9800.0 U	25.0 U	5000.0 U
Bromomethane	48000.0 U	49000.0 U	31000.0 U	25000.0 U	25000.0 U	16.0 UJ	9800.0 U	25.0 UJ	5000.0 U
Vinyl Chloride	48000.0 U	49000.0 U	31000.0 U	25000.0 U	25000.0 U	16.0 UJ	9800.0 U	25.0 U	5000.0 U
Chloroethane	48000.0 U	49000.0 U	31000.0 U	25000.0 U	25000.0 U	16.0 UJ	9800.0 U	25.0 U	5000.0 U
Methylene Chloride	24000.0 U	14000.0 BJ	16000.0 U	32000.0	12000.0 U	130.0 BJ	4900.0 U	12.0 U	2500.0 U
Acetone	48000.0 U	49000.0 U	31000.0 U	R	R	23.0 UJ	8700.0 U	24.0 U	2000.0 BDJ
Carbon Disulfide	24000.0 U	25000.0 U	16000.0 U	12000.0 U	12000.0 U	8.0 UJ	4900.0 U	12.0 U	2500.0 U
1,1-Dichloroethene	24000.0 U	25000.0 U	16000.0 U	12000.0 U	12000.0 U	8.0 UJ	4900.0 U	12.0 U	2500.0 U
1,1-Dichloroethane	24000.0 U	25000.0 U	16000.0 U	12000.0 U	12000.0 U	8.0 UJ	4900.0 U	12.0 U	2500.0 U
1,2-Dichloroethene (total)	24000.0 U	25000.0 U	16000.0 U	12000.0 U	12000.0 U	5.0 J	4900.0 U	12.0 U	2500.0 U
Chloroform	24000.0 U	25000.0 U	16000.0 U	12000.0 U	12000.0 U	8.0 UJ	4900.0 U	12.0 U	2500.0 U
1,2-Dichloroethane	24000.0 U	25000.0 U	16000.0 U	12000.0 U	12000.0 U	8.0 UJ	4900.0 U	12.0 U	2500.0 U
2-Butanone	48000.0 U	49000.0 U	31000.0 U	R	R	16.0 UJ	9800.0 U	25.0 U	5000.0 U
1,1,1-Trichloroethane	24000.0 U	25000.0 U	16000.0 U	12000.0 U	12000.0 U	7.0 J	4900.0 U	12.0 U	2500.0 U
Carbon Tetrachloride	24000.0 U	25000.0 U	16000.0 U	12000.0 U	12000.0 U	8.0 UJ	4900.0 U	12.0 U	2500.0 U
Vinyl Acetate	48000.0 UJ	49000.0 U	31000.0 UJ	25000.0 U	25000.0 U	16.0 UJ	9800.0 U	25.0 U	5000.0 U
Bromodichloromethane	24000.0 U	25000.0 U	16000.0 U	12000.0 U	12000.0 U	8.0 UJ	4900.0 U	12.0 U	2500.0 U
1,2-Dichloropropane	24000.0 U	25000.0 U	16000.0 U	12000.0 U	12000.0 U	8.0 UJ	4900.0 U	12.0 U	2500.0 U
cis-1,3-Dichloropropene	24000.0 U	25000.0 U	16000.0 U	12000.0 U	12000.0 U	8.0 UJ	4900.0 U	12.0 U	2500.0 U
Trichloroethene	24000.0 U	25000.0 U	16000.0 U	12000.0 U	12000.0 U	150.0 J	3200.0 J	12.0 U	2500.0 U
Dibromochloromethane	24000.0 U	25000.0 U	16000.0 U	12000.0 U	12000.0 U	8.0 UJ	4900.0 U	12.0 U	2500.0 U
1,1,2-Trichloroethane	24000.0 U	25000.0 U	16000.0 U	12000.0 U	12000.0 U	8.0 UJ	4900.0 U	12.0 U	2500.0 U
Benzene	24000.0 U	25000.0 U	16000.0 U	12000.0 U	12000.0 U	8.0 UJ	4900.0 U	12.0 U	2500.0 U
trans-1,3-Dichloropropene	24000.0 U	25000.0 U	16000.0 U	12000.0 U	12000.0 U	8.0 UJ	4900.0 U	12.0 U	2500.0 U
Bromoform	24000.0 U	25000.0 U	16000.0 U	12000.0 U	12000.0 U	8.0 UJ	4900.0 U	12.0 U	2500.0 U
4-Methyl-2-Pentanone	48000.0 U	49000.0 U	31000.0 U	25000.0 U	25000.0 U	16.0 UJ	9800.0 U	25.0 U	5000.0 U
2-Hexanone	48000.0 U	49000.0 U	31000.0 U	25000.0 U	25000.0 U	16.0 UJ	9800.0 U	25.0 U	5000.0 U
Tetrachloroethene	24000.0 U	25000.0 U	16000.0 U	12000.0 U	12000.0 U	47.0 J	4900.0 U	12.0 U	2500.0 U
1,1,2,2-Tetrachloroethane	24000.0 U	25000.0 U	16000.0 U	12000.0 U	12000.0 U	8.0 UJ	4900.0 U	12.0 U	2500.0 U
Toluene	24000.0 U	25000.0 U	16000.0 U	12000.0 U	12000.0 U	8.0 J	4900.0 U	10.0 J	2500.0 U
Chlorobenzene	24000.0 U	25000.0 U	16000.0 U	12000.0 U	12000.0 U	8.0 UJ	4900.0 U	12.0 U	2500.0 U
Ethylbenzene	24000.0 U	25000.0 U	16000.0 U	270000.0	320000.0	8.0 UJ	4900.0 U	3200.0 J	2200.0 DJ
Styrene	24000.0 U	25000.0 U	16000.0 U	12000.0 U	12000.0 U	8.0 UJ	4900.0 U	12.0 U	2500.0 U
Xylenes(total)	24000.0 U	25000.0 U	16000.0 U	18000.0	20000.0	8.0 UJ	4900.0	10000.0 DJ	10000.0 D

FOOTNOTES :
ug/l (micrograms per liter) = ug/kg (micrograms per kilogram) = ppb (parts per billion).
J is a data qualifier indicating estimated values (appendix A).
R = Analyte was rejected due to QA/QC.
B = Indicates the analyte was found in the blank. Indicates possible blank contamination.
U = Indicates element was analyzed for but not detected. The number shown is the detection limit.
E = Estimated value due to exceedance of linear calibration range.
D = Analyte detected at a dilution.
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PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE (contd)

VOLATILES

07/27/90

SAMPLE NUMBER -	CONCENTRATIONS in ug/l or ug/kg								
	DR-29-01	DR-32-01	DR-33-01	DR-34-01	DR-35-01	DR-36-01	DR-39-01	DR-41-01	DR-41-02
VOLATILES									
Chloromethane	13.0 U	1600.0 U	68.0 U	3100.0 U	4200.0 U	15000.0 U	13000.0 U	30000.0 U	60.0 U
Bromomethane	13.0 U	1600.0 UJ	68.0 U	3100.0 UJ	4200.0 UJ	15000.0 U	13000.0 U	30000.0 UJ	60.0 U
Vinyl Chloride	13.0 U	1600.0 U	68.0 U	3100.0 U	4200.0 U	15000.0 U	13000.0 U	30000.0 U	60.0 U
Chloroethane	13.0 U	1600.0 U	68.0 U	3100.0 UJ	4200.0 U	15000.0 U	13000.0 U	30000.0 UJ	60.0 U
Methylene Chloride	14.0 J	1200.0 U	140.0 U	1600.0 UJ	4500.0 U	7700.0 BJ	11000.0 B	15000.0 UJ	19.0 J
Acetone	150.0 J	R	140.0 U	3100.0 U	R	15000.0 U	11000.0 J	30000.0 U	410.0 J
Carbon Disulfide	6.0 U	780.0 U	34.0 U	1600.0 U	2100.0 U	7700.0 U	6400.0 U	15000.0 U	61.0
1,1-Dichloroethene	6.0 U	780.0 U	34.0 U	1600.0 U	2100.0 U	7700.0 U	6400.0 U	15000.0 U	30.0 U
1,1-Dichloroethane	6.0 U	780.0 U	34.0 U	1600.0 U	2100.0 U	7700.0 U	6400.0 U	15000.0 U	30.0 U
1,2-Dichloroethene (total)	6.0 U	780.0 U	34.0 U	1600.0 U	2100.0 U	7700.0 U	6400.0 U	15000.0 U	30.0 U
Chloroform	6.0 U	780.0 U	34.0 U	1600.0 U	2100.0 U	7700.0 U	6400.0 U	15000.0 U	30.0 U
1,2-Dichloroethane	6.0 U	780.0 U	34.0 U	1600.0 U	2100.0 U	7700.0 U	6400.0 U	15000.0 U	30.0 U
2-Butanone	R	360.0 J	26.0 J	3100.0 U	4200.0 U	15000.0 U	13000.0 U	30000.0 U	60.0 U
1,1,1-Trichloroethane	6.0 U	780.0 U	34.0 U	1600.0 U	2100.0 U	7700.0 U	6400.0 U	15000.0 U	30.0 U
Carbon Tetrachloride	6.0 U	780.0 U	34.0 U	1600.0 U	2100.0 U	7700.0 U	6400.0 U	15000.0 U	30.0 U
Vinyl Acetate	13.0 U	1600.0 U	68.0 U	3100.0 U	4200.0 U	15000.0 U	13000.0 U	30000.0 U	60.0 UJ
Bromodichloromethane	6.0 U	780.0 U	34.0 U	1600.0 U	2100.0 U	7700.0 U	6400.0 U	15000.0 U	30.0 U
1,2-Dichloropropane	6.0 U	780.0 U	34.0 U	1600.0 U	2100.0 U	7700.0 U	6400.0 U	15000.0 U	30.0 U
cis-1,3-Dichloropropene	6.0 U	780.0 U	34.0 U	1600.0 U	2100.0 U	7700.0 U	6400.0 U	15000.0 U	30.0 U
Trichloroethene	6.0 U	780.0 U	34.0 U	1600.0 U	2100.0 U	7700.0 U	6400.0 U	15000.0 U	30.0 U
Dibromochloromethane	6.0 U	780.0 U	34.0 U	1600.0 U	2100.0 U	7700.0 U	6400.0 U	15000.0 U	30.0 U
1,1,2-Trichloroethane	6.0 U	780.0 U	34.0 U	1600.0 U	2100.0 U	7700.0 U	6400.0 U	15000.0 U	30.0 U
Benzene	6.0 U	780.0 U	34.0 U	1600.0 U	2100.0 U	7700.0 U	6400.0 U	15000.0 U	30.0 U
trans-1,3-Dichloropropene	6.0 U	780.0 U	34.0 U	1600.0 U	2100.0 U	7700.0 U	6400.0 U	15000.0 U	30.0 U
Bromoform	6.0 U	780.0 U	34.0 U	1600.0 U	2100.0 U	7700.0 U	6400.0 U	15000.0 U	30.0 U
4-Methyl-2-Pentanone	13.0 UJ	1600.0 U	68.0 U	3100.0 U	4200.0 U	15000.0 U	13000.0 U	30000.0 U	60.0 U
2-Hexanone	13.0 UJ	1600.0 U	68.0 U	3100.0 U	4200.0 U	15000.0 U	13000.0 U	30000.0 U	60.0 U
Tetrachloroethene	6.0 UJ	780.0 U	34.0 U	1600.0 U	2100.0 U	7700.0 U	6400.0 U	15000.0 U	30.0 U
1,1,2,2-Tetrachloroethane	6.0 UJ	780.0 U	34.0 U	1600.0 U	2100.0 U	7700.0 U	6400.0 U	15000.0 U	30.0 U
Toluene	8.0 J	780.0 U	34.0 U	1600.0 U	910.0 J	7700.0 U	6400.0 U	15000.0 U	30.0 U
Chlorobenzene	6.0 UJ	390.0 J	34.0 U	1600.0 U	2100.0 U	7700.0 U	6400.0 U	15000.0 U	30.0 U
Ethylbenzene	6.0 UJ	780.0 U	55.0	2700.0	2100.0 U	7700.0 U	6400.0 U	15000.0 U	30.0 U
Styrene	6.0 UJ	780.0 U	34.0 U	1600.0 U	2100.0 U	7700.0 U	6400.0 U	15000.0 U	30.0 U
Xylenes(total)	6.0 UJ	5100.0	190.0	6000.0	3500.0	7700.0 U	6400.0 U	15000.0 U	30.0 U

FOOTNOTES :
ug/l (micrograms per liter) = ug/kg (micrograms per kilogram) = ppb (parts per billion).
J is a data qualifier indicating estimated values (appendix A).
R = Analyte was rejected due to QA/QC.
B = Indicates the analyte was found in the blank. Indicates possible blank contamination.
U = Indicates element was analyzed for but not detected. The number shown is the detection limit.
E = Estimated value due to exceedance of linear calibration range.
D = Analyte detected at a dilution.
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PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE (contd)

VOLATILES

07/27/90

SAMPLE NUMBER -	CONCENTRATIONS in ug/l or ug/kg					
	DR-42-01	DR-42-02	DR-43-01	DR-45-01	DR-46-01	DR-47-01
VOLATILES						
Chloromethane	11000.0 U	59.0 U	76.0 U	56.0 U	60.0 U	77.0 U
Bromomethane	11000.0 UJ	59.0 U	76.0 U	56.0 U	60.0 U	77.0 U
Vinyl Chloride	11000.0 U	59.0 U	76.0 U	56.0 U	60.0 U	77.0 U
Chloroethane	11000.0 UJ	59.0 U	76.0 U	56.0 U	60.0 U	77.0 U
Methylene Chloride	7300.0 UJ	15.0 J	100.0	86.0 J	30.0 U	20.0 J
Acetone	22000.0 U	510.0 J	530.0 J	600.0 J	200.0 J	300.0 J
Carbon Disulfide	5600.0 U	29.0 U	38.0 U	28.0 U	30.0 U	38.0 U
1,1-Dichloroethene	5600.0 U	29.0 U	38.0 U	28.0 U	30.0 U	38.0 U
1,1-Dichloroethane	5600.0 U	29.0 U	38.0 U	28.0 U	30.0 U	38.0 U
1,2-Dichloroethene (total)	5600.0 U	29.0 U	38.0 U	28.0 U	30.0 U	38.0 U
Chloroform	5600.0 U	29.0 U	38.0 U	28.0 U	30.0 U	38.0 U
1,2-Dichloroethane	5600.0 U	29.0 U	38.0 U	28.0 U	30.0 U	38.0 U
2-Butanone	11000.0 U	59.0 U	76.0 U	56.0 U	60.0 U	77.0 U
1,1,1-Trichloroethane	5600.0 U	29.0 U	38.0 U	28.0 U	30.0 U	38.0 U
Carbon Tetrachloride	5600.0 U	29.0 U	38.0 U	28.0 U	30.0 U	38.0 U
Vinyl Acetate	11000.0 U	59.0 UJ	76.0 UJ	56.0 UJ	60.0 UJ	77.0 UJ
Bromodichloromethane	5600.0 U	29.0 U	38.0 U	28.0 U	30.0 U	38.0 U
1,2-Dichloropropane	5600.0 U	29.0 U	38.0 U	28.0 U	30.0 U	38.0 U
cis-1,3-Dichloropropene	5600.0 U	29.0 U	38.0 U	28.0 U	30.0 U	38.0 U
Trichloroethene	5600.0 U	29.0 U	38.0 U	28.0 U	30.0 U	38.0 U
Dibromochloromethane	5600.0 U	29.0 U	38.0 U	28.0 U	30.0 U	38.0 U
1,1,2-Trichloroethane	5600.0 U	29.0 U	38.0 U	28.0 U	30.0 U	38.0 U
Benzene	5600.0 U	29.0 U	38.0 U	28.0 U	30.0 U	38.0 U
trans-1,3-Dichloropropene	5600.0 U	29.0 U	38.0 U	28.0 U	30.0 U	38.0 U
Bromoform	5600.0 U	29.0 U	38.0 U	28.0 U	30.0 U	38.0 U
4-Methyl-2-Pentanone	11000.0 U	59.0 U	76.0 U	56.0 U	60.0 U	77.0 U
2-Hexanone	11000.0 U	59.0 U	76.0 U	56.0 U	60.0 U	77.0 U
Tetrachloroethene	5600.0 U	29.0 U	38.0 U	28.0 U	30.0 U	38.0 U
1,1,2,2-Tetrachloroethane	5600.0 U	29.0 U	38.0 U	28.0 U	30.0 U	38.0 U
Toluene	12000.0	29.0 U	38.0 U	28.0 U	30.0 U	38.0 U
Chlorobenzene	5600.0 U	29.0 U	38.0 U	28.0 U	30.0 U	38.0 U
Ethylbenzene	6500.0	29.0 U	38.0 U	38.0	30.0 U	38.0 U
Styrene	5600.0 U	29.0 U	38.0 U	28.0 U	30.0 U	38.0 U
Xylenes(total)	39000.0	29.0 U	38.0 U	110.0	30.0 U	38.0 U

FOOTNOTES :
ug/l (micrograms per liter) = ug/kg (micrograms per kilogram) = ppb (parts per billion).
J is a data qualifier indicating estimated values (appendix A).
R = Analyte was rejected due to QA/QC.
B = Indicates the analyte was found in the blank. Indicates possible blank contamination.
U = Indicates element was analyzed for but not detected. The number shown is the detection limit.
E = Estimated value due to exceedance of linear calibration range.
D = Analyte detected at a dilution.

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE

SEMI-VOLATILES 1

/27/90

SAMPLE NUMBER -	CONCENTRATIONS in ug/l or ug/kg								
	DR-01-01	DR-02-01	DR-03-01	DR-03-01D	DR-04-01	DR-05-01	DR-06-01	DR-07-01	DR-08-01
SEMI-VOLATILES 1									
henol	20000.0 U	20.0 U	22000.0 D	22000.0 D	12000.0 U	2400.0 U	13.0 U	730.0 U	9200.0
ois(2-Chloroethyl)Ether	20000.0 U	20.0 U	160.0 U	17000.0 U	12000.0 U	2400.0 U	13.0 U	730.0 U	2200.0 U
-Chlorophenol	20000.0 U	20.0 U	160.0 U	17000.0 U	12000.0 U	2400.0 U	13.0 U	730.0 U	2200.0 U
,3-Dichlorobenzene	20000.0 U	20.0 U	160.0 U	17000.0 U	12000.0 U	2400.0 U	13.0 U	730.0 U	2200.0 U
,4-Dichlorobenzene	20000.0 U	20.0 U	160.0 U	17000.0 U	12000.0 U	2400.0 U	13.0 U	730.0 U	2200.0 U
enzyl Alcohol	20000.0 U	20.0 U	160.0 U	17000.0 U	12000.0 U	2400.0 UJ	13.0 U	730.0 U	2200.0 U
,2-Dichlorobenzene	20000.0 U	20.0 U	160.0 U	17000.0 U	12000.0 U	2400.0 U	13.0 U	730.0 U	2200.0 U
-Methylphenol	20000.0 U	20.0 U	310.0	17000.0 U	12000.0 U	2400.0 U	13.0 U	730.0 U	2200.0 U
ois(2-Chloroisopropyl)Ether	20000.0 U	20.0 U	160.0 U	17000.0 U	12000.0 U	2400.0 U	13.0 U	730.0 U	2200.0 U
-Methylphenol	20000.0 U	20.0 U	160.0 U	17000.0 U	12000.0 U	2400.0 U	13.0 U	730.0 U	2200.0 U
-Nitroso-Di-n-Propylamine	20000.0 U	20.0 U	160.0 U	17000.0 U	12000.0 U	2400.0 U	13.0 U	730.0 U	2200.0 U
exachloroethane	20000.0 U	20.0 U	160.0 U	17000.0 U	12000.0 U	2400.0 U	13.0 U	730.0 U	2200.0 U
itrobenzene	20000.0 U	20.0 U	160.0 U	17000.0 U	12000.0 U	2400.0 U	13.0 U	730.0 U	2200.0 U
sophorone	20000.0 U	20.0 U	160.0 U	17000.0 U	12000.0 U	2400.0 U	13.0 U	730.0 U	2200.0 U
-Nitrophenol	20000.0 U	20.0 U	160.0 U	17000.0 U	12000.0 U	2400.0 U	13.0 U	730.0 U	2200.0 U
2,4-Dimethylphenol	20000.0 U	20.0 U	380.0	17000.0 U	12000.0 U	2400.0 U	13.0 U	730.0 U	2200.0 U
Benzoic Acid	100000.0 U	98.0 U	780.0 U	82000.0 U	60000.0 U	12000.0 U	65.0 U	3700.0 U	11000.0 U
bis(2-Chloroethoxy)Methane	20000.0 U	20.0 U	160.0 U	17000.0 U	12000.0 U	2400.0 U	13.0 U	730.0 U	2200.0 U
2,4-Dichlorophenol	20000.0 U	20.0 U	160.0 U	17000.0 U	12000.0 U	2400.0 U	13.0 U	730.0 U	2200.0 U
1,2,4-Trichlorobenzene	20000.0 U	20.0 U	160.0 U	17000.0 U	12000.0 U	2400.0 U	13.0 U	730.0 U	2200.0 U
Naphthalene	20000.0 U	6.0 J	160.0 U	17000.0 U	4000.0 J	2400.0 U	13.0 U	730.0 U	2200.0 U
4-Chloroaniline	20000.0 U	20.0 U	160.0 U	17000.0 U	12000.0 U	2400.0 U	13.0 U	730.0 U	2200.0 U
Hexachlorobutadiene	20000.0 U	20.0 U	160.0 U	17000.0 U	12000.0 U	2400.0 U	13.0 U	730.0 U	2200.0 U
4-Chloro-3-Methylphenol	20000.0 U	20.0 U	160.0 U	17000.0 U	12000.0 U	2400.0 U	13.0 U	730.0 U	2200.0 U
2-Methylnaphthalene	20000.0 U	12.0 J	160.0 U	17000.0 U	2700.0 J	2400.0 U	13.0 U	730.0 U	2200.0 U
Hexachlorocyclopentadiene	20000.0 U	20.0 U	160.0 U	17000.0 U	12000.0 U	2400.0 U	13.0 U	730.0 U	2200.0 U
2,4,6-Trichlorophenol	20000.0 U	20.0 U	160.0 U	17000.0 U	12000.0 U	2400.0 U	13.0 U	730.0 U	2200.0 U
2,4,5-Trichlorophenol	100000.0 U	98.0 U	780.0 U	82000.0 U	60000.0 U	12000.0 U	65.0 U	3700.0 U	11000.0 U
2-Chloronaphthalene	20000.0 U	20.0 U	160.0 U	17000.0 U	12000.0 U	2400.0 U	13.0 U	730.0 U	2200.0 U
2-Nitroaniline	100000.0 U	98.0 U	780.0 U	82000.0 U	60000.0 U	12000.0 U	65.0 U	3700.0 U	11000.0 U
Dimethyl Phthalate	20000.0 U	20.0 U	160.0 U	17000.0 U	12000.0 U	2400.0 U	13.0 U	730.0 U	2200.0 U
Acenaphthylene	20000.0 U	20.0 U	160.0 U	17000.0 U	12000.0 U	2400.0 U	13.0 U	730.0 U	2200.0 U
2,6-Dinitrotoluene	20000.0 U	20.0 U	160.0 U	17000.0 U	12000.0 U	2400.0 U	13.0 U	730.0 U	2200.0 U

FOOTNOTES :

ug/l (micrograms per liter) = ug/kg (micrograms per kilogram) = ppb (parts per billion).
J is a data qualifier indicating estimated values (appendix A).
R = Analyte was rejected due to QA/QC.
B = Indicates the analyte was found in the blank. Indicates possible blank contamination.
U = Indicates element was analyzed for but not detected. The number shown is the detection limit.
E = Estimated value due to exceedance of linear calibration range.
D = Analyte detected at a dilution.

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE (contd)

SEMI-VOLATILES 1

07/27/90

SAMPLE NUMBER -	CONCENTRATIONS in ug/l or ug/kg								
	DR-09-01	DR-09-01D	DR-10-01	DR-11-01	DR-13-01	DR-16-01	DR-18-01	DR-19-01	DR-19-01D
SEMI-VOLATILES 1									
Phenol	140000.0 DJ	140000.0 JD	260.0 U	1500.0 U	2500.0 U	35000.0 J	400.0 U	45000.0 DJ	45000.0 DJ
bis(2-Chloroethyl)Ether	1500.0 U	150000.0 U	260.0 U	1500.0 U	2500.0 U	62000.0 U	400.0 U	1900.0 U	97000.0 U
2-Chlorophenol	1500.0 U	150000.0 U	260.0 U	1500.0 U	2500.0 U	62000.0 U	400.0 U	1900.0 U	97000.0 U
1,3-Dichlorobenzene	1500.0 U	150000.0 U	260.0 U	1500.0 U	2500.0 U	62000.0 U	400.0 U	1900.0 U	97000.0 U
1,4-Dichlorobenzene	1500.0 U	150000.0 U	260.0 U	1500.0 U	2500.0 U	62000.0 U	400.0 U	1900.0 U	97000.0 U
Benzyl Alcohol	1500.0 U	150000.0 U	260.0 U	1500.0 U	2500.0 UJ	62000.0 U	400.0 UJ	1900.0 U	97000.0 U
1,2-Dichlorobenzene	1500.0 U	150000.0 U	260.0 U	1500.0 U	2500.0 U	62000.0 U	280.0 J	1900.0 U	97000.0 U
2-Methylphenol	190.0 J	150000.0 U	260.0 U	1500.0 U	2500.0 U	120000.0	400.0 U	1900.0 U	97000.0 U
bis(2-Chloroisopropyl)Ether	1500.0 U	150000.0 U	260.0 U	1500.0 U	2500.0 U	62000.0 U	400.0 U	1900.0 U	97000.0 U
4-Methylphenol	680.0 J	150000.0 U	260.0 U	710.0 J	2500.0 U	71000.0	400.0 U	1900.0 U	97000.0 U
N-Nitroso-Di-n-Propylamine	1500.0 U	150000.0 U	260.0 U	1500.0 U	2500.0 U	62000.0 U	400.0 U	1900.0 U	97000.0 U
Hexachloroethane	1500.0 U	150000.0 U	260.0 U	1500.0 U	2500.0 U	62000.0 U	400.0 U	1900.0 U	97000.0 U
Nitrobenzene	1500.0 U	150000.0 U	260.0 U	1500.0 U	2500.0 U	62000.0 U	400.0 U	1900.0 U	97000.0 U
Isophorone	1500.0 U	150000.0 U	260.0 U	1500.0 U	2500.0 UJ	62000.0 U	400.0 U	1900.0 U	97000.0 U
2-Nitrophenol	1500.0 U	150000.0 U	260.0 U	1500.0 U	2500.0 U	62000.0 U	400.0 U	1900.0 U	97000.0 U
2,4-Dimethylphenol	1500.0 U	150000.0 U	260.0 U	160.0 J	2500.0 U	25000.0 J	400.0 U	350.0 J	97000.0 U
Benzoic Acid	7500.0 U	750000.0 U	1300.0 U	7100.0 U	12500.0 U	300000.0 U	1900.0 U	9400.0 U	470000.0 U
bis(2-Chloroethoxy)Methane	1500.0 U	150000.0 U	260.0 U	1500.0 U	2500.0 U	62000.0 U	400.0 U	1900.0 U	97000.0 U
2,4-Dichlorophenol	1500.0 U	150000.0 U	260.0 U	1500.0 U	2500.0 U	62000.0 U	400.0 U	1900.0 U	97000.0 U
1,2,4-Trichlorobenzene	1500.0 U	150000.0 U	260.0 U	1500.0 U	2500.0 U	62000.0 U	400.0 U	1900.0 U	97000.0 U
Naphthalene	1500.0 U	150000.0 U	260.0 U	240.0 J	320.0 J	32000.0 J	1100.0	2100.0	97000.0 U
4-Chloroaniline	1500.0 U	150000.0 U	260.0 U	1500.0 U	2500.0 U	62000.0 U	400.0 U	1900.0 U	97000.0 U
Hexachlorobutadiene	1500.0 U	150000.0 U	260.0 U	1500.0 U	2500.0 U	62000.0 U	400.0 U	1900.0 U	97000.0 U
4-Chloro-3-Methylphenol	1500.0 U	150000.0 U	260.0 U	1500.0 U	2500.0 U	62000.0 U	400.0 U	1900.0 U	97000.0 U
2-Methylnaphthalene	1500.0 U	150000.0 U	260.0 U	450.0 J	2500.0 U	13000.0 J	200.0 J	1900.0 U	97000.0 U
Hexachlorocyclopentadiene	1500.0 U	150000.0 U	260.0 U	1500.0 U	2500.0 U	62000.0 U	400.0 U	1900.0 U	97000.0 U
2,4,6-Trichlorophenol,	1500.0 U	150000.0 U	260.0 U	1500.0 U	2500.0 U	62000.0 U	400.0 U	1900.0 U	97000.0 U
2,4,5-Trichlorophenol	7500.0 U	750000.0 U	1300.0 U	7100.0 U	12500.0 U	300000.0 U	1900.0 U	9400.0 U	470000.0 U
2-Chloronaphthalene	1500.0 U	150000.0 U	260.0 U	1500.0 U	2500.0 U	62000.0 U	400.0 U	1900.0 U	97000.0 U
2-Nitroaniline	7500.0 U	750000.0 U	1300.0 U	7100.0 U	12500.0 U	300000.0 U	1900.0 U	9400.0 U	470000.0 U
Dimethyl Phthalate	1500.0 U	150000.0 U	260.0 U	1500.0 U	2500.0 U	62000.0 U	400.0 U	1900.0 U	97000.0 U
Acenaphthylene	1500.0 U	150000.0 U	260.0 U	1500.0 U	2500.0 U	62000.0 U	400.0 U	1900.0 U	97000.0 U
2,6-Dinitrotoluene	1500.0 U	150000.0 U	260.0 U	1500.0 U	2500.0 U	62000.0 U	400.0 U	1900.0 U	97000.0 U

FOOTNOTES :
ug/l (micrograms per liter) = ug/kg (micrograms per kilogram) = ppb (parts per billion).
J is a data qualifier indicating estimated values (appendix A).
R = Analyte was rejected due to QA/QC.
B = Indicates the analyte was found in the blank. Indicates possible blank contamination.
U = Indicates element was analyzed for but not detected. The number shown is the detection limit.
E = Estimated value due to exceedance of linear calibration range.
D = Analyte detected at a dilution.
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PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE (contd)

SEMI-VOLATILES 1

7/27/90

SAMPLE NUMBER -	CONCENTRATIONS in ug/l or ug/kg								
	DR-19-02	DR-19-02D	DR-20-01	DR-22-01	DR-24-01	DR-24-01BDUP	DR-26-01	DR-26-01DUP	DR-28-01
SEMI-VOLATILES 1									
Phenol	55000.0	56000.0 DJ	32000.0	34000.0	9400.0	16000.0 J	34000.0 U	380.0 U	66.0 U
bis(2-Chloroethyl)Ether	9900.0 U	99000.0 U	5000.0 U	10000.0 U	5100.0 U	1000.0 U	34000.0 U	380.0 U	66.0 U
2-Chlorophenol	9900.0 U	99000.0 U	5000.0 U	10000.0 U	5100.0 U	1000.0 U	34000.0 U	380.0 U	66.0 U
1,3-Dichlorobenzene	9900.0 U	99000.0 U	5000.0 U	10000.0 U	5100.0 U	1000.0 U	34000.0 U	380.0 U	66.0 U
1,4-Dichlorobenzene	9900.0 U	99000.0 U	5000.0 U	10000.0 U	5100.0 U	300.0 J	34000.0 U	380.0 U	66.0 U
Benzyl Alcohol	9900.0 U	99000.0 U	5000.0 U	10000.0 UJ	5100.0 UJ	1000.0 J	34000.0 U	380.0 U	66.0 U
1,2-Dichlorobenzene	9900.0 U	99000.0 U	5000.0 U	10000.0 U	5100.0 U	190.0 J	34000.0 U	380.0 U	66.0 U
2-Methylphenol	9900.0 U	99000.0 U	5000.0 U	10000.0 U	5100.0 U	1000.0 U	34000.0 U	380.0 U	66.0 U
bis(2-Chloroisopropyl)Ether	9900.0 U	99000.0 U	5000.0 U	10000.0 U	5100.0 U	1000.0 U	34000.0 U	380.0 U	66.0 U
4-Methylphenol	9900.0 U	99000.0 U	5000.0 U	10000.0 U	5100.0 U	1000.0 U	34000.0 U	380.0 U	66.0 U
N-Nitroso-Di-n-Propylamine	9900.0 U	99000.0 U	5000.0 U	10000.0 U	5100.0 U	1000.0 U	34000.0 U	380.0 U	66.0 U
Hexachloroethane	9900.0 U	99000.0 U	5000.0 U	10000.0 U	5100.0 U	1000.0 U	34000.0 U	380.0 U	66.0 U
Nitrobenzene	9900.0 U	99000.0 U	5000.0 U	10000.0 U	5100.0 U	1000.0 U	34000.0 U	380.0 U	66.0 U
Isophorone	9900.0 U	99000.0 U	5000.0 U	10000.0 U	5100.0 U	1000.0 U	34000.0 U	380.0 U	66.0 U
2-Nitrophenol	9900.0 U	99000.0 U	5000.0 U	10000.0 U	5100.0 U	1000.0 U	34000.0 U	380.0 U	66.0 U
2,4-Dimethylphenol	9900.0 U	99000.0 U	5000.0 U	10000.0 U	5100.0 U	1000.0 U	34000.0 U	380.0 U	66.0 U
Benzoic Acid	48000.0 U	480000.0 U	24000.0 U	50000.0 U	25000.0 U	5000.0 U	160000.0 U	1900.0 U	330.0 U
bis(2-Chloroethoxy)Methane	9900.0 U	99000.0 U	5000.0 U	10000.0 U	5100.0 U	1000.0 U	34000.0 U	380.0 U	66.0 U
2,4-Dichlorophenol	9900.0 U	99000.0 U	5000.0 U	10000.0 U	5100.0 U	1000.0 U	34000.0 U	380.0 U	66.0 U
1,2,4-Trichlorobenzene	9900.0 U	99000.0 U	5000.0 U	10000.0 U	5100.0 U	1000.0 U	34000.0 U	380.0 U	66.0 U
Naphthalene	3800.0 J	99000.0 U	5000.0 U	10000.0 U	5100.0 U	1000.0 U	3700.0 J	380.0 U	3.0 J
4-Chloroaniline	9900.0 U	99000.0 U	5000.0 U	10000.0 U	5100.0 U	1000.0 U	34000.0 U	380.0 U	66.0 U
Hexachlorobutadiene	9900.0 U	99000.0 U	5000.0 U	10000.0 U	5100.0 U	1000.0 U	34000.0 U	380.0 U	66.0 U
4-Chloro-3-Methylphenol	9900.0 U	99000.0 U	5000.0 U	10000.0 U	5100.0 U	1000.0 U	34000.0 U	380.0 U	66.0 U
2-Methylnaphthalene	9900.0 U	99000.0 U	5000.0 U	10000.0 U	5100.0 U	1000.0 U	19000.0 J	380.0 U	66.0 U
Hexachlorocyclopentadiene	9900.0 U	99000.0 U	5000.0 U	10000.0 U	5100.0 U	1000.0 U	34000.0 U	380.0 U	66.0 U
2,4,6-Trichlorophenol	9900.0 U	99000.0 U	5000.0 U	10000.0 U	5100.0 U	1000.0 U	34000.0 U	380.0 U	66.0 U
2,4,5-Trichlorophenol	48000.0 U	480000.0 U	24000.0 U	50000.0 U	25000.0 U	5000.0 U	160000.0 U	1900.0 U	330.0 U
2-Chloronaphthalene	9900.0 U	99000.0 U	5000.0 U	10000.0 U	5100.0 U	1000.0 U	34000.0 U	380.0 U	66.0 U
2-Nitroaniline	48000.0 U	480000.0 U	24000.0 U	50000.0 U	25000.0 U	5000.0 U	160000.0 U	1900.0 U	330.0 U
Dimethyl Phthalate	9900.0 U	99000.0 U	5000.0 U	10000.0 U	5100.0 U	1000.0 U	6500.0 J	380.0 U	66.0 U
Acenaphthylene	9900.0 U	99000.0 U	5000.0 U	10000.0 U	5100.0 U	1000.0 U	34000.0 U	380.0 U	66.0 U
2,6-Dinitrotoluene	9900.0 U	99000.0 U	5000.0 U	10000.0 U	5100.0 U	1000.0 U	34000.0 U	380.0 U	66.0 U

FOOTNOTES :
ug/l (micrograms per liter) = ug/kg (micrograms per kilogram) = ppb (parts per billion).
J is a data qualifier indicating estimated values (appendix A).
R = Analyte was rejected due to QA/QC.
B = Indicates the analyte was found in the blank. Indicates possible blank contamination.
U = Indicates element was analyzed for but not detected. The number shown is the detection limit.
E = Estimated value due to exceedance of linear calibration range.
D = Analyte detected at a dilution.

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE (contd)

SEMI-VOLATILES 1

07/27/90

	CONCENTRATIONS in ug/l or ug/kg								
SAMPLE NUMBER -	DR-29-01	DR-32-01	DR-33-01	DR-34-01	DR-35-01	DR-36-01	DR-39-01	DR-41-01	DR-41-02
SEMI-VOLATILES 1									
Phenol	2600.0 U	82000.0 U	270.0 U	21000.0 U	8500.0 J	21000.0	9000.0	87000.0	390.0 U
bis(2-Chloroethyl)Ether	2600.0 U	82000.0 U	270.0 U	21000.0 U	8800.0 U	13000.0 U	2100.0 U	6100.0 U	390.0 U
2-Chlorophenol	2600.0 U	82000.0 U	270.0 U	21000.0 U	8800.0 U	13000.0 U	2100.0 U	6100.0 U	390.0 U
1,3-Dichlorobenzene	2600.0 U	82000.0 U	270.0 U	21000.0 U	8800.0 U	13000.0 U	2100.0 U	6100.0 U	390.0 U
1,4-Dichlorobenzene	2600.0 U	82000.0 U	270.0 U	21000.0 U	8800.0 U	13000.0 U	2100.0 U	6100.0 U	390.0 U
Benzyl Alcohol	2600.0 U	82000.0 U	270.0 U	21000.0 U	8800.0 UJ	13000.0 U	2100.0 U	6100.0 U	390.0 U
1,2-Dichlorobenzene	2600.0 U	82000.0 U	270.0 U	21000.0 U	8800.0 U	13000.0 U	2100.0 U	6100.0 U	390.0 U
2-Methylphenol	2600.0 U	82000.0 U	270.0 U	21000.0 U	8800.0 U	13000.0 U	2100.0 U	6100.0 U	390.0 U
bis(2-Chloroisopropyl)Ether	2600.0 U	82000.0 U	270.0 U	21000.0 U	8800.0 U	13000.0 U	2100.0 U	6100.0 U	390.0 U
4-Methylphenol	2600.0 U	82000.0 U	270.0 U	21000.0 U	68000.0	13000.0 U	2100.0 U	6100.0 U	390.0 U
N-Nitroso-Di-n-Propylamine	2600.0 U	82000.0 U	270.0 U	21000.0 U	8800.0 U	13000.0 U	2100.0 U	6100.0 U	390.0 U
Hexachloroethane	2600.0 U	82000.0 U	270.0 U	21000.0 U	8800.0 U	13000.0 U	2100.0 U	6100.0 U	390.0 U
Nitrobenzene	2600.0 U	82000.0 U	270.0 U	21000.0 U	8800.0 U	13000.0 U	2100.0 U	6100.0 U	390.0 U
Isophorone	2600.0 U	82000.0 U	270.0 U	21000.0 U	8800.0 U	13000.0 U	2100.0 U	6100.0 U	390.0 U
2-Nitrophenol	2600.0 U	82000.0 U	270.0 U	21000.0 U	8800.0 U	13000.0 U	2100.0 U	6100.0 U	390.0 U
2,4-Dimethylphenol	2600.0 U	82000.0 U	270.0 U	21000.0 U	8800.0 U	13000.0 U	2100.0 U	6100.0 U	390.0 U
Benzoic Acid	13000.0 U	410000.0 U	1400.0 U	100000.0 U	44000.0 U	62000.0 U	10000.0 U	30000.0 U	2000.0 U
bis(2-Chloroethoxy)Methane	2600.0 U	82000.0 U	270.0 U	21000.0 U	8800.0 U	13000.0 U	2100.0 U	6100.0 U	390.0 U
2,4-Dichlorophenol	2600.0 U	82000.0 U	270.0 U	21000.0 U	8800.0 U	13000.0 U	2100.0 U	6100.0 U	390.0 U
1,2,4-Trichlorobenzene	2600.0 U	82000.0 U	270.0 U	21000.0 U	8800.0 U	13000.0 U	2100.0 U	6100.0 U	390.0 U
Naphthalene	2600.0 U	82000.0 U	270.0 U	150000.0	2400.0 J	13000.0 U	2100.0 U	6100.0 U	390.0 U
4-Chloroaniline	2600.0 U	82000.0 U	270.0 U	21000.0 U	8800.0 U	13000.0 U	2100.0 U	6100.0 U	390.0 U
Hexachlorobutadiene	2600.0 U	82000.0 U	270.0 U	21000.0 U	8800.0 U	13000.0 U	2100.0 U	6100.0 U	390.0 U
4-Chloro-3-Methylphenol	2600.0 U	82000.0 U	270.0 U	21000.0 U	8800.0 U	13000.0 U	2100.0 U	6100.0 U	390.0 U
2-Methylnaphthalene	2600.0 U	82000.0 U	270.0 U	230000.0	2500.0 J	13000.0 U	2100.0 U	6100.0 U	390.0 U
Hexachlorocyclopentadiene	2600.0 U	82000.0 U	270.0 U	21000.0 U	8800.0 U	13000.0 U	2100.0 U	6100.0 U	390.0 U
2,4,6-Trichlorophenol	2600.0 U	82000.0 U	270.0 U	21000.0 U	8800.0 U	13000.0 U	2100.0 U	6100.0 U	390.0 U
2,4,5-Trichlorophenol	13000.0 U	410000.0 U	1400.0 U	100000.0 U	44000.0 U	62000.0 U	10000.0 U	30000.0 U	2000.0 U
2-Chloronaphthalene	2600.0 U	82000.0 U	270.0 U	21000.0 U	8800.0 U	13000.0 U	2100.0 U	6100.0 U	390.0 U
2-Nitroaniline	13000.0 U	410000.0 U	1400.0 U	100000.0 U	44000.0 U	62000.0 U	10000.0 U	30000.0 U	2000.0 U
Dimethyl Phthalate	2600.0 U	82000.0 U	270.0 U	21000.0 U	8800.0 U	13000.0 U	2100.0 U	6100.0 U	390.0 U
Acenaphthylene	2600.0 U	82000.0 U	270.0 U	21000.0 U	8800.0 U	13000.0 U	2100.0 U	6100.0 U	390.0 U
2,6-Dinitrotoluene	2600.0 U	82000.0 U	270.0 U	21000.0 U	8800.0 U	13000.0 U	2100.0 U	6100.0 U	390.0 U

FOOTNOTES :
ug/l (micrograms per liter) = ug/kg (micrograms per kilogram) = ppb (parts per billion).
J is a data qualifier indicating estimated values (appendix A).
R = Analyte was rejected due to QA/QC.
B = Indicates the analyte was found in the blank. Indicates possible blank contamination.
U = Indicates element was analyzed for but not detected. The number shown is the detection limit.
E = Estimated value due to exceedance of linear calibration range.
D = Analyte detected at a dilution.
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PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE (contd)

SEMI-VOLATILES 1

07/27/90

SAMPLE NUMBER -	CONCENTRATIONS in ug/l or ug/kg						
	DR-42-01	DR-42-01D	DR-42-02	DR-43-01	DR-45-01	DR-46-01	DR-47-01
SEMI-VOLATILES 1							
Phenol	4800.0	3700.0 U	390.0 U	500.0 U	370.0 U	380.0 U	510.0 U
bis(2-Chloroethyl)Ether	1900.0 U	3700.0 U	390.0 U	500.0 U	370.0 U	380.0 U	510.0 U
2-Chlorophenol	1900.0 U	3700.0 U	390.0 U	500.0 U	370.0 U	380.0 U	510.0 U
1,3-Dichlorobenzene	1900.0 U	3700.0 U	390.0 U	500.0 U	370.0 U	380.0 U	510.0 U
1,4-Dichlorobenzene	1900.0 U	3700.0 U	390.0 U	500.0 U	370.0 U	380.0 U	510.0 U
Benzyl Alcohol	1900.0 U	3700.0 UJ	390.0 U	500.0 U	370.0 U	380.0 U	510.0 U
1,2-Dichlorobenzene	1900.0 U	3700.0 U	390.0 U	500.0 U	370.0 U	380.0 U	510.0 U
2-Methylphenol	1900.0 U	3700.0 U	390.0 U	500.0 U	370.0 U	380.0 U	510.0 U
bis(2-Chloroisopropyl)Ether	1900.0 U	3700.0 U	390.0 U	500.0 U	370.0 U	380.0 U	510.0 U
4-Methylphenol	1900.0 U	3700.0 U	390.0 U	500.0 U	370.0 U	380.0 U	510.0 U
N-Nitroso-Di-n-Propylamine	1900.0 U	3700.0 U	390.0 U	500.0 U	370.0 U	380.0 U	510.0 U
Hexachloroethane	1900.0 U	3700.0 U	390.0 U	500.0 U	370.0 U	380.0 U	510.0 U
Nitrobenzene	1900.0 U	3700.0 U	390.0 U	500.0 U	370.0 U	380.0 U	510.0 U
Isophorone	1900.0 U	3700.0 U	390.0 U	500.0 U	370.0 U	380.0 U	510.0 U
2-Nitrophenol	1900.0 U	3700.0 U	390.0 U	500.0 U	370.0 U	380.0 U	510.0 U
2,4-Dimethylphenol	1900.0 U	3700.0 U	390.0 U	500.0 U	370.0 U	380.0 U	510.0 U
Benzoic Acid	9100.0 U	18000.0 U	1900.0 U	2500.0 U	1900.0 U	1900.0 U	2500.0 U
bis(2-Chloroethoxy)Methane	1900.0 U	3700.0 U	390.0 U	500.0 U	370.0 U	380.0 U	510.0 U
2,4-Dichlorophenol	1900.0 U	3700.0 U	390.0 U	500.0 U	370.0 U	380.0 U	510.0 U
1,2,4-Trichlorobenzene	1900.0 U	3700.0 U	390.0 U	500.0 U	370.0 U	380.0 U	510.0 U
Naphthalene	1900.0 U	3700.0 U	390.0 U	500.0 U	370.0 U	380.0 U	510.0 U
4-Chloroaniline	1900.0 U	3700.0 U	390.0 U	500.0 U	370.0 U	380.0 U	510.0 U
Hexachlorobutadiene	1900.0 U	3700.0 U	390.0 U	500.0 U	370.0 U	380.0 U	510.0 U
4-Chloro-3-Methylphenol	1900.0 U	3700.0 U	390.0 U	500.0 U	370.0 U	380.0 U	510.0 U
2-Methylnaphthalene	1900.0 U	3700.0 U	390.0 U	500.0 U	370.0 U	380.0 U	510.0 U
Hexachlorocyclopentadiene	1900.0 U	3700.0 U	390.0 U	500.0 U	370.0 U	380.0 U	510.0 U
2,4,6-Trichlorophenol	1900.0 U	3700.0 U	390.0 U	500.0 U	370.0 U	380.0 U	510.0 U
2,4,5-Trichlorophenol	9100.0 U	18000.0 U	1900.0 U	2500.0 U	1900.0 U	1900.0 U	2500.0 U
2-Chloronaphthalene	1900.0 U	3700.0 U	390.0 U	500.0 U	370.0 U	380.0 U	510.0 U
2-Nitroaniline	9100.0 U	18000.0 U	1900.0 U	2500.0 U	1900.0 U	1900.0 U	2500.0 U
Dimethyl Phthalate	1900.0 U	3700.0 U	390.0 U	500.0 U	370.0 U	380.0 U	510.0 U
Acenaphthylene	1900.0 U	3700.0 U	390.0 U	500.0 U	370.0 U	380.0 U	510.0 U
2,6-Dinitrotoluene	1900.0 U	3700.0 U	390.0 U	500.0 U	370.0 U	380.0 U	510.0 U

FOOTNOTES :
ug/l (micrograms per liter) = ug/kg (micrograms per kilogram) = ppb (parts per billion).
J is a data qualifier indicating estimated values (appendix A).
R = Analyte was rejected due to QA/QC.
B = Indicates the analyte was found in the blank. Indicates possible blank contamination.
U = Indicates element was analyzed for but not detected. The number shown is the detection limit.
E = Estimated value due to exceedance of linear calibration range.
D = Analyte detected at a dilution.

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE

SEMI-VOLATILES 2

07/27/90

SAMPLE NUMBER -	CONCENTRATIONS in ug/l or ug/kg								
	DR-01-01	DR-02-01	DR-03-01	DR-03-01D	DR-04-01	DR-05-01	DR-06-01	DR-07-01	DR-08-01
SEMI-VOLATILES 2									
3-Nitroaniline	100000.0 U	98.0 U	780.0 U	82000.0 U	60000.0 U	12000.0 U	65.0 U	3700.0 U	11000.0 U
Acenaphthene	20000.0 U	20.0 U	160.0 U	17000.0 U	2500.0 J	2400.0 U	13.0 U	730.0 U	2200.0 U
2,4-Dinitrophenol	100000.0 U	98.0 U	780.0 U	82000.0 U	60000.0 U	12000.0 U	65.0 U	3700.0 U	11000.0 U
4-Nitrophenol	100000.0 U	98.0 U	780.0 U	82000.0 U	60000.0 U	12000.0 U	65.0 U	3700.0 U	11000.0 U
Dibenzofuran	20000.0 U	20.0 U	18.0 J	17000.0 U	2700.0 J	2400.0 U	13.0 U	730.0 U	24000.0
2,4-Dinitrotoluene	20000.0 U	20.0 U	160.0 U	17000.0 U	12000.0 U	2400.0 U	13.0 U	730.0 U	2200.0 U
Diethylphthalate	20000.0 U	20.0 U	160.0 U	17000.0 U	12000.0 U	2400.0 U	13.0 U	730.0 U	2200.0 U
4-Chlorophenyl-phenylether	20000.0 U	20.0 U	160.0 U	17000.0 U	12000.0 U	2400.0 U	13.0 U	730.0 U	2200.0 U
Fluorene	20000.0 U	20.0 U	160.0 U	17000.0 U	3400.0 J	2400.0 U	13.0 U	730.0 U	2200.0 U
4-Nitroaniline	100000.0 U	98.0 U	780.0 U	82000.0 U	60000.0 U	12000.0 U	65.0 U	3700.0 U	11000.0 U
4,6-Dinitro-2-Methylphenol	100000.0 U	98.0 U	780.0 U	82000.0 U	60000.0 U	12000.0 U	65.0 U	3700.0 U	11000.0 U
N-Nitrosodiphenylamine (1)	20000.0 U	20.0 U	160.0 U	17000.0 U	12000.0 U	2400.0 U	13.0 U	730.0 U	2200.0 U
4-Bromophenyl-phenylether	20000.0 U	20.0 U	160.0 U	17000.0 U	12000.0 U	2400.0 U	13.0 U	730.0 U	2200.0 U
Hexachlorobenzene	20000.0 U	20.0 U	160.0 U	17000.0 U	12000.0 U	2400.0 U	13.0 U	730.0 U	2200.0 U
Pentachlorophenol	100000.0 U	98.0 U	780.0 U	82000.0 U	60000.0 U	12000.0 U	65.0 U	3700.0 U	11000.0 U
Phenanthrene	20000.0 U	20.0 U	160.0 U	17000.0 U	29000.0	2400.0 U	13.0 U	730.0 U	2200.0 U
Anthracene	20000.0 U	20.0 U	160.0 U	17000.0 U	4000.0 J	2400.0 U	13.0 U	730.0 U	2200.0 U
Di-n-Butylphthalate	20000.0 U	20.0 U	160.0 U	17000.0 U	12000.0 U	2400.0 U	13.0 U	730.0 U	2200.0 U
Fluoranthene	20000.0 U	20.0 U	160.0 U	17000.0 U	22000.0	2400.0 U	13.0 U	730.0 U	2200.0 U
Pyrene	20000.0 U	20.0 U	160.0 U	17000.0 U	15000.0	2400.0 U	13.0 U	730.0 U	2200.0 U
Butylbenzylphthalate	20000.0 U	20.0 U	160.0 U	17000.0 U	12000.0 U	2400.0 U	13.0 U	730.0 U	2200.0 U
3,3'-Dichlorobenzidine	40000.0 U	40.0 U	320.0 U	34000.0 U	25000.0 U	4700.0 U	27.0 U	1500.0 U	4500.0 U
Benzo(a)Anthracene	20000.0 U	20.0 U	160.0 U	17000.0 U	11000.0 J	2400.0 U	13.0 U	730.0 U	2200.0 U
Chrysene	20000.0 U	20.0 U	160.0 U	17000.0 U	9800.0 J	2400.0 U	13.0 U	730.0 U	2200.0 U
bis(2-Ethylhexyl)Phthalate	20000.0 U	20.0 U	160.0 U	17000.0 U	12000.0 U	950.0 J	4.0 J	730.0 U	2200.0 U
Di-n-Octyl Phthalate	20000.0 U	20.0 U	160.0 U	17000.0 U	12000.0 U	2400.0 U	13.0 U	730.0 U	2200.0 U
Benzo(b)Fluoranthene	20000.0 U	20.0 U	160.0 U	17000.0 U	12000.0 J	2400.0 U	13.0 U	730.0 U	2200.0 U
Benzo(k)Fluoranthene	20000.0 U	20.0 U	160.0 U	17000.0 U	12000.0 U	2400.0 U	13.0 U	730.0 U	2200.0 U
Benzo(a)Pyrene	20000.0 U	20.0 U	160.0 U	17000.0 U	7100.0 J	2400.0 U	13.0 U	730.0 U	2200.0 U
Indeno(1,2,3-cd)Pyrene	20000.0 U	20.0 U	160.0 U	17000.0 U	5200.0 J	2400.0 U	13.0 U	730.0 U	2200.0 U
Dibenz(a,h)Anthracene	20000.0 U	20.0 U	160.0 U	17000.0 U	12000.0 U	2400.0 U	13.0 U	730.0 U	2200.0 U
Benzo(g,h,i)Perylene	20000.0 U	20.0 U	160.0 U	17000.0 U	4500.0 J	2400.0 U	13.0 U	730.0 U	2200.0 U

FOOTNOTES :
ug/l (micrograms per liter) = ug/kg (micrograms per kilogram) = ppb (parts per billion).
J is a data qualifier indicating estimated values (appendix A).
R = Analyte was rejected due to QA/QC.
B = Indicates the analyte was found in the blank. Indicates possible blank contamination.
U = Indicates element was analyzed for but not detected. The number shown is the detection limit.
E = Estimated value due to exceedance of linear calibration range.
D = Analyte detected at a dilution.
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PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE (contd)

SEMI-VOLATILES 2

07/27/90

	CONCENTRATIONS in ug/l or ug/kg								
SAMPLE NUMBER -	DR-09-01	DR-09-01D	DR-10-01	DR-11-01	DR-13-01	DR-16-01	DR-18-01	DR-19-01	DR-19-01D
SEMI-VOLATILES 2									
3-Nitroaniline	7500.0 U	750000.0 U	1300.0 U	7100.0 U	12500.0 U	300000.0 U	1900.0 UJ	9400.0 U	470000.0 U
Acenaphthene	1500.0 U	150000.0 U	260.0 U	1500.0 U	2500.0 U	62000.0 U	400.0 U	1900.0 U	97000.0 U
2,4-Dinitrophenol	7500.0 U	750000.0 U	1300.0 U	7100.0 U	12500.0 U	300000.0 U	1900.0 U	9400.0 U	470000.0 U
4-Nitrophenol	7500.0 U	750000.0 U	1300.0 U	7100.0 U	12500.0 U	300000.0 U	1900.0 U	9400.0 U	470000.0 U
Dibenzofuran	280.0 J	150000.0 U	260.0 U	1500.0 U	2500.0 U	62000.0 U	400.0 U	88000.0 DJ	88000.0 DJ
2,4-Dinitrotoluene	1500.0 U	150000.0 U	260.0 U	1500.0 U	2500.0 U	62000.0 U	400.0 U	1900.0 U	97000.0 U
Diethylphthalate	1500.0 U	150000.0 U	260.0 U	1500.0 U	2500.0 U	62000.0 U	400.0 U	1900.0 U	97000.0 U
4-Chlorophenyl-phenylether	1500.0 U	150000.0 U	260.0 U	1500.0 U	2500.0 U	62000.0 U	400.0 U	1900.0 U	97000.0 U
Fluorene	1500.0 U	150000.0 U	260.0 U	1500.0 U	2500.0 U	62000.0 U	400.0 U	180.0 J	97000.0 U
4-Nitroaniline	7500.0 U	750000.0 U	1300.0 U	7100.0 U	12500.0 U	300000.0 U	1900.0 U	9400.0 U	470000.0 U
4,6-Dinitro-2-Methylphenol	7500.0 U	750000.0 U	1300.0 U	7100.0 U	12500.0 U	300000.0 U	1900.0 U	9400.0 U	470000.0 U
N-Nitrosodiphenylamine (1)	1500.0 U	150000.0 U	260.0 U	1500.0 U	2500.0 U	62000.0 U	400.0 U	1900.0 U	97000.0 U
4-Bromophenyl-phenylether	1500.0 U	150000.0 U	260.0 U	1500.0 U	2500.0 U	62000.0 U	400.0 U	1900.0 U	97000.0 U
Hexachlorobenzene	1500.0 U	150000.0 U	260.0 U	1500.0 U	2500.0 U	62000.0 U	400.0 U	1900.0 U	97000.0 U
Pentachlorophenol	560.0 J	750000.0 U	1300.0 U	7100.0 U	12500.0 U	300000.0 U	1900.0 U	9400.0 U	470000.0 U
Phenanthrene	1500.0 U	150000.0 U	260.0 U	1500.0 U	2500.0 U	62000.0 U	400.0 U	1900.0 U	97000.0 U
Anthracene	1500.0 U	150000.0 U	260.0 U	1500.0 U	2500.0 U	62000.0 U	400.0 U	1900.0 U	97000.0 U
Di-n-Butylphthalate	1500.0 U	150000.0 U	260.0 U	1500.0 U	2500.0 U	170000.0	400.0 U	1900.0 U	97000.0 U
Fluoranthene	1500.0 U	150000.0 U	260.0 U	1500.0 U	2500.0 U	62000.0 U	400.0 U	1900.0 U	97000.0 U
Pyrene	1500.0 U	150000.0 U	260.0 U	1500.0 U	2500.0 U	62000.0 U	400.0 U	1900.0 U	97000.0 U
Butylbenzylphthalate	1500.0 U	150000.0 U	260.0 U	1500.0 U	2500.0 U	49000.0 J	400.0 U	1900.0 U	97000.0 U
3,3'-Dichlorobenzidine	3100.0 U	310000.0 U	530.0 U	2900.0 U	5000.0 U	120000.0 U	790.0 UJ	3900.0 U	190000.0 U
Benzo(a)Anthracene	1500.0 U	150000.0 U	260.0 U	1500.0 U	2500.0 U	62000.0 U	400.0 U	1900.0 U	97000.0 U
Chrysene	1500.0 U	150000.0 U	260.0 U	1500.0 U	2500.0 U	62000.0 U	400.0 U	1900.0 U	97000.0 U
bis(2-Ethylhexyl)Phthalate	1500.0 U	150000.0 U	160.0 J	1500.0 U	2500.0 U	62000.0 U	400.0 U	1900.0 U	97000.0 U
Di-n-Octyl Phthalate	1500.0 U	150000.0 U	260.0 U	1500.0 U	2500.0 U	62000.0 U	400.0 U	1900.0 U	97000.0 U
Benzo(b)Fluoranthene	1500.0 U	150000.0 U	260.0 U	1500.0 U	2500.0 U	62000.0 U	400.0 U	1900.0 U	97000.0 U
Benzo(k)Fluoranthene	1500.0 U	150000.0 U	260.0 U	1500.0 U	2500.0 U	62000.0 U	400.0 U	1900.0 U	97000.0 U
Benzo(a)Pyrene	1500.0 U	150000.0 U	260.0 U	1500.0 U	2500.0 U	62000.0 U	400.0 U	1900.0 U	97000.0 U
Indeno(1,2,3-cd)Pyrene	1500.0 U	150000.0 U	260.0 U	1500.0 U	2500.0 U	62000.0 U	400.0 U	1900.0 U	97000.0 U
Dibenz(a,h)Anthracene	1500.0 U	150000.0 U	260.0 U	1500.0 U	2500.0 U	62000.0 U	400.0 U	1900.0 U	97000.0 U
Benzo(g,h,i)Perylene	1500.0 U	150000.0 U	260.0 U	1500.0 U	2500.0 U	62000.0 U	400.0 U	1900.0 U	97000.0 U

FOOTNOTES :
ug/l (micrograms per liter) = ug/kg (micrograms per kilogram) = ppb (parts per billion).
J is a data qualifier indicating estimated values (appendix A).
R = Analyte was rejected due to QA/QC.
B = Indicates the analyte was found in the blank. Indicates possible blank contamination.
U = Indicates element was analyzed for but not detected. The number shown is the detection limit.
E = Estimated value due to exceedance of linear calibration range.
D = Analyte detected at a dilution.
→

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE (contd)

SEMI-VOLATILES 2

07/27/90

	CONCENTRATIONS in ug/l or ug/kg								
SAMPLE NUMBER -	DR-19-02	DR-19-02D	DR-20-01	DR-22-01	DR-24-01	DR-24-01BDUP	DR-26-01	DR-26-01DUP	DR-28-01
SEMI-VOLATILES 2									
3-Nitroaniline	48000.0 U	480000.0 U	24000.0 U	50000.0 UJ	25000.0 UJ	5000.0 UJ	160000.0 U	1900.0 U	330.0 U
Acenaphthene	9900.0 U	99000.0 U	5000.0 U	10000.0 U	5100.0 U	1000.0 U	34000.0 U	380.0 U	66.0 U
2,4-Dinitrophenol	48000.0 U	480000.0 U	24000.0 U	50000.0 U	25000.0 U	5000.0 U	160000.0 U	1900.0 U	330.0 U
4-Nitrophenol	48000.0 U	480000.0 U	24000.0 U	50000.0 U	25000.0 U	5000.0 U	160000.0 U	1900.0 U	330.0 U
Dibenzofuran	360000.0 D	360000.0 D	40000.0	10000.0 U	5100.0 U	1000.0 U	34000.0 U	380.0 U	41.0 J
2,4-Dinitrotoluene	9900.0 U	99000.0 U	5000.0 U	10000.0 U	5100.0 U	1000.0 U	34000.0 U	380.0 U	66.0 U
Diethylphthalate	9900.0 U	99000.0 U	5000.0 U	10000.0 U	5100.0 U	1000.0 U	34000.0 U	380.0 U	66.0 U
4-Chlorophenyl-phenylether	9900.0 U	99000.0 U	5000.0 U	10000.0 U	5100.0 U	1000.0 U	34000.0 U	380.0 U	66.0 U
Fluorene	9900.0 U	99000.0 U	5000.0 U	10000.0 U	5100.0 U	1000.0 U	34000.0 U	380.0 U	66.0 U
4-Nitroaniline	48000.0 U	480000.0 U	24000.0 U	50000.0 U	25000.0 U	5000.0 U	160000.0 U	1900.0 U	330.0 U
4,6-Dinitro-2-Methylphenol	48000.0 U	480000.0 U	24000.0 U	50000.0 U	25000.0 U	5000.0 U	160000.0 U	1900.0 U	330.0 U
N-Nitrosodiphenylamine (1)	9900.0 U	99000.0 U	5000.0 U	10000.0 U	5100.0 U	1000.0 U	5900.0 J	380.0 U	66.0 U
4-Bromophenyl-phenylether	9900.0 U	99000.0 U	5000.0 U	10000.0 U	5100.0 U	1000.0 U	34000.0 U	380.0 U	66.0 U
Hexachlorobenzene	9900.0 U	99000.0 U	5000.0 U	10000.0 U	5100.0 U	1000.0 U	34000.0 U	380.0 U	66.0 U
Pentachlorophenol	48000.0 U	480000.0 U	24000.0 U	50000.0 U	25000.0 U	5000.0 U	160000.0 U	1900.0 U	330.0 U
Phenanthrene	9900.0 U	99000.0 U	5000.0 U	10000.0 U	5100.0 U	150.0 J	34000.0 U	380.0 U	66.0 U
Anthracene	9900.0 U	99000.0 U	5000.0 U	10000.0 U	5100.0 U	1000.0 U	34000.0 U	380.0 U	66.0 U
Di-n-Butylphthalate	9900.0 U	99000.0 U	5000.0 U	10000.0 U	5100.0 U	1000.0 U	2700.0 J	380.0 U	66.0 U
Fluoranthene	9900.0 U	99000.0 U	5000.0 U	10000.0 U	5100.0 U	1000.0 U	34000.0 U	380.0 U	66.0 U
Pyrene	9900.0 U	99000.0 U	5000.0 U	10000.0 U	5100.0 U	1000.0 U	34000.0 U	380.0 U	66.0 U
Butylbenzylphthalate	9900.0 U	99000.0 U	5000.0 U	10000.0 U	5100.0 U	1000.0 U	34000.0 U	380.0 U	66.0 U
3,3'-Dichlorobenzidine	20000.0 U	200000.0 U	10000.0 U	21000.0 UJ	10000.0 UJ	2100.0 UJ	67000.0 U	760.0 U	130.0 U
Benzo(a)Anthracene	9900.0 U	99000.0 U	5000.0 U	10000.0 U	5100.0 U	1000.0 U	34000.0 U	380.0 U	66.0 U
Chrysene	9900.0 U	99000.0 U	5000.0 U	10000.0 U	5100.0 U	1000.0 U	34000.0 U	380.0 U	66.0 U
bis(2-Ethylhexyl)Phthalate	9900.0 U	99000.0 U	5000.0 U	10000.0 U	5100.0 U	1000.0 U	5700.0 J	87.0 J	66.0 U
Di-n-Octyl Phthalate	9900.0 U	99000.0 U	5000.0 U	10000.0 U	5100.0 U	1000.0 U	34000.0 U	380.0 U	66.0 U
Benzo(b)Fluoranthene	9900.0 U	99000.0 U	5000.0 U	10000.0 U	5100.0 U	1000.0 U	34000.0 U	380.0 U	66.0 U
Benzo(k)Fluoranthene	9900.0 U	99000.0 U	5000.0 U	10000.0 U	5100.0 U	1000.0 U	34000.0 U	380.0 U	66.0 U
Benzo(a)Pyrene	9900.0 U	99000.0 U	5000.0 U	10000.0 U	5100.0 U	1000.0 U	34000.0 U	380.0 U	66.0 U
Indeno(1,2,3-cd)Pyrene	9900.0 U	99000.0 U	5000.0 U	10000.0 U	5100.0 U	1000.0 U	34000.0 U	380.0 U	66.0 U
Dibenz(a,h)Anthracene	9900.0 U	99000.0 U	5000.0 U	10000.0 U	5100.0 U	1000.0 U	34000.0 U	380.0 U	66.0 U
Benzo(g,h,i)Perylene	9900.0 U	99000.0 U	5000.0 U	10000.0 U	5100.0 U	1000.0 U	34000.0 U	380.0 U	66.0 U

FOOTNOTES :

ug/l (micrograms per liter) = ug/kg (micrograms per kilogram) = ppb (parts per billion).
J is a data qualifier indicating estimated values (appendix A).
R = Analyte was rejected due to QA/QC.
B = Indicates the analyte was found in the blank. Indicates possible blank contamination.
U = Indicates element was analyzed for but not detected. The number shown is the detection limit.
E = Estimated value due to exceedance of linear calibration range.
D = Analyte detected at a dilution.

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE (contd)

SEMI-VOLATILES 2

07/27/90

	CONCENTRATIONS in ug/l or ug/kg								
SAMPLE NUMBER -	DR-29-01	DR-32-01	DR-33-01	DR-34-01	DR-35-01	DR-36-01	DR-39-01	DR-41-01	DR-41-02
SEMI-VOLATILES 2									
3-Nitroaniline	13000.0 U	410000.0 U	1400.0 U	100000.0 U	44000.0 U	62000.0 U	10000.0 U	30000.0 U	2000.0 U
Acenaphthene	2600.0 U	82000.0 U	270.0 U	36000.0	8800.0 U	13000.0 U	2100.0 U	6100.0 U	390.0 U
2,4-Dinitrophenol	13000.0 U	410000.0 U	1400.0 U	100000.0 U	44000.0 U	62000.0 U	10000.0 U	30000.0 U	2000.0 U
4-Nitrophenol	13000.0 U	410000.0 U	1400.0 U	100000.0 U	44000.0 U	62000.0 U	10000.0 U	30000.0 U	2000.0 U
Dibenzofuran	2600.0 U	82000.0 U	270.0 U	26000.0	8800.0 U	70000.0	26000.0	6100.0 U	390.0 U
2,4-Dinitrotoluene	2600.0 U	82000.0 U	270.0 U	21000.0 U	8800.0 U	13000.0 U	2100.0 U	6100.0 U	390.0 U
Diethylphthalate	2600.0 U	82000.0 U	270.0 U	21000.0 U	8800.0 U	13000.0 U	2100.0 U	6100.0 U	390.0 U
4-Chlorophenyl-phenylether	2600.0 U	82000.0 U	270.0 U	21000.0 U	8800.0 U	13000.0 U	2100.0 U	6100.0 U	390.0 U
Fluorene	2600.0 U	82000.0 U	270.0 U	29000.0	3200.0 J	13000.0 U	2100.0 U	6100.0 U	390.0 U
4-Nitroaniline	13000.0 U	410000.0 U	1400.0 U	100000.0 U	44000.0 U	62000.0 U	10000.0 U	30000.0 U	2000.0 U
4,6-Dinitro-2-Methylphenol	13000.0 U	410000.0 U	1400.0 U	100000.0 U	44000.0 U	62000.0 U	10000.0 U	30000.0 U	2000.0 U
N-Nitrosodiphenylamine (1)	2600.0 U	82000.0 U	270.0 U	21000.0 U	8800.0 U	13000.0 U	2100.0 U	6100.0 U	390.0 U
4-Bromophenyl-phenylether	2600.0 U	82000.0 U	270.0 U	21000.0 U	8800.0 U	13000.0 U	2100.0 U	6100.0 U	390.0 U
Hexachlorobenzene	2600.0 U	82000.0 U	270.0 U	21000.0 U	8800.0 U	13000.0 U	2100.0 U	6100.0 U	390.0 U
Pentachlorophenol	13000.0 U	410000.0 U	1400.0 U	100000.0 U	44000.0 U	62000.0 U	10000.0 U	30000.0 U	2000.0 U
Phenanthrene	1800.0 J	82000.0 U	270.0 U	86000.0	8800.0 U	13000.0 U	2100.0 U	6100.0 U	390.0 U
Anthracene	2600.0 U	82000.0 U	270.0 U	17000.0 J	8800.0 U	13000.0 U	2100.0 U	6100.0 U	390.0 U
Di-n-Butylphthalate	2600.0 U	82000.0 U	270.0 U	21000.0 U	8800.0 U	13000.0 U	2100.0 U	6100.0 U	390.0 U
Fluoranthene	3000.0	82000.0 U	270.0 U	39000.0	22000.0	13000.0 U	2100.0 U	6100.0 U	390.0 U
Pyrene	2000.0 J	82000.0 U	270.0 U	25000.0	29000.0	13000.0 U	2100.0 U	6100.0 U	390.0 U
Butylbenzylphthalate	2600.0 U	82000.0 U	270.0 U	21000.0 U	8800.0 U	13000.0 U	2100.0 U	6100.0 U	390.0 U
3,3'-Dichlorobenzidine	5100.0 U	160000.0 U	540.0 U	41000.0 U	18000.0 U	25000.0 U	4200.0 U	12000.0 U	790.0 U
Benzo(a)Anthracene	1900.0 J	82000.0 U	270.0 U	9200.0 J	8000.0 J	13000.0 U	2100.0 U	6100.0 U	390.0 U
Chrysene	1700.0 J	82000.0 U	270.0 U	9900.0 J	10000.0	13000.0 U	2100.0 U	6100.0 U	390.0 U
bis(2-Ethylhexyl)Phthalate	5000.0	82000.0 U	170.0 J	28000.0	8800.0 U	13000.0 U	2100.0 U	6100.0 U	550.0
Di-n-Octyl Phthalate	2600.0 U	82000.0 U	270.0 U	21000.0 U	8800.0 U	13000.0 U	2100.0 U	6100.0 U	390.0 UJ
Benzo(b)Fluoranthene	3000.0	82000.0 U	270.0 U	8600.0 J	4500.0 J	13000.0 U	2100.0 U	6100.0 U	390.0 UJ
Benzo(k)Fluoranthene	2600.0 U	82000.0 U	270.0 U	21000.0 U	8800.0 U	13000.0 U	2100.0 U	6100.0 U	390.0 UJ
Benzo(a)Pyrene	1700.0 J	82000.0 U	270.0 U	4800.0 J	8800.0 U	13000.0 U	2100.0 U	6100.0 U	390.0 UJ
Indeno(1,2,3-cd)Pyrene	820.0 J	82000.0 U	270.0 U	2500.0 J	2800.0 J	13000.0 U	2100.0 U	6100.0 U	390.0 UJ
Dibenz(a,h)Anthracene	2600.0 U	82000.0 U	270.0 U	21000.0 U	8800.0 U	13000.0 U	2100.0 U	6100.0 U	390.0 UJ
Benzo(g,h,i)Perylene	750.0 J	82000.0 U	270.0 U	3200.0 J	8800.0 U	13000.0 U	2100.0 U	6100.0 U	390.0 UJ

FOOTNOTES :
ug/l (micrograms per liter) = ug/kg (micrograms per kilogram) = ppb (parts per billion).
J is a data qualifier indicating estimated values (appendix A).
R = Analyte was rejected due to QA/QC.
B = Indicates the analyte was found in the blank. Indicates possible blank contamination.
U = Indicates element was analyzed for but not detected. The number shown is the detection limit.
E = Estimated value due to exceedance of linear calibration range.
D = Analyte detected at a dilution.
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PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE (contd)

SEMI-VOLATILES 2

07/27/90

	CONCENTRATIONS in ug/l or ug/kg						
SAMPLE NUMBER -	DR-42-01	DR-42-01D	DR-42-02	DR-43-01	DR-45-01	DR-46-01	DR-47-01
SEMI-VOLATILES 2							
3-Nitroaniline	9100.0 U	18000.0 U	1900.0 U	2500.0 U	1900.0 U	1900.0 U	2500.0 U
Acenaphthene	1900.0 U	3700.0 U	390.0 U	500.0 U	370.0 U	380.0 U	510.0 U
2,4-Dinitrophenol	9100.0 U	18000.0 U	1900.0 U	2500.0 U	1900.0 U	1900.0 U	2500.0 U
4-Nitrophenol	9100.0 U	18000.0 U	1900.0 U	2500.0 U	1900.0 U	1900.0 U	2500.0 U
Dibenzofuran	49000.0 D	49000.0	220.0 J	500.0 U	370.0 U	380.0 U	510.0 U
2,4-Dinitrotoluene	1900.0 U	3700.0 U	390.0 U	500.0 U	370.0 U	380.0 U	510.0 U
Diethylphthalate	1900.0 U	3700.0 U	390.0 U	500.0 U	370.0 U	380.0 U	510.0 U
4-Chlorophenyl-phenylether	1900.0 U	3700.0 U	390.0 U	500.0 U	370.0 U	380.0 U	510.0 U
Fluorene	1900.0 U	3700.0 U	390.0 U	500.0 U	370.0 U	380.0 U	510.0 U
4-Nitroaniline	9100.0 U	18000.0 U	1900.0 U	2500.0 U	1900.0 U	1900.0 U	2500.0 U
4,6-Dinitro-2-Methylphenol	9100.0 U	18000.0 U	1900.0 U	2500.0 U	1900.0 U	1900.0 U	2500.0 U
N-Nitrosodiphenylamine (1)	1900.0 U	3700.0 U	390.0 U	500.0 U	370.0 U	380.0 U	510.0 U
4-Bromophenyl-phenylether	1900.0 U	3700.0 U	390.0 U	500.0 U	370.0 U	380.0 U	510.0 U
Hexachlorobenzene	1900.0 U	3700.0 U	390.0 U	500.0 U	370.0 U	380.0 U	510.0 U
Pentachlorophenol	9100.0 U	18000.0 U	1900.0 U	2500.0 U	1900.0 U	1900.0 U	2500.0 U
Phenanthrene	1900.0 U	3700.0 U	390.0 U	500.0 U	370.0 U	380.0 U	510.0 U
Anthracene	1900.0 U	3700.0 U	390.0 U	500.0 U	370.0 U	380.0 U	510.0 U
Di-n-Butylphthalate	1900.0 U	3700.0 U	390.0 U	500.0 U	370.0 U	380.0 U	510.0 U
Fluoranthene	1900.0 U	3700.0 U	390.0 U	500.0 U	370.0 U	380.0 U	510.0 U
Pyrene	1900.0 U	3700.0 U	390.0 U	500.0 U	370.0 U	380.0 U	510.0 U
Butylbenzylphthalate	1900.0 U	3700.0 U	390.0 U	500.0 U	370.0 U	380.0 U	510.0 U
3,3'-Dichlorobenzidine	3700.0 U	7500.0 U	780.0 U	1000.0 U	740.0 U	770.0 U	1000.0 U
Benzo(a)Anthracene	1900.0 U	3700.0 U	390.0 U	500.0 U	370.0 U	380.0 U	510.0 U
Chrysene	1900.0 U	3700.0 U	390.0 U	500.0 U	370.0 U	380.0 U	510.0 U
bis(2-Ethylhexyl)Phthalate	1900.0 U	3700.0 U	120.0 J	360.0 J	260.0 J	380.0 U	510.0 U
Di-n-Octyl Phthalate	1900.0 U	3700.0 U	390.0 U	500.0 UJ	370.0 U	380.0 U	510.0 U
Benzo(b)Fluoranthene	1900.0 U	3700.0 U	390.0 U	500.0 UJ	370.0 U	380.0 U	510.0 U
Benzo(k)Fluoranthene	1900.0 U	3700.0 U	390.0 U	500.0 UJ	370.0 U	380.0 U	510.0 U
Benzo(a)Pyrene	1900.0 U	3700.0 U	390.0 U	500.0 UJ	370.0 U	380.0 U	510.0 U
Indeno(1,2,3-cd)Pyrene	1900.0 U	3700.0 U	390.0 U	500.0 UJ	370.0 U	380.0 U	510.0 U
Dibenz(a,h)Anthracene	1900.0 U	3700.0 U	390.0 U	500.0 UJ	370.0 U	380.0 U	510.0 U
Benzo(g,h,i)Perylene	1900.0 U	3700.0 U	390.0 U	500.0 UJ	370.0 U	380.0 U	510.0 U

FOOTNOTES :

ug/l (micrograms per liter) = ug/kg (micrograms per kilogram) = ppb (parts per billion).
J is a data qualifier indicating estimated values (appendix A).
R = Analyte was rejected due to QA/QC.
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E = Estimated value due to exceedance of linear calibration range.
D = Analyte detected at a dilution.
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PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE

PESTICIDES/PCBs

07/27/90

SAMPLE NUMBER -	CONCENTRATIONS in ug/l or ug/kg								
	DR-01-01	DR-02-01	DR-03-01	DR-04-01	DR-04-01D	DR-05-01	DR-06-01	DR-07-01	DR-08-01
PESTICIDES/PCBs									
alpha-BHC	61.0 U	120.0 U	200.0 U	110.0 U	1100.0 U	190.0 U	78.0 U	1800.0 U	130.0 U
beta-BHC	61.0 U	120.0 U	200.0 U	110.0 U	1100.0 U	190.0 U	78.0 U	1800.0 U	130.0 U
delta-BHC	61.0 U	120.0 U	200.0 U	110.0 U	1100.0 U	190.0 U	78.0 U	1800.0 U	130.0 U
gamma-BHC (Lindane)	61.0 U	120.0 U	200.0 U	110.0 U	1100.0 U	190.0 U	78.0 U	1800.0 U	1700.0
Heptachlor	61.0 U	120.0 U	200.0 U	110.0 U	1100.0 U	190.0 U	78.0 U	1800.0 U	130.0 U
Aldrin	61.0 U	120.0 U	200.0 U	110.0 U	1100.0 U	190.0 U	78.0 U	1800.0 U	130.0 U
Heptachlor epoxide	61.0 U	120.0 U	200.0 U	110.0 U	1100.0 U	190.0 U	78.0 U	1800.0 U	130.0 U
Endosulfan I	61.0 U	120.0 U	200.0 U	110.0 U	1100.0 U	190.0 U	78.0 U	1800.0 U	130.0 U
Dieldrin	120.0 U	240.0 U	390.0 U	230.0 U	2300.0 U	380.0 U	160.0 U	3600.0 U	260.0 U
4,4'-DDE	120.0 U	240.0 U	390.0 U	230.0 U	2300.0 U	380.0 U	160.0 U	3600.0 U	260.0 U
Endrin	120.0 U	240.0 U	390.0 U	230.0 U	2300.0 U	380.0 U	160.0 U	3600.0 U	260.0 U
Endosulfan II	120.0 U	240.0 U	390.0 U	230.0 U	2300.0 U	380.0 U	160.0 U	3600.0 U	260.0 U
4,4'-DDD	120.0 U	240.0 U	390.0 U	230.0 U	2300.0 U	380.0 U	160.0 U	3600.0 U	260.0 U
Endosulfan sulfate	120.0 U	240.0 U	390.0 U	230.0 U	2300.0 U	380.0 U	160.0 U	3600.0 U	260.0 U
4,4'-DDT	120.0 U	240.0 U	390.0 U	230.0 U	2300.0 U	380.0 U	160.0 U	3600.0 U	260.0 U
Methoxychlor	610.0 U	1200.0 U	2000.0 U	1100.0 U	11000.0 U	1900.0 U	780.0 U	18000.0 U	1300.0 U
Endrin ketone	120.0 U	240.0 U	390.0 U	230.0 U	2300.0 U	380.0 U	160.0 U	3600.0 U	260.0 U
alpha-Chlordane	610.0 U	1200.0 U	2000.0 U	1100.0 U	11000.0 U	1900.0 U	780.0 U	18000.0 U	1300.0 U
gamma-Chlordane	610.0 U	1200.0 U	2000.0 U	1100.0 U	11000.0 U	1900.0 U	780.0 U	18000.0 U	1300.0 U
Toxaphene	1200.0 U	2400.0 U	3900.0 U	2300.0 U	23000.0 U	3800.0 U	1600.0 U	36000.0 U	2600.0 U
Aroclor-1016	610.0 U	1200.0 U	2000.0 U	1100.0 U	11000.0 U	1900.0 U	780.0 U	18000.0 U	1300.0 U
Aroclor-1221	610.0 U	1200.0 U	2000.0 U	1100.0 U	11000.0 U	1900.0 U	780.0 U	18000.0 U	1300.0 U
Aroclor-1232	610.0 U	1200.0 U	2000.0 U	1100.0 U	11000.0 U	1900.0 U	780.0 U	18000.0 U	1300.0 U
Aroclor-1242	610.0 U	1200.0 U	2000.0 U	1100.0 U	11000.0 U	1900.0 U	780.0 U	9600000.0 D	1300.0 U
Aroclor-1248	610.0 U	1200.0 U	2000.0 U	1100.0 U	11000.0 U	1900.0 U	780.0 U	18000.0 U	1300.0 U
Aroclor-1254	1200.0 U	2400.0 U	3900.0 U	2300.0 U	23000.0 U	3800.0 U	1600.0 U	420000.0 D	2600.0 U
Aroclor-1260	1200.0 U	2400.0 U	3900.0 U	2300.0 U	23000.0 U	3800.0 U	1600.0 U	36000.0 U	2600.0 U

FOOTNOTES :
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E = Estimated value due to exceedance of linear calibration range.
D = Analyte detected at a dilution.
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PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE (contd)

PESTICIDES/PCBs

07/27/90

SAMPLE NUMBER -	CONCENTRATIONS in ug/l or ug/kg								
	DR-09-01	DR-10-01	DR-10-01D	DR-11-01	DR-13-01	DR-13-01D	DR-16-01	DR-18-01	DR-19-01D
PESTICIDES/PCBs									
alpha-BHC	1800.0 U	150.0 U	770.0 U	680.0 J	12000.0 U	60000.0 U	R	2300.0 U	11000.0 U
beta-BHC	1800.0 U	150.0 U	770.0 U	1700.0 U	12000.0 U	60000.0 U	R	2300.0 U	11000.0 U
delta-BHC	1800.0 U	150.0 U	770.0 U	1700.0 U	12000.0 U	60000.0 U	R	2300.0 U	11000.0 U
gamma-BHC (Lindane)	1800.0 U	150.0 U	770.0 U	1700.0 U	12000.0 U	60000.0 U	R	2300.0 U	11000.0 U
Heptachlor	1800.0 U	150.0 U	770.0 U	1700.0 U	12000.0 U	60000.0 U	R	2300.0 U	1900.0 DJ
Aldrin	1800.0 U	150.0 U	770.0 U	1700.0 U	12000.0 U	60000.0 U	R	2300.0 U	11000.0 U
Heptachlor epoxide	1800.0 U	150.0 U	770.0 U	1700.0 U	12000.0 U	60000.0 U	R	2300.0 U	11000.0 U
Endosulfan I	1800.0 U	150.0 U	770.0 U	1700.0 U	12000.0 U	60000.0 U	R	2300.0 U	11000.0 U
Dieldrin	3600.0 U	310.0 U	1500.0 U	1700.0 J	24000.0 U	120000.0 U	2200.0 UJ	4600.0 U	23000.0 U
4,4'-DDE	3600.0 U	310.0 U	1500.0 U	3400.0 U	24000.0 U	120000.0 U	2200.0 UJ	4600.0 U	23000.0 U
Endrin	3600.0 U	310.0 U	1500.0 U	710.0 J	24000.0 U	120000.0 U	2200.0 UJ	4600.0 U	23000.0 U
Endosulfan II	3600.0 U	310.0 U	1500.0 U	3400.0 U	24000.0 U	120000.0 U	2200.0 UJ	4600.0 U	23000.0 U
4,4'-DDD	3600.0 U	310.0 U	1500.0 U	3400.0 U	24000.0 U	120000.0 U	2200.0 UJ	4600.0 U	23000.0 U
Endosulfan sulfate	3600.0 U	310.0 U	1500.0 U	3400.0 U	24000.0 U	120000.0 U	2200.0 UJ	4600.0 U	23000.0 U
4,4'-DDT	3600.0 U	310.0 U	1500.0 U	3400.0 U	24000.0 U	120000.0 U	2200.0 UJ	4600.0 U	23000.0 U
Methoxychlor	18000.0 U	1500.0 U	7700.0 U	17000.0 U	120000.0 U	600000.0 U	11000.0 UJ	23000.0 U	110000.0 U
Endrin ketone	3600.0 U	310.0 U	1500.0 U	3400.0 U	24000.0 U	120000.0 U	2200.0 UJ	4600.0 U	23000.0 U
alpha-Chlordane	18000.0 U	1500.0 U	7700.0 U	17000.0 U	120000.0 U	600000.0 U	11000.0 UJ	23000.0 U	110000.0 U
gamma-Chlordane	18000.0 U	1500.0 U	7700.0 U	17000.0 U	120000.0 U	600000.0 U	11000.0 UJ	23000.0 U	110000.0 U
Toxaphene	36000.0 U	3100.0 U	15000.0 U	34000.0 U	240000.0 U	1200000.0 U	22000.0 UJ	46000.0 U	230000.0 U
Aroclor-1016	18000.0 U	1500.0 U	7700.0 U	17000.0 U	120000.0 U	600000.0 U	11000.0 UJ	23000.0 U	110000.0 U
Aroclor-1221	18000.0 U	1500.0 U	7700.0 U	17000.0 U	120000.0 U	600000.0 U	R	23000.0 U	110000.0 U
Aroclor-1232	18000.0 U	1500.0 U	7700.0 U	17000.0 U	120000.0 U	600000.0 U	R	23000.0 U	110000.0 U
Aroclor-1242	18000.0 U	1500.0 U	7700.0 U	17000.0 U	120000.0 U	600000.0 U	11000.0 UJ	23000.0 U	110000.0 U
Aroclor-1248	18000.0 U	1500.0 U	7700.0 U	17000.0 U	120000.0 U	600000.0 U	11000.0 UJ	23000.0 U	110000.0 U
Aroclor-1254	36000.0 U	3100.0 U	15000.0 U	34000.0 U	240000.0 U	1200000.0 U	22000.0 UJ	46000.0 U	230000.0 U
Aroclor-1260	36000.0 U	3100.0 U	15000.0 U	31000.0 J	240000.0 U	1200000.0 U	22000.0 UJ	46000.0 U	230000.0 U

FOOTNOTES :
ug/l (micrograms per liter) = ug/kg (micrograms per kilogram) = ppb (parts per billion).
J is a data qualifier indicating estimated values (appendix A).
R = Analyte was rejected due to QA/QC.
B = Indicates the analyte was found in the blank. Indicates possible blank contamination.
U = Indicates element was analyzed for but not detected. The number shown is the detection limit.
E = Estimated value due to exceedance of linear calibration range.
D = Analyte detected at a dilution.
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PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE (contd)

PESTICIDES/PCBs

'/27/90

SAMPLE NUMBER -	CONCENTRATIONS in ug/l or ug/kg																	
	DR-19-02		DR-19-02D		DR-20-01		DR-22-01		DR-22-01D		DR-24-01BDUP		DR-24-01D		DR-26-01		DR-26-01DUP	
PESTICIDES/PCBs																		
ılpha-BHC	430000.0	D	430000.0	D	240.0	U	1500.0	U	15000.0	U	1500.0	U	1500.0	U	R		62.0	U
ɔeta-BHC	2300.0	U	12000.0	U	240.0	U	1500.0	U	15000.0	U	1500.0	U	1500.0	U	R		62.0	U
ielta-BHC	2300.0	U	12000.0	U	240.0	U	1500.0	U	15000.0	U	1500.0	U	1500.0	U	R		62.0	U
jamma-BHC (Lindane)	69000.0	D	69000.0	D	240.0	U	1500.0	U	15000.0	U	1500.0	U	1500.0	U	R		62.0	U
ieptachlor	2300.0	U	12000.0	U	240.0	U	1500.0	U	15000.0	U	1500.0	U	1500.0	U	R		62.0	U
ıldrin	2300.0	U	12000.0	U	240.0	U	1500.0	U	15000.0	U	1500.0	U	1500.0	U	R		62.0	U
ieptachlor epoxide	2300.0	U	12000.0	U	240.0	U	1500.0	U	15000.0	U	1500.0	U	1500.0	U	R		62.0	U
:ndosulfan I	2300.0	U	12000.0	U	240.0	U	1500.0	U	15000.0	U	1500.0	U	1500.0	U	R		62.0	U
)ieldrin	4600.0	U	23000.0	U	470.0	U	3000.0	U	30000.0	U	3000.0	U	3000.0	U	R		120.0	U
4,4'-DDE	4600.0	U	23000.0	U	470.0	U	3000.0	U	30000.0	U	3000.0	U	3000.0	U	R		120.0	U
Endrin	4600.0	U	23000.0	U	470.0	U	3000.0	U	30000.0	U	3000.0	U	3000.0	U	R		120.0	U
Endosulfan II	4600.0	U	23000.0	U	470.0	U	3000.0	U	30000.0	U	3000.0	U	3000.0	U	R		120.0	U
4,4'-DDD	4600.0	U	23000.0	U	470.0	U	3000.0	U	30000.0	U	3000.0	U	3000.0	U	R		120.0	U
Endosulfan sulfate	4600.0	U	23000.0	U	470.0	U	3000.0	U	30000.0	U	3000.0	U	3000.0	U	R		120.0	U
4,4'-DDT	4600.0	U	23000.0	U	470.0	U	3000.0	U	30000.0	U	3000.0	U	3000.0	U	R		120.0	U
Methoxychlor	23000.0	U	120000.0	U	2400.0	U	15000.0	U	150000.0	U	14000.0	DJ	14000.0	DJ	R		620.0	U
Endrin ketone	4600.0	U	23000.0	U	470.0	U	3000.0	U	30000.0	U	3000.0	U	3000.0	U	R		120.0	U
alpha-Chlordane	23000.0	U	120000.0	U	2400.0	U	15000.0	U	150000.0	U	15000.0	U	15000.0	U	R		620.0	U
gamma-Chlordane	23000.0	U	120000.0	U	2400.0	U	15000.0	U	150000.0	U	15000.0	U	15000.0	U	R		620.0	U
Toxaphene	46000.0	U	230000.0	U	4700.0	U	30000.0	U	300000.0	U	30000.0	U	30000.0	U	R		1200.0	U
Aroclor-1016	23000.0	U	120000.0	U	2400.0	U	15000.0	U	150000.0	U	15000.0	U	15000.0	U	R		620.0	U
Aroclor-1221	23000.0	U	120000.0	U	2400.0	U	15000.0	U	150000.0	U	15000.0	U	15000.0	U	R		620.0	U
Aroclor-1232	23000.0	U	120000.0	U	2400.0	U	15000.0	U	150000.0	U	15000.0	U	15000.0	U	R		620.0	U
Aroclor-1242	23000.0	U	120000.0	U	2400.0	U	15000.0	U	150000.0	U	15000.0	U	15000.0	U	R		620.0	U
Aroclor-1248	23000.0	U	120000.0	U	2400.0	U	15000.0	U	150000.0	U	15000.0	U	15000.0	U	R		620.0	U
Aroclor-1254	46000.0	U	230000.0	U	4700.0	U	30000.0	U	300000.0	U	30000.0	U	30000.0	U	R		1200.0	U
Aroclor-1260	46000.0	U	230000.0	U	4700.0	U	30000.0	U	300000.0	U	30000.0	U	30000.0	U	R		1200.0	U

FOOTNOTES :

ıg/l (micrograms per liter) = ug/kg (micrograms per kilogram) = ppb (parts per billion).
I is a data qualifier indicating estimated values (appendix A).
! = Analyte was rejected due to QA/QC.
) = Indicates the analyte was found in the blank. Indicates possible blank contamination.
J = Indicates element was analyzed for but not detected. The number shown is the detection limit.
: = Estimated value due to exceedance of linear calibration range.
) = Analyte detected at a dilution.

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE (contd)

PESTICIDES/PCBs

07/27/90

SAMPLE NUMBER -	DR-26-01D	DR-28-01	DR-29-01	DR-32-01	DR-33-01	DR-34-01	DR-35-01	DR-35-01D	DR-36-01
	CONCENTRATIONS in ug/l or ug/kg								
PESTICIDES/PCBs									
alpha-BHC	R	R	100.0 U	5000.0 U	54.0 U	200.0 U	27.0 U	130.0 U	150.0 U
beta-BHC	R	R	100.0 U	5000.0 U	54.0 U	200.0 U	27.0 U	130.0 U	150.0 U
delta-BHC	R	R	100.0 U	5000.0 U	54.0 U	200.0 U	27.0 U	130.0 U	150.0 U
gamma-BHC (Lindane)	R	R	100.0 U	5000.0 U	54.0 U	200.0 U	27.0 U	130.0 U	150.0 U
Heptachlor	R	R	100.0 U	5000.0 U	54.0 U	200.0 U	27.0 U	130.0 U	150.0 U
Aldrin	110.0 DJ	R	100.0 U	5000.0 U	54.0 U	200.0 U	27.0 U	130.0 U	150.0 U
Heptachlor epoxide	R	R	100.0 U	5000.0 U	54.0 U	200.0 U	27.0 U	130.0 U	150.0 U
Endosulfan I	R	R	100.0 U	5000.0 U	54.0 U	200.0 U	27.0 U	130.0 U	150.0 U
Dieldrin	R	R	210.0 U	10000.0 U	110.0 U	400.0 U	53.0 U	270.0 U	300.0 U
4,4'-DDE	R	R	210.0 U	10000.0 U	110.0 U	400.0 U	53.0 U	270.0 U	300.0 U
Endrin	R	R	210.0 U	10000.0 U	110.0 U	400.0 U	53.0 U	270.0 U	300.0 U
Endosulfan II	R	R	210.0 U	10000.0 U	110.0 U	400.0 U	53.0 U	270.0 U	300.0 U
4,4'-DDD	R	R	210.0 U	10000.0 U	110.0 U	400.0 U	53.0 U	270.0 U	300.0 U
Endosulfan sulfate	R	R	210.0 U	10000.0 U	110.0 U	400.0 U	53.0 U	270.0 U	300.0 U
4,4'-DDT	R	R	210.0 U	10000.0 U	110.0 U	400.0 U	53.0 U	270.0 U	300.0 U
Methoxychlor	R	R	1000.0 U	50000.0 U	540.0 U	2000.0 U	270.0 U	1300.0 U	1500.0 U
Endrin ketone	R	R	210.0 U	10000.0 U	110.0 U	400.0 U	53.0 U	270.0 U	300.0 U
alpha-Chlordane	R	R	1000.0 U	50000.0 U	540.0 U	2000.0 U	270.0 U	1300.0 U	1500.0 U
gamma-Chlordane	R	R	1000.0 U	50000.0 U	540.0 U	2000.0 U	270.0 U	1300.0 U	1500.0 U
Toxaphene	R	R	2100.0 U	100000.0 U	1100.0 U	4000.0 U	530.0 U	2700.0 U	3000.0 U
Aroclor-1016	R	R	1000.0 U	50000.0 U	540.0 U	2000.0 U	270.0 U	1300.0 U	1500.0 U
Aroclor-1221	R	R	1000.0 U	50000.0 U	540.0 U	2000.0 U	270.0 U	1300.0 U	1500.0 U
Aroclor-1232	R	R	1000.0 U	50000.0 U	540.0 U	2000.0 U	270.0 U	1300.0 U	1500.0 U
Aroclor-1242	R	R	1000.0 U	50000.0 U	540.0 U	13000.0	270.0 U	1300.0 U	1500.0 U
Aroclor-1248	R	R	1000.0 U	50000.0 U	540.0 U	2000.0 U	270.0 U	1300.0 U	1500.0 U
Aroclor-1254	R	R	8700.0	100000.0 U	1100.0 U	4000.0 U	530.0 U	2700.0 U	3000.0 U
Aroclor-1260	R	R	2100.0 U	100000.0 U	1100.0 U	4000.0 U	530.0 U	2700.0 U	3000.0 U

FOOTNOTES :
ug/l (micrograms per liter) = ug/kg (micrograms per kilogram) = ppb (parts per billion).
J is a data qualifier indicating estimated values (appendix A).
R = Analyte was rejected due to QA/QC.
B = Indicates the analyte was found in the blank. Indicates possible blank contamination.
U = Indicates element was analyzed for but not detected. The number shown is the detection limit.
E = Estimated value due to exceedance of linear calibration range.
D = Analyte detected at a dilution.

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE (contd)

PESTICIDES/PCBs

07/27/90

	CONCENTRATIONS in ug/l or ug/kg								
SAMPLE NUMBER -	DR-39-01	DR-41-01	DR-41-02	DR-42-01	DR-42-02	DR-43-01	DR-45-01	DR-46-01	DR-47-01
PESTICIDES/PCBs									
alpha-BHC	120.0 U	710.0 U	9.5 U	2100.0 U	9.4 U	9.0 U	9.0 U	9.3 U	12.0 U
beta-BHC	120.0 U	710.0 U	9.5 U	2100.0 U	9.4 U	9.0 U	9.0 U	9.3 U	12.0 U
delta-BHC	120.0 U	710.0 U	9.5 U	2100.0 U	9.4 U	9.0 U	9.0 U	9.3 U	12.0 U
gamma-BHC (Lindane)	2300.0	710.0 U	9.5 U	2100.0 U	9.4 U	9.0 U	9.0 U	9.3 U	12.0 U
Heptachlor	120.0 U	710.0 U	9.5 U	2100.0 U	9.4 U	9.0 U	9.0 U	9.3 U	12.0 U
Aldrin	120.0 U	710.0 U	9.5 U	2100.0 U	9.4 U	9.0 U	9.0 U	9.3 U	12.0 U
Heptachlor epoxide	120.0 U	710.0 U	9.5 U	1200.0 J	9.4 U	9.0 U	9.0 U	9.3 U	12.0 U
Endosulfan I	120.0 U	710.0 U	9.5 U	2100.0 U	9.4 U	9.0 U	9.0 U	9.3 U	12.0 U
Dieldrin	250.0 U	1400.0 U	19.0 U	4300.0 U	19.0 U	18.0 U	18.0 U	19.0 U	25.0 U
4,4'-DDE	250.0 U	1400.0 U	19.0 U	4300.0 U	19.0 U	18.0 U	18.0 U	19.0 U	25.0 U
Endrin	250.0 U	1400.0 U	19.0 U	4300.0 U	19.0 U	18.0 U	18.0 U	19.0 U	25.0 U
Endosulfan II	250.0 U	1400.0 U	19.0 U	4300.0 U	19.0 U	18.0 U	18.0 U	19.0 U	25.0 U
4,4'-DDD	250.0 U	1400.0 U	19.0 U	4300.0 U	19.0 U	18.0 U	18.0 U	19.0 U	25.0 U
Endosulfan sulfate	250.0 U	1400.0 U	19.0 U	4300.0 U	19.0 U	18.0 U	18.0 U	19.0 U	25.0 U
4,4'-DDT	250.0 U	1400.0 U	19.0 U	4300.0 U	19.0 U	18.0 U	18.0 U	19.0 U	25.0 U
Methoxychlor	1200.0 U	7100.0 U	95.0 U	21000.0 U	94.0 U	90.0 U	90.0 U	93.0 U	120.0 U
Endrin ketone	250.0 U	1400.0 U	19.0 U	4300.0 U	19.0 U	18.0 U	18.0 U	19.0 U	25.0 U
alpha-Chlordane	1200.0 U	7100.0 U	95.0 U	21000.0 U	94.0 U	90.0 U	90.0 U	93.0 U	120.0 U
gamma-Chlordane	1200.0 U	7100.0 U	95.0 U	21000.0 U	94.0 U	90.0 U	90.0 U	93.0 U	120.0 U
Toxaphene	2500.0 U	14000.0 U	190.0 U	43000.0 U	190.0 U	180.0 U	180.0 U	190.0 U	250.0 U
Aroclor-1016	1200.0 U	7100.0 U	95.0 U	21000.0 U	94.0 U	90.0 U	90.0 U	93.0 U	120.0 U
Aroclor-1221	1200.0 U	7100.0 U	95.0 U	21000.0 U	94.0 U	90.0 U	90.0 U	93.0 U	120.0 U
Aroclor-1232	1200.0 U	7100.0 U	95.0 U	21000.0 U	94.0 U	90.0 U	90.0 U	93.0 U	120.0 U
Aroclor-1242	1200.0 U	7100.0 U	95.0 U	21000.0 U	94.0 U	90.0 U	90.0 U	93.0 U	7500.0
Aroclor-1248	1200.0 U	7100.0 U	95.0 U	21000.0 U	94.0 U	90.0 U	90.0 U	93.0 U	120.0 U
Aroclor-1254	2500.0 U	14000.0 U	190.0 U	43000.0 U	190.0 U	180.0 U	180.0 U	190.0 U	250.0 U
Aroclor-1260	2500.0 U	14000.0 U	190.0 U	43000.0 U	190.0 U	180.0 U	180.0 U	190.0 U	250.0 U

FOOTNOTES :
ug/l (micrograms per liter) = ug/kg (micrograms per kilogram) = ppb (parts per billion).
J is a data qualifier indicating estimated values (appendix A).
R = Analyte was rejected due to QA/QC.
B = Indicates the analyte was found in the blank. Indicates possible blank contamination.
U = Indicates element was analyzed for but not detected. The number shown is the detection limit.
E = Estimated value due to exceedance of linear calibration range.
D = Analyte detected at a dilution.
→

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE

INORGANICS

07/27/90

SAMPLE NUMBER -	CONCENTRATIONS in mg/kg								
	DR-01-01	DR-02-01	DR-03-01	DR-04-01	DR-05-01	DR-06-01	DR-07-01	DR-08-01	DR-09-01
INORGANICS									
ALUMINUM	598.00	8630.00	4.70 U	1280.00	6450.00 J	2820.00	10300.00 J	18.60 B	242.00
ANTIMONY	19.40 U	21.20 U	11.50 U	14.20 UJ	18.90 U	11.90 U	31.20 UJ	10.30 U	13.90 U
ARSENIC	2.70 B	29.40	0.45 U	575.00 J	5.80	2.50	72.00 J	0.40 U	0.97 U
BARIUM	23.40 B	408.00	0.64 B	257.00	142.00	155.00	620.00 J	0.57 B	11.70 B
BERYLLIUM	0.38 U	1.60 B	0.23 U	0.28 U	0.73 B	0.23 U	1.80 BJ	0.20 U	0.03 U
CADMIUM	4.00	2.50	1.30	39.40	22.50	5.40	16.30 J	2.20	2.30
CALCIUM	2660.00	21800.00	366.00 B	6470.00 J	R	8660.00	4860.00 J	110.00 B	1180.00 B
CHROMIUM	18.30	16.90	1.00 B	129.00	28.20	62.90	248.00 J	27.90	3.60
COBALT	2.40 B	10.80 B	1.10 U	43.00	12.40 B	7.10 B	65.20 J	1.00 U	1.10 UJ
COPPER	29400.00	35.20	1.90 B	114.00	489.00 J	145.00	387.00 J	29.50	14.80 J
IRON	29600.00	39500.00	3070.00	23100.00	24100.00	81600.00	122000.00 J	1480.00	2660.00
LEAD	161.00	41.20	0.54 B	1100.00 J	270.00 J	182.00	315.00 J	2.80	25.40
MAGNESIUM	747.00 B	805.00 B	9.30 B	48300.00	929.00 B	844.00 B	1610.00 BJ	19.70 B	135.00 B
MANGANESE	169.00	136.00	15.00	676.00	198.00	379.00	722.00 J	8.20	18.70 J
MERCURY	0.19 U	0.86	0.11 U	0.36	0.38	0.53	1.40 J	0.10 U	0.14
NICKEL	9.80 B	30.20	5.20 U	565.00	39.00	52.20	312.00 J	35.00	4.10 B
POTASSIUM	33000.00	1800.00 B	75.10 U	120.00 B	896.00 B	453.00 B	1300.00 BJ	67.30 U	175.00 U
SELENIUM	0.76 U	5.80	2.30 U	0.56 U	28.00 J	0.47 U	8.00 J	2.00 U	0.55 U
SILVER	1.10 U	1.20 U	0.68 U	0.92 B	2.70 B	3.10	2.30 BJ	0.61 U	0.73 U
SODIUM	1080.00 B	405.00 B	52.00 B	88.80 B	314.00 B	6760.00	515.00 BJ	7260.00	46.70 B
THALLIUM	1.10 U	1.20 B	0.68 U	0.28 U	0.74 U	0.70 U	1.90 BJ	0.61 U	0.73 U
VANADIUM	1.50 U	43.10	0.90 U	3.50 B	26.20	0.94 U	52.30 J	0.81 U	0.84 U
ZINC	89.50 J	49.50 J	19.90 J	34800.00	323.00	988.00 J	2760.00 J	17.60 J	4460.00
CYANIDE	1.90	1.00 U	0.56 U	2.40 J	0.93 U	0.58 U	4.00 J	0.51 U	0.65 UJ

FOOTNOTES :
ug/kg (micrograms per kilogram) = ppb (parts per billion).
Units for inorganic results are mg/kg (milligrams per kilogram).
J is a data qualifier indicating estimated values (appendix A).
R = Analyte was rejected due to QA/QC.
B = For organics, analyte was detected in the method blank.
B = For inorganics, analyte value is between the contract required detection limit (CRDL) and the instrument detection limit (IDL).
U = Indicates element was analyzed for but not detected. The number shown is the detection limit.
D = Denotes analyte quantified at a secondary dilution factor.
E = Estimated value due to excedence of linear calibration range.

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE (contd)

INORGANICS

7/27/90

SAMPLE NUMBER -	CONCENTRATIONS in mg/kg								
	DR-10-01	DR-11-01	DR-13-01	DR-16-01	DR-18-01	DR-18-01D	DR-19-01	DR-19-02	DR-20-01
INORGANICS									
ALUMINUM	43.30 B	2130.00	48.00 BJ	1020.00	27200.00 J	24590.63	489.00	611.00	127.00
ANTIMONY	11.00 U	13.90 U	13.80 U	16.70 UJ	21.60 UJ	21.62 U	14.50 U	19.00 U	14.10 U
ARSENIC	0.43 U	25.10	0.54 U	6.70	0.77 UJ	0.77 U	1.00 B	1.60 B	0.72 B
BARIUM	3.90 B	267.00	6.70 B	12500.00	50.90 BJ	32.71 B	19.60 B	33.70 B	4.80 B
BERYLLIUM	0.22 U	0.28 B	0.27 U	2.30	0.04 UJ	0.04 U	0.03 U	0.04 U	0.28 U
CADMIUM	2.60	14.20	1.10 U	5.20	2.90 J	2.76	0.99 B	1.70 B	2.70
CALCIUM	80.70 B	11600.00	R	2640.00 J	R	1650.00 B	1170.00 B	3480.00	434.00 B
CHROMIUM	2.20	703.00	1.30 B	18100.00	3.00 BJ	3.14 B	117.00	56.90	16.10
COBALT	1.10 U	149.00 J	1.30 U	74.70	378.00 J	335.67	8.00 BJ	13.10 BJ	1.40 U
COPPER	8.90	692.00 J	4.50 BJ	38.60	31.30 J	21.69	69.50 J	92.80 J	43.50
IRON	1340.00	171000.00	901.00	39400.00	R	743.27	5050.00	10100.00	5180.00
LEAD	39.60	387.00 J	8.20 J	36200.00 J	651.00 J	636.20	24.50	109.00 J	11.80
MAGNESIUM	60.30 B	2060.00	28.40 B	8410.00	347.00 BJ	427.49 B	2370.00	235.00 B	47.40 B
MANGANESE	9.00	1400.00 J	6.10	236.00	317.00 J	297.88	34.30 J	80.40 J	41.00
MERCURY	0.11 U	0.14	0.13 U	0.59	0.20 UJ	0.20 U	0.14 U	0.60	0.14 U
NICKEL	5.00 U	445.00	14.30	27.30	4.40 UJ	4.35 U	395.00	168.00	26.50
POTASSIUM	72.10 U	305.00 B	89.90 U	5210.00	274.00 UJ	273.76 U	184.00 U	241.00 U	209.00 B
SELENIUM	0.43 U	39.20	0.54 U	3.30 U	0.86 UJ	0.85 U	0.57 U	0.75 U	0.55 U
SILVER	0.65 U	11.90	0.81 U	0.98 U	1.20 BJ	1.14 U	0.77 U	1.10 B	0.83 U
SODIUM	52.90 B	727.00 B	52.20 B	296.00 B	1980.00 BJ	2086.70	16500.00	10400.00	23800.00
THALLIUM	0.65 U	0.73 U	0.54 U	0.33 B	1.10 UJ	1.14 U	0.77 U	1.00 U	0.83 U
VANADIUM	0.87 U	32.60	106.00	27.40	3.40 BJ	3.38 B	3.20 B	1.10 U	1.10 U
ZINC	16.70 J	3650.00	20.30	35300.00	1260.00 J	892.03	73.20	135.00	19.70 J
CYANIDE	0.54 U	1.40 J	0.67 U	33.40 J	1.00 UJ	1.01 U	0.68 UJ	0.90 UJ	0.69 U

FOOTNOTES :
ug/kg (micrograms per kilogram) = ppb (parts per billion).
Units for inorganic results are mg/kg (milligrams per kilogram).
J is a data qualifier indicating estimated values (appendix A).
R = Analyte was rejected due to QA/QC.
B = For organics, analyte was detected in the method blank.
B = For inorganics, analyte value is between the contract required detection limit (CRDL) and the instrument detection limit (IDL).
U = Indicates element was analyzed for but not detected. The number shown is the detection limit.
D = Denotes analyte quantified at a secondary dilution factor.
E = Estimated value due to excedence of linear calibration range.

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE (contd)

INORGANICS

07/27/90

SAMPLE NUMBER -	CONCENTRATIONS in mg/kg								
	DR-22-01	DR-24-01	DR-24-01BDUP	DR-24-01D	DR-26-01	DR-26-01D	DR-28-01	DR-29-01	DR-32-01
INORGANICS									
ALUMINUM	9.70 U	9.50 U	9.50 U	9.50 U	581.00	1390.00	938.00	9530.00 J	233.00 J
ANTIMONY	11.60 U	11.30 U	11.30 U	11.30 U	14.00 UJ	14.10 UJ	12.10 UJ	13.30 U	12.20 U
ARSENIC	0.41 U	0.40 U	0.40 U	0.40 U	54.50	25.00	8.30	10.80	1.50 B
BARIUM	0.67 B	0.53 B	0.53 B	0.53 B	214.00	39.60 B	195.00	8860.00	21.80 B
BERYLLIUM	0.02 U	0.02 U	0.02 U	0.02 U	1.70	1.80	1.50	0.58 B	0.24 U
CADMIUM	0.78 U	0.76 U	0.77 U	0.77 U	1.10 U	1.10 U	0.95 U	26.40	0.95 U
CALCIUM	48.50 B	R	R	687.00 B	150000.00 J	5500.00 J	12800.00 J	R	R
CHROMIUM	3.30	0.64 U	0.64 U	0.64 U	74.90 J	537.00 J	14.60	204.00	5.10
COBALT	0.91 UJ	0.89 UJ	0.89 UJ	0.89 U	7.30 B	23.20	6.60 B	35.00	3.00 B
COPPER	1.40 B	2.30 B	2.60 B	2.60 B	7.40	391.00	36.40	1650.00 J	18.40 J
IRON	6770.00	R	R	155.00	4240.00 J	465000.00 J	54900.00	68600.00	6830.00
LEAD	1.40	0.42 U	0.43 U	0.43 U	48.50 J	14.60 J	24.70 J	1490.00 J	9.70 J
MAGNESIUM	14.30 B	11.30 B	12.20 B	12.20 B	28900.00 J	720.00 BJ	1850.00	6240.00	96.90 B
MANGANESE	18.50 J	R	R	1.60 B	146.00 J	4490.00 J	491.00	1780.00	33.60
MERCURY	0.11 U	0.11 U	0.11 U	0.11 U	0.14 U	0.14 U	0.12 U	4.40 J	0.12 U
NICKEL	2.30 U	2.30 U	2.30 U	2.30 U	90.40 J	359.00 J	33.70	351.00	90.00
POTASSIUM	146.00 U	142.00 U	143.00 U	143.00 U	208.00 B	157.00 B	274.00 B	781.00 B	79.40 U
SELENIUM	0.46 U	0.44 U	0.45 U	0.45 U	0.55 U	0.55 U	0.47 U	5.30	0.48 U
SILVER	0.61 U	0.59 U	0.60 U	0.60 U	0.83 U	13.50	1.70 B	8.60	0.72 U
SODIUM	61.10 B	58.00 B	63.10 B	63.10 B	287.00 B	164.00 B	136.00 B	196.00 B	8320.00
THALLIUM	0.61 U	0.59 U	0.60 U	0.60 U	0.28 U	0.28 U	0.24 U	0.52 U	0.48 U
VANADIUM	0.70 U	0.68 U	0.68 U	0.68 U	3.80 B	1.10 U	0.95 U	39.40	0.95 U
ZINC	6.40	7.10	8.70	8.70	988.00 J	141.00 J	171.00	3720.00	80.70
CYANIDE	0.54 UJ	0.53 UJ	0.53 J	0.53 U	R	R	1.40 J	10.20	1.40

FOOTNOTES :
ug/kg (micrograms per kilogram) = ppb (parts per billion).
Units for inorganic results are mg/kg (milligrams per kilogram).
J is a data qualifier indicating estimated values (appendix A).
R = Analyte was rejected due to QA/QC.
B = For organics, analyte was detected in the method blank.
B = For inorganics, analyte value is between the contract required detection limit (CRDL) and the instrument detection limit (IDL).
U = Indicates element was analyzed for but not detected. The number shown is the detection limit.
D = Denotes analyte quantified at a secondary dilution factor.
E = Estimated value due to excedence of linear calibration range.

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE (contd)

INORGANICS

07/27/90

	CONCENTRATIONS in mg/kg								
SAMPLE NUMBER -	DR-33-01	DR-34-01	DR-35-01	DR-36-01	DR-39-01	DR-41-01	DR-41-02	DR-42-01	DR-42-02
INORGANICS									
ALUMINUM	108000.00	10100.00 J	483.00 J	86.10	24.00 B	40.80 B	15700.00	126.00	4860.00
ANTIMONY	17.00 UJ	29.80 UJ	17.50 U	11.50 U	10.30 U	11.10 UJ	12.30 UJ	12.20 UJ	12.30 UJ
ARSENIC	9.00 B	31.30 J	1.70 B	0.94 B	0.41 U	0.44 U	6.50	0.48 U	2.20 B
BARIUM	253.00	4910.00 J	770.00	2.20 B	1.90 B	2.20 B	126.00	6.10 B	25.70 B
BERYLLIUM	2.20	0.59 BJ	0.34 U	0.22 U	0.20 U	0.22 U	0.80 B	0.24 U	0.33 B
CADMIUM	1.50 B	28.70 J	5.10	2.10	2.10	0.87 U	0.96 U	0.96 U	0.96 U
CALCIUM	2690.00 J	48100.00 J	R	271.00 B	174.00 B	606.00 BJ	78200.00 J	473.00 BJ	1600.00 J
CHROMIUM	370.00	154.00 J	13.60	8.70	28.00	1.80 B	21.20	2.10 B	8.30
COBALT	15.80 B	144.00 J	7.20 B	1.10 U	1.00 U	1.10 U	11.50 B	1.20 U	4.10 B
COPPER	380.00	297.00 J	25.50 J	43.40	30.50	71.40	22.90	3.30 B	11.00
IRON	228000.00	254000.00 J	1700.00	2830.00	1590.00	2120.00	25400.00	5540.00	8080.00
LEAD	184.00 J	14.20 J	397.00 J	11.60	10.20	7.80	15.00	7.20	6.50
MAGNESIUM	883.00 B	3110.00 J	614.00 B	89.20 B	22.40 B	44.30 B	23800.00	76.50 B	1230.00
MANGANESE	1860.00	1400.00 J	12.60	13.80	9.60	13.00	792.00	61.80	52.10
MERCURY	0.17 U	0.85 J	3.70	0.11 U	0.10 U	0.11 U	0.12 U	0.25	0.12 U
NICKEL	132.00	293.00 J	26.60	7.30 B	33.90	5.00 U	28.80	5.50 U	9.50 B
POTASSIUM	111.00 U	724.00 BJ	493.00 B	82.20 B	67.50 U	72.80 U	3310.00	194.00 B	743.00 B
SELENIUM	0.67 U	8.60 J	0.69 U	0.45 U	2.00 U	0.44 U	0.60 B	0.48 U	0.51 B
SILVER	6.60	8.90 J	1.00 U	0.67 U	0.61 U	0.66 U	0.72 U	0.72 U	0.72 U
SODIUM	77.20 B	669.00 BJ	423.00 B	19500.00	7200.00	29.70 B	433.00 B	1820.00	87.50 B
THALLIUM	0.33 U	1.80 UJ	0.69 U	0.67 U	0.61 U	0.66 U	0.72 U	0.72 U	0.72 U
VANADIUM	1.30 U	6.30 BJ	1.70 B	0.90 U	0.81 U	0.87 U	29.50	0.96 U	16.80
ZINC	155.00	2940.00 J	4820.00	13.10 J	24.50 J	3010.00	77.90	43.80	52.50
CYANIDE	R	2.30 J	0.86 U	0.56 U	0.51 U	0.55 U	0.60 U	0.60 U	0.60 U

FOOTNOTES :
ug/kg (micrograms per kilogram) = ppb (parts per billion).
Units for inorganic results are mg/kg (milligrams per kilogram).
J is a data qualifier indicating estimated values (appendix A).
R = Analyte was rejected due to QA/QC.
B = For organics, analyte was detected in the method blank.
B = For inorganics, analyte value is between the contract required detection limit (CRDL) and the instrument detection limit (IDL).
U = Indicates element was analyzed for but not detected. The number shown is the detection limit.
D = Denotes analyte quantified at a secondary dilution factor.
E = Estimated value due to excedence of linear calibration range.

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE (contd)

INORGANICS

07/27/90

	CONCENTRATIONS in mg/kg			
SAMPLE NUMBER -	DR-43-01	DR-45-01	DR-46-01	DR-47-01
INORGANICS				
ALUMINUM	5360.00	1010.00	15000.00	4210.00
ANTIMONY	16.30 UJ	11.80 UJ	12.10 UJ	16.30 UJ
ARSENIC	1.40 B	6.30	5.10	1.70 B
BARIUM	35.60 B	18.80 B	111.00	31.20 B
BERYLLIUM	0.32 U	0.23 U	0.68 B	0.32 U
CADMIUM	4.50	0.92 U	0.95 U	3.60
CALCIUM	216000.00 J	1390.00 J	88900.00 J	174000.00 J
CHROMIUM	7.20	18.20	19.10	5.50
COBALT	1.60 U	3.30 B	9.20 B	1.60 U
COPPER	14.40	36.10	17.20	14.20
IRON	3790.00	27600.00	19600.00	2830.00
LEAD	18.00	20.50	13.30	16.20
MAGNESIUM	19900.00	286.00 B	23100.00	14700.00
MANGANESE	175.00	109.00	643.00	142.00
MERCURY	0.16 U	0.12 U	0.12 U	0.16 U
NICKEL	7.40 U	19.70	23.70	7.30 U
POTASSIUM	1200.00 B	163.00 B	2960.00	1100.00 B
SELENIUM	0.64 U	0.46 U	0.48 U	3.00
SILVER	0.96 U	1.30 B	0.71 U	0.96 U
SODIUM	432.00 B	45.50 B	252.00 B	365.00 B
THALLIUM	0.96 U	0.69 U	0.71 U	0.96 U
VANADIUM	6.00 B	2.50 B	25.10	5.00 B
ZINC	8440.00	33.70	69.40	6330.00
CYANIDE	1.60 U	0.58 U	1.20 U	1.60 U

FOOTNOTES :
ug/kg (micrograms per kilogram) = ppb (parts per billion).
Units for inorganic results are mg/kg (milligrams per kilogram).
J is a data qualifier indicating estimated values (appendix A).
R = Analyte was rejected due to QA/QC.
B = For organics, analyte was detected in the method blank.
B = For inorganics, analyte value is between the contract required detection limit (CRDL) and the instrument detection limit (IDL).
U = Indicates element was analyzed for but not detected. The number shown is the detection limit.
D = Denotes analyte quantified at a secondary dilution factor.
E = Estimated value due to excedence of linear calibration range.

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE

VOLATILES

07/27/90

SAMPLE NUMBER -	CONCENTRATIONS in ug/l or ug/kg ED-01-01	ED-02-01	ED-03-01
VOLATILES			
Chloromethane	25000.0 U	12.0 U	26000.0 U
Bromomethane	25000.0 UJ	12.0 U	26000.0 U
Vinyl Chloride	25000.0 U	12.0 U	26000.0 U
Chloroethane	25000.0 U	12.0 U	26000.0 U
Methylene Chloride	12000.0 J	14.0 U	R
Acetone	42000.0 U	12.0 U	420000.0 BJ
Carbon Disulfide	12000.0 U	6.0 U	13000.0 U
1,1-Dichloroethene	12000.0 U	6.0 U	13000.0 U
1,1-Dichloroethane	12000.0 U	6.0 U	13000.0 U
1,2-Dichloroethene (total)	12000.0 U	6.0 U	13000.0 U
Chloroform	12000.0 U	6.0 U	13000.0 U
1,2-Dichloroethane	12000.0 U	6.0 U	13000.0 U
2-Butanone	25000.0 U	12.0 U	26000.0 UJ
1,1,1-Trichloroethane	12000.0 U	6.0 U	13000.0 U
Carbon Tetrachloride	12000.0 U	6.0 U	13000.0 U
Vinyl Acetate	25000.0 U	12.0 U	R
Bromodichloromethane	12000.0 U	6.0 U	13000.0 U
1,2-Dichloropropane	12000.0 U	6.0 U	13000.0 U
cis-1,3-Dichloropropene	12000.0 U	6.0 U	13000.0 U
Trichloroethene	12000.0 U	6.0 U	13000.0 U
Dibromochloromethane	12000.0 U	6.0 U	13000.0 U
1,1,2-Trichloroethane	12000.0 U	6.0 U	13000.0 U
Benzene	12000.0 U	6.0 U	13000.0 U
trans-1,3-Dichloropropene	12000.0 U	6.0 U	13000.0 U
Bromoform	12000.0 U	6.0 U	13000.0 U
4-Methyl-2-Pentanone	25000.0 U	12.0 U	26000.0 U
2-Hexanone	25000.0 U	12.0 U	26000.0 U
Tetrachloroethene	12000.0 U	6.0 U	13000.0 U
1,1,2,2-Tetrachloroethane	12000.0 U	6.0 U	13000.0 U
Toluene	12000.0 U	6.0 U	13000.0 U
Chlorobenzene	12000.0 U	6.0 U	13000.0 U
Ethylbenzene	12000.0 U	6.0 U	13000.0 U
Styrene	12000.0 U	6.0 U	13000.0 U
Xylenes(total)	6200.0 J	6.0 U	13000.0 U

FOOTNOTES :
ug/l (micrograms per liter) = ug/kg (micrograms per kilogram) = ppb (parts per billion).
J is a data qualifier indicating estimated values (appendix A).
R = Analyte was rejected due to QA/QC.
B = Indicates the analyte was found in the blank. Indicates possible blank contamination.
U = Indicates element was analyzed for but not detected. The number shown is the detection limit.
E = Estimated value due to exceedance of linear calibration range.
D = Analyte detected at a dilution.
→

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE

SEMI-VOLATILES 1

07/27/90

SAMPLE NUMBER -	CONCENTRATIONS in ug/l or ug/kg		
	ED-01-01	ED-02-01	ED-03-01
SEMI-VOLATILES 1			
Phenol	250.0 U	810.0 U	2600000.0
bis(2-Chloroethyl)Ether	250.0 U	810.0 U	410000.0 U
2-Chlorophenol	250.0 U	810.0 U	410000.0 U
1,3-Dichlorobenzene	250.0 U	810.0 U	410000.0 U
1,4-Dichlorobenzene	250.0 U	810.0 U	410000.0 U
Benzyl Alcohol	250.0 U	810.0 U	410000.0 UJ
1,2-Dichlorobenzene	250.0 U	810.0 U	410000.0 U
2-Methylphenol	250.0 U	810.0 U	410000.0 U
bis(2-Chloroisopropyl)Ether	250.0 U	810.0 U	410000.0 U
4-Methylphenol	250.0 U	810.0 U	410000.0 U
N-Nitroso-Di-n-Propylamine	250.0 U	810.0 U	410000.0 U
Hexachloroethane	250.0 U	810.0 U	410000.0 U
Nitrobenzene	250.0 U	810.0 U	410000.0 U
Isophorone	250.0 U	810.0 U	410000.0 U
2-Nitrophenol	250.0 U	810.0 U	410000.0 U
2,4-Dimethylphenol	250.0 U	810.0 U	410000.0 U
Benzoic Acid	1250.0 U	4100.0 U	2000000.0 U
bis(2-Chloroethoxy)Methane	250.0 U	810.0 U	410000.0 U
2,4-Dichlorophenol	250.0 U	810.0 U	410000.0 U
1,2,4-Trichlorobenzene	250.0 U	810.0 U	410000.0 U
Naphthalene	250.0 U	810.0 U	410000.0 U
4-Chloroaniline	250.0 U	810.0 U	410000.0 U
Hexachlorobutadiene	250.0 U	810.0 U	410000.0 U
4-Chloro-3-Methylphenol	250.0 U	810.0 U	410000.0 U
2-Methylnaphthalene	250.0 U	810.0 U	410000.0 U
Hexachlorocyclopentadiene	250.0 U	810.0 U	410000.0 U
2,4,6-Trichlorophenol	250.0 U	810.0 U	410000.0 U
2,4,5-Trichlorophenol	1250.0 U	4100.0 U	2000000.0 U
2-Chloronaphthalene	250.0 U	810.0 U	410000.0 U
2-Nitroaniline	1250.0 U	4100.0 U	2000000.0 U
Dimethyl Phthalate	129.0 J	810.0 U	410000.0 U
Acenaphthylene	250.0 U	810.0 U	410000.0 U
2,6-Dinitrotoluene	250.0 U	810.0 U	410000.0 U

FOOTNOTES :
ug/l (micrograms per liter) = ug/kg (micrograms per kilogram) = ppb (parts per billion).
J is a data qualifier indicating estimated values (appendix A).
R = Analyte was rejected due to QA/QC.
B = Indicates the analyte was found in the blank. Indicates possible blank contamination.
U = Indicates element was analyzed for but not detected. The number shown is the detection limit.
E = Estimated value due to exceedance of linear calibration range.
D = Analyte detected at a dilution.
→

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE

SEMI-VOLATILES 2

/27/90

SAMPLE NUMBER -	CONCENTRATIONS in ug/l or ug/kg		
	ED-01-01	ED-02-01	ED-03-01
SEMI-VOLATILES 2			
i-Nitroaniline	1250.0 U	4100.0 U	2000000.0 U
\cenaphthene	250.0 U	130.0 J	410000.0 U
2,4-Dinitrophenol	1250.0 U	4100.0 U	2000000.0 U
i-Nitrophenol	1250.0 U	4100.0 U	2000000.0 U
)ibenzofuran	250.0 U	810.0 U	1800000.0
2,4-Dinitrotoluene	250.0 U	810.0 U	410000.0 U
)iethylphthalate	250.0 U	810.0 U	410000.0 U
4-Chlorophenyl-phenylether	250.0 U	810.0 U	410000.0 U
Fluorene	250.0 U	130.0 J	140000.0 J
4-Nitroaniline	1250.0 U	4100.0 U	2000000.0 U
4,6-Dinitro-2-Methylphenol	1250.0 U	4100.0 U	2000000.0 U
N-Nitrosodiphenylamine (1)	250.0 U	810.0 U	410000.0 U
4-Bromophenyl-phenylether	250.0 U	810.0 U	410000.0 U
Hexachlorobenzene	250.0 U	810.0 U	410000.0 U
Pentachlorophenol	1250.0 U	4100.0 U	2000000.0 U
Phenanthrene	250.0 U	1600.0	350000.0 J
Anthracene	250.0 U	590.0 J	84000.0 J
Di-n-Butylphthalate	250.0 U	810.0 U	410000.0 U
Fluoranthene	250.0 U	3400.0	390000.0 J
Pyrene	250.0 U	2100.0	270000.0 J
Butylbenzylphthalate	250.0 U	810.0 U	410000.0 U
3,3'-Dichlorobenzidine	250.0 U	1600.0 U	820000.0 U
Benzo(a)Anthracene	250.0 U	1300.0	140000.0 J
Chrysene	250.0 U	1400.0	170000.0 J
bis(2-Ethylhexyl)Phthalate	250.0 U	810.0 U	410000.0 U
Di-n-Octyl Phthalate	250.0 U	810.0 U	410000.0 U
Benzo(b)Fluoranthene	250.0 U	2100.0	190000.0 J
Benzo(k)Fluoranthene	250.0 U	810.0 U	410000.0 U
Benzo(a)Pyrene	250.0 U	1400.0	120000.0 J
Indeno(1,2,3-cd)Pyrene	250.0 U	570.0 J	410000.0 U
Dibenz(a,h)Anthracene	250.0 U	200.0 J	410000.0 U
Benzo(g,h,i)Perylene	250.0 U	410.0 J	410000.0 U

FOOTNOTES :

ug/l (micrograms per liter) = ug/kg (micrograms per kilogram) = ppb (parts per billion).
J is a data qualifier indicating estimated values (appendix A).
R = Analyte was rejected due to QA/QC.
B = Indicates the analyte was found in the blank. Indicates possible blank contamination.
U = Indicates element was analyzed for but not detected. The number shown is the detection limit.
E = Estimated value due to exceedance of linear calibration range.
D = Analyte detected at a dilution.

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE

PESTICIDES/PCBs

07/27/90

SAMPLE NUMBER -	CONCENTRATIONS in ug/l or ug/kg			
	ED-01-01	ED-01-01A	ED-02-01	ED-03-01
PESTICIDES/PCBs				
alpha-BHC	1200.0 U	6000.0 U	99.0 U	2500.0 U
beta-BHC	1200.0 U	6000.0 U	99.0 U	2500.0 U
delta-BHC	1200.0 U	6000.0 U	99.0 U	2500.0 U
gamma-BHC (Lindane)	1200.0 U	6000.0 U	99.0 U	2500.0 U
Heptachlor	1200.0 U	6000.0 U	99.0 U	2500.0 U
Aldrin	1200.0 U	6000.0 U	99.0 U	2500.0 U
Heptachlor epoxide	1200.0 U	6000.0 U	99.0 U	2500.0 U
Endosulfan I	1200.0 U	6000.0 U	99.0 U	2500.0 U
Dieldrin	2400.0 U	12000.0 U	200.0 U	5000.0 U
4,4'-DDE	2400.0 U	12000.0 U	200.0 U	5000.0 U
Endrin	2400.0 U	12000.0 U	200.0 U	5000.0 U
Endosulfan II	2400.0 U	12000.0 U	200.0 U	5000.0 U
4,4'-DDD	2400.0 U	12000.0 U	200.0 U	5000.0 U
Endosulfan sulfate	2400.0 U	12000.0 U	200.0 U	5000.0 U
4,4'-DDT	2400.0 U	12000.0 U	200.0 U	5000.0 U
Methoxychlor	12000.0 U	60000.0 U	990.0 U	25000.0 U
Endrin ketone	2400.0 U	12000.0 U	200.0 U	5000.0 U
alpha-Chlordane	12000.0 U	60000.0 U	990.0 U	25000.0 U
gamma-Chlordane	12000.0 U	60000.0 U	990.0 U	25000.0 U
Toxaphene	24000.0 U	120000.0 U	2000.0 U	50000.0 U
Aroclor-1016	12000.0 U	60000.0 U	990.0 U	25000.0 U
Aroclor-1221	12000.0 U	60000.0 U	990.0 U	25000.0 U
Aroclor-1232	12000.0 U	60000.0 U	990.0 U	25000.0 U
Aroclor-1242	12000.0 U	60000.0 U	990.0 U	25000.0 U
Aroclor-1248	12000.0 U	60000.0 U	990.0 U	25000.0 U
Aroclor-1254	24000.0 U	120000.0 U	2000.0 U	50000.0 U
Aroclor-1260	24000.0 U	120000.0 U	2000.0 U	50000.0 U

FOOTNOTES :
ug/l (micrograms per liter) = ug/kg (micrograms per kilogram) = ppb (parts per billion).
J is a data qualifier indicating estimated values (appendix A).
R = Analyte was rejected due to QA/QC.
B = Indicates the analyte was found in the blank. Indicates possible blank contamination.
U = Indicates element was analyzed for but not detected. The number shown is the detection limit.
E = Estimated value due to exceedance of linear calibration range.
D = Analyte detected at a dilution.
→

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE

INORGANICS

07/27/90

	CONCENTRATIONS in mg/kg		
SAMPLE NUMBER -	ED-01-01	ED-02-01	ED-03-01
INORGANICS			
ALUMINUM	9.00 B	1340.00	2120.00
ANTIMONY	13.50 UJ	12.70 UJ	16.80 UJ
ARSENIC	0.53 U	0.65 BJ	1.20 BJ
BARIUM	1.10 B	51.90	31.90 B
BERYLLIUM	0.27 U	0.25 U	0.33 U
CADMIUM	1.10 U	1.00 U	1.90
CALCIUM	42.40 BJ	10000.00	12000.00
CHROMIUM	1.70 B	13.20 J	14.80 J
COBALT	1.30 U	1.70 B	1.80 B
COPPER	2.60 B	22.20	131.00
IRON	162.00	3650.00	22900.00
LEAD	3.00 J	65.00 J	79.00 J
MAGNESIUM	8.50 U	303.00 B	1020.00 B
MANGANESE	0.27 U	51.40 J	134.00 J
MERCURY	0.13 U	0.12 U	0.77
NICKEL	6.10 U	14.40	11.10 B
POTASSIUM	88.40 U	97.50 B	424.00 B
SELENIUM	0.53 U	0.52 BJ	0.66 UJ
SILVER	0.80 U	1.90 B	0.99 U
SODIUM	47.60 B	95.80 B	2970.00
THALLIUM	0.27 U	0.75 U	0.99 U
VANADIUM	1.10 U	2.70 B	1.30 U
ZINC	7.10	60.70	174.00
CYANIDE	R	R	R

FOOTNOTES :
ug/kg (micrograms per kilogram) = ppb (parts per billion).
Units for inorganic results are mg/kg (milligrams per kilogram).
J is a data qualifier indicating estimated values (appendix A).
R = Analyte was rejected due to QA/QC.
B = For organics, analyte was detected in the method blank.
B = For inorganics, analyte value is between the contract required detection limit (CRDL) and the instrument detection limit (IDL).
U = Indicates element was analyzed for but not detected. The number shown is the detection limit.
D = Denotes analyte quantified at a secondary dilution factor.
E = Estimated value due to excedence of linear calibration range.

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE

VOLATILES

07/27/90

SAMPLE NUMBER -	CONCENTRATIONS in ug/l or ug/kg						
	GP-12-01	GP-12-01DUP	GP-21-01	GP-27-01	GP-27-01D	GP-30-01	GP-31-01
VOLATILES							
Chloromethane	2500.0 U	2500.0 U	12.0 U	25.0 U	12000.0 U	19.0 U	32.0 U
Bromomethane	2500.0 U	2500.0 U	12.0 U	25.0 UJ	12000.0 U	19.0 U	32.0 U
Vinyl Chloride	2500.0 U	2500.0 U	12.0 U	25.0 U	12000.0 U	19.0 U	32.0 U
Chloroethane	2500.0 U	2500.0 U	12.0 U	25.0 U	12000.0 U	19.0 U	32.0 U
Methylene Chloride	1200.0 U	2200.0 U	21.0 U	12.0 U	6200.0 U	46.0 J	40.0
Acetone	4800.0 U	5300.0 U	30.0 J	25.0 U	12000.0 U	80.0 U	640.0 D
Carbon Disulfide	1200.0 U	1200.0 U	6.0 U	12.0 U	6200.0 U	9.0 U	16.0 U
1,1-Dichloroethene	1200.0 U	1200.0 U	6.0 U	12.0 U	6200.0 U	9.0 U	16.0 U
1,1-Dichloroethane	1200.0 U	1200.0 U	6.0 U	12.0 U	6200.0 U	9.0 U	16.0 U
1,2-Dichloroethene (total)	1200.0 U	1200.0 U	6.0 U	12.0 U	6200.0 U	9.0 U	16.0 U
Chloroform	1200.0 U	1200.0 U	6.0 U	12.0 U	6200.0 U	9.0 U	16.0 U
1,2-Dichloroethane	1200.0 U	1200.0 U	6.0 U	12.0 U	6200.0 U	9.0 U	16.0 U
2-Butanone	2500.0 U	2500.0 U	12.0 U	25.0 U	12000.0 U	R	150.0 DJ
1,1,1-Trichloroethane	1200.0 U	1200.0 U	6.0 U	12.0 U	6200.0 U	9.0 U	16.0 U
Carbon Tetrachloride	1200.0 U	1200.0 U	6.0 U	12.0 U	6200.0 U	9.0 U	16.0 U
Vinyl Acetate	2500.0 U	2500.0 U	12.0 UJ	25.0 U	12000.0 U	19.0 U	32.0 U
Bromodichloromethane	1200.0 U	1200.0 U	6.0 U	12.0 U	6200.0 U	9.0 U	16.0 U
1,2-Dichloropropane	1200.0 U	1200.0 U	6.0 U	12.0 U	6200.0 U	9.0 U	16.0 U
cis-1,3-Dichloropropene	1200.0 U	1200.0 U	6.0 U	12.0 U	6200.0 U	9.0 U	16.0 U
Trichloroethene	1200.0 U	1200.0 U	6.0 U	12.0 U	6200.0 U	9.0 U	16.0 U
Dibromochloromethane	1200.0 U	1200.0 U	6.0 U	12.0 U	6200.0 U	9.0 U	16.0 U
1,1,2-Trichloroethane	1200.0 U	1200.0 U	6.0 U	12.0 U	6200.0 U	9.0 U	16.0 U
Benzene	1200.0 U	1200.0 U	6.0 U	12.0 U	6200.0 U	9.0 U	16.0 U
trans-1,3-Dichloropropene	1200.0 U	1200.0 U	6.0 U	12.0 U	6200.0 U	9.0 U	16.0 U
Bromoform	1200.0 U	1200.0 U	6.0 U	12.0 U	6200.0 U	9.0 U	16.0 U
4-Methyl-2-Pentanone	2500.0 U	740.0 J	12.0 U	25.0 U	12000.0 U	19.0 U	32.0 UJ
2-Hexanone	2500.0 U	2500.0 U	12.0 U	25.0 U	12000.0 U	19.0 U	32.0 UJ
Tetrachloroethene	1200.0 U	1200.0 U	6.0 U	12.0 U	6200.0 U	9.0 U	16.0 UJ
1,1,2,2-Tetrachloroethane	1200.0 U	1200.0 U	6.0 U	12.0 U	6200.0 U	9.0 U	16.0 UJ
Toluene	1600.0	2100.0	6.0 U	9.0 J	6200.0 U	9.0 U	16.0 UJ
Chlorobenzene	1200.0 U	1200.0 U	6.0 U	52.0	6200.0 U	9.0 U	16.0 UJ
Ethylbenzene	1200.0 J	1500.0	6.0 U	4200.0 J	6200.0 U	9.0 U	16.0 UJ
Styrene	1200.0 U	1200.0 U	6.0 U	12.0 U	6200.0 U	9.0 U	16.0 UJ
Xylenes(total)	6700.0	7600.0	6.0 U	17000.0 DJ	17000.0 D	9.0 U	16.0 UJ

FOOTNOTES :
ug/l (micrograms per liter) = ug/kg (micrograms per kilogram) = ppb (parts per billion).
J is a data qualifier indicating estimated values (appendix A).
R = Analyte was rejected due to QA/QC.
B = Indicates the analyte was found in the blank. Indicates possible blank contamination.
U = Indicates element was analyzed for but not detected. The number shown is the detection limit.
E = Estimated value due to exceedance of linear calibration range.
D = Analyte detected at a dilution.
→

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE

SEMI-VOLATILES 1

07/27/90

	CONCENTRATIONS in ug/l or ug/kg					
SAMPLE NUMBER -	GP-12-01	GP-12-01DUP	GP-21-01	GP-27-01	GP-30-01	GP-31-01
SEMI-VOLATILES 1						
Phenol	2000.0 U	2000.0 U	7900.0 U	12000.0	1500.0 U	4300.0 U
bis(2-Chloroethyl)Ether	2000.0 U	2000.0 U	7900.0 U	5000.0 U	1500.0 U	4300.0 U
2-Chlorophenol	2000.0 U	2000.0 U	7900.0 U	5000.0 U	1500.0 U	4300.0 U
1,3-Dichlorobenzene	2000.0 U	2000.0 U	7900.0 U	5000.0 U	1500.0 U	4300.0 U
1,4-Dichlorobenzene	2000.0 U	2000.0 U	7900.0 U	5000.0 U	3200.0	4300.0 U
Benzyl Alcohol	2000.0 U	2000.0 UJ	7900.0 UJ	5000.0 U	1500.0 UJ	4300.0 U
1,2-Dichlorobenzene	2000.0 U	2000.0 U	7900.0 U	5000.0 U	1500.0 U	4300.0 U
2-Methylphenol	2000.0 U	2000.0 U	7900.0 U	14000.0	1500.0 U	4300.0 U
bis(2-Chloroisopropyl)Ether	2000.0 U	2000.0 U	7900.0 U	5000.0 U	1500.0 U	4300.0 U
4-Methylphenol	2000.0 U	2000.0 U	7900.0 U	5000.0 U	1500.0 U	4300.0 U
N-Nitroso-Di-n-Propylamine	2000.0 U	2000.0 U	7900.0 U	5000.0 U	1500.0 U	4300.0 U
Hexachloroethane	2000.0 U	2000.0 U	7900.0 U	5000.0 U	1500.0 U	4300.0 U
Nitrobenzene	2000.0 U	2000.0 U	7900.0 UJ	5000.0 U	1500.0 U	4300.0 U
Isophorone	2000.0 U	2000.0 UJ	7900.0 UJ	5000.0 U	1500.0 U	4300.0 U
2-Nitrophenol	2000.0 U	2000.0 U	7900.0 UJ	5000.0 U	1500.0 U	4300.0 U
2,4-Dimethylphenol	2000.0 U	330.0 J	7900.0 UJ	7300.0	1500.0 U	4300.0 U
Benzoic Acid	10000.0 U	10000.0 U	39000.0 UJ	25000.0 U	7600.0 U	21000.0 U
bis(2-Chloroethoxy)Methane	2000.0 U	2000.0 U	7900.0 UJ	5000.0 U	1500.0 U	4300.0 U
2,4-Dichlorophenol	2000.0 U	2000.0 U	7900.0 UJ	5000.0 U	1500.0 U	4300.0 U
1,2,4-Trichlorobenzene	2000.0 U	2000.0 U	7900.0 UJ	5000.0 U	1500.0 U	4300.0 U
Naphthalene	2000.0 U	2000.0 U	7900.0 UJ	1600.0 J	5200.0	4300.0 U
4-Chloroaniline	2000.0 U	2000.0 U	7900.0 UJ	5000.0 U	1800.0	4300.0 U
Hexachlorobutadiene	2000.0 U	2000.0 U	7900.0 UJ	5000.0 U	1500.0 U	4300.0 U
4-Chloro-3-Methylphenol	2000.0 U	2000.0 U	7900.0 UJ	5000.0 U	1500.0 U	4300.0 U
2-Methylnaphthalene	2000.0 U	2000.0 U	7900.0 UJ	4000.0 J	1600.0	4300.0 U
Hexachlorocyclopentadiene	2000.0 U	2000.0 U	7900.0 UJ	5000.0 U	1500.0 U	4300.0 U
2,4,6-Trichlorophenol	2000.0 U	2000.0 U	7900.0 UJ	5000.0 U	1500.0 U	4300.0 U
2,4,5-Trichlorophenol	10000.0 U	10000.0 U	39000.0 UJ	25000.0 U	7600.0 U	21000.0 U
2-Chloronaphthalene	2000.0 U	2000.0 U	7900.0 UJ	5000.0 U	1500.0 U	4300.0 U
2-Nitroaniline	10000.0 U	10000.0 U	39000.0 UJ	25000.0 U	7600.0 U	21000.0 U
Dimethyl Phthalate	2000.0 U	2000.0 U	7900.0 UJ	5000.0 U	1500.0 U	4300.0 U
Acenaphthylene	2000.0 U	2000.0 U	7900.0 UJ	5000.0 U	1500.0 U	4300.0 U
2,6-Dinitrotoluene	2000.0 U	2000.0 U	7900.0 UJ	5000.0 U	1500.0 U	4300.0 U

FOOTNOTES :
ug/l (micrograms per liter) = ug/kg (micrograms per kilogram) = ppb (parts per billion).
J is a data qualifier indicating estimated values (appendix A).
R = Analyte was rejected due to QA/QC.
B = Indicates the analyte was found in the blank. Indicates possible blank contamination.
U = Indicates element was analyzed for but not detected. The number shown is the detection limit.
E = Estimated value due to exceedance of linear calibration range.
D = Analyte detected at a dilution.
→

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE

SEMI-VOLATILES 2

07/27/90

SAMPLE NUMBER -	CONCENTRATIONS in ug/l or ug/kg					
	GP-12-01	GP-12-01DUP	GP-21-01	GP-27-01	GP-30-01	GP-31-01
SEMI-VOLATILES 2						
3-Nitroaniline	10000.0 U	10000.0 U	39000.0 UJ	25000.0 U	7600.0 U	21000.0 U
Acenaphthene	2000.0 U	2000.0 U	7900.0 UJ	5000.0 U	910.0 J	4300.0 U
2,4-Dinitrophenol	10000.0 U	10000.0 U	39000.0 UJ	25000.0 U	7600.0 U	21000.0 U
4-Nitrophenol	10000.0 U	10000.0 U	39000.0 UJ	25000.0 U	7600.0 U	21000.0 U
Dibenzofuran	18000.0	14000.0	7900.0 UJ	5000.0 U	800.0 J	4300.0 U
2,4-Dinitrotoluene	2000.0 U	2000.0 U	7900.0 UJ	5000.0 U	1500.0 U	4300.0 U
Diethylphthalate	2000.0 U	2000.0 U	7900.0 UJ	5000.0 U	1500.0 U	4300.0 U
4-Chlorophenyl-phenylether	2000.0 U	2000.0 U	7900.0 UJ	5000.0 U	1500.0 U	4300.0 U
Fluorene	2000.0 U	2000.0 U	7900.0 UJ	5000.0 U	1400.0 J	4300.0 U
4-Nitroaniline	10000.0 U	10000.0 U	39000.0 UJ	25000.0 U	7600.0 U	21000.0 U
4,6-Dinitro-2-Methylphenol	10000.0 U	10000.0 U	39000.0 U	25000.0 U	7600.0 U	21000.0 U
N-Nitrosodiphenylamine (1)	2000.0 U	2000.0 U	7900.0 U	5000.0 U	1500.0 U	4300.0 U
4-Bromophenyl-phenylether	2000.0 U	2000.0 U	7900.0 U	5000.0 U	1500.0 U	4300.0 U
Hexachlorobenzene	2000.0 U	2000.0 U	7900.0 U	5000.0 U	1500.0 U	4300.0 U
Pentachlorophenol	10000.0 U	10000.0 U	39000.0 U	25000.0 U	7600.0 U	21000.0 U
Phenanthrene	2000.0 U	2000.0 U	7900.0 U	5000.0 U	9400.0	2100.0 J
Anthracene	2000.0 U	2000.0 U	7900.0 U	5000.0 U	1500.0 U	4300.0 U
Di-n-Butylphthalate	2000.0 U	2000.0 U	7900.0 U	5000.0 U	1500.0 U	4300.0 U
Fluoranthene	2000.0 U	2000.0 U	7900.0 U	5000.0 U	6800.0	2700.0 J
Pyrene	2000.0 U	2000.0 U	7900.0 U	5000.0 U	4200.0	1900.0 J
Butylbenzylphthalate	2000.0 U	2000.0 U	7900.0 U	5000.0 U	1500.0 U	4300.0 U
3,3'-Dichlorobenzidine	4000.0 U	4000.0 U	16000.0 UJ	10000.0 U	3100.0 U	8500.0 U
Benzo(a)Anthracene	2000.0 U	2000.0 U	7900.0 U	5000.0 U	1300.0 J	1400.0 J
Chrysene	2000.0 U	2000.0 U	7900.0 U	5000.0 U	1100.0 J	4300.0 U
bis(2-Ethylhexyl)Phthalate	2000.0 U	2000.0 U	7900.0 U	5000.0 U	2700.0	3400.0 J
Di-n-Octyl Phthalate	2000.0 U	2000.0 U	7900.0 U	5000.0 U	1500.0 U	4300.0 U
Benzo(b)Fluoranthene	2000.0 U	2000.0 U	7900.0 U	5000.0 U	890.0 J	1500.0 J
Benzo(k)Fluoranthene	2000.0 U	2000.0 U	7900.0 U	5000.0 U	1500.0 U	4300.0 U
Benzo(a)Pyrene	2000.0 U	2000.0 U	7900.0 U	5000.0 U	410.0 J	4300.0 U
Indeno(1,2,3-cd)Pyrene	2000.0 U	2000.0 U	7900.0 U	5000.0 U	1500.0 U	4300.0 U
Dibenz(a,h)Anthracene	2000.0 U	2000.0 U	7900.0 U	5000.0 U	1500.0 U	4300.0 U
Benzo(g,h,i)Perylene	2000.0 U	2000.0 U	7900.0 U	5000.0 U	1500.0 U	4300.0 U

FOOTNOTES :
ug/l (micrograms per liter) = ug/kg (micrograms per kilogram) = ppb (parts per billion).
J is a data qualifier indicating estimated values (appendix A).
R = Analyte was rejected due to QA/QC.
B = Indicates the analyte was found in the blank. Indicates possible blank contamination.
U = Indicates element was analyzed for but not detected. The number shown is the detection limit.
E = Estimated value due to exceedance of linear calibration range.
D = Analyte detected at a dilution.
→

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE

PESTICIDES/PCBs

7/27/90

SAMPLE NUMBER -	CONCENTRATIONS in ug/l or ug/kg					
	GP-12-01	GP-12-01DUP	GP-21-01	GP-27-01	GP-30-01	GP-31-01
PESTICIDES/PCBs						
alpha-BHC	12000.0 U	12000.0 U	19.0 U	1200.0 U	150.0 U	260.0 U
beta-BHC	12000.0 U	12000.0 U	19.0 U	1200.0 U	150.0 U	260.0 U
delta-BHC	12000.0 U	12000.0 U	1.8 J	1200.0 U	150.0 U	260.0 U
gamma-BHC (Lindane)	12000.0 U	12000.0 U	19.0 U	1200.0 U	38.0 J	260.0 U
Heptachlor	12000.0 U	12000.0 U	19.0 U	1200.0 U	47.0 J	260.0 U
Aldrin	12000.0 U	12000.0 U	19.0 U	1200.0 U	89.0 J	260.0 U
Heptachlor epoxide	12000.0 U	12000.0 U	19.0 U	1200.0 U	150.0 U	260.0 U
Endosulfan I	12000.0 U	12000.0 U	19.0 U	1200.0 U	150.0 U	260.0 U
Dieldrin	24000.0 U	24000.0 U	38.0 U	2400.0 U	180.0 J	520.0 U
4,4'-DDE	24000.0 U	24000.0 U	38.0 U	2400.0 U	300.0 U	520.0 U
Endrin	24000.0 U	24000.0 U	38.0 U	2400.0 U	230.0 J	520.0 U
Endosulfan II	24000.0 U	24000.0 U	38.0 U	2400.0 U	300.0 U	520.0 U
4,4'-DDD	24000.0 U	24000.0 U	38.0 U	2400.0 U	240.0 J	520.0 U
Endosulfan sulfate	24000.0 U	24000.0 U	38.0 U	2400.0 U	300.0 U	520.0 U
4,4'-DDT	24000.0 U	24000.0 U	38.0 U	2400.0 U	190.0 J	520.0 U
Methoxychlor	120000.0 U	120000.0 U	4.0 J	12000.0 U	1500.0 U	2600.0 U
Endrin ketone	24000.0 U	24000.0 U	38.0 U	2400.0 U	300.0 U	520.0 U
alpha-Chlordane	120000.0 U	120000.0 U	190.0 U	12000.0 U	1500.0 U	2600.0 U
gamma-Chlordane	120000.0 U	120000.0 U	190.0 U	12000.0 U	1500.0 U	2600.0 U
Toxaphene	240000.0 U	240000.0 U	380.0 U	24000.0 U	3000.0 U	5200.0 U
Aroclor-1016	120000.0 U	120000.0 U	190.0 U	12000.0 U	1500.0 U	2600.0 U
Aroclor-1221	120000.0 U	120000.0 U	190.0 U	12000.0 U	1500.0 U	2600.0 U
Aroclor-1232	120000.0 U	120000.0 U	190.0 U	12000.0 U	1500.0 U	2600.0 U
Aroclor-1242	120000.0 U	120000.0 U	190.0 U	12000.0 U	1500.0 U	2600.0 U
Aroclor-1248	120000.0 U	120000.0 U	190.0 U	12000.0 U	1500.0 U	2600.0 U
Aroclor-1254	240000.0 U	240000.0 U	380.0 U	24000.0 U	3000.0 U	5200.0 U
Aroclor-1260	240000.0 U	240000.0 U	380.0 U	24000.0 U	3000.0 U	5200.0 U

FOOTNOTES :
ug/l (micrograms per liter) = ug/kg (micrograms per kilogram) = ppb (parts per billion).
J is a data qualifier indicating estimated values (appendix A).
R = Analyte was rejected due to QA/QC.
B = Indicates the analyte was found in the blank. Indicates possible blank contamination.
U = Indicates element was analyzed for but not detected. The number shown is the detection limit.
E = Estimated value due to exceedance of linear calibration range.
D = Analyte detected at a dilution.

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE

INORGANICS
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07/27/90

	CONCENTRATIONS in mg/kg					
SAMPLE NUMBER -	GP-12-01	GP-12-01DUP	GP-21-01	GP-27-01	GP-30-01	GP-31-01
INORGANICS						
ALUMINUM	47.60 J	13.10 BJ	7250.00	57.60 B	5720.00 J	5350.00 J
ANTIMONY	10.60 U	10.70 U	11.90 U	19.20 UJ	20.10 U	25.00 U
ARSENIC	0.44 B	0.42 U	15.30	1.10 B	8.40	15.90
BARIUM	1.80 B	0.66 B	301.00	3.70 B	411.00	452.00
BERYLLIUM	0.21 U	0.21 U	0.98 B	0.38 U	0.57 B	0.51 B
CADMIUM	0.83 U	0.84 U	3.00	1.50 U	8.10	5.90
CALCIUM	R	R	10300.00	396.00 BJ	R	R
CHROMIUM	7.70	7.30	25.90	1.60 B	124.00	63.90
COBALT	1.00 U	1.10 U	7.30 BJ	1.90 U	6.60 B	8.90 B
COPPER	7.10 J	2.30 BJ	124.00 J	85.80	89.20 J	222.00 J
IRON	3130.00	2970.00	18400.00	7140.00	27100.00	102000.00
LEAD	8.70 J	3.50 J	485.00 J	151.00 J	2340.00 J	838.00 J
MAGNESIUM	13.90 B	6.70 U	2270.00	51.10 B	1390.00 B	2170.00 B
MANGANESE	4.60	3.90	223.00 J	60.90	199.00	618.00
MERCURY	0.10 U	0.11 U	1.10	0.19 U	0.55	0.25 U
NICKEL	4.80 U	4.80 U	22.30	8.70 U	21.20	42.80
POTASSIUM	69.20 U	70.10 U	680.00 B	126.00 U	918.00 B	658.00 B
SELENIUM	0.42 U	0.42 U	2.00	0.75 U	1.20 B	0.98 U
SILVER	0.62 U	0.63 U	0.68 B	1.10 U	1.20 U	4.40 B
SODIUM	22.40 B	22.10 B	260.00 B	60.80 B	493.00 B	332.00 B
THALLIUM	0.42 U	0.42 U	0.63 U	0.38 U	0.79 U	0.98 U
VANADIUM	0.83 U	0.84 U	26.20	1.50 U	22.10	10.40 B
ZINC	26.00	13.60	422.00	138.00	5850.00	1500.00
CYANIDE	0.52 U	0.53 U	1.20 J	R	3.10	5.90

FOOTNOTES :
ug/kg (micrograms per kilogram) = ppb (parts per billion).
Units for inorganic results are mg/kg (milligrams per kilogram).
J is a data qualifier indicating estimated values (appendix A).
R = Analyte was rejected due to QA/QC.
B = For organics, analyte was detected in the method blank.
B = For inorganics, analyte value is between the contract required detection limit (CRDL) and the instrument detection limit (IDL).
U = Indicates element was analyzed for but not detected. The number shown is the detection limit.
D = Denotes analyte quantified at a secondary dilution factor.
E = Estimated value due to excedence of linear calibration range.

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE

VOLATILES

07/27/90

SAMPLE NUMBER -	CONCENTRATIONS in ug/l or ug/kg HD-05-02	HD-05-03
VOLATILES		
Chloromethane	40000.0 U	20000.0 U
Bromomethane	40000.0 U	20000.0 U
Vinyl Chloride	40000.0 U	20000.0 U
Chloroethane	40000.0 U	20000.0 U
Methylene Chloride	20000.0 U	15000.0 U
Acetone	R	11000.0 J
Carbon Disulfide	20000.0 U	9800.0 U
1,1-Dichloroethene	20000.0 U	9800.0 U
1,1-Dichloroethane	20000.0 U	9800.0 U
1,2-Dichloroethene (total)	20000.0 U	9800.0 U
Chloroform	20000.0 U	9800.0 U
1,2-Dichloroethane	20000.0 U	9800.0 U
2-Butanone	R	20000.0 U
1,1,1-Trichloroethane	20000.0 U	9800.0 U
Carbon Tetrachloride	20000.0 U	9800.0 U
Vinyl Acetate	40000.0 U	20000.0 U
Bromodichloromethane	20000.0 U	9800.0 U
1,2-Dichloropropane	20000.0 U	9800.0 U
cis-1,3-Dichloropropene	20000.0 U	9800.0 U
Trichloroethene	20000.0 U	9800.0 U
Dibromochloromethane	20000.0 U	9800.0 U
1,1,2-Trichloroethane	20000.0 U	9800.0 U
Benzene	20000.0 U	9800.0 U
trans-1,3-Dichloropropene	20000.0 U	9800.0 U
Bromoform	20000.0 U	9800.0 U
4-Methyl-2-Pentanone	40000.0 U	20000.0 U
2-Hexanone	40000.0 U	20000.0 U
Tetrachloroethene	20000.0 U	9800.0 U
1,1,2,2-Tetrachloroethane	20000.0 U	9800.0 U
Toluene	20000.0 U	9300.0 J
Chlorobenzene	20000.0 U	9800.0 U
Ethylbenzene	20000.0 U	9800.0 U
Styrene	20000.0 U	9800.0 U
Xylenes(total)	25000.0	18000.0

FOOTNOTES :
ug/l (micrograms per liter) = ug/kg (micrograms per kilogram) = ppb (parts per billion).
J is a data qualifier indicating estimated values (appendix A).
R = Analyte was rejected due to QA/QC.
B = Indicates the analyte was found in the blank. Indicates possible blank contamination.
U = Indicates element was analyzed for but not detected. The number shown is the detection limit.
E = Estimated value due to exceedance of linear calibration range.
D = Analyte detected at a dilution.
→

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE

SEMI-VOLATILES 1

07/27/90

	CONCENTRATIONS in ug/l or ug/kg			
SAMPLE NUMBER -	HD-05-02	HD-05-02D	HD-05-03	HD-05-03D
SEMI-VOLATILES 1				
Phenol	45000.0 D	45000.0 D	22000.0	3100.0 U
bis(2-Chloroethyl)Ether	160.0 U	8200.0 U	1500.0 U	3100.0 U
2-Chlorophenol	160.0 U	8200.0 U	1500.0 U	3100.0 U
1,3-Dichlorobenzene	160.0 U	8200.0 U	1500.0 U	3100.0 U
1,4-Dichlorobenzene	160.0 U	8200.0 U	1500.0 U	3100.0 U
Benzyl Alcohol	160.0 U	8200.0 U	1500.0 U	3100.0 UJ
1,2-Dichlorobenzene	160.0 U	8200.0 U	1500.0 U	3100.0 U
2-Methylphenol	160.0 U	8200.0 U	1500.0 U	3100.0 U
bis(2-Chloroisopropyl)Ether	160.0 U	8200.0 U	1500.0 U	3100.0 U
4-Methylphenol	160.0 U	8200.0 U	1500.0 U	3100.0 U
N-Nitroso-Di-n-Propylamine	160.0 U	8200.0 U	1500.0 U	3100.0 U
Hexachloroethane	160.0 U	8200.0 U	1500.0 U	3100.0 U
Nitrobenzene	160.0 U	8200.0 U	1500.0 U	3100.0 U
Isophorone	160.0 U	8200.0 U	1500.0 U	3100.0 U
2-Nitrophenol	160.0 U	8200.0 U	1500.0 U	3100.0 U
2,4-Dimethylphenol	160.0 U	8200.0 U	1500.0 U	3100.0 U
Benzoic Acid	790.0 U	40000.0 U	7500.0 U	15000.0 U
bis(2-Chloroethoxy)Methane	160.0 U	8200.0 U	1500.0 U	3100.0 U
2,4-Dichlorophenol	160.0 U	8200.0 U	1500.0 U	3100.0 U
1,2,4-Trichlorobenzene	160.0 U	8200.0 U	1500.0 U	3100.0 U
Naphthalene	160.0 U	8200.0 U	1300.0 J	3100.0 U
4-Chloroaniline	160.0 U	8200.0 U	1500.0 U	3100.0 U
Hexachlorobutadiene	160.0 U	8200.0 U	1500.0 U	3100.0 U
4-Chloro-3-Methylphenol	160.0 U	8200.0 U	1500.0 U	3100.0 U
2-Methylnaphthalene	160.0 U	8200.0 U	1500.0 U	3100.0 U
Hexachlorocyclopentadiene	160.0 U	8200.0 U	1500.0 U	3100.0 U
2,4,6-Trichlorophenol	160.0 U	8200.0 U	1500.0 U	3100.0 U
2,4,5-Trichlorophenol	790.0 U	40000.0 U	7500.0 U	15000.0 U
2-Chloronaphthalene	160.0 U	8200.0 U	1500.0 U	3100.0 U
2-Nitroaniline	790.0 U	40000.0 U	7500.0 U	15000.0 U
Dimethyl Phthalate	160.0 U	8200.0 U	1500.0 U	3100.0 U
Acenaphthylene	160.0 U	8200.0 U	1500.0 U	3100.0 U
2,6-Dinitrotoluene	160.0 U	8200.0 U	1500.0 U	3100.0 U

FOOTNOTES :
ug/l (micrograms per liter) = ug/kg (micrograms per kilogram) = ppb (parts per billion).
J is a data qualifier indicating estimated values (appendix A).
R = Analyte was rejected due to QA/QC.
B = Indicates the analyte was found in the blank. Indicates possible blank contamination.
U = Indicates element was analyzed for but not detected. The number shown is the detection limit.
E = Estimated value due to exceedance of linear calibration range.
D = Analyte detected at a dilution.
→

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE

SEMI-VOLATILES 2

07/27/90

SAMPLE NUMBER -	CONCENTRATIONS in ug/l or ug/kg			
	HD-05-02	HD-05-02D	HD-05-03	HD-05-03D
SEMI-VOLATILES 2				
3-Nitroaniline	790.0 U	40000.0 U	7500.0 U	15000.0 U
Acenaphthene	160.0 U	8200.0 U	1500.0 U	3100.0 U
2,4-Dinitrophenol	790.0 U	40000.0 U	7500.0 U	15000.0 U
4-Nitrophenol	790.0 U	40000.0 U	7500.0 U	15000.0 U
Dibenzofuran	82000.0 D	82000.0	56000.0 J	56000.0 E
2,4-Dinitrotoluene	160.0 U	8200.0 U	1500.0 U	3100.0 U
Diethylphthalate	160.0 U	8200.0 U	1500.0 U	3100.0 U
4-Chlorophenyl-phenylether	160.0 U	8200.0 U	1500.0 U	3100.0 U
Fluorene	300.0	8200.0 U	240.0 J	3100.0 U
4-Nitroaniline	790.0 U	40000.0 U	7500.0 U	15000.0 U
4,6-Dinitro-2-Methylphenol	790.0 U	40000.0 U	7500.0 U	15000.0 U
N-Nitrosodiphenylamine (1)	160.0 U	8200.0 U	1500.0 U	3100.0 U
4-Bromophenyl-phenylether	160.0 U	8200.0 U	1500.0 U	3100.0 U
Hexachlorobenzene	160.0 U	8200.0 U	1500.0 U	3100.0 U
Pentachlorophenol	790.0 U	40000.0 U	7500.0 U	15000.0 U
Phenanthrene	85.0 J	8200.0 U	93.0 J	3100.0 U
Anthracene	160.0 U	8200.0 U	1500.0 U	3100.0 U
Di-n-Butylphthalate	160.0 U	8200.0 U	1500.0 U	3100.0 U
Fluoranthene	160.0 U	8200.0 U	1500.0 U	3100.0 U
Pyrene	160.0 U	8200.0 U	1500.0 U	3100.0 U
Butylbenzylphthalate	160.0 U	8200.0 U	1500.0 U	3100.0 U
3,3'-Dichlorobenzidine	330.0 U	16000.0 U	3100.0 U	6100.0 U
Benzo(a)Anthracene	160.0 U	8200.0 U	1500.0 U	3100.0 U
Chrysene	160.0 U	8200.0 U	1500.0 U	3100.0 U
bis(2-Ethylhexyl)Phthalate	160.0 U	8200.0 U	1500.0 U	3100.0 U
Di-n-Octyl Phthalate	160.0 U	8200.0 U	1500.0 U	3100.0 U
Benzo(b)Fluoranthene	160.0 U	8200.0 U	1500.0 U	3100.0 U
Benzo(k)Fluoranthene	160.0 U	8200.0 U	1500.0 U	3100.0 U
Benzo(a)Pyrene	160.0 U	8200.0 U	1500.0 U	3100.0 U
Indeno(1,2,3-cd)Pyrene	160.0 U	8200.0 U	1500.0 U	3100.0 U
Dibenz(a,h)Anthracene	160.0 U	8200.0 U	1500.0 U	3100.0 U
Benzo(g,h,i)Perylene	160.0 U	8200.0 U	1500.0 U	3100.0 U

FOOTNOTES :
ug/l (micrograms per liter) = ug/kg (micrograms per kilogram) = ppb (parts per billion).
J is a data qualifier indicating estimated values (appendix A).
R = Analyte was rejected due to QA/QC.
B = Indicates the analyte was found in the blank. Indicates possible blank contamination.
U = Indicates element was analyzed for but not detected. The number shown is the detection limit.
E = Estimated value due to exceedance of linear calibration range.
D = Analyte detected at a dilution.
→

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE

PESTICIDES/PCBs

7/27/90

SAMPLE NUMBER -	CONCENTRATIONS in ug/l or ug/kg			
	HD-05-02D		HD-05-03	
PESTICIDES/PCBs				
alpha-BHC	4700.0	D	180.0	U
beta-BHC	1900.0	U	180.0	U
delta-BHC	1900.0	U	180.0	U
gamma-BHC (Lindane)	1900.0	U	180.0	U
Heptachlor	1900.0	U	180.0	U
Aldrin	1900.0	U	180.0	U
Heptachlor epoxide	1900.0	U	180.0	U
Endosulfan I	1900.0	U	180.0	U
Dieldrin	3800.0	U	360.0	U
4,4'-DDE	3800.0	U	360.0	U
Endrin	3800.0	U	360.0	U
Endosulfan II	3800.0	U	360.0	U
4,4'-DDD	3800.0	U	360.0	U
Endosulfan sulfate	3800.0	U	360.0	U
4,4'-DDT	3800.0	U	360.0	U
Methoxychlor	19000.0	U	1800.0	U
Endrin ketone	3800.0	U	360.0	U
alpha-Chlordane	19000.0	U	1800.0	U
gamma-Chlordane	19000.0	U	1800.0	U
Toxaphene	38000.0	U	3600.0	U
Aroclor-1016	19000.0	U	1800.0	U
Aroclor-1221	19000.0	U	1800.0	U
Aroclor-1232	19000.0	U	1800.0	U
Aroclor-1242	19000.0	U	1800.0	U
Aroclor-1248	19000.0	U	1800.0	U
Aroclor-1254	38000.0	U	3600.0	U
Aroclor-1260	38000.0	U	3600.0	U

FOOTNOTES :
ug/l (micrograms per liter) = ug/kg (micrograms per kilogram) = ppb (parts per billion).
J is a data qualifier indicating estimated values (appendix A).
R = Analyte was rejected due to QA/QC.
B = Indicates the analyte was found in the blank. Indicates possible blank contamination.
U = Indicates element was analyzed for but not detected. The number shown is the detection limit.
E = Estimated value due to exceedance of linear calibration range.
D = Analyte detected at a dilution.

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

TABLE

INORGANICS

07/27/90

SAMPLE NUMBER -	CONCENTRATIONS in mg/kg HD-05-02	HD-05-03
INORGANICS		
ALUMINUM	R	2010.00
ANTIMONY	16.70 U	39.20 J
ARSENIC	15.30	3.50
BARIUM	107.00	2820.00
BERYLLIUM	0.17 B	0.24 U
CADMIUM	2.50	3.10
CALCIUM	R	2280.00 J
CHROMIUM	39.10	39.30
COBALT	15.10 BJ	22.70
COPPER	343.00 J	171.00
IRON	56500.00	21800.00
LEAD	3180.00 J	268.00
MAGNESIUM	541.00 B	417.00 B
MANGANESE	243.00 J	135.00
MERCURY	0.53	0.65
NICKEL	45.90	59.80
POTASSIUM	402.00 B	205.00 B
SELENIUM	0.72 U	0.72 B
SILVER	2.10 B	0.72 U
SODIUM	14900.00	12600.00
THALLIUM	0.82 U	0.72 U
VANADIUM	2.50 B	4.30 B
ZINC	800.00	2030.00
CYANIDE	2.80 J	1.20

FOOTNOTES :
ug/kg (micrograms per kilogram) = ppb (parts per billion).
Units for inorganic results are mg/kg (milligrams per kilogram).
J is a data qualifier indicating estimated values (appendix A).
R = Analyte was rejected due to QA/QC.
B = For organics, analyte was detected in the method blank.
B = For inorganics, analyte value is between the contract required detection limit (CRDL) and the instrument detection limit (IDL).
U = Indicates element was analyzed for but not detected. The number shown is the detection limit.
D = Denotes analyte quantified at a secondary dilution factor.
E = Estimated value due to excedence of linear calibration range.

→

Appendix C
2,3,7,8-TCDD Results

Sample No.	Results	Detection Limit (units in ppb)
GP-12-001	ND	1.6
DR-13-01	ND	10
GP-27	ND	0.28
DR-42	140	----
DR-36	370	----
DR-08	110	----
DR-03	ND	1.1
DR-20	200	----
DR-22	ND	0.49
DR-19	290	----
HD-01-01	ND	1.4
HD-02-01	ND	16
HD-03-01	ND	3.5
HD-04-01	ND	1.3
HD-05-01	140	----
HD-05-04	170	----
HD-05-05	140	----
ED-03-01	100	----
PD-01	ND	0.17

DR - Buried Drum

HD - Drums Ruptured by Hydroax

PD - Polymer Disk

GP - Test Pits Excavated to Confirm Geophysical Results

ED - Exposed Drum

These data are unvalidated and are subject to change following QA/QC review. Therefore these data should not be used in any interpretations or conclusions until validation is complete.

Appendix C
EP Toxicity Data

	DR-04	DR-05	DR-16	DR-26	DR-028	DR-029	DR-033	DR-035	DR-038	GP-30	Max. Concentrations of Contaminants for Characteristics of EP Toxicity
arsenic	0.035 U	0.035 U	0.035 U	0.035 U	0.035 U	0.035 U	0.035 U	0.035 U	0.035 U	0.035 U	5.0
barium	0.047 B	0.129 U	0.15 B	1.6	0.268	0.405	0.0619 B	3.5	0.056 B	0.431	100.0
cadmium	0.001 U	0.0012 B	0.0015 B	0.007	0.0032 B	0.0011 B	0.001 U	0.001 U	0.001 U	0.001 U	1.0
chromium	0.001 U	0.001 U	1.15	0.006 B	0.001 U	0.0015 B	0.001 U	0.0015 B	0.0015 B	0.001 U	5.0
lead	0.03 U	0.03 U	0.03 U	0.271	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.030 U	5.0
mercury	0.002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	----	0.002 U	0.0020 U	0.2
selenium	0.005 J	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.0027 BJ	0.002 U	0.002 UJ	1.0
silver	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	5.0

Results of Ignitability Tests

	Flash Point (F)
DR-28	133.5
DR-03	>200
DR-11	>200
DR-45	>200
HD-05-03	>180

APPENDIX N

November 5, 1990
[file name = VOASP1]

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

VOLATILES
LEACHATE SEEPS (SP)
(page 1 of 6)

	SP-1-001	SP-2-001	SP-3-001	SP-4-001	SP-5-001	SP-6-001	SP-7-001
VOLATILES (8010)							
bromodichloromethane	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
bromoform	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U
bromomethane	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U
carbon tetrachloride	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
chlorobenzene	19.0	2.0 J	3.7 U	140.0	4.2	3.7 U	3.7 U
chloroethane	5.9 U	5.9 U	5.9 U	5.9 U	5.9 U	5.9 U	5.9 U
chloroform	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
chloromethane	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U
dibromochloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-dichloroethane	1.1 U	1.1 U	1.1 U	3.6	1.1 U	1.1 U	1.1 U
1,2-dichloroethane	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
1,1-dichloroethene	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
trans-1,2-dichloroethene	1.6 U	1.6 U	1.6 U	85.0	1.6 U	1.6 U	1.6 U
1,2-dichloropropane	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
cis-1,3-dichloropropene	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
trans-1,3-dichloropropene	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
methylene chloride	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
1,1,2,2-tetrachloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
tetrachloroethene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,1-trichloroethane	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
1,1,2-trichloroethane	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
trichloroethene	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
2-chloroethylvinyl ether	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U
vinyl chloride	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U
trichlorofluoromethane	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U

November 5, 1990
[file name = VSP80201]

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

VOLATILES
LEACHATE SEEPS (SP)
(Page 2 of 6)

	SP-1-001	SP-2-001	SP-3-001	SP-4-001	SP-5-001	SP-6-001	SP-7-001
VOLATILES (8020)							
benzene	4.0	8.0	2.0 U	2.0 U	3.0	2.0 U	2.0 U
toluene	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
ethylbenzene	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
xylenes	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U
chlorobenzene	11.0	10.0 U	10.0 U	63.0	10.0 U	10.0 U	10.0 U
1,2 dichlorobenzene	10.0 U	10.0 U	10.0 U	57.0	10.0 U	10.0 U	10.0 U
1,3 dichlorobenzene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U

November 5, 1990
[file name = VOASP2]

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

VOLATILES
LEACHATE SEEPS (SP)
(Page 3 of 6)

	SP-8-001	SP-9-001	SP-10-001	SP-11-001	SP-12-001	SP-13-001	SP-14-001
VOLATILES (8010)							
bromodichloromethane	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
bromoform	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U
bromomethane	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U
carbon tetrachloride	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
chlorobenzene	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U
chloroethane	5.9 U	5.9 U	5.9 U	5.9 U	31.0	11.0	5.9 U
chloroform	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
chloromethane	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U
dibromochloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-dichloroethane	2.3	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
1,2-dichloroethane	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
1,1-dichloroethene	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
trans-1,2-dichloroethene	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
1,2-dichloropropane	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
cis-1,3-dichloropropene	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
trans-1,3-dichloropropene	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
methylene chloride	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
1,1,2,2-tetrachloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
tetrachloroethene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,1-trichloroethane	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
1,1,2-trichloroethane	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
trichloroethene	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
2-chloroethylvinyl ether	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U
vinyl chloride	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U
trichlorofluoromethane	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U

November 5, 1990
[file name = VSP80202]

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

VOLATILES
LEACHATE SEEPS (SP)
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	SP-8-001	SP-9-001	SP-10-001	SP-11-001	SP-12-001	SP-13-001	SP-14-001
VOLATILES (8020)							
benzene	2.0 U	2.0 U	2.0 U	4.0	2.0 U	2.0 U	2.0 U
toluene	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
ethylbenzene	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
xylenes	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U
chlorobenzene	10.0 U	10.0 U	10.0 U	17.0	10.0 U	10.0 U	10.0 U
1,2 DCB	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
1,3 DCB	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U

November 5, 1990
[file name = VOASP3]

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

VOLATILES
LEACHATE SEEPS (SP)
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	SP-15-001	SP-16-001	SP-17-001	SP-18-001	SP-4-002
VOLATILES (8010)					
bromodichloromethane	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
bromoform	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U
bromomethane	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U
carbon tetrachloride	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
chlorobenzene	3.7 U	3.7 U	3.7 U	3.7 U	110.0
chloroethane	5.9 U	5.9 U	5.9 U	5.9 U	5.9 U
chloroform	0.7 U	0.7 U	1.8 U	0.7 U	0.7 U
chloromethane	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U
dibromochloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-dichloroethane	1.1 U	1.1 U	1.1 U	1.1 U	4.9
1,2-dichloroethane	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
1,1-dichloroethene	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
trans-1,2-dichloroethene	1.6 U	1.6 U	1.6 U	1.6 U	64.0
1,2-dichloropropane	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
cis-1,3-dichloropropene	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
trans-1,3-dichloropropene	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
methylene chloride	5.2 U	6.2 U	1.4 U	1.4 U	1.4 U
1,1,2,2-tetrachloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
tetrachloroethene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,1-trichloroethane	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
1,1,2-trichloroethane	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
trichloroethene	1.4 U	1.4 U	1.4 U	1.4 U	2.2
2-chloroethylvinyl ether	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U
vinyl chloride	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U
trichlorofluoromethane	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U

November 5, 1990
[file name = VSP80203]

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

VOLATILES
LEACHATE SEEPS (SP)
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	SP-15-001	SP-16-001	SP-17-001	SP-18-001	SP-4-002
VOLATILES (8020)					
benzene	2.0 U	2.0 U	2.0 U	2.0 U	3.0
toluene	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
ethylbenzene	3.0 U	3.0 U	3.0 U	3.0 U	6.0
xylenes	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U
chlorobenzene	10.0 U	10.0 U	10.0 U	10.0 U	98.0
1,2 dichlorobenzene	10.0 U	10.0 U	10.0 U	10.0 U	15.0
1,3 DCB	10.0 U	10.0 U	10.0 U	10.0 U	89.0

Notes: All values are in ug/l unless noted otherwise
U Indicates element was analyzed for but not detected. The number shown is the detection limit.

November 5, 1990
[file name = BNASP1]

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

SEMI-VOLATILES
LEACHATE SEEPS (SP)

	SP-1-001	SP-2-001	SP-3-001	SP-4-001	SP-4-002	SP-5-001	SP-6-001
SEMI-VOLATILES							
phenol	10.0	7.0 J	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
bis(2-chloroethyl)ether	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
2-chlorophenol	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
1,3-dichlorobenzene	10.0 U	10.0 U	10.0 U	4.0 J	5.0 J	10.0 U	10.0 U
1,4-dichlorobenzene	10.0 U	10.0 U	10.0 U	6.0 J	6.0 J	2.0 J	10.0 U
benzyl alcohol	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
1,2-dichlorobenzene	10.0 U	10.0 U	10.0 U	17.0	18.0	10.0 U	10.0 U
2-methylphenol	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
bis(2-chloroisopropyl)ether	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
4-methylphenol	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
N-nitroso-di-n-propylamine	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
hexachloroethane	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
nitrobenzene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
isophorone	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
2-nitrophenol	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
2,4-dimethylphenol	10.0 U	10.0 U	10.0 U	30.0	30.0	10.0 U	10.0 U
benzoic acid	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U
bis(2-chloroethoxy)methane	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
2,4-dichlorophenol	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
1,2,4-trichlorobenzene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
naphthalene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
4-chloroaniline	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
hexachlorobutadiene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
4-chloro-3-methylphenol	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
2-methynaphthalene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
hexachlorocyclopentadiene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
2,4,6-trichlorophenol	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
2,4,5-trichlorophenol	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U
2-chloronaphthalene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
2-nitroaniline	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U
dimethyl phthalate	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
acenaphthylene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
2,6-dinitrotoluene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
3-nitroaniline	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U
acenaphthene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
2,4-dinitrophenol	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U
4-nitrophenol	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U
dibenzofuran	20.0	63.0	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
2,4-dinitrotoluene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
diethylphthalate	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
4-chlorophenyl-phenylether	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
fluorene	10.0 U	2.0 J	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
4-nitroaniline	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U

November 5, 1990
[file name = BNASP1]

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

SEMI-VOLATILES
LEACHATE SEEPS (SP)
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	SP-1-001	SP-2-001	SP-3-001	SP-4-001	SP-4-002	SP-5-001	SP-6-001
4,6-dinitro-2-methylphenol	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U
N-nitrosodiphenylamine (1)	5.0 J	9.0 J	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
4-bromophenyl-phenylether	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
hexachlorobenzene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
pentachlorophenol	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U
phenanthrene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
anthracene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
di-n-butylphthalate	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
fluoranthene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
pyrene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
butylbenzylphthalate	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
3,3'-dichlorobenzidine	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U
benzo(a)anthracene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
chrysene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
bis(2-ethylhexyl)phthalate	10.0 U	10.0 U	10.0 U	11.0 U	10.0 U	6.0 U	10.0 U
di-n-octylphthalate	10.0 U	10.0 U	10.0 U	10.0 U	11.0	10.0 U	10.0 U
benzo(b)fluoranthene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
benzo(k)fluoranthene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
benzo(a)pyrene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
ideno(1,2,3-cd)pyrene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
dibenz(a,h)anthracene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
benzo(g,h,i)perylene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U

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[file name = BNASP2]

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

SEMI-VOLATILES
LEACHATE SEEPS (SP)
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	SP-7-001	SP-8-001	SP-9-001	SP-10-001	SP-11-001	SP-12-001	SP-13-001
SEMI-VOLATILES							
phenol	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
bis(2-chloroethyl)ether	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
2-chlorophenol	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
1,3-dichlorobenzene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
1,4-dichlorobenzene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
benzyl alcohol	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
1,2-dichlorobenzene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
2-methylphenol	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
bis(2-chloroisopropyl)ether	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
4-methylphenol	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
N-nitroso-di-n-propylamine	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
hexachloroethane	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
nitrobenzene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
isophorone	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
2-nitrophenol	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
2,4-dimethylphenol	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
benzoic acid	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U
bis(2-chloroethoxy)methane	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
2,4-dichlorophenol	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
1,2,4-trichlorobenzene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
naphthalene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
4-chloroaniline	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
hexachlorobutadiene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
4-chloro-3-methylphenol	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
2-methynaphthalene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
hexachlorocyclopentadiene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
2,4,6-trichlorophenol	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
2,4,5-trichlorophenol	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U
2-chloronaphthalene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
2-nitroaniline	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U
dimethyl phthalate	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
acenaphthylene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
2,6-dinitrotoluene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
3-nitroaniline	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U
acenaphthene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
2,4-dinitrophenol	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U
4-nitrophenol	50.0 U	10.0 U	50.0 U	10.0 U	50.0 U	10.0 U	10.0 U
dibenzofuran	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
2,4-dinitrotoluene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
diethylphthalate	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
4-chlorophenyl-phenylether	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
fluorene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
4-nitroaniline	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U

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[file name = BNASP2]

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

SEMI-VOLATILES
LEACHATE SEEPS (SP)
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	SP-7-001	SP-8-001	SP-9-001	SP-10-001	SP-11-001	SP-12-001	SP-13-001
4,6-dinitro-2-methylphenol	50.0 U	10.0 U	50.0 U	10.0 U	50.0 U	10.0 U	10.0 U
N-nitrosodiphenylamine (1)	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
4-bromophenyl-phenylether	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
hexachlorobenzene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
pentachlorophenol	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U
phenanthrene	10.0 U	10.0 U	10.0 U	2.0 J	10.0 U	10.0 U	10.0 U
anthracene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
di-n-butylphthalate	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
fluoranthene	10.0 U	10.0 U	10.0 U	3.0 J	10.0 U	10.0 U	10.0 U
pyrene	10.0 U	10.0 U	10.0 U	3.0 J	10.0 U	10.0 U	10.0 U
butylbenzylphthalate	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
3,3'-dichlorobenzidine	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U
benzo(a)anthracene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
chrysene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
bis(2-ethylhexyl)phthalate	10.0 U	9.0 J	60.0 B	10.0 U	13.0 U	10.0 U	12.0 U
di-n-octylphthalate	9.0 J	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
benzo(b)fluoranthene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
benzo(k)fluoranthene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
benzo(a)pyrene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
ideno(1,2,3-cd)pyrene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
dibenz(a,h)anthracene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
benzo(g,h,i)perylene	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U

November 5, 1990
[file name = BNASP3]

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

SEMI-VOLATILES
LEACHATE SEEPS (SP)
(Page 5 of 6)

	SP-14-001	SP-15-001	SP-16-001	SP-17-001	SP-18-001
SEMI-VOLATILES					
phenol	20.0 U	10.0 U	40.0 U	10.0 U	10.0 U
bis(2-chloroethyl)ether	20.0 U	10.0 U	40.0 U	10.0 U	10.0 U
2-chlorophenol	20.0 U	10.0 U	40.0 U	10.0 U	10.0 U
1,3-dichlorobenzene	20.0 U	10.0 U	40.0 U	10.0 U	10.0 U
1,4-dichlorobenzene	20.0 U	10.0 U	40.0 U	10.0 U	10.0 U
benzyl alcohol	20.0 U	10.0 U	40.0 U	10.0 U	10.0 U
1,2-dichlorobenzene	20.0 U	10.0 U	40.0 U	10.0 U	10.0 U
2-methylphenol	20.0 U	10.0 U	40.0 U	10.0 U	10.0 U
bis(2-chloroisopropyl)ether	20.0 U	10.0 U	40.0 U	10.0 U	10.0 U
4-methylphenol	20.0 U	10.0 U	40.0 U	10.0 U	10.0 U
N-nitroso-di-n-propylamine	20.0 U	10.0 U	40.0 U	10.0 U	10.0 U
hexachloroethane	20.0 U	10.0 U	40.0 U	10.0 U	10.0 U
nitrobenzene	20.0 U	10.0 U	40.0 U	10.0 U	10.0 U
isophorone	20.0 U	10.0 U	40.0 U	10.0 U	10.0 U
2-nitrophenol	20.0 U	10.0 U	40.0 U	10.0 U	10.0 U
2,4-dimethylphenol	20.0 U	10.0 U	40.0 U	10.0 U	10.0 U
benzoic acid	100.0 U	50.0 U	22.0 J	50.0 U	50.0 U
bis(2-chloroethoxy)methane	20.0 U	10.0 U	40.0 U	10.0 U	10.0 U
2,4-dichlorophenol	20.0 U	10.0 U	40.0 U	10.0 U	10.0 U
1,2,4-trichlorobenzene	20.0 U	10.0 U	40.0 U	10.0 U	10.0 U
naphthalene	20.0 U	10.0 U	40.0 U	10.0 U	10.0 U
4-chloroaniline	20.0 U	10.0 U	40.0 U	10.0 U	10.0 U
hexachlorobutadiene	20.0 U	10.0 U	40.0 U	10.0 U	10.0 U
4-chloro-3-methylphenol	20.0 U	10.0 U	40.0 U	10.0 U	10.0 U
2-methynaphthalene	20.0 U	10.0 U	40.0 U	10.0 U	10.0 U
hexachlorocyclopentadiene	20.0 U	10.0 U	40.0 U	10.0 U	10.0 U
2,4,6-trichlorophenol	20.0 U	10.0 U	40.0 U	10.0 U	10.0 U
2,4,5-trichlorophenol	100.0 U	50.0 U	200.0 U	50.0 U	50.0 U
2-chloronaphthalene	20.0 U	10.0 U	40.0 U	10.0 U	10.0 U
2-nitroaniline	100.0 U	50.0 U	200.0 U	50.0 U	50.0 U
dimethyl phthalate	20.0 U	10.0 U	40.0 U	10.0 U	10.0 U
acenaphthylene	20.0 U	10.0 U	40.0 U	10.0 U	10.0 U
2,6-dinitrotoluene	20.0 U	10.0 U	40.0 U	10.0 U	10.0 U
3-nitroaniline	100.0 U	50.0 U	200.0 U	50.0 U	50.0 U
acenaphthene	20.0 U	10.0 U	40.0 U	10.0 U	10.0 U
2,4-dinitrophenol	100.0 U	50.0 U	200.0 U	50.0 U	50.0 U
4-nitrophenol	20.0 U	10.0 U	40.0 U	10.0 U	50.0 U
dibenzofuran	20.0 U	10.0 U	40.0 U	10.0 U	10.0 U
2,4-dinitrotoluene	20.0 U	10.0 U	40.0 U	10.0 U	10.0 U
diethylphthalate	20.0 U	10.0 U	40.0 U	10.0 U	10.0 U
4-chlorophenyl-phenylether	20.0 U	10.0 U	40.0 U	10.0 U	10.0 U
fluorene	20.0 U	10.0 U	40.0 U	10.0 U	10.0 U
4-nitroaniline	100.0 U	50.0 U	200.0 U	50.0 U	50.0 U

November 5, 1990
[file name = BNASP3]

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

SEMI-VOLATILES
LEACHATE SEEPS (SP)
(Page 6 of 6)

	SP-14-001	SP-15-001	SP-16-001	SP-17-001	SP-18-001
4,6-dinitro-2-methylphenol	20.0 U	10.0 U	40.0 U	10.0 U	50.0 U
N-nitrosodiphenylamine (1)	20.0 U	10.0 U	40.0 U	10.0 U	10.0 U
4-bromophenyl-phenylether	20.0 U	10.0 U	40.0 U	10.0 U	10.0 U
hexachlorobenzene	20.0 U	10.0 U	40.0 U	10.0 U	10.0 U
pentachlorophenol	100.0 U	50.0 U	200.0 U	50.0 U	50.0 U
phenanthrene	5.0 J	10.0 U	40.0 U	10.0 U	10.0 U
anthracene	20.0 U	10.0 U	40.0 U	10.0 U	10.0 U
di-n-butylphthalate	20.0 U	10.0 U	40.0 U	10.0 U	10.0 U
fluoranthene	9.0 J	10.0 U	9.0 J	10.0 U	10.0 U
pyrene	8.0 J	10.0 U	11.0 J	10.0 U	10.0 U
butylbenzylphthalate	20.0 U	10.0 U	40.0 U	10.0 U	10.0 U
3,3'-dichlorobenzidine	40.0 U	20.0 U	80.0 U	20.0 U	20.0 U
benzo(a)anthracene	5.0 J	10.0 U	40.0 U	10.0 U	10.0 U
chrysene	5.0 J	10.0 U	40.0 U	10.0 U	10.0 U
bis(2-ethylhexyl)phthalate	20.0 U	10.0	13.0 J	11.0	12.0 U
di-n-octylphthalate	20.0 U	10.0 U	40.0 U	10.0 U	10.0 U
benzo(b)fluoranthene	7.0 J	10.0 U	40.0 U	10.0 U	10.0 U
benzo(k)fluoranthene	20.0 U	10.0 U	40.0 U	10.0 U	10.0 U
benzo(a)pyrene	5.0 J	10.0 U	40.0 U	10.0 U	10.0 U
ideno(1,2,3-cd)pyrene	20.0 U	10.0 U	40.0 U	10.0 U	10.0 U
dibenz(a,h)anthracene	20.0 U	10.0 U	40.0 U	10.0 U	10.0 U
benzo(g,h,i)perylene	20.0 U	10.0 U	40.0 U	10.0 U	10.0 U

Notes: All values are in ug/l unless noted otherwise
U Indicates element was analyzed for but not detected. The number shown is the detection limit.
J Indicates an estimated value.
B Indicates the analyte was found in the blank. Indicates possible blank contamination.
(1) Cannot be separated from diphenylamine

November 5, 1990
[file name = PESTSP1]

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

PESTICIDES/PCBS
LEACHATE SEEPS (SP)
(Page 1 of 3)

	SP-1-001	SP-2-001	SP-3-001	SP-4-001	SP-5-001	SP-6-001	SP-7-001
PESTICIDES/PCBS							
alpha-BHC	0.015 UJM	0.050 UJM	0.015 UJM	0.005 U	0.005 U	0.005 UJM	0.005 UJM
beta-BHC	0.015 UJM	0.050 UJM	0.015 UJM	0.005 U	0.005 U	0.005 UJM	0.005 UJM
delta-BHC	0.015 UJM	0.050 UJM	0.015 UJM	0.005 U	0.005 U	0.005 UJM	0.005 UJM
gamma-BHC (Lindane)	0.150 UJM	0.050 UJM	0.015 UJM	0.005 U	0.005 U	0.005 UJM	0.005 UJM
heptachlor	0.015 UJM	0.050 UJM	0.015 UJM	0.005 U	0.005 U	0.005 UJM	0.005 UJM
aldrin	0.015 UJM	0.050 UJM	0.015 UJM	0.005 U	0.005 U	0.005 UJM	0.005 UJM
heptachlor epoxide	0.015 UJM	0.050 UJM	0.015 UJM	0.005 U	0.005 U	0.005 UJM	0.005 UJM
endosulfan I	0.015 UJM	0.050 UJM	0.015 UJM	0.005 U	0.005 U	0.005 UJM	0.005 UJM
dieldrin	0.030 UJM	0.100 UJM	0.030 UJM	0.010 U	0.010 U	0.010 UJM	0.010 UJM
4,4'-DDE	0.030 UJM	0.100 UJM	0.030 UJM	0.010 U	0.010 U	0.010 UJM	0.010 UJM
endrin	0.030 UJM	0.100 UJM	0.030 UJM	0.010 U	0.010 U	0.010 UJM	0.028 JM
endosulfan II	0.030 UJM	0.100 UJM	0.054 JM	0.010 U	0.010 U	0.010 UJM	0.032 JM
4,4'-DDD	0.030 UJM	0.100 UJM	0.030 UJM	0.010 U	0.010 U	0.010 UJM	0.010 UJM
endosulfan sulfate	0.030 UJM	0.100 UJM	0.030 UJM	0.010 U	0.010 U	0.010 UJM	0.010 UJM
4,4'DDT	0.030 UJM	0.100 UJM	0.030 UJM	0.010 U	0.010 U	0.010 UJM	0.010 UJM
methoxychlor	0.150 UJM	0.500 UJM	0.150 UJM	0.050 U	0.050 U	0.050 UJM	0.050 UJM
endrin keytone	0.030 UJM	0.100 UJM	0.030 UJM	0.010 U	0.010 U	0.010 UJM	0.010 UJM
alpha-chlordane	0.150 UJM	0.500 UJM	0.150 UJM	0.050 U	0.050 U	0.050 UJM	0.050 UJM
gamma-chlordane	0.150 UJM	0.500 UJM	0.150 UJM	0.050 U	0.050 U	0.050 UJM	0.050 UJM
toxaphene	0.300 UJM	1.000 UJM	0.300 UJM	0.100 U	0.100 U	0.100 UJM	0.100 UJM
aroclor-1016	0.150 UJM	0.500 UJM	0.150 UJM	0.050 U	0.050 U	0.050 UJM	0.050 UJM
aroclor-1221	0.150 UJM	0.500 UJM	0.150 UJM	0.050 U	0.050 U	0.050 UJM	0.050 UJM
aroclor-1232	0.150 UJM	0.500 UJM	0.150 UJM	0.050 U	0.050 U	0.050 UJM	0.050 UJM
aroclor-1242	0.150 UJM	0.500 UJM	0.150 UJM	0.050 U	0.050 U	0.050 UJM	0.050 UJM
aroclor-1248	0.150 UJM	0.500 UJM	0.150 UJM	0.050 U	0.050 U	0.050 UJM	0.050 UJM
aroclor-1254	0.300 UJM	1.000 UJM	0.300 UJM	0.100 U	0.100 U	0.100 UJM	0.100 UJM
aroclor-1260	0.300 UJM	1.000 UJM	0.300 UJM	0.100 U	0.100 U	0.100 UJM	0.100 UJM

November 5, 1990
[file name = PESTSP2]

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

PESTICIDES/PCBS
LEACHATE SEEPS (SP)
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	SP-8-001	SP-9-001	SP-10-001	SP-11-001	SP-12-001	SP-13-001
PESTICIDES/PCBS						
alpha-BHC	0.010 UJM	0.005 UJM	0.015 U	0.025 UJM	0.025 U	0.050 U
beta-BHC	0.010 UJM	0.005 UJM	0.015 U	0.025 UJM	0.025 U	0.050 U
delta-BHC	0.010 UJM	0.005 UJM	0.015 U	0.025 UJM	0.025 U	0.050 U
gamma-BHC (Lindane)	0.010 UJM	0.005 UJM	0.015 U	0.025 UJM	0.025 U	0.050 U
heptachlor	0.010 UJM	0.005 UJM	0.015 U	0.025 UJM	0.025 U	0.050 U
aldrin	0.010 UJM	0.005 UJM	0.015 U	0.025 UJM	0.025 U	0.050 U
heptachlor epoxide	0.010 UJM	0.005 UJM	0.015 U	0.025 UJM	0.025 U	0.050 U
endosulfan I	0.010 UJM	0.005 UJM	0.015 U	0.025 UJM	0.025 U	0.050 U
dieldrin	0.0032 JM	0.010 UJM	0.030 U	0.050 UJM	0.007 J	0.020 J
4,4'-DDE	0.020 UJM	0.010 UJM	0.030 U	0.050 UJM	0.050 U	0.100 U
endrin	0.020 UJM	0.010 UJM	0.030 U	0.050 UJM	0.050 U	0.100 U
endosulfan II	0.020 UJM	0.033 JM	0.030 U	0.050 UJM	0.050 U	0.100 U
4,4'-DDD	0.020 UJM	0.010 UJM	0.030 U	0.050 UJM	0.050 U	0.100 U
endosulfan sulfate	0.020 UJM	0.010 UJM	0.030 U	0.050 UJM	0.050 U	0.100 U
4,4'DDT	0.020 UJM	0.010 UJM	0.030 U	0.050 UJM	0.050 U	0.100 U
methoxychlor	0.100 UJM	0.050 UJM	0.150 U	0.250 UJM	0.250 U	0.500 U
endrin keytone	0.020 UJM	0.010 UJM	0.030 U	0.050 UJM	0.050 U	0.100 U
alpha-chlordane	0.100 UJM	0.050 UJM	0.150 U	0.250 UJM	0.250 U	0.500 U
gamma-chlordane	0.100 UJM	0.050 UJM	0.150 U	0.250 UJM	0.250 U	0.500 U
toxaphene	0.200 UJM	0.100 UJM	0.300 U	0.500 UJM	0.500 U	1.000 U
aroclor-1016	0.100 UJM	0.050 UJM	0.150 U	0.250 UJM	0.250 U	0.500 U
aroclor-1221	0.100 UJM	0.050 UJM	0.150 U	0.250 UJM	0.250 U	0.500 U
aroclor-1232	0.100 UJM	0.050 UJM	0.150 U	0.250 UJM	0.250 U	0.500 U
aroclor-1242	0.100 UJM	0.050 UJM	0.150 U	0.250 UJM	0.250 U	0.500 U
aroclor-1248	0.100 UJM	0.050 UJM	0.150 U	0.250 UJM	0.250 U	0.500 U
aroclor-1254	0.200 UJM	0.100 UJM	0.300 U	0.500 UJM	0.500 U	1.000 U
aroclor-1260	0.200 UJM	0.100 UJM	0.300 U	0.500 UJM	0.500 U	1.000 U

November 5, 1990
[file name = PESTSP3]

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

PESTICIDES/PCBS
LEACHATE SEEPS (SP)
(Page 3 of 3)

	SP-14-001	SP-15-001	SP-16-001	SP-17-001	SP-18-001	SP-4-002
PESTICIDES/PCBS						
alpha-BHC	0.050 U	0.005 UJM	0.010 UJM	0.015 UJM	0.005 UJM	0.025 UJM
beta-BHC	0.050 U	0.005 UJM	0.010 UJM	0.015 UJM	0.005 UJM	0.025 UJM
delta-BHC	0.050 U	0.005 UJM	0.010 UJM	0.015 UJM	0.005 UJM	0.025 UJM
gamma-BHC (Lindane)	0.050 U	0.005 UJM	0.010 UJM	0.015 UJM	0.005 UJM	0.025 UJM
heptachlor	0.050 U	0.005 UJM	0.010 UJM	0.015 UJM	0.005 UJM	0.025 UJM
aldrin	0.050 U	0.005 UJM	0.0074 JM	0.0081 JM	0.005 UJM	0.025 UJM
heptachlor epoxide	0.050 U	0.005 UJM	0.010 UJM	0.015 UJM	0.005 UJM	0.025 UJM
endosulfan I	0.050 U	0.005 UJM	0.010 UJM	0.015 UJM	0.005 UJM	0.025 UJM
dieldrin	0.100 U	0.010 UJM	0.028 JM	0.030 UJM	0.010 UJM	0.050 UJM
4,4'-DDE	0.100 U	0.010 UJM	0.020 UJM	0.030 UJM	0.010 UJM	0.050 UJM
endrin	0.100 U	0.010 UJM	0.020 UJM	0.030 UJM	0.010 UJM	0.050 UJM
endosulfan II	0.100 U	0.010 UJM	0.020 UJM	0.030 UJM	0.010 UJM	0.050 UJM
4,4'-DDD	0.100 U	0.010 UJM	0.020 UJM	0.030 UJM	0.011 JM	0.050 UJM
endosulfan sulfate	0.100 U	0.010 UJM	0.020 UJM	0.030 UJM	0.010 UJM	0.050 UJM
4,4'DDT	0.100 U	0.010 UJM	0.020 UJM	0.030 UJM	0.010 UJM	0.050 UJM
methoxychlor	0.500 U	0.050 UJM	0.100 UJM	0.150 UJM	0.050 UJM	0.250 UJM
endrin keytone	0.100 U	0.010 UJM	0.020 UJM	0.030 UJM	0.010 UJM	0.050 UJM
alpha-chlordane	0.500 U	0.050 UJM	0.100 UJM	0.150 UJM	0.050 UJM	0.250 UJM
gamma-chlordane	0.500 U	0.050 UJM	0.100 UJM	0.150 UJM	0.050 UJM	0.250 UJM
toxaphene	1.000 U	0.100 UJM	0.200 UJM	0.300 UJM	0.100 UJM	0.500 UJM
aroclor-1016	0.500 U	0.050 UJM	0.100 UJM	0.150 UJM	0.050 UJM	0.250 UJM
aroclor-1221	0.500 U	0.050 UJM	0.100 UJM	0.150 UJM	0.050 UJM	0.250 UJM
aroclor-1232	0.500 U	0.050 UJM	0.100 UJM	0.150 UJM	0.050 UJM	0.250 UJM
aroclor-1242	0.500 U	0.050 UJM	0.100 UJM	0.150 UJM	0.050 UJM	0.250 UJM
aroclor-1248	0.500 U	0.050 UJM	0.100 UJM	0.150 UJM	0.050 UJM	0.250 UJM
aroclor-1254	1.000 U	0.100 UJM	0.200 UJM	0.300 UJM	0.100 UJM	0.500 UJM
aroclor-1260	1.000 U	0.100 UJM	0.200 UJM	0.300 UJM	0.100 UJM	0.500 UJM

Notes: All values are in ug/l unless noted otherwise
U Indicates element was analyzed for but not detected. The number shown is the detection limit.
J Indicates an estimated value.
JM Indicates an estimated value due to surrogate spike recovery out of control.

November 5, 1990
[file name = INORGSP1]

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

INORGANICS
LEACHATE SEEPS (SP)
(Page 1 of 3)

	SP-1-001	SP-2-001	SP-3-001	SP-4-001	SP-5-001	SP-6-001	SP-7-001
INORGANICS							
aluminum	41.7 B	48.3 B	39.8 B	297.0	384.0	596.0	303000.0
antimony	34.8 U	34.8 U	34.8 U	34.8 U	34.8 U	34.8 U	34.8 U
arsenic	2.2 U	2.2 U	2.2 U	6.8 B	2.2 U	8.0 B	2.2 U
barium	294.0	1030.0	112.0 B	216.0	938.0	1210.0	10000.0
beryllium	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.58 B	14.8
cadmium	4.9 B	3.5 U	7.3	15.1	20.4	4.3 B	61.2
calcium	270000.0	238000.0	331000.0	323000.0	177000.0	303000.0	603000.0
chromium	3.5 B	3.8 B	3.4 U	7.6 B	3.4 U	4.7 B	426.0
cobalt	2.8 U	2.8 U	7.1 B	2.8 U	2.8 U	2.8 U	157.0
copper	87.0	77.7	85.5	92.2	26.9	75.7	784.0
iron	R	R	R	75700.0	136000.0	R	R
lead	58.8	50.1	54.4	231.0	24.9	79.6	1640.0
magnesium	57200.0	59100.0	64500.0	65100.0	26500.0	43100.0	165000.0
manganese	1060.0	648.0	1310.0	1300.0	751.0	891.0	16100.0
mercury	0.25 JS	0.2 U	0.36 JS	0.71	0.3	0.36 JS	4.7 JS
nickel	20.4 B	21.9 B	53.4	27.7 B	12.8 U	12.8 U	521.0
potassium	29500.0	34300.0	27800.0	20000.0	8910.0	20600.0	54200.0
selenium	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	24.0 U
silver	3.1 U	3.1 U	3.1 U	3.1 U	3.1 U	5.3 B	16.6
sodium	37100.0	40600.0	38200.0	52000.0	16600.0	27000.0	36100.0
thallium	1.7 U	1.7 U	1.7 U	2.5 U	2.5 U	1.7 U	1.7 U
vanadium	2.4 U	2.4 U	2.4 U	3.3 B	2.4 U	2.4 U	471.0
zinc	314.0	263.0	715.0	991.0	181.0	288.0	3730.0
cyanide	R	R	R	18.0	10.0 U	R	R

November 5, 1990
[file name = INORGSP2]

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

INORGANICS
LEACHATE SEEPS (SP)
(Page 2 of 3)

	SP-8-001	SP-9-001	SP-10-001	SP-11-001	SP-12-001	SP-13-001	SP-14-001
INORGANICS							
aluminum	1410.0	145.0 B	759.0	55.6 B	374.0	128.0 B	15600.0
antimony	34.8 U	34.8 U	34.8 U	34.8 U	34.8 U	34.8 U	34.8 U
arsenic	6.0 BJS	2.2 U	6.7 BJS	3.9 B	16.7 JS	8.1 BJS	6.7 BJS
barium	652.0	80.3 B	165.0 B	475.0	982.0	133.0 B	406.0
beryllium	0.46 B	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.66 B
cadmium	13.1	8.7	3.5 U	18.1	13.5	12.4	11.4
calcium	304000.0	274000.0	449000.0	259000.0	500000.0	457000.0	194000.0
chromium	10.4	3.4 U	11.7	5.8 B	6.5 B	5.2 B	47.0
cobalt	2.8 U	2.8 U	11.6 B	8.4 B	17.0 B	42.5 B	16.8 B
copper	216.0	19.7 B	204.0	232.0	612.0	433.0	653.0
iron	376000.0	R	65800.0	R	214000.0	118000.0	90700.0
lead	476.0	6.7	295.0	21.0	167.0	214.0	511.0
magnesium	65900.0	40800.0	71100.0	54200.0	74500.0	68200.0	44300.0
manganese	1420.0	123.0	3130.0	1360.0	3520.0	3660.0	971.0
mercury	1.8 JS	0.25 JS	0.81 JS	3.1 JS	1.0 JS	1.1 JS	2.1 JS
nickel	84.1	12.8 U	107.0	63.8	264.0	159.0	127.0
potassium	17200.0	19600.0	16800.0	30500.0	19000.0	14900.0	11300.0
selenium	12.0 UJS	2.4 U	12.0 JS	2.4 U	12.0 UJS	12.0 UJS	12.8 JS
silver	5.2 B	3.1 U	4.5 B	3.1 U	4.5 B	4.4 B	4.8 B
sodium	74400.0	25600.0	34800.0	46000.0	37800.0	33600.0	37300.0
thallium	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
vanadium	2.4 U	2.4 U	4.0 B	2.4 U	2.4 U	2.4 U	30.9 B
zinc	3360.0	66.0	979.0	1160.0	2420.0	1690.0	1610.0
cyanide	31.0	R	10.0 U	R	10.0 U	10.0 U	10.0 U

November 5, 1990
[file name = INORGSP3]

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

INORGANICS
LEACHATE SEEPS (SP)
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	SP-15-001	SP-16-001	SP-17-001	SP-18-001	SP-4-002
INORGANICS					
aluminum	329.0	2780.0	101.0 B	1370.0	216.0
antimony	34.8 U	34.8 U	34.8 U	34.8 U	34.8 U
arsenic	3.5 BJS	4.3 BJS	2.2 UJS	6.4 B	6.1 B
barium	375.0	3910.0	1200.0	145.0 B	202.0
beryllium	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
cadmium	3.5 U	122.0	10.8	3.7 B	7.7
calcium	151000.0	504000.0	272000.0	145000.0	316000.0
chromium	4.0 B	52.4	3.4 U	5.5 B	5.3 B
cobalt	3.4 B	42.1 B	7.4 B	2.8 U	2.8 U
copper	13.9 B	727.0	325.0	23.0 B	76.4
iron	44000.0	494000.0	110000.0	R	R
lead	12.9	670.0	123.0	98.6	201.0
magnesium	43800.0	64000.0	43600.0	32500.0	63600.0
manganese	1300.0	3150.0	1580.0	711.0	1270.0
mercury	1.5 JS	2.8 JS	1.0 JS	0.36 JS	0.7 JS
nickel	12.8 U	234.0	99.3	12.8 U	20.6 B
potassium	32900.0	23800.0	14300.0	5500.0	19400.0
selenium	2.4 UJS	12.0 UJS	2.4 UJS	2.4 U	2.4 U
silver	3.4 B	7.4 B	3.1 U	3.1 U	3.1 U
sodium	209000.0	40600.0	25200.0	187000.0	51300.0
thallium	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
vanadium	3.7 B	2.4 U	2.4 U	3.7 B	2.4 U
zinc	R	8270.0	636.0	135.0	743.0
cyanide	10.0 U	23.0	10.0 U	R	

Notes: All values are in ug/l unless noted otherwise
U Indicates element was analyzed for but not detected. The number shown is the detection limit.
JS Indicates analyte value is estimated due to % recovery exceeding QA/QC criteria for matrix spike
B Indicates the analyte value is between the contract required detection limit (CRDL) and the instrument detection limit (IDL).
R Indicates the analyte was rejected due to failing QA/QC criteria

November 5, 1990
[file name = VOASS1]

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

VOLATILES
LEACHATE SEEP SEDIMENT (SS)
(Page 1 of 3)

	SS-1-001	SS-2-001	SS-3-001	SS-4-001	SS-5-001	SS-6-001	SS-7-001
VOLATILES							
chloromethane	16.0 U	29.0 U	36.0 U	82.0 U	14.0 U	16.0 U	19.0 U
bromomethane	R	R	R	82.0 U	14.0 U	16.0 U	19.0 U
vinyl chloride	16.0 U	29.0 U	36.0 U	82.0 U	14.0 U	16.0 U	19.0 U
chloroethane	16.0 U	29.0 U	36.0 U	82.0 U	14.0 U	16.0 U	19.0 U
methylene chloride	26.0 U	17.0 U	150.0 B	68.0	15.0	16.0	33.0
acetone	38.0 U	43.0 U	240.0 B	180.0	14.0 U	15.0 J	35.0
carbon disulfide	R	R	R	R	7.0 U	R	R
1,1-dichloroethene	8.0 U	15.0 U	18.0 U	41.0 U	7.0 U	8.0 U	9.0 U
1,1-dichloroethane	8.0 U	15.0 U	18.0 U	41.0 U	7.0 U	8.0 U	9.0 U
1,2-dichloroethene (total)	8.0 U	15.0 U	18.0 U	41.0 U	7.0 U	8.0 U	9.0 U
chloroform	8.0 U	15.0 U	18.0 U	41.0 U	7.0 U	8.0 U	9.0 U
1,2-dichloroethane	8.0 U	15.0 U	18.0 U	41.0 U	7.0 U	8.0 U	9.0 U
2-butanone	16.0 U	29.0 U	36.0 U	82.0 U	14.0 U	16.0 U	19.0 U
1,1,1-trichloroethane	8.0 U	15.0 U	18.0 U	41.0 U	7.0 U	8.0 U	9.0 U
carbon tetrachloride	8.0 U	15.0 U	18.0 U	41.0 U	7.0 U	8.0 U	9.0 U
vinyl acetate	16.0 U	29.0 U	36.0 U	82.0 U	14.0 U	16.0 U	19.0 U
bromodichloromethane	8.0 U	15.0 U	18.0 U	41.0 U	7.0 U	8.0 U	9.0 U
1,2-dichloropropane	8.0 U	15.0 U	18.0 U	41.0 U	7.0 U	8.0 U	9.0 U
cis-1,3-dichloropropene	8.0 U	15.0 U	18.0 U	41.0 U	7.0 U	8.0 U	9.0 U
trichloroethene	8.0 U	15.0 U	18.0 U	41.0 U	7.0 U	8.0 U	9.0 U
dibromochloromethane	8.0 U	15.0 U	18.0 U	41.0 U	7.0 U	8.0 U	9.0 U
1,1,2-trichloroethane	8.0 U	15.0 U	18.0 U	41.0 U	7.0 U	8.0 U	9.0 U
benzene	8.0 U	15.0 U	18.0 U	41.0 U	7.0 U	8.0 U	9.0 U
trans-1,3-dichloropropene	8.0 U	15.0 U	18.0 U	41.0 U	7.0 U	8.0 U	9.0 U
bromoform	8.0 U	15.0 U	18.0 U	41.0 U	7.0 U	8.0 U	9.0 U
4-methyl-2-pentanone	16.0 U	29.0 U	36.0 U	82.0 U	14.0 U	16.0 U	19.0 U
2-hexanone	16.0 U	29.0 U	36.0 U	82.0 U	14.0 U	16.0 U	19.0 U
tetrachloroethene	8.0 U	15.0 U	18.0 U	41.0 U	7.0 U	8.0 U	9.0 U
1,1,2,2-tetrachloroethane	8.0 U	15.0 U	18.0 U	41.0 U	7.0 U	8.0 U	9.0 U
toluene	8.0 U	15.0 U	18.0 U	41.0 U	7.0 U	8.0 U	9.0 U
chlorobenzene	8.0 U	15.0 U	18.0 U	41.0 U	7.0 U	8.0 U	9.0 U
ethylbenzene	8.0 U	15.0 U	18.0 U	41.0 U	7.0 U	8.0 U	9.0 U
styrene	8.0 U	15.0 U	18.0 U	41.0 U	7.0 U	8.0 U	9.0 U
xylenes (total)	8.0 U	15.0 U	18.0 U	41.0 U	7.0 U	8.0 U	9.0 U

November 5, 1990
[file name = VOASS2]

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

VOLATILES
LEACHATE SEEP SEDIMENT (SS)
(Page 2 of 3)

	SS-8-001	SS-9-001	SS-10-001	SS-11-001	SS-12-001	SS-13-001	SS-14-001
VOLATILES							
chloromethane	48.0 U	13.0 U	33.0 U	19.0 U	26.0 U	22.0 U	29.0 U
bromomethane	48.0 U	13.0 U	R	R	R	R	R
vinyl chloride	48.0 U	13.0 U	33.0 U	19.0 U	26.0 U	22.0 U	29.0 U
chloroethane	48.0 U	13.0 U	33.0 U	19.0 U	26.0 U	22.0 U	29.0 U
methylene chloride	35.0	9.0	21.0 U	2.0 U	32.0 U	11.0 U	14.0 U
acetone	770.0	30.0	31.0 U	19.0 U	26.0 U	24.0 U	350.0 B
carbon disulfide	R	R	R	R	R	R	R
1,1-dichloroethene	24.0 U	7.0 U	17.0 U	10.0 U	13.0 U	11.0 U	14.0 U
1,1-dichloroethane	24.0 U	7.0 U	17.0 U	10.0 U	13.0 U	11.0 U	14.0 U
1,2-dichloroethene (total)	24.0 U	7.0 U	17.0 U	10.0 U	13.0 U	11.0 U	14.0 U
chloroform	24.0 U	7.0 U	17.0 U	10.0 U	13.0 U	11.0 U	14.0 U
1,2-dichloroethane	24.0 U	7.0 U	17.0 U	10.0 U	13.0 U	11.0 U	14.0 U
2-butanone	48.0 U	13.0 U	33.0 U	19.0 U	26.0 U	22.0 U	29.0 U
1,1,1-trichloroethane	24.0 U	7.0 U	17.0 U	10.0 U	13.0 U	11.0 U	14.0 U
carbon tetrachloride	24.0 U	7.0 U	17.0 U	10.0 U	13.0 U	11.0 U	14.0 U
vinyl acetate	48.0 U	13.0 U	33.0 U	19.0 U	26.0 U	22.0 U	29.0 U
bromodichloromethane	24.0 U	7.0 U	17.0 U	10.0 U	13.0 U	11.0 U	14.0 U
1,2-dichloropropane	24.0 U	7.0 U	17.0 U	10.0 U	13.0 U	11.0 U	14.0 U
cis-1,3-dichloropropene	24.0 U	7.0 U	17.0 U	10.0 U	13.0 U	11.0 U	14.0 U
trichloroethene	24.0 U	7.0 U	17.0 U	10.0 U	13.0 U	11.0 U	14.0 U
dibromochloromethane	24.0 U	7.0 U	17.0 U	10.0 U	13.0 U	11.0 U	14.0 U
1,1,2-trichloroethane	24.0 U	7.0 U	17.0 U	10.0 U	13.0 U	11.0 U	14.0 U
benzene	24.0 U	7.0 U	17.0 U	10.0 U	13.0 U	11.0 U	14.0 U
trans-1,3-dichloropropene	24.0 U	7.0 U	17.0 U	10.0 U	13.0 U	11.0 U	14.0 U
bromoform	24.0 U	7.0 U	17.0 U	10.0 U	13.0 U	11.0 U	14.0 U
4-methyl-2-pentanone	48.0 U	13.0 U	33.0 U	19.0 U	26.0 U	22.0 U	29.0 U
2-hexanone	48.0 U	13.0 U	33.0 U	19.0 U	26.0 U	22.0 U	29.0 U
tetrachloroethene	24.0 U	7.0 U	17.0 U	10.0 U	13.0 U	11.0 U	14.0 U
1,1,2,2-tetrachloroethane	24.0 U	7.0 U	17.0 U	10.0 U	13.0 U	11.0 U	14.0 U
toluene	24.0 U	7.0 U	17.0 U	10.0 U	13.0 U	11.0 U	14.0 U
chlorobenzene	24.0 U	7.0 U	17.0 U	10.0 U	13.0 U	11.0 U	10.0 J
ethylbenzene	24.0 U	7.0 U	17.0 U	10.0 U	13.0 U	11.0 U	14.0 U
styrene	24.0 U	7.0 U	17.0 U	10.0 U	13.0 U	11.0 U	14.0 U
xylenes (total)	24.0 U	7.0 U	17.0 U	10.0 U	13.0 U	11.0 U	14.0 U

November 5, 1990
[file name = VOASS3]

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

VOLATILES
LEACHATE SEEP SEDIMENT (SS)
(Page 3 of 3)

	SS-15-001	SS-16-001	SS-17-001	SS-18-001	SS-4-002
VOLATILES					
chloromethane	26.0 U	24.0 U	24.0 U	27.0 U	21.0 U
bromomethane	R	R	R	R	21.0 U
vinyl chloride	26.0 U	24.0 U	24.0 U	27.0 U	21.0 U
chloroethane	26.0 U	24.0 U	24.0 U	27.0 U	21.0 U
methylene chloride	56.0	41.0	31.0	22.0	34.0
acetone	26.0 U	24.0 U	26.0 U	110.0 U	21.0 U
carbon disulfide	R	R	R	R	R
1,1-dichloroethene	13.0 U	12.0 U	12.0 U	14.0 U	10.0 U
1,1-dichloroethane	13.0 U	12.0 U	12.0 U	14.0 U	10.0 U
1,2-dichloroethene (total)	13.0 U	12.0 U	12.0 U	14.0 U	10.0 U
chloroform	13.0 U	12.0 U	12.0 U	14.0 U	10.0 U
1,2-dichloroethane	13.0 U	12.0 U	12.0 U	14.0 U	10.0 U
2-butanone	26.0 U	24.0 U	24.0 U	27.0 U	21.0 U
1,1,1-trichloroethane	13.0 U	12.0 U	12.0 U	14.0 U	10.0 U
carbon tetrachloride	13.0 U	12.0 U	12.0 U	14.0 U	10.0 U
vinyl acetate	26.0 U	24.0 U	24.0 U	27.0 U	21.0 U
bromodichloromethane	13.0 U	12.0 U	12.0 U	14.0 U	10.0 U
1,2-dichloropropane	13.0 U	12.0 U	12.0 U	14.0 U	10.0 U
cis-1,3-dichloropropene	13.0 U	12.0 U	12.0 U	14.0 U	10.0 U
trichloroethene	13.0 U	12.0 U	12.0 U	14.0 U	10.0 U
dibromochloromethane	13.0 U	12.0 U	12.0 U	14.0 U	10.0 U
1,1,2-trichloroethane	13.0 U	12.0 U	12.0 U	14.0 U	10.0 U
benzene	13.0 U	12.0 U	12.0 U	14.0 U	10.0 U
trans-1,3-dichloropropene	13.0 U	12.0 U	12.0 U	14.0 U	10.0 U
bromoform	13.0 U	12.0 U	12.0 U	14.0 U	10.0 U
4-methyl-2-pentanone	26.0 U	24.0 U	24.0 U	27.0 U	21.0 U
2-hexanone	26.0 U	24.0 U	24.0 U	27.0 U	21.0 U
tetrachloroethene	13.0 U	12.0 U	12.0 U	14.0 U	10.0 U
1,1,2,2-tetrachloroethane	13.0 U	12.0 U	12.0 U	14.0 U	10.0 U
toluene	13.0 U	12.0 U	12.0 U	14.0 U	10.0 U
chlorobenzene	13.0 U	12.0 U	12.0 U	14.0 U	23.0
ethylbenzene	13.0 U	12.0 U	12.0 U	14.0 U	10.0 U
styrene	13.0 U	12.0 U	12.0 U	14.0 U	10.0 U
xylenes (total)	13.0 U	12.0 U	12.0 U	14.0 U	10.0 U

Notes: All values are in ug/kg unless noted otherwise
U Indicates element was analyzed for but not detected. The number shown is the detection limit.
J Indicates an estimated value.
B Indicates the analyte was found in the blank. Indicates possible blank contamination.
R Indicates the analyte was rejected due to failing QA/QC criteria

November 5, 1990
[file name = BNASS1]

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

SEMI-VOLATILES
LEACHATE SEEP SEDIMENT (SS)
(Page 1 of 6)

	SS-1-001	SS-2-001	SS-3-001	SS-4-001	SS-4-002	SS-5-001	SS-6-001
SEMI-VOLATILES							
phenol	2600.0 U	4900.0 U	5900.0 U	540.0 U	3400.0 U	890.0 U	530.0 U
bis(2-chloroethyl)ether	2600.0 U	4900.0 U	5900.0 U	540.0 U	3400.0 U	890.0 U	530.0 U
2-chlorophenol	2600.0 U	4900.0 U	5900.0 U	540.0 U	3400.0 U	890.0 U	530.0 U
1,3-dichlorobenzene	2600.0 U	4900.0 U	5900.0 U	540.0 U	3400.0 U	890.0 U	530.0 U
1,4-dichlorobenzene	2600.0 U	4900.0 U	5900.0 U	540.0 U	3400.0 U	890.0 U	530.0 U
benzyl alcohol	2600.0 U	4900.0 U	5900.0 U	540.0 U	3400.0 U	890.0 U	530.0 U
1,2-dichlorobenzene	2600.0 U	4900.0 U	5900.0 U	540.0 U	3400.0 U	890.0 U	530.0 U
2-methylphenol	2600.0 U	4900.0 U	5900.0 U	540.0 U	3400.0 U	890.0 U	530.0 U
bis(2-chloroisopropyl)ether	2600.0 U	4900.0 U	5900.0 U	540.0 U	3400.0 U	890.0 U	530.0 U
4-methylphenol	2600.0 U	4900.0 U	5900.0 U	540.0 U	3400.0 U	890.0 U	530.0 U
N-nitroso-di-n-propylamine	2600.0 U	4900.0 U	5900.0 U	540.0 U	3400.0 U	890.0 U	530.0 U
hexachloroethane	2600.0 U	4900.0 U	5900.0 U	540.0 U	3400.0 U	890.0 U	530.0 U
nitrobenzene	2600.0 U	4900.0 U	5900.0 U	540.0 U	3400.0 U	890.0 U	530.0 U
isophorone	2600.0 U	4900.0 U	5900.0 U	540.0 U	3400.0 U	890.0 U	530.0 U
2-nitrophenol	2600.0 U	4900.0 U	5900.0 U	540.0 U	3400.0 U	890.0 U	530.0 U
2,4-dimethylphenol	2600.0 U	4900.0 U	5900.0 U	540.0 U	3400.0 U	890.0 U	530.0 U
benzoic acid	13000.0 U	24000.0 U	29000.0 U	2600.0 U	17000.0 U	4300.0 U	2600.0 U
bis(2-chloroethoxy)methane	2600.0 U	4900.0 U	5900.0 U	540.0 U	3400.0 U	890.0 U	530.0 U
2,4-dichlorophenol	2600.0 U	4900.0 U	5900.0 U	540.0 U	3400.0 U	890.0 U	530.0 U
1,2,4-trichlorobenzene	2600.0 U	4900.0 U	5900.0 U	540.0 U	3400.0 U	890.0 U	530.0 U
naphthalene	2600.0 U	4900.0 U	5900.0 U	540.0 U	3400.0 U	890.0 U	530.0 U
4-chloroaniline	2600.0 U	4900.0 U	5900.0 U	540.0 U	3400.0 U	890.0 U	530.0 U
hexachlorobutadiene	2600.0 U	4900.0 U	5900.0 U	540.0 U	3400.0 U	890.0 U	530.0 U
4-chloro-3-methylphenol	2600.0 U	4900.0 U	5900.0 U	540.0 U	3400.0 U	890.0 U	530.0 U
2-methynaphthalene	2600.0 U	4900.0 U	5900.0 U	540.0 U	3400.0 U	890.0 U	530.0 U
hexachlorocyclopentadiene	2600.0 U	4900.0 U	5900.0 U	540.0 U	3400.0 U	890.0 U	530.0 U
2,4,6-trichlorophenol	2600.0 U	4900.0 U	5900.0 U	540.0 U	3400.0 U	890.0 U	530.0 U
2,4,5-trichlorophenol	13000.0 U	24000.0 U	29000.0 U	2600.0 U	17000.0 U	4300.0 U	2600.0 U
2-chloronaphthalene	2600.0 U	4900.0 U	5900.0 U	540.0 U	3400.0 U	890.0 U	530.0 U
2-nitroaniline	13000.0 U	24000.0 U	29000.0 U	2600.0 U	17000.0 U	4300.0 U	2600.0 U
dimethyl phthalate	2600.0 U	4900.0 U	5900.0 U	540.0 U	3400.0 U	890.0 U	530.0 U
acenaphthylene	2600.0 U	4900.0 U	5900.0 U	540.0 U	3400.0 U	890.0 U	530.0 U
2,6-dinitrotoluene	2600.0 U	4900.0 U	5900.0 U	540.0 U	3400.0 U	890.0 U	530.0 U
3-nitroaniline	13000.0 U	24000.0 U	29000.0 U	2600.0 U	17000.0 U	4300.0 U	2600.0 U
acenaphthene	2600.0 U	4900.0 U	5900.0 U	540.0 U	3400.0 U	890.0 U	530.0 U
2,4-dinitrophenol	13000.0 U	24000.0 U	29000.0 U	2600.0 U	17000.0 U	4300.0 U	2600.0 U
4-nitrophenol	13000.0 U	24000.0 U	29000.0 U	2600.0 U	17000.0 U	4300.0 U	2600.0 U
dibenzofuran	2400.0 J	13000.0	5900.0 U	540.0 U	3400.0 U	890.0 U	530.0 U
2,4-dinitrotoluene	2600.0 U	4900.0 U	5900.0 U	540.0 U	3400.0 U	890.0 U	530.0 U
diethylphthalate	2600.0 U	4900.0 U	5900.0 U	540.0 U	3400.0 U	890.0 U	530.0 U
4-chlorophenyl-phenylether	2600.0 U	4900.0 U	5900.0 U	540.0 U	3400.0 U	890.0 U	530.0 U
fluorene	2600.0 U	4900.0 U	5900.0 U	540.0 U	3400.0 U	890.0 U	530.0 U
4-nitroaniline	13000.0 U	24000.0 U	29000.0 U	2600.0 U	17000.0 U	4300.0 U	2600.0 U

November 5, 1990
[file name = BNASS1]

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

SEMI-VOLATILES
LEACHATE SEEP SEDIMENT (SS)
(Page 2 of 6)

	SS-1-001	SS-2-001	SS-3-001	SS-4-001	SS-4-002	SS-5-001	SS-6-001
4,6-dinitro-2-methylphenol	13000.0 U	24000.0 U	29000.0 U	2600.0 U	17000.0 U	4300.0 U	2600.0 U
N-nitrosodiphenylamine (1)	2600.0 U	4900.0 U	5900.0 U	540.0 U	3400.0 U	890.0 U	530.0 U
4-bromophenyl-phenylether	2600.0 U	4900.0 U	5900.0 U	540.0 U	3400.0 U	890.0 U	530.0 U
hexachlorobenzene	2600.0 U	4900.0 U	5900.0 U	540.0 U	3400.0 U	890.0 U	530.0 U
pentachlorophenol	13000.0 U	24000.0 U	29000.0 U	2600.0 U	17000.0 U	4300.0 U	2600.0 U
phenanthrene	2600.0 U	4900.0 U	5900.0 U	540.0 U	2700.0 J	390.0 J	220.0 J
anthracene	2600.0 U	4900.0 U	5900.0 U	540.0 U	690.0 J	890.0 U	530.0 U
di-n-butylphthalate	2600.0 U	4900.0 U	5900.0 U	540.0 U	3400.0 U	890.0 U	530.0 U
fluoranthene	1200.0 J	1100.0 J	3900.0 J	230.0 J	3000.0 J	570.0 J	260.0 J
pyrene	1400.0 J	1200.0 J	4100.0 J	240.0 J	3100.0 J	550.0 J	280.0 J
butylbenzylphthalate	2600.0 U	4900.0 U	5900.0 U	540.0 U	3400.0 U	890.0 U	530.0 U
3,3'-dichlorobenzidine	5200.0 U	9700.0 U	12000.0 U	1100.0 U	6900.0 U	1800.0 U	1100.0 U
benzo(a)anthracene	650.0 J	4900.0 U	1900.0 J	540.0 U	1700.0 J	270.0 J	150.0 J
chrysene	690.0 J	4900.0 U	2500.0 J	540.0 U	1500.0 J	310.0 J	170.0 J
bis(2-ethylhexyl)phthalate	2600.0 U	4900.0 U	5900.0 U	540.0 U	3400.0 U	890.0 U	530.0 U
di-n-octylphthalate	2600.0 U	4900.0 U	5900.0 U	540.0 U	3400.0 U	890.0 U	530.0 U
benzo(b)fluoranthene	2600.0 U	4900.0 U	4500.0 J	200.0 J	3400.0 U	490.0 J	530.0 U
benzo(k)fluoranthene	2600.0 U	4900.0 U	5900.0 U	540.0 U	3400.0 U	890.0 U	530.0 U
benzo(a)pyrene	2600.0 U	4900.0 U	5900.0 U	540.0 U	3400.0 U	280.0 J	530.0 U
ideno(1,2,3-cd)pyrene	2600.0 U	4900.0 U	5900.0 U	540.0 U	3400.0 U	200.0 J	530.0 U
dibenz(a,h)anthracene	2600.0 U	4900.0 U	5900.0 U	540.0 U	3400.0 U	890.0 U	530.0 U
benzo(g,h,i)perylene	2600.0 U	4900.0 U	5900.0 U	540.0 U	3400.0 U	180.0 J	530.0 U

November 5, 1990
[file name = BNASS2]

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

SEMI-VOLATILES
LEACHATE SEEP SEDIMENT (SS)
(Page 3 of 6)

	SS-7-001	SS-8-001	SS-9-001	SS-10-001	SS-11-001	SS-12-001	SS-13-001
SEMI-VOLATILES							
phenol	620.0 U	7900.0 U	2200.0 U	11000.0 U	3200.0 U	8500.0 U	1400.0 U
bis(2-chloroethyl)ether	620.0 U	7900.0 U	2200.0 U	11000.0 U	3200.0 U	8500.0 U	1400.0 U
2-chlorophenol	620.0 U	7900.0 U	2200.0 U	11000.0 U	3200.0 U	8500.0 U	1400.0 U
1,3-dichlorobenzene	620.0 U	7900.0 U	2200.0 U	11000.0 U	3200.0 U	8500.0 U	1400.0 U
1,4-dichlorobenzene	620.0 U	7900.0 U	2200.0 U	11000.0 U	3200.0 U	8500.0 U	1400.0 U
benzyl alcohol	620.0 U	7900.0 U	2200.0 U	11000.0 U	3200.0 U	8500.0 U	1400.0 U
1,2-dichlorobenzene	620.0 U	7900.0 U	2200.0 U	11000.0 U	3200.0 U	8500.0 U	1400.0 U
2-methylphenol	620.0 U	7900.0 U	2200.0 U	11000.0 U	3200.0 U	8500.0 U	1400.0 U
bis(2-chloroisopropyl)ether	620.0 U	7900.0 U	2200.0 U	11000.0 U	3200.0 U	8500.0 U	1400.0 U
4-methylphenol	620.0 U	7900.0 U	2200.0 U	11000.0 U	3200.0 U	8500.0 U	1400.0 U
N-nitroso-di-n-propylamine	620.0 U	7900.0 U	2200.0 U	11000.0 U	3200.0 U	8500.0 U	1400.0 U
hexachloroethane	620.0 U	7900.0 U	2200.0 U	11000.0 U	3200.0 U	8500.0 U	1400.0 U
nitrobenzene	620.0 U	7900.0 U	2200.0 U	11000.0 U	3200.0 U	8500.0 U	1400.0 U
isophorone	620.0 U	7900.0 U	2200.0 U	11000.0 U	3200.0 U	8500.0 U	1400.0 U
2-nitrophenol	620.0 U	7900.0 U	2200.0 U	11000.0 U	3200.0 U	8500.0 U	1400.0 U
2,4-dimethylphenol	620.0 U	7900.0 U	2200.0 U	11000.0 U	3200.0 U	8500.0 U	1400.0 U
benzoic acid	3000.0 U	38000.0 U	11000.0 U	55000.0 U	16000.0 U	42000.0 U	7200.0 U
bis(2-chloroethoxy)methane	620.0 U	7900.0 U	2200.0 U	11000.0 U	3200.0 U	8500.0 U	1400.0 U
2,4-dichlorophenol	620.0 U	7900.0 U	2200.0 U	11000.0 U	3200.0 U	8500.0 U	1400.0 U
1,2,4-trichlorobenzene	620.0 U	7900.0 U	2200.0 U	11000.0 U	3200.0 U	8500.0 U	1400.0 U
naphthalene	620.0 U	7900.0 U	2200.0 U	11000.0 U	3200.0 U	8500.0 U	1400.0 U
4-chloroaniline	620.0 U	7900.0 U	2200.0 U	11000.0 U	3200.0 U	8500.0 U	1400.0 U
hexachlorobutadiene	620.0 U	7900.0 U	2200.0 U	11000.0 U	3200.0 U	8500.0 U	1400.0 U
4-chloro-3-methylphenol	620.0 U	7900.0 U	2200.0 U	11000.0 U	3200.0 U	8500.0 U	1400.0 U
2-methynaphthalene	620.0 U	7900.0 U	2200.0 U	11000.0 U	3200.0 U	8500.0 U	1400.0 U
hexachlorocyclopentadiene	620.0 U	7900.0 U	2200.0 U	11000.0 U	3200.0 U	8500.0 U	1400.0 U
2,4,6-trichlorophenol	620.0 U	7900.0 U	2200.0 U	11000.0 U	3200.0 U	8500.0 U	1400.0 U
2,4,5-trichlorophenol	3000.0 U	38000.0 U	11000.0 U	55000.0 U	16000.0 U	42000.0 U	7200.0 U
2-chloronaphthalene	620.0 U	7900.0 U	2200.0 U	11000.0 U	3200.0 U	8500.0 U	1400.0 U
2-nitroaniline	3000.0 U	38000.0 U	11000.0 U	55000.0 U	16000.0 U	42000.0 U	7200.0 U
dimethyl phthalate	620.0 U	7900.0 U	2200.0 U	11000.0 U	3200.0 U	8500.0 U	1400.0 U
acenaphthylene	620.0 U	7900.0 U	2200.0 U	11000.0 U	3200.0 U	8500.0 U	1400.0 U
2,6-dinitrotoluene	620.0 U	7900.0 U	2200.0 U	11000.0 U	3200.0 U	8500.0 U	1400.0 U
3-nitroaniline	3000.0 U	38000.0 U	11000.0 U	55000.0 U	16000.0 U	42000.0 U	7200.0 U
acenaphthene	620.0 U	7900.0 U	2200.0 U	11000.0 U	3200.0 U	8500.0 U	1400.0 U
2,4-dinitrophenol	3000.0 U	38000.0 U	11000.0 U	55000.0 U	16000.0 U	42000.0 U	7200.0 U
4-nitrophenol	3000.0 U	38000.0 U	11000.0 U	55000.0 U	16000.0 U	42000.0 U	7200.0 U
dibenzofuran	620.0 U	7900.0 U	2200.0 U	11000.0 U	3200.0 U	8500.0 U	1400.0 U
2,4-dinitrotoluene	620.0 U	7900.0 U	2200.0 U	11000.0 U	3200.0 U	8500.0 U	1400.0 U
diethylphthalate	620.0 U	7900.0 U	2200.0 U	11000.0 U	3200.0 U	8500.0 U	1400.0 U
4-chlorophenyl-phenylether	620.0 U	7900.0 U	2200.0 U	11000.0 U	3200.0 U	8500.0 U	1400.0 U
fluorene	620.0 U	7900.0 U	2200.0 U	11000.0 U	3200.0 U	8500.0 U	1400.0 U
4-nitroaniline	3000.0 U	38000.0 U	11000.0 U	55000.0 U	16000.0 U	42000.0 U	7200.0 U

November 5, 1990
[file name = BNASS2]

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

SEMI-VOLATILES
LEACHATE SEEP SEDIMENT (SS)
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	SS-7-001	SS-8-001	SS-9-001	SS-10-001	SS-11-001	SS-12-001	SS-13-001
4,6-dinitro-2-methylphenol	3000.0 U	38000.0 U	11000.0 U	55000.0 U	16000.0 U	42000.0 U	7200.0 U
N-nitrosodiphenylamine (1)	620.0 U	7900.0 U	2200.0 U	11000.0 U	3200.0 U	8500.0 U	1400.0 U
4-bromophenyl-phenylether	620.0 U	7900.0 U	2200.0 U	11000.0 U	3200.0 U	8500.0 U	1400.0 U
hexachlorobenzene	620.0 U	7900.0 U	2200.0 U	11000.0 U	3200.0 U	8500.0 U	1400.0 U
pentachlorophenol	3000.0 U	38000.0 U	11000.0 U	55000.0 U	16000.0 U	42000.0 U	7200.0 U
phenanthrene	200.0 J	7900.0 U	350.0 J	11000.0 U	3200.0 U	8500.0 U	1400.0 U
anthracene	620.0 U	7900.0 U	2200.0 U	11000.0 U	3200.0 U	8500.0 U	1400.0 U
di-n-butylphthalate	250.0 J	7900.0 U	2200.0 U	11000.0 U	3200.0 U	8500.0 U	1400.0 U
fluoranthene	270.0 J	7900.0 U	590.0 J	5100.0 J	1300.0 J	2500.0 J	630.0 J
pyrene	280.0 J	7900.0 U	600.0 J	7300.0 J	1400.0 J	2400.0 J	600.0 J
butylbenzylphthalate	620.0 U	7900.0 U	2200.0 U	11000.0 U	3200.0 U	8500.0 U	1400.0 U
3,3'-dichlorobenzidine	1200.0 U	16000.0 U	4300.0 U	22000.0 U	6300.0 U	17000.0 U	2900.0 U
benzo(a)anthracene	170.0 J	7900.0 U	300.0 J	3600.0 J	580.0 J	8500.0 U	320.0 J
chrysene	180.0 J	7900.0 U	290.0 J	4600.0 J	740.0 J	1500.0 J	450.0 J
bis(2-ethylhexyl)phthalate	620.0 U	7900.0 U	2200.0 U	11000.0 U	3200.0 U	8500.0 U	1400.0 U
di-n-octylphthalate	620.0 U	7900.0 U	2200.0 U	11000.0 U	3200.0 U	8500.0 U	1400.0 U
benzo(b)fluoranthene	620.0 U	7900.0 U	2200.0 U	6200.0 J	3200.0 U	2800.0 J	570.0 J
benzo(k)fluoranthene	620.0 U	7900.0 U	2200.0 U	11000.0 U	3200.0 U	8500.0 U	1400.0 U
benzo(a)pyrene	620.0 U	7900.0 U	2200.0 U	3700.0 J	3200.0 U	8500.0 U	1400.0 U
ideno(1,2,3-cd)pyrene	620.0 U	7900.0 U	2200.0 U	11000.0 U	3200.0 U	8500.0 U	1400.0 U
dibenz(a,h)anthracene	620.0 U	7900.0 U	2200.0 U	11000.0 U	3200.0 U	8500.0 U	1400.0 U
benzo(g,h,i)perylene	620.0 U	7900.0 U	2200.0 U	11000.0 U	3200.0 U	1500.0 J	300.0 J

November 5, 1990
[file name = BNASS3]

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

SEMI-VOLATILES
LEACHATE SEEP SEDIMENT (SS)
(Page 5 of 6)

	SS-14-001	SS-15-001	SS-16-001	SS-17-001	SS-18-001
SEMI-VOLATILES					
phenol	9400.0 U	1700.0 U	800.0 U	800.0 U	4500.0 U
bis(2-chloroethyl)ether	9400.0 U	1700.0 U	800.0 U	800.0 U	4500.0 U
2-chlorophenol	9400.0 U	1700.0 U	800.0 U	800.0 U	4500.0 U
1,3-dichlorobenzene	9400.0 U	1700.0 U	800.0 U	800.0 U	4500.0 U
1,4-dichlorobenzene	9400.0 U	1700.0 U	800.0 U	800.0 U	4500.0 U
benzyl alcohol	9400.0 U	1700.0 U	800.0 U	800.0 U	4500.0 U
1,2-dichlorobenzene	9400.0 U	1700.0 U	800.0 U	800.0 U	4500.0 U
2-methylphenol	9400.0 U	1700.0 U	800.0 U	800.0 U	4500.0 U
bis(2-chloroisopropyl)ether	9400.0 U	1700.0 U	800.0 U	800.0 U	4500.0 U
4-methylphenol	9400.0 U	1700.0 U	800.0 U	800.0 U	4500.0 U
N-nitroso-di-n-propylamine	9400.0 U	1700.0 U	800.0 U	800.0 U	4500.0 U
hexachloroethane	9400.0 U	1700.0 U	800.0 U	800.0 U	4500.0 U
nitrobenzene	9400.0 U	1700.0 U	800.0 U	800.0 U	4500.0 U
isophorone	9400.0 U	1700.0 U	800.0 U	800.0 U	4500.0 U
2-nitrophenol	9400.0 U	1700.0 U	800.0 U	800.0 U	4500.0 U
2,4-dimethylphenol	9400.0 U	1700.0 U	800.0 U	800.0 U	4500.0 U
benzoic acid	47000.0 U	8500.0 U	4000.0 U	4000.0 U	22000.0 U
bis(2-chloroethoxy)methane	9400.0 U	1700.0 U	800.0 U	800.0 U	4500.0 U
2,4-dichlorophenol	9400.0 U	1700.0 U	800.0 U	800.0 U	4500.0 U
1,2,4-trichlorobenzene	9400.0 U	1700.0 U	800.0 U	800.0 U	4500.0 U
naphthalene	9400.0 U	1700.0 U	800.0 U	800.0 U	4500.0 U
4-chloroaniline	9400.0 U	1700.0 U	800.0 U	800.0 U	4500.0 U
hexachlorobutadiene	9400.0 U	1700.0 U	800.0 U	800.0 U	4500.0 U
4-chloro-3-methylphenol	9400.0 U	1700.0 U	800.0 U	800.0 U	4500.0 U
2-methynaphthalene	9400.0 U	1700.0 U	800.0 U	800.0 U	4500.0 U
hexachlorocyclopentadiene	9400.0 U	1700.0 U	800.0 U	800.0 U	4500.0 U
2,4,6-trichlorophenol	9400.0 U	1700.0 U	800.0 U	800.0 U	4500.0 U
2,4,5-trichlorophenol	47000.0 U	8500.0 U	4000.0 U	4000.0 U	22000.0 U
2-chloronaphthalene	9400.0 U	1700.0 U	800.0 U	800.0 U	4500.0 U
2-nitroaniline	47000.0 U	8500.0 U	4000.0 U	4000.0 U	22000.0 U
dimethyl phthalate	9400.0 U	1700.0 U	800.0 U	800.0 U	4500.0 U
acenaphthylene	9400.0 U	310.0 J	800.0 U	800.0 U	4500.0 U
2,6-dinitrotoluene	9400.0 U	1700.0 U	800.0 U	800.0 U	4500.0 U
3-nitroaniline	47000.0 U	8500.0 U	4000.0 U	4000.0 U	22000.0 U
acenaphthene	9400.0 U	1700.0 U	800.0 U	800.0 U	4500.0 U
2,4-dinitrophenol	47000.0 U	8500.0 U	4000.0 U	4000.0 U	22000.0 U
4-nitrophenol	47000.0 U	8500.0 U	4000.0 U	4000.0 U	22000.0 U
dibenzofuran	9400.0 U	1700.0 U	800.0 U	800.0 U	4500.0 U
2,4-dinitrotoluene	9400.0 U	1700.0 U	800.0 U	800.0 U	4500.0 U
diethylphthalate	9400.0 U	990.0 J	800.0 U	180.0 J	4500.0 U
4-chlorophenyl-phenylether	9400.0 U	1700.0 U	800.0 U	800.0 U	4500.0 U
fluorene	9400.0 U	1700.0 U	800.0 U	800.0 U	4500.0 U
4-nitroaniline	47000.0 U	8500.0 U	4000.0 U	4000.0 U	22000.0 U

November 5, 1990
[file name = BNASS3]

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

SEMI-VOLATILES
LEACHATE SEEP SEDIMENT (SS)
(Page 6 of 6)

	SS-14-001	SS-15-001	SS-16-001	SS-17-001	SS-18-001
4,6-dinitro-2-methylphenol	47000.0 U	8500.0 U	4000.0 U	4000.0 U	22000.0 U
N-nitrosodiphenylamine (1)	9400.0 U	1700.0 U	800.0 U	800.0 U	4500.0 U
4-bromophenyl-phenylether	9400.0 U	1700.0 U	800.0 U	800.0 U	4500.0 U
hexachlorobenzene	9400.0 U	1700.0 U	800.0 U	800.0 U	4500.0 U
pentachlorophenol	47000.0 U	8500.0 U	4000.0 U	4000.0 U	22000.0 U
phenanthrene	10000.0	1300.0 J	800.0 U	800.0 U	4500.0 U
anthracene	2500.0 J	370.0 J	800.0 U	800.0 U	4500.0 U
di-n-butylphthalate	9400.0 U	1700.0 U	800.0 U	800.0 U	4500.0 U
fluoranthene	13000.0	2700.0	500.0 J	160.0 J	4600.0
pyrene	15000.0	2400.0	460.0 J	170.0 J	4600.0
butylbenzylphthalate	9400.0 U	1700.0 U	800.0 U	800.0 U	4500.0 U
3,3'-dichlorobenzidine	19000.0 U	3400.0 U	1600.0 U	1600.0 U	8900.0 U
benzo(a)anthracene	6000.0 J	1300.0 J	310.0 J	800.0 U	2300.0 J
chrysene	7500.0 J	1800.0	270.0 J	800.0 U	2700.0 J
bis(2-ethylhexyl)phthalate	9400.0 U	1700.0 U	800.0 U	800.0 U	4500.0 U
di-n-octylphthalate	9400.0 U	1700.0 U	800.0 U	800.0 U	4500.0 U
benzo(b)fluoranthene	9200.0 J	3100.0	800.0 U	200.0 J	6200.0
benzo(k)fluoranthene	9400.0 U	1700.0 U	800.0 U	800.0 U	4500.0 U
benzo(a)pyrene	6000.0 J	1900.0	800.0 U	800.0 U	3100.0 J
ideno(1,2,3-cd)pyrene	9400.0 U	1700.0 U	800.0 U	800.0 U	4500.0 U
dibenz(a,h)anthracene	9400.0 U	1700.0 U	800.0 U	800.0 U	4500.0 U
benzo(g,h,i)perylene	9400.0 U	1700.0 U	800.0 U	800.0 U	2500.0 J

Notes: All values are in ug/kg unless noted otherwise
U Indicates element was analyzed for but not detected. The number shown is the detection limit.
J Indicates an estimated value.
(1) Cannot be separated from diphenylamine

November 5, 1990
[file name = PESTSS1]

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

PESTICIDES/PCBS
LEACHATE SEEP SEDIMENT (SS)
(Page 1 of 3)

	SS-1-001	SS-2-001	SS-3-001	SS-4-001	SS-5-001	SS-6-001	SS-7-001
PESTICIDES/PCBS							
alpha-BHC	130.0 U	120.0 U	86.0 U	13.0 U	R	13.0 U	15.0 U
beta-BHC	130.0 U	120.0 U	86.0 U	13.0 U	R	22.0	15.0 U
delta-BHC	130.0 U	120.0 U	86.0 U	13.0 U	R	13.0 U	15.0 U
gamma-BHC (Lindane)	130.0 U	120.0 U	86.0 U	13.0 U	R	13.0 U	15.0 U
heptachlor	130.0 U	120.0 U	86.0 U	13.0 U	R	13.0 U	15.0 U
aldrin	130.0 U	120.0 U	86.0 U	13.0 U	R	13.0 U	15.0 U
heptachlor epoxide	130.0 U	120.0 U	86.0 U	13.0 U	R	13.0 U	15.0 U
endosulfan I	130.0 U	120.0 U	86.0 U	13.0 U	R	13.0 U	15.0 U
dieldrin	250.0 U	240.0 U	170.0 U	26.0 U	R	26.0 U	30.0 U
4,4'-DDE	250.0 U	240.0 U	170.0 U	R	R	26.0 U	30.0 U
endrin	250.0 U	240.0 U	170.0 U	26.0 U	R	26.0 U	30.0 U
endosulfan II	250.0 U	240.0 U	170.0 U	26.0 U	R	26.0 U	30.0 U
4,4'-DDD	250.0 U	240.0 U	170.0 U	R	R	26.0 U	30.0 U
endosulfan sulfate	250.0 U	240.0 U	170.0 U	26.0 U	R	26.0 U	30.0 U
4,4'DDT	250.0 U	240.0 U	170.0 U	R	R	26.0 U	30.0 U
methoxychlor	1300.0 U	1200.0 U	860.0 U	130.0 U	R	130.0 U	150.0 U
endrin keytone	250.0 U	240.0 U	170.0 U	26.0 U	R	26.0 U	30.0 U
alpha-chlordane	1300.0 U	1200.0 U	860.0 U	130.0 U	R	130.0 U	150.0 U
gamma-chlordane	1300.0 U	1200.0 U	860.0 U	130.0 U	6.3 J	130.0 U	150.0 U
toxaphene	2500.0 U	2400.0 U	1700.0 U	260.0 U	R	260.0 U	300.0 U
aroclor-1016	1300.0 U	1200.0 U	860.0 U	130.0 U	R	130.0 U	150.0 U
aroclor-1221	1300.0 U	1200.0 U	860.0 U	130.0 U	R	130.0 U	150.0 U
aroclor-1232	1300.0 U	1200.0 U	860.0 U	130.0 U	R	130.0 U	150.0 U
aroclor-1242	1300.0 U	1200.0 U	860.0 U	130.0 U	R	130.0 U	150.0 U
aroclor-1248	7700.0	4100.0	860.0 U	130.0 U	R	130.0 U	150.0 U
aroclor-1254	2500.0 U	2400.0 U	1700.0 U	260.0 U	R	260.0 U	300.0 U
aroclor-1260	2500.0 U	2400.0 U	1700.0 U	260.0 U	R	260.0 U	300.0 U

November 5, 1990
[file name = PESTSS2]

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

PESTICIDES/PCBS
LEACHATE SEEP SEDIMENT (SS)
(Page 2 of 3)

	SS-8-001	SS-9-001	SS-10-001	SS-11-001	SS-12-001	SS-13-001
PESTICIDES/PCBS						
alpha-BHC	38.0 U	11.0 U	270.0 U	15.0 U	210.0 U	87.0 U
beta-BHC	38.0 U	11.0 U	270.0 U	15.0 U	210.0 U	87.0 U
delta-BHC	38.0 U	11.0 U	270.0 U	15.0 U	210.0 U	87.0 U
gamma-BHC (Lindane)	38.0 U	11.0 U	270.0 U	15.0 U	210.0 U	87.0 U
heptachlor	38.0 U	11.0 U	270.0 U	15.0 U	210.0 U	87.0 U
aldrin	38.0 U	11.0 U	270.0 U	15.0 U	210.0 U	87.0 U
heptachlor epoxide	38.0 U	11.0 U	270.0 U	15.0 U	210.0 U	87.0 U
endosulfan I	38.0 U	11.0 U	270.0 U	15.0 U	210.0 U	87.0 U
dieldrin	76.0 U	21.0 U	530.0 U	31.0 U	410.0 U	170.0 U
4,4'-DDE	76.0 U	21.0 U	530.0 U	31.0 U	410.0 U	170.0 U
endrin	76.0 U	21.0 U	530.0 U	31.0 U	410.0 U	170.0 U
endosulfan II	76.0 U	21.0 U	530.0 U	31.0 U	410.0 U	170.0 U
4,4'-DDD	76.0 U	21.0 U	530.0 U	31.0 U	410.0 U	170.0 U
endosulfan sulfate	76.0 U	21.0 U	530.0 U	31.0 U	410.0 U	170.0 U
4,4'DDT	76.0 U	21.0 U	530.0 U	31.0 U	410.0 U	170.0 U
methoxychlor	380.0 U	110.0 U	2700.0 U	150.0 U	2100.0 U	870.0 U
endrin keytone	76.0 U	21.0 U	530.0 U	31.0 U	410.0 U	170.0 U
alpha-chlordane	380.0 U	110.0 U	2700.0 U	150.0 U	2100.0 U	870.0 U
gamma-chlordane	380.0 U	110.0 U	44.0 J	17.0 J	2100.0 U	870.0 U
toxaphene	760.0 U	210.0 U	5300.0 U	310.0 U	4100.0 U	1700.0 U
aroclor-1016	380.0 U	110.0 U	2700.0 U	150.0 U	2100.0 U	870.0 U
aroclor-1221	380.0 U	110.0 U	2700.0 U	150.0 U	2100.0 U	870.0 U
aroclor-1232	380.0 U	110.0 U	2700.0 U	150.0 U	2100.0 U	870.0 U
aroclor-1242	380.0 U	110.0 U	2700.0 U	150.0 U	2100.0 U	870.0 U
aroclor-1248	380.0 U	110.0 U	2700.0 U	150.0 U	2100.0 U	870.0 U
aroclor-1254	760.0 U	210.0 U	5300.0 U	310.0 U	4100.0 U	4000.0
aroclor-1260	760.0 U	210.0 U	5300.0 U	310.0 U	4100.0 U	1700.0 U

November 5, 1990
[file name = PESTSS3]

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

PESTICIDES/PCBS
LEACHATE SEEP SEDIMENT (SS)
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	SS-14-001	SS-15-001	SS-16-001	SS-17-001	SS-18-001	SS-4-002
PESTICIDES/PCBS						
alpha-BHC	69.0 U	21.0 U	20.0 U	20.0 U	43.0 U	17.0 U
beta-BHC	69.0 U	21.0 U	20.0 U	20.0 U	43.0 U	75.0
delta-BHC	69.0 U	21.0 U	20.0 U	20.0 U	43.0 U	17.0 U
gamma-BHC (Lindane)	69.0 U	21.0 U	20.0 U	20.0 U	43.0 U	17.0 U
heptachlor	69.0 U	21.0 U	20.0 U	20.0 U	43.0 U	17.0 U
aldrin	69.0 U	21.0 U	20.0 U	20.0 U	43.0 U	32.0
heptachlor epoxide	69.0 U	21.0 U	20.0 U	20.0 U	43.0 U	17.0 U
endosulfan I	69.0 U	21.0 U	20.0 U	20.0 U	43.0 U	17.0 U
dieldrin	140.0 U	41.0 U	16.0 J	39.0 U	86.0 U	33.0 U
4,4'-DDE	140.0 U	41.0 U	39.0 U	39.0 U	86.0 U	33.0 U
endrin	140.0 U	41.0 U	39.0 U	39.0 U	86.0 U	33.0 U
endosulfan II	140.0 U	41.0 U	39.0 U	39.0 U	86.0 U	33.0 U
4,4'-DDD	140.0 U	14.0 J	39.0 U	39.0 U	86.0 U	33.0 U
endosulfan sulfate	140.0 U	41.0 U	39.0 U	39.0 U	86.0 U	33.0 U
4,4'DDT	140.0 U	R	R	39.0 U	86.0 U	33.0 U
methoxychlor	690.0 U	210.0 U	200.0 U	200.0 U	430.0 U	170.0 U
endrin keytone	140.0 U	41.0 U	39.0 U	39.0 U	86.0 U	33.0 U
alpha-chlordane	690.0 U	210.0 U	200.0 U	200.0 U	430.0 U	170.0 U
gamma-chlordane	92.0 J	20.0 J	200.0 U	200.0 U	430.0 U	170.0 U
toxaphene	1400.0 U	410.0 U	390.0 U	390.0 U	860.0 U	330.0 U
aroclor-1016	690.0 U	210.0 U	200.0 U	200.0 U	430.0 U	170.0 U
aroclor-1221	690.0 U	210.0 U	200.0 U	200.0 U	430.0 U	170.0 U
aroclor-1232	690.0 U	210.0 U	200.0 U	200.0 U	430.0 U	170.0 U
aroclor-1242	690.0 U	210.0 U	200.0 U	200.0 U	430.0 U	170.0 U
aroclor-1248	690.0 U	210.0 U	200.0 U	200.0 U	430.0 U	170.0 U
aroclor-1254	1400.0 U	410.0 U	390.0 U	390.0 U	860.0 U	330.0 U
aroclor-1260	1400.0 U	410.0 U	390.0 U	390.0 U	860.0 U	330.0 U

Notes: All values are in ug/kg unless noted otherwise
U Indicates element was analyzed for but not detected. The number shown is the detection limit.
J Indicates an estimated value.
R Indicates the analyte was rejected due to failing QA/QC criteria

November 5, 1990
[file name = INORGSS1]

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

INORGANICS
LEACHATE SEEP SEDIMENT (SS)

	SS-1-001	SS-2-001	SS-3-001	SS-4-001	SS-5-001	SS-6-001	SS-7-001
INORGANICS							
aluminum	2390.0	2120.0	6390.0	10300.0	10000.0	11100.0	6420.0
antimony	19.6 UJS	20.5 UJS	16.8 UJS	11.8 UJS	9.4 UJS	14.1 UJS	9.7 UJS
arsenic	7.6	3.5 B	13.2	7.2 JS	4.2 JS	6.0	3.0
barium	2220.0	1550.0	694.0	252.0 JD	254.0 JD	278.0	119.0
beryllium	0.3 B	0.24 U	0.31 B	0.54 B	0.53 B	0.45 B	0.26 B
cadmium	12.8	3.6	10.5	3.1	2.5	3.3	2.2
calcium	75700.0	70100.0	41400.0	64000.0	47900.0	18400.0	7900.0
chromium	28.6	11.8	26.9	17.7	14.9	14.8	9.4
cobalt	1.6 U	1.7 U	4.5 B	7.6 B	4.5 B	2.4 B	2.6 B
copper	215.0	71.3	122.0	36.9 JQSD	15.1 JQSD	26.2	14.8
iron	317000.0	143000.0	92300.0	54600.0	36800.0	52200.0	21200.0
lead	241.0	123.0	285.0	80.1 JD	49.9 JD	55.7	27.8
magnesium	2880.0	2310.0 B	4960.0	19400.0	7180.0	2530.0	2150.0
manganese	623.0	219.0	378.0	612.0 JS	204.0 JS	132.0	276.0
mercury	0.86	0.65	0.42	0.17 U	0.2 JS	0.25	0.18
nickel	31.3	16.5 B	31.2	22.1	15.2	11.2 B	10.0 B
potassium	433.0 B	351.0 U	702.0 B	2010.0	2420.0	901.0 B	707.0 B
selenium	1.3 B	1.4 U	1.2 U	0.81 U	0.65 U	0.97 UJS	0.67 JS
silver	4.8 B	1.8 U	1.8 B	1.0 U	0.84 U	1.3 U	0.86 U
sodium	509.0 BJQ	342.0 BJQ	256.0 BJQ	271.0 BJQ	4490.0 JQ	152.0 BJQ	125.0 BJQ
thallium	0.96 U	1.0 U	0.82 U	0.84 U	0.68 U	0.69 U	0.47 U
vanadium	4.3 B	3.8 B	15.9 B	20.0	20.0	20.2 B	12.0 B
zinc	2110.0	510.0	967.0	441.0 JS	110.0 JS	119.0	69.1
cyanide	6.3 JS	4.3 JS	2.2 BJS	6.6 JD	1.4 UJD	R	R

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[file name = INORGSS2]

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

INORGANICS
LEACHATE SEEP SEDIMENT (SS)
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	SS-8-001	SS-9-001	SS-10-001	SS-11-001	SS-12-001	SS-13-001	SS-14-001
INORGANICS							
aluminum	7190.0	9550.0	6920.0	4220.0	3230.0	4320.0	9160.0
antimony	34.5 UJS	10.3 UJS	21.5 UJS	16.3 UJS	16.9 UJS	21.0 UJS	18.8 UJS
arsenic	7.4 B	4.1	19.5	8.8	8.9	16.4	5.6
barium	280.0	95.5	555.0	2190.0	1270.0	639.0	147.0
beryllium	0.4 U	0.4 B	0.38 B	0.23 B	0.19 U	0.36 B	0.46 B
cadmium	9.8	4.4	9.8	13.1	6.6	8.3	3.3
calcium	114000.0	16900.0	114000.0	33700.0	192000.0	222000.0	31700.0
chromium	17.3	14.7	35.5	20.9	17.1	30.9	38.2
cobalt	13.5 B	4.5 B	12.8 B	4.6 B	5.2 B	8.6 B	13.2 B
copper	99.6	64.1	184.0	181.0	89.8	135.0	270.0
iron	72300.0	14000.0	91600.0	152000.0	106000.0	170000.0	25500.0
lead	171.0	71.9	444.0	376.0	114.0	274.0	264.0
magnesium	6110.0	2630.0	9090.0	4520.0	3730.0	12200.0	7090.0
manganese	1770.0	374.0	855.0	299.0	1470.0	1760.0	238.0
mercury	0.9	0.27	0.41	0.93	0.43	0.4	0.83
nickel	61.5	14.9	125.0	49.0	69.7	76.0	65.2
potassium	1200.0 B	753.0 B	1150.0 B	621.0 B	632.0 B	1400.0 B	1100.0 B
selenium	2.9 BJS	1.0 BJS	1.5 U	5.6 U	1.2 U	1.4 U	5.3
silver	3.1 U	0.92 U	1.9 U	2.0 B	1.5 U	2.9 B	2.6 B
sodium	660.0 BJQ	136.0 BJQ	361.0 BJQ	241.0 BJQ	317.0 BJQ	468.0 BJQ	319.0 BJQ
thallium	1.7 U	0.59 B	1.0 U	0.8 U	0.82 U	1.0 U	0.92 U
vanadium	13.3 B	19.6	25.9 B	8.4 B	9.6 B	12.5 B	20.3 B
zinc	1770.0	220.0	2770.0	1270.0	872.0	1410.0	589.0
cyanide	R	R	7.3 JS	2.8 JS	1.5 BJS	8.0 JS	2.7 JS

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[file name = INORGSS3]

PFOHL BROTHERS LANDFILL ANALYTICAL DATA

INORGANICS
LEACHATE SEEP SEDIMENT (SS)
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	SS-15-001	SS-16-001	SS-17-001	SS-18-001
INORGANICS				
aluminum	9390.0 JQ	1260.0 JQ	5260.0 JQ	10800.0
antimony	18.4 UJS	18.6 UJS	18.9 UJS	20.8 UJS
arsenic	9.6 JS	4.9 BJS	3.8 BJS	29.9
barium	R	R	R	320.0
beryllium	0.59 B	0.23 B	0.38 B	0.63 B
cadmium	4.3	18.5	4.9	6.5
calcium	20400.0 JQ	120000.0 JQ	72600.0 JQ	81600.0
chromium	29.6	26.8	16.2	43.1
cobalt	7.0 B	17.8 B	4.0 B	6.4 B
copper	71.0 JQ	202.0 JQ	111.0 JQ	113.0
iron	45400.0 JQ	206000.0 JQ	169000.0 JQ	97800.0
lead	556.0	246.0	160.0	985.0
magnesium	6420.0	2470.0 B	2560.0 B	9470.0
manganese	R	R	R	960.0
mercury	1.2	1.1	0.97	0.53
nickel	20.7 B	80.5	40.2	26.1
potassium	1450.0 B	628.0 B	894.0 B	1600.0 B
selenium	2.0 B	1.7 B	1.6 B	1.4 U
silver	1.6 U	1.8 B	2.5 B	1.9 U
sodium	347.0 B	430.0 B	274.0 B	677.0 BJQ
thallium	0.9 U	0.91 U	0.92 U	1.0 U
vanadium	26.4 B	1.3 U	8.8 B	26.4 B
zinc	R	R	R	778.0
cyanide	2.9 JS	3.2 JH	3.4 JS	4.0 JS

Notes: All values are in mg/kg unless noted otherwise
U Indicates element was analyzed for but not detected. The number shown is the detection limit.
JS Indicates analyte value is estimated due to % recovery exceeding QA/QC criteria for matrix spike
JQ Indicates analyte value is estimated due to % recovery exceeding QA/QC criteria for serial dilution
JD Indicates the analyte value is estimated due to laboratory duplicate sample analysis exceeding QA/QC criteria
B Indicates the analyte value is between the contract required detection limit (CRDL) and the instrument detection limit (IDL).
R Indicates the analyte was rejected due to failing QA/QC criteria
JH Holding time exceeded.

APPENDIX O

CONCEPTUAL MODEL

ORGANIC CONTAMINATION

Organic compounds may move through the subsurface guided by a variety of transport processes. In this analysis, three potential subsurface flow scenarios were examined:

1) the flow of liquid organics through the unsaturated zone;

2) the infiltration of chemicals dissolved in rainwater flowing through the unsaturated zone;

3) the flow of chemicals dissolved in ground water flowing through the saturated zone.

Under the first scenario, pure organic liquids or mixtures of solvents are assumed to be flowing through the unsaturated zone. Such liquids may originate from punctured drums that are either exposed at the surface or buried in the shallow soils of the landfill. It is unlikely, however, that pure product flows do exist at Pfohl Brothers. Although an abundance of drums was found at the landfill, there are no historical records to indicate that any of them contained pure organic products. Instead, it is more likely that their contents were mixtures of chemicals. Moreover, any pure product dumped at the landfill would have been exposed to weathering, leaching, volatilization and degradation processes. Such processes would alter the compounds between the time of their disposal and their movement into the subsurface such that they would no longer behave as pure product. Even compounds from the phenol, PAH and halogenated hydrocarbon classes that were detected at concentrations in the percent range may not necessarily have originated as pure and free flowing product. Indeed, PAHs in particular are commonly associated with soils and coal ash, both of which are constituents of the landfill.

The more likely subsurface flow scenario in the unsaturated zone at the Pfohl Brothers landfill is the second scenario. It assumes that organic

chemicals are dissolved in infiltrating rainwater. In this case, the relative mobility of the contaminants is based on their relative ability to sorb (or adhere) to subsurface materials. The greater a compound's sorption, the greater the retardation affecting its flow.

The third scenario describes the behavior or organic contaminants in the saturated zone. Under this scenario, the organic contaminants are transported as chemicals dissolved in the ground water, flowing through the saturated zone. The relative rates at which contaminants move in the saturated zone is also based on the chemicals' sorption capacities.

Thus, the more likely pathway along which contaminants are moving at the Pfohl Brothers landfill begins with transport through the unsaturated zone as an aqueous solute dissolved in infiltrating rainwater. Subsequent transport is then through the saturated zone. The aqueous solute there is dissolved in ground water.

To characterize the behavior of each of the organic contaminants along the predicted flow path, their physical and chemical properties were used to establish a scheme of relative mobilities. A "retardation factor" was approximated for each compound found at the landfill. These factors serve as estimates, within an order of magnitude, of the relative mobilities of each compound. They are based on four parameters: the bulk density of the subsurface material; the fraction of organic matter in the subsurface material; the effective porosity of the subsurface material; and an adsorption coefficient for each compound.

Estimates of the first three parameters were made for the Pfohl Brothers landfill. An average bulk density was estimated for the subsurface material across the entire landfill. The organic content and effective porosity, however, were estimated separately for the unsaturated and saturated zones. Both parameters were assumed to have higher values in the unsaturated zone since more fill material is expected to occur higher in the landfill. The fill material probably has a higher porosity since it is more irregularly shaped and is less tightly packed than the native soils. In addition, municipal and industrial wastes are included in the fill.

Such materials are likely to have high organic contents.

The fourth parameter, adsorption, is independent of position in the landfill and is instead particular to each chemical. The adsorption coefficient reflects a compounds tendency to distribute itself as a solute dissolved in ground water or adsorbed to soil.

Thus, combining these four parameters, one retardation factor for each compound is estimated in the unsaturated zone, and one in the saturated zone. The retardation factor in the saturated zone is higher for each compound than that in the unsaturated zone. That is, the increased porosity in the unsaturated zone increases the flow rate more than the adsorption to soil or organic matter slows it down. Compounds should therefore move more readily through the unsaturated zone than the saturated zone.

The ranges of retardation factors for all twenty-four contaminants span several orders of magnitude. Each order of magnitude was assigned a subjective score for this analysis so that overall rankings could be established. A total mobility score, then, covering transport through the unsaturated and saturated zone was estimated. The score allows each compound to be ranked according to its relative mobility along the theoretical pathway. The scores assigned for this investigation are listed in table H-1.

The overall mobility rankings were evaluated with respect to the compound categories defined for this investigation. In general, the compounds belonging to the same class had similar overall mobilities. Thus, the relative mobilities of classes as a whole could be established.

Among the compound classes at the Pfohl Brothers landfill, the following were found to be most mobile: ketones, halogenated hydrocarbons and nitrogen compounds. Compounds in these classes have both very low retardation factors and flow rates equal to or slightly slower than that of water. Four compound classes were estimated to have medium mobilities; phenols, aromatics, pesticides and furans. Three compound classes were

TABLE H-1

RELATIVE MOBILITIES OF ORGANIC CONTAMINANTS

COMPOUND	FLOW RATE* UNSATURATED ZONE	FLOW RATE* SATURATED ZONE	TOTAL MOBILITY
KETONES			
Acetone	6	6	12
2-Butanone	5	5	10
4-Methyl-2-pentanone	6	6	12
HALOGENATED HYDROCARBONS			
1,1-Dichloroethane	5	5	10
1,3-Dichloropropylene	5	4	9
Methylene chloride	5	5	10
Tetrachloroethene	4	4	8
1,1,1-Trichloroethane	4	4	8
NITROGEN COMPOUNDS			
4-Chloroaniline	5	5	10
N-Nitrosophenylamine	4	4	8
PHENOLS			
2,4-Dimethylphenol	4	4	8
Pentachlorophenol	3	3	6
Phenol	5	5	10
AROMATICS			
Benzene			
Chlorobenzene	4	4	8
Ethylbenzene	4	4	8
Toluene	4	4	8
Xylenes (total)	4	4	8
PESTICIDES			
Aldrin	3	3	6
Alpha-BHC	4	3	7
Carbon disulfide	4	4	8
Dieldrin	3	3	6
Endrin	3	3	6
Gamma-BHC	3	2	5
Heptachlor epoxide	4	4	8
Methoxychlor	3	3	6
FURANS			
Dibenzofuran	3	3	6

* Relative rating on a scale of 1 to 6 with 1 being the lowest mobility and 6 being the highest.

TABLE H-1
(continued)

COMPOUND	FLOW RATE* UNSATURATED ZONE	FLOW RATE* SATURATED ZONE	TOTAL MOBILITY
POLYCYCLIC AROMATIC HYDROCARBONS			
Acenaphthalene	3	3	6
Anthracene	3	3	6
Benzo(a)anthracene	2	2	4
Benzo(a)pyrene	1	1	2
Benzo(b)fluoranthene	1	1	2
Benzo(g,h,i)perylene	0	0	0
Chrysene	2	2	4
Dibenz(a,h)anthracene	1	1	2
Fluoranthene	2	2	4
Fluorene	3	3	6
Indeno(1,2,3-cd)pyrene	0	0	0
2-Methylnaphthalene	3	3	6
Naphthalene	4	3	7
Phenanthrene	3	3	6
Pyrene	2	2	4
PHTHALATES			
Bis(2-ethylhexyl)phthalate	2	2	4
Butylbenzylphthalate	2	2	4
PCBs			
Aroclor 1242	3	3	6
Aroclor 1254	1	1	2
Aroclor 1260	1	1	2

* Relative rating on a scale of 1 to 6 with 1 being the lowest mobility and 6 being the highest.

(PBLF4/11)MP

found to be least mobile of all: PAHs, phthalates and PCBs. They have the highest retardation factors and flow rates much slower than that of water.

Under ideal conditions, the relative mobility of each contaminant class would be reflected in its occurrence in various areas and media of the landfill, and could be used to predict their occurrence and fate in the future. For example, high-mobility contaminants would be expected to occur in a variety of media. If wastes and soils in a particular area were acting as a source, contamination should also be detected in ground water, surface water, seeps and sediments both on and off site; if high mobility compounds with low retardation factors where present, they would move readily from soils into solution in the ground water. Transport around and off the site would readily occur.

Conversely, low-mobility compounds, detected in the soils and wastes, should not be detected in aqueous media due to their tendency to adhere to organic matter. Finally, compounds whose relative mobility is neither high nor low, if detected in wastes and soils, may be found in some on-site media, but would not be expected to have migrated far off site, or to have penetrated the bedrock aquifer.

INORGANIC CONTAMINATION

A variety of factors affect the mobility of metals in soil/ground water systems. The major factors are:

- the presence of water (soil moisture content),
- the presence of other complexing chemicals in solution,
- the pH and oxidation/reduction potentional, which affect the speciation of all metals and complexing agents,
- the temperature, and
- soil properties such as cation exchange, the presence of hydrous oxides of iron and manganese, and the presence of organic matter.

High variability in environmental conditions and the value of certain physical parameters, however, lend some uncertainty to estimates of metal mobilities. Soil sorption constants in particular may vary a great deal. The constants may vary over several orders of magnitude for a given metal in different soils and/or under different environmental conditions. Thus there is no single sorption constant describing the binding of metals in solution to soils and no unique mobility holds for all environmental conditions.

Nonetheless, a crude sorting into few relative mobility classes is possible. For this investigation, the estimates of overall mobility are based on the anticipated speciation of the chemicals in fresh water, general solubility patterns, and general soil sorption patterns. And although no strict rules apply to the assignment of a particular metal to a mobility class, some general guidelines do apply:

- Alkaline earth metals (e.g., calcium, potassium and sodium) are relatively soluble in water and would be among the most mobile;
- Metals whose predominant species in freshwater are anions (e.g., arsenic, selenium and vanadium) which are only minimally retarded in soils are among the most mobile;
- Metals known to be fairly strongly sorbed to most soils under normal environmental conditions (e.g., pH 6 to 8 and near neutral redox potential) are among the least mobile;
- Metals whose predominant freshwater species are cations, especially divalent heavy metals (e.g., copper, lead and nickel), which are subject to sorption via cation exchange are among the least mobile.

Special consideration is given to chromium and cyanide. Chromium requires two rankings, since the hexavalent form (Cr IV) is more mobile than the trivalent form (Cr III). Cyanide, a non-metal, is considered highly mobile because of its commmon anion speciation. However, complexation and volatilization are also important processes that determine its fate.

The relative mobilities assigned to the inorganic contaminants at the Pfohl Brothers landfill is shown in table H-2.

TABLE H-2

RELATIVE MOBILITIES OF INORGANIC CONTAMINANTS

HIGH	MEDIUM	LOW
Antimony	Aluminum	Chromium III
Calcium	Arsenic	Cobalt
Chromium VI	Barium	Copper
Magnesium	Beryllium	Lead
Potassium	Cadmium	Mercury
Selenium	Iron	Nickel
Sodium	Manganese	Zinc
Vanadium	Silver	
Cyanide	Thallium	

Thus under the ideal or "average" conditions assumed to estimate these mobilities, their relative assigned values would be reflected in the occurrence of each metal in various areas and media of the landfill. The relative mobilities could then be used to predict the occurrence and fate of each compound in the future. As described previously for the organic contaminants, those metals with high mobilities would be expected to have migrated from their source materials into aqueous and sedimentary media. Furthermore, their migration into areas off site would be expected. On the other hand, those metals with relatively lower mobilities would not be expected to have infiltrated the aqueous media nor to have migrated far on or off site.

The nature and extent of inorganic contamination as outlined in section 4.3 suggests that conditions at the Pfohl Brothers landfill are neither ideal nor average. The contaminants do not seem to display distribution patterns consistent with the predictions of the simple model. That is, the higher mobility metals do not occur in all media, nor have they consistently migrated off site. Similarly, the lower mobility metals are not limited in their occurrence to source media, nor are they restricted to on site areas only.

Similar inconsistencies in the behavior of lower mobility metals are also illustrated by two common site contaminants, nickel and lead. According to the model's predictions, both ions should occur with limited distribution,

restricted to the less mobile media in on site areas. However, the distribution of lead is more consistent with these predictions than that of nickel. In Area A on site samples, both metals occur in the subsurface soils and surface water sediment. Nickel is also found in the shallow ground water while lead occurs in the surface water. Both metals again occur in the off-site subsurface soil. However, lead does not appear in any other media while nickel has migrated to the bedrock aquifer.

In Area B, on-site lead contamination is absent from the deep ground water, surface water and seep sediments. Nickel contamination is in all media, with the exception of the surface water. Off-site lead contamination appears to be migrating primarily through overland runoff, with contamination detected only in the surface water and leachate seeps. Nickel, on the other hand, appears to be moving vertically, with contamination detected in both the shallow and deep aquifers.

In Area C, lead continues to behave according to the predictions of a low mobility compound, while the distribution of nickel is more characteristic of a higher mobility metal. Nickel occurs in all media tested on site in Area C, but lead is not found in the deep ground water there. Off-site, lead acts only as a source in the subsurface soils, but does not appear at elevated concentrations in other media. Off-site soils are not contaminated with nickel, yet this metal is detected in both the shallow ground water and surface water sediments. The presence of elevated levels of lead in the sediments of Ellicott Creek indicates a degree of mobility not supported by the model. Thus although lead and nickel are predicted to be among the lower mobility metals that occur at the Pfohl Brothers landfill, lead appears to behave more according to the model than does nickel.

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