

Table A1. Well Log Master Table - Kent Highlands Closed Landfill

Location ID	Easting	Northing	Land elev. (feet)	Total Depth (feet)	Drilling Method	Screen Interval (feet bgs) (See Gas Mon Screens)	Well Type: B - boring, GE - Gas Monitoring Well, W - GW Active (A) / Inactive (I)	Year Completed	SWL (elevation feet)	Depth to Perched Groundwater (feet)	Elevation Perched (feet)	Depth to LOWER OUTWASH (feet)	ELTV LOWER OUTWASH (feet)	Depth to SILT (feet)	Elevation SILT (feet)	Depth to SILT Bottom (feet)	Elevation SILT BOTTOM (feet)	Depth to GW in LOWER SAND (feet)	Elevation LOWER SAND GW (feet)	Shallow Gas Monitoring Screen (feet bgs)	Middle Gas Monitoring Screen (feet bgs)	Deep Gas Monitoring Screen (feet bgs)	Notes
B1	1641155.45	147121	280	151	Hollow stem		B	I	1999			67	213	80	200	120	160						
KDGW-94A	1641682	146969.2	261.3	80	Cable Tool	26-74	W / GE	A	1990	123		70	191	74	187		147	144	115				Gas Extraction Well and groundwater monitoring point
KDGW-94B	1641779.5	146955.1	259.2	158	Cable Tool	108-148	W / GE	A	1990					87	172	112	147						Gas Extraction Well and groundwater monitoring point
KDGW-95	1641487.4	146995.2	264.1	88	Cable Tool	27.5-82.5	GE	A	1990			34	230	85	179								
KDGW-96	1641294.3	146992	268.7	98	Cable Tool	30-90	GE	A	1990			64	205	90	179								
KDGW-97	1641116.7	147083.7	280	98	Cable Tool	30-90	GE	A	1990			90	190	94	186								
KDGW-97A	1641116.7	147220.3	285	150	Hollow stem	95-145	GE	A	1999														
KDGW-98	1640968.4	147220.3	283.4	80	Cable Tool	26-75	GE	A	1990			74	209										No geology log details (See B1 Log)
KDGW-99	1640772.8	147340.4	291.8	80	Cable Tool	10-35 / 45-50	GE	A	1990	42	250												
KSGW-101	1640580.5	147217.2	299.7	27	Air Rotary	11-26	GE	A	1990	16	284												
KDGW-101	1640580.5	147217.2	299.9	110	Air Rotary	87-102	GE	A	1990	24	276	70	230	98	202								
KDGW-102	1640536.5	147164.3	300.4	100	Cable Tool	80-100	GE	A	1990	24	276	74	226										
KGP-1	1640410	147160	305	120	Air Rotary	S/M/D	GM	A	1984														Limited Details on Water Content
KGP-14	1641954.1	147155.7	255	185	Air Rotary	S/M/D	GM	A	1984					90	165	105	150			9-11	63-65	88-90	
KGP-15	1641562.7	147152.3	270	200	Air Rotary	S/M/D	GM	A	1984					70	200	170	100			12-13	71.5-73	100.5-101	
KGP-16A	1641194.2	147258.3	278	151	Hollow stem	S/M/D	GM	A	1984											21-22	51-52	171-172	
KGP-32A	1640450.3	147454.1	305	150		S/M/D	GM	A	1999			57	221	74	204	130	148	150	128	18-23	40-50	96-136	
KGP-38B	1640896	147474.3	280	170		S/M/D	GM	A	2004			91	214							4-20	16-43 55-75	80-103	Limited Details - drillers log
KDGW-98	1640985.5	147327.1	280.3	100	Cable Tool	S/M/D	GM	A	1990	29	251	60	220	74	206					10-20	30-50	140-170	Limited Details - drillers log
KGP-16	1641194.2	147158.3	290	160	Air Rotary	S/M/D	GM	I	1984					77	213					15-30	42.5-72.5	85-90	
KGP-32	1640356.5	147446.5	324.8	125	Air Rotary	S/M/D	GM	I	1990											18.5-20	54.5-56	113.5-115	
KGP-38	1640852	147602	300.5	196	Cable Tool	S/M/D	GM	I	1990	50	251			93	208	172	129			5-20	20-47.5 55-77	95-120	Log Not Available for review
KGP-39	1641650.2	147559.6	268.3	181	Cable Tool	S/M/D	GM	I	1990					75	193	117	151	158	110	10-30	41.2-61.2	176-181	
KGP-41	1641254	147612.3	277	197	Air Rotary	M/D	GM	I	1991			53	224	71	206	151	126	194	83	10-20	35-55	120-160	
KGP-42	1641222.1	147825.6	278	84	Air Rotary	S/M	GM	I	1991	48	230			68	210					10-26	45-55	178-190	
KGP-43	1641468.9	147815.3	274	180	Air Rotary	S/M/D	GM	I	1991	52	222	79	195	87	187					10-20	29-39	66-76	
KGP-44	1640855.5	147798.9	285	89	Air Rotary	S/M	GM	I	1991	16	269	68	217	74	211					9-24	30-55		
KGP-45	1641198.3	148050	278	119	Air Rotary	S/M	GM	I	1991	58	220	72	206							12-26	40-50		
KGP-46	1640871.3	147973.8	288	84	Air Rotary	S/M	GM	I	1991	38	250			69	219					9-19	27-37		
KPZ-2A	1641640	146880	305.2	285	Cable Tool	280-285	W	A	1977	159													Log Not Available for review
KPZ-2B	1641640	146880	305.2	123	Cable Tool	118-123	W	A	1977	108													Log Not Available for review
KMW-7A	1642018.69	147061.93	253	274	Cable Tool	155-165	W	A	1990	118		45	208	85	168	110	143	140	113				
KMW-7B	1642018.69	147061.93	253	258	Cable Tool	240-250	W	A	1990	116													
KGP-38CD	1640896	147474.3	300.5	196		196x	W	A	2004	141													See KGP-38 Log
KPZ-1	1640705	147454.1	269	281	Cable Tool	220-270	W	I	1977	160				95	174	190	79	210	59				
KMW-6	1640295.3	147446.5	326.7	245	Air Rotary	102-132	W	I	1985					127	200								Limited Details on Water Content

Table A2. Boreholes - Kent Highlands Closed Landfill

Location ID	Easting	1641155.5	Northing	280	151	Hollow stem	Screen Interval (feet bgs) S-shallow, M-Middle, D-Deep (See Gas Mon Screens)	Well Type: B - boring, GC - Gas Extraction Well, GM - Gas Monitoring Well, W - GW Monitoring Well	Active (A) / Inactive (I)	1999	Year Completed	SWL (elevation feet)	Depth to Perched Groundwater (feet)	Elevation Perched (feet)	Depth to LOWER OUTWASH (feet)	213	80	200	Elevation SILT (feet)	Depth to SILT Bottom (feet)	120	160	Elevation SILT BOTTOM (feet)	Depth to GW in LOWER SAND (feet)	Elevation LOWER SAND GW (feet)	Shallow Gas Monitoring Screen (feet bgs)	Middle Gas Monitoring Screen (feet bgs)	Deep Gas Monitoring Screen (feet bgs)	Notes

Table A3. Gas Extraction Wells - Kent Highlands Closed Landfill

Location ID	Easting	Northing	Land elev. (feet)	Total Depth (feet)	Drilling Method	Screen Interval (feet bgs) (See Gas Mon Screens)	Well Type: B - boring, GE - Gas Extraction Well, GM - Gas Monitoring Well, W - GW Monitoring Well	Active (A) / Inactive (I)	Year Completed	SWL (elevation feet)	Depth to Perched Groundwater (feet)	Elevation Perched (feet)	Depth to LOWER OUTWASH (feet)	ELEV LOWER OUTWASH (feet)	Depth to SILT (feet)	Elevation SILT (feet)	Depth to SILT Bottom (feet)	Elevation SILT BOTTOM (feet)	Depth to GW in LOWER SAND (feet)	Elevation LOWER SAND GW (feet)	Shallow Gas Monitoring Screen (feet bgs)	Middle Gas Monitoring Screen (feet bgs)	Deep Gas Monitoring Screen (feet bgs)	Notes
KDGW-95	1641487.4	146993.2	264.1	88	Cable Tool	27.5-82.5	GE	A	1990		34	230.1	58	206.1	85	179.1								
KDGW-96	1641294.3	146992	268.7	98	Cable Tool	30-90	GE	A	1990				64	204.7	90	178.7								
KDGW-97	1641116.7	147083.7	280	98	Cable Tool	30-90	GE	A	1990				90	190	94	186								
KDGW-97A	1641116.7	147220.3	285	150	Hollow stem	95-145	GE	A	1999															
KDGW-98	1640968.4	147220.3	283.4	80	Cable Tool	26-75	GE	A	1990				74	209.4										
KSGW-99	1640772.8	147340.4	291.8	80	Cable Tool	10-35 / 45-54	GE	A	1990		42	249.8												No geology log details (See B1 Log)
KSGW-101	1640580.5	147217.2	299.7	27	Air Rotary	11-26	GE	A	1990		16	283.7												
KDGW-101	1640580.5	147217.2	299.9	110	Air Rotary	87-102	GE	A	1990		24	275.9	70	229.9	98	201.9								
KDGW-102	1640536.5	147164.3	300.4	100	Cable Tool	80-100	GE	A	1990		24	276.4	74	226.4										
KDGW-94A	1641682	146969.2	261.3	80	Cable Tool	26-74	W / GE	A	1990				70	191.3	74	187.3								
KDGW-94B	1641779.5	146955.1	259.2	158	Cable Tool	108-148	W / GE	A	1990	122.98					87	172.2	112	147.2	144	115.2				

Table A4. Gas Monitoring Probes - Kent Highlands Closed Landfill

Location ID	Eastings	Northings	Land elev. (feet)	Total Depth (feet)	Drilling Method	Screen Interval (feet bgs) (S=Shallow, M=Middle, D=Deep (See Gas Mon Screens))	Well Type: B - boring, GE - Gas Extraction Well, GM - Gas Monitoring Well, W - GW Monitoring Well	Active (A) / Inactive (I)	Year Completed	SWL (elevation feet)	Depth to Perched Groundwater (feet)	Elevation Perched (feet)	Depth to LOWER OUTWASH (feet)	Depth to SILT (feet)	Elevation SILT (feet)	Depth to SILT Bottom (feet)	Elevation SILT BOTTOM (feet)	Depth to GW in LOWER SAND (feet)	Elevation LOWER SAND GW (feet)	Shallow Gas Monitoring Screen (feet bgs)	Middle Gas Monitoring Screen (feet bgs)	Deep Gas Monitoring Screen (feet bgs)	Notes
KGP-1	1640410	147160	305	120	Air Rotary	S/M/D	GM	A	1984						165	105	150			9-11	63-65	88-90	Tails on Water
KGP-14	1641954.1	147155.7	255	185	Air Rotary	S/M/D	GM	A	1984					90						12-13	71.5-73	100.5-101	
KGP-15	1641562.7	147152.3	270	200	Air Rotary	S/M/D	GM	A	1984					70	200	170	100			21-22	51-52	171-172	
KGP-16A	1641194.2	147258.3	278	151	Hollow stem	S/M/D	GM	A	1999					74	204	130	148	150	128	18-23	40-50	96-136	
KGP-32A	1640450.3	147454.1	305	150		S/M/D	GM	A	2004											4-20	16-43	155-75	Details - drill
KGP-38B	1640896	147474.3	280	170		S/M/D	GM	A	2004											10-20	30-50	140-170	Details - drill
KDGP-98	1640965.5	147327.1	280.3	100	Cable Tool	S/M/D	GM	A	1990	29	251.3	60	220.3	74	206.3					15-30	42.5-72.5	85-90	
KGP-16	1641194.2	147158.3	290	160	Air Rotary	S/M/D	GM	I	1984					77	213					18.5-20	54.5-56	113.5-115	
KGP-32	1640356.5	147446.5	324.8	125	Air Rotary	S/M/D	GM	I	1990											5-20	10-47.5	155-7	Available for
KGP-38	1640852	147602	300.5	196	Cable Tool	S/M/D	GM	I	1990	50	250.5			93	207.5	172	128.5			10-30	41.2-61.2	176-181	
KGP-39	1641650.2	147559.6	268.3	181	Cable Tool	S/M/D	GM	I	1990					75	193.3	117	151.3	158	110.3	10-20	35-55	120-160	
KGP-41	1641254	147612.3	277	197	Air Rotary	M/D	GM	I	1991				53	224	206	151	126	194	83		45-55	178-190	
KGP-42	1641222.1	147825.6	278	84	Air Rotary	S/M	GM	I	1991	48	230			68	210					10-26	37-52		
KGP-43	1641468.9	147815.3	274	180	Air Rotary	S/M/D	GM	I	1991	52	222		79	195	187					10-20	29-39	66-76	
KGP-44	1640855.5	147798.9	285	89	Air Rotary	S/M	GM	I	1991	16	269		68	217	211					9-24	30-55		
KGP-45	1641198.3	148050	278	119	Air Rotary	S/M	GM	I	1991				58	220	206					12-26	40-50		
KGP-46	1640871.3	147973.8	288	84	Air Rotary	S/M	GM	I	1991	38	250			69	219					9-19	27-37		

Table A5. Groundwater Monitoring Points - Kent Highlands Closed Landfill

Location ID	Easting	Northing	Land elev. (feet)	Total Depth (feet)	Drilling Method	Screen Interval (feet bgs) (See Gas Mon Screens)	Well Type: B - boring, GE - Gas Extraction Well, GM - Gas Monitoring Well, W - GW Monitoring Well	Active (A) / Inactive (I)	Year Completed	SWL (elevation feet)	Depth to Perched Groundwater (feet)	Elevation Perched (feet)	Depth to LOWER OUTWASH (feet)	ELEV LOWER OUTWASH (feet)	Depth to SILT (feet)	Elevation SILT (feet)	Depth to SILT Bottom (feet)	Elevation SILT BOTTOM (feet)	Depth to GW in LOWER SAND (feet)	Elevation LOWER SAND GW (feet)	Shallow Gas Monitoring Screen (feet bgs)	Middle Gas Monitoring Screen (feet bgs)	Deep Gas Monitoring Screen (feet bgs)	Notes
KPZ-2A	1641640	146880	305.2	285	Cable Tool	280-285	W	A	1977	159.1														Log Not Available for review
KPZ-2B	1641640	146880	305.2	123	Cable Tool	118-123	W	A	1977	108														Log Not Available for review
KMW-7A	1642018.7	147061.93	253	274	Cable Tool	155-165	W	A	1990	117.74			45	208	85	168	110	143	140	113				
KMW-7B	1642018.7	147061.93	253		Cable Tool	240-250	W	A	1990	115.77														
KGP-38CD	1640896	147474.3	300.5	196		196x	W	A	2004	141.13														See KGP-38 Log
KDGW-94A	1641682	146969.2	261.3	80	Cable Tool	26-74	W / GE	A	1990				70	191.3	74	187.3								
KDGW-94B	1641779.5	146955.1	259.2	158	Cable Tool	108-148	W / GE	A	1990	122.98					87	172.2	112	147.2	144	115.2				
KPZ-1	1640705	147454.1	269	281	Cable Tool	220-270	W	I	1977	159.6					95	174	190	79	210	59				
KMW-6	1640295.3	147446.5	326.7	245	Air Rotary	102-132	W	I	1985						127	199.7								Limited Details on Water Content

Parametrix, Inc.

BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 555-1550-037 BORING/WELL NUMBER B-1
 PROJECT NAME City of Seattle DATE COMPLETED September 10, 1999
 LOCATION Kent Highlands Landfill TOTAL DEPTH OF BORING 151.0
 COORDINATES _____ INITIAL WATER LEVEL ▽
 DRILLING METHOD 4" OD Hollow Stem Auger STATIC WATER LEVEL ▽
 SAMPLING METHOD 1-1/2" Split Spoon LOGGED BY S. Matthews, T. Hanberg
 GROUND ELEVATION Approximately 285 ft TOP OF CASING ELEVATION _____

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft.)	U.S.C.S.	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH (ft.)	WELL DIAGRAM
						SM		Silty sand (SM); light olive brown (2.5Y 5/4); nonplastic fines; fine grained; trace coarse gravel; dry		Soil (0-1 ft bgs)
	55/6	6	SS	X	10			At 10 ft: Very dense	10	Bentonite chips (1-151 ft bgs)
	80/6	5	SS	X	20	SW		Well graded sand (SW); olive brown (5Y 5/4); nonplastic fines; fine to coarse grained; fine gravel; damp; very dense	20	
	90/6	6	SS	X	30			At 30 ft: Olive brown (2.5Y 4/3)	30	

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BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 555-1550-037

BORING/WELL NUMBER B-1

PROJECT NAME City of Seattle

DATE COMPLETED September 10, 1999

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PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft.)	U.S.C.S.	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH (ft.)	WELL DIAGRAM
	65/6	6	SS	X	40	SP		Poorly graded sand (SP); dark grayish brown (2.5Y 5/2); nonplastic fines; medium grained; damp; very dense	40	 Bentonite chips (1-151 ft bgs)
	85/6	6	SS	X	50	SM		Silty sand with gravel (SM); olive brown (2.5Y 4/3); nonplastic fines; fine to coarse grained; 20% fine gravel; very dense	50	
	100/4	4	SS	X	60			At 60 ft: Dark grayish brown (2.5Y 4/2)	60	
	100/5	5	SS	X	70	SW		At 67 ft: Saturated, first encountered water at time of drilling (9-10-99) Well graded sand with gravel (SW); very dark gray (5Y 3/1); fine to coarse grained; fine to coarse gravel; saturated; very dense	70	

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BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 555-1550-037

BORING/WELL NUMBER B-1

PROJECT NAME City of Seattle

DATE COMPLETED September 10, 1999

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PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft.)	U.S.C.S.	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH (ft.)	WELL DIAGRAM
	70/6	5	SS	X		GW		Well graded gravel with silt and sand (GW); dark gray (2.5Y 4/1); nonplastic fines; fine to coarse sand; fine to coarse gravel; saturated; very dense		
	60/6	6	SS	X	80	ML		Silt (ML), dark gray (7.5 YR 4/0); nonplastic fines; damp to dry; hard	80	
	42-50	12	SS	X				At 85 ft: Dry		Bentonite chips (1-151 ft bgs)
	40-50	12	SS	X	90				90	
	41-50	12	SS	X				At 95 ft: Damp		
	43-50	12	SS	X	100			At 100 ft: Decrease in moisture	100	
	41-50	12	SS	X				At 105 ft: Dark gray (2.5Y 4/0); dry		
	46-50	12	SS	X	110				110	

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BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 555-1550-037

BORING/WELL NUMBER B-1

PROJECT NAME City of Seattle

DATE COMPLETED September 10, 1999

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PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft.)	U.S.C.S.	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH (ft.)	WELL DIAGRAM
	76/6	6	SS	X		ML				
	65/6	6	SS	X	120	SP		Poorly graded sand (SP); dark gray (2.5 Y 4/0); nonplastic fines; fine to medium grained; damp; very dense	120	
	66/6	6	SS	X		ML		Silt (ML); dark gray (2.5 Y 4/0); nonplastic fines; trace fine gravel; damp; hard		
	60/6	6	SS	X	130			At 130 ft: 5% fine gravel At 131 ft: Increase in gravel	130	
	42-50	12	SS	X				At 135 ft: Low plasticity; 10% fine sand; trace fine gravel		
	65/6	6	SS	X	140	MH		Clayey silt (MH); dark gray (2.5 Y 4/0); plastic fines; trace fine sand; trace fine to coarse gravel; hard	140	
	70/6	6	SS	X		ML		Sandy silt (ML); dark gray (2.5 Y 4/0); low plasticity; medium sand; slightly damp; hard At 146 ft: Very hard drilling		
	80/6	2	SS	X	150	SM		Silty sand (SM), dark gray (2.5 Y 4/0), nonplastic fines, trace fine gravel, very moist	150	
								Total Depth = 151 ft		

Bentonite chips (1-151 ft bgs)

- The operational probes were used in the pump testing program that was conducted after the control wells were installed. The pump test results provided maximum well flow estimates that then served as the basis of design for the manifold piping.
- The operational probes are to be checked at regular intervals to be sure the system is properly balanced. Checking the pressure in these probes can show whether there is excessive or insufficient influence (i.e., vacuum) in the subsurface region around each of the control wells.

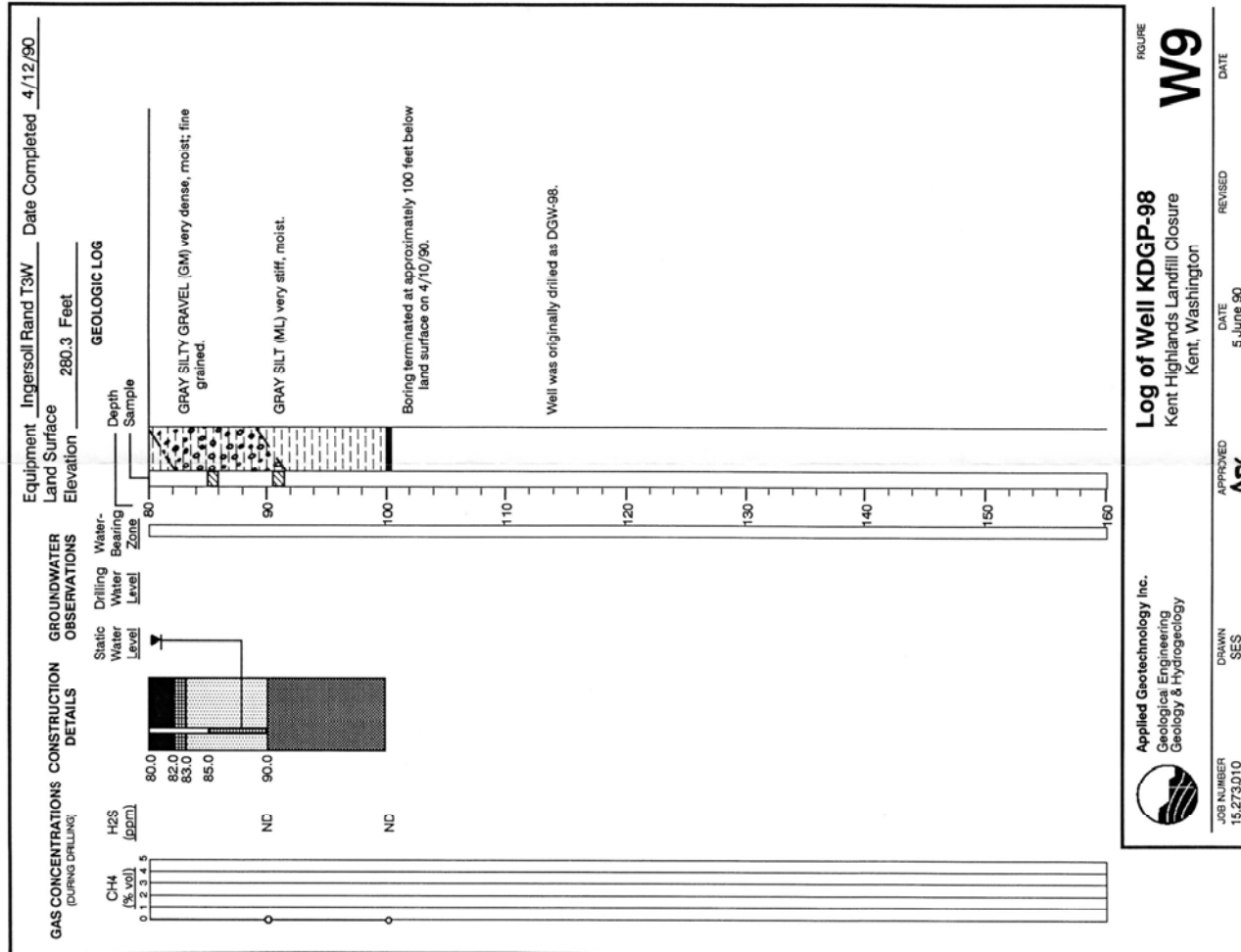
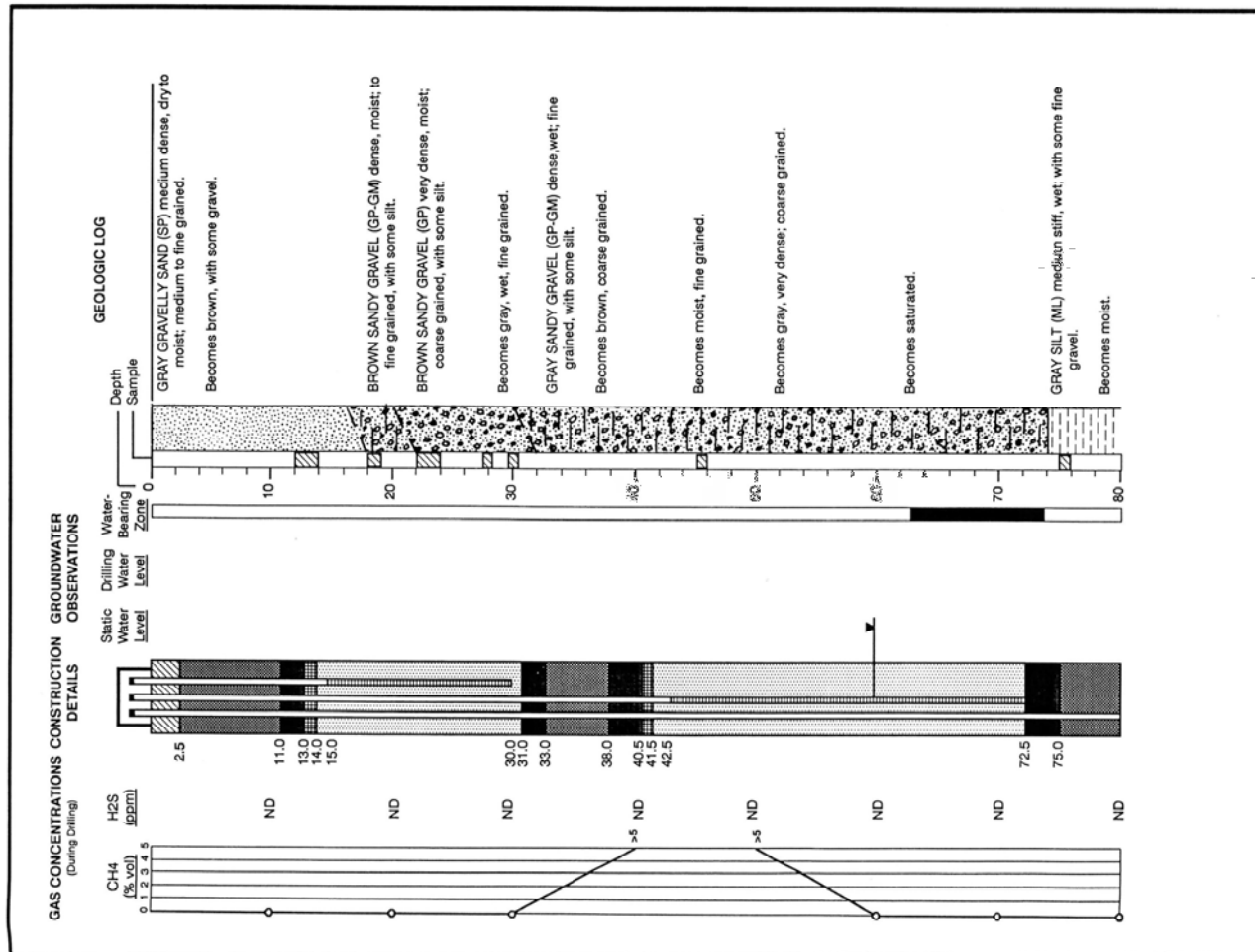
The primary feedback data on the operation of the perimeter control system comes from combustible gas readings in the migration monitoring probes. Adjustments needed to remove gas from areas where these probes show migration occurring should override readings from the operational probes. The operational probes can then be used to fine tune the system balance after uniform migration control has been achieved, or as a diagnostic tool to understand where additional vacuum is needed when migration is detected.

Changes in pressure in the operational probes should be measured on a monthly basis during construction of the final closure systems. Changes in flow rates at the control wells should be made to restore the system balance, as needed. Following construction of the closure systems and balancing of the interior and perimeter control systems, pressure in the operational probes should be read and adjustments made as needed on a twice-per-year basis.

Table 1-2 lists the operational probes, and the control wells on either side of them, that may need adjusting, based on pressure readings in the probes. Data from these probes shall be taken on separate forms from the migration probe data and kept in a separate

database along with the data from the control system operation. Data on pressure, oxygen, CO₂, and combustible gas concentrations will be collected from each probe.

Table 1-2 Operational Probes Along Perimeter Manifold	
Operational Probe	Probe Is Between Control Wells
KDGP-89	KDGW-89 (no well on east side)
KDGP-90	KDGW-89 and KDGW-90
KDGP-93	KDGW-92 and KDGW-93
KDGP-95	KDGW-94A and KDGW-95
KDGP-98	KDGW-98 and KDGW-99
KSGP-101	KSGW-99 and KSGW-101
KDGP-101	KDGW-101 and KDGW-102
KSGP-103	KSGW-103A and KSGW-103B
KDGP-104	KDGW-104A and KDGW-104B
KGP-2M	KDGW-105 and KDGW-104B
KGP-2S	KDGW-105 and KDGW-105B
KSGP-107	KSGWO-107A and KSGW-107B
KDGP-108	KSGW-108A and KSGW-108B
KSGP-109	KSGW-109A and KSGW-109B
KGP-5	KSGW-109B and KSGW-110
KSGP-113	KSGW-113 and KSGW-114
KSGP-116	KSGW-116 and KSGW-117
KSGP-119	KSGW-119 and KSGW-120
KSGP-122	KSGW-122 (no well to east of probe)

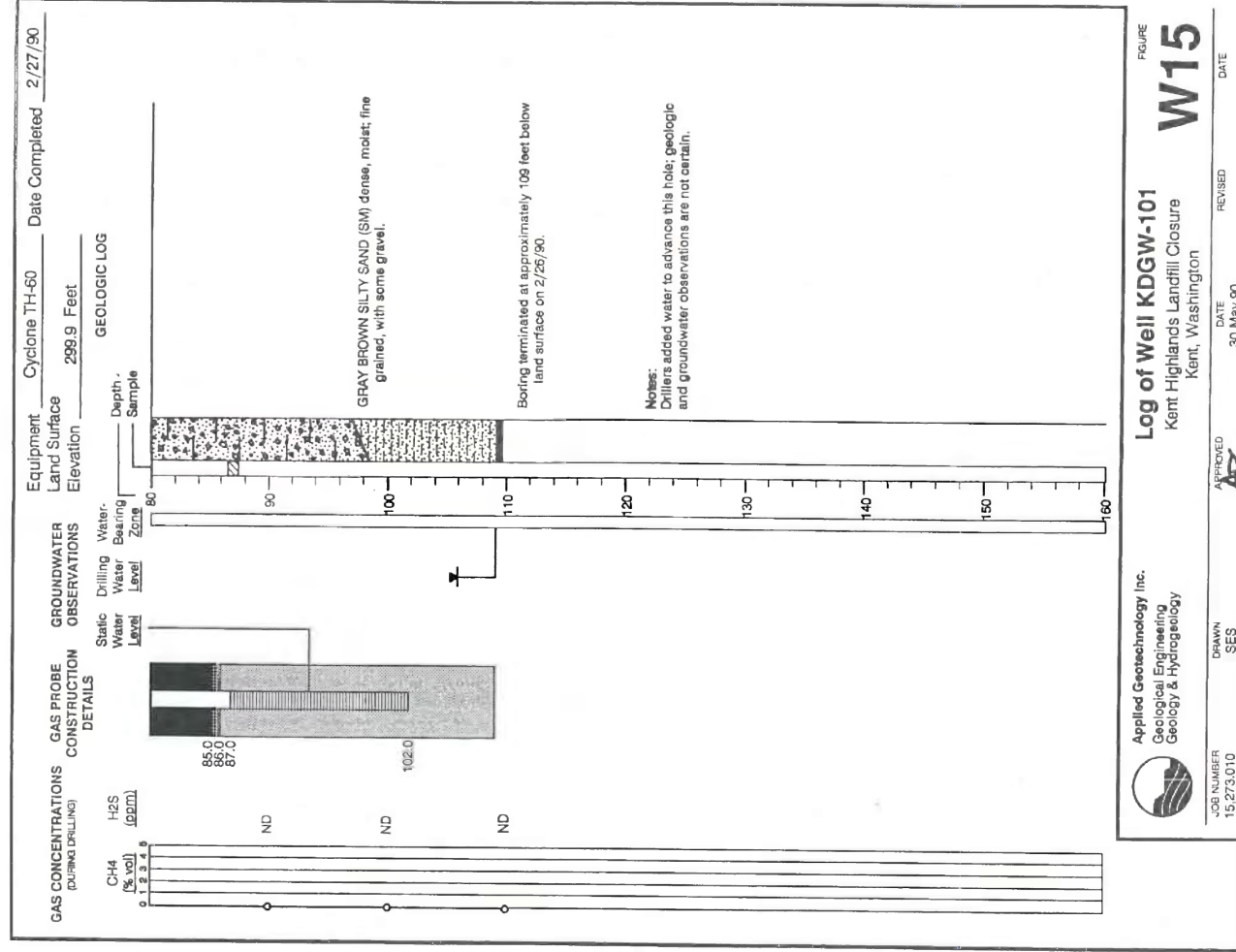
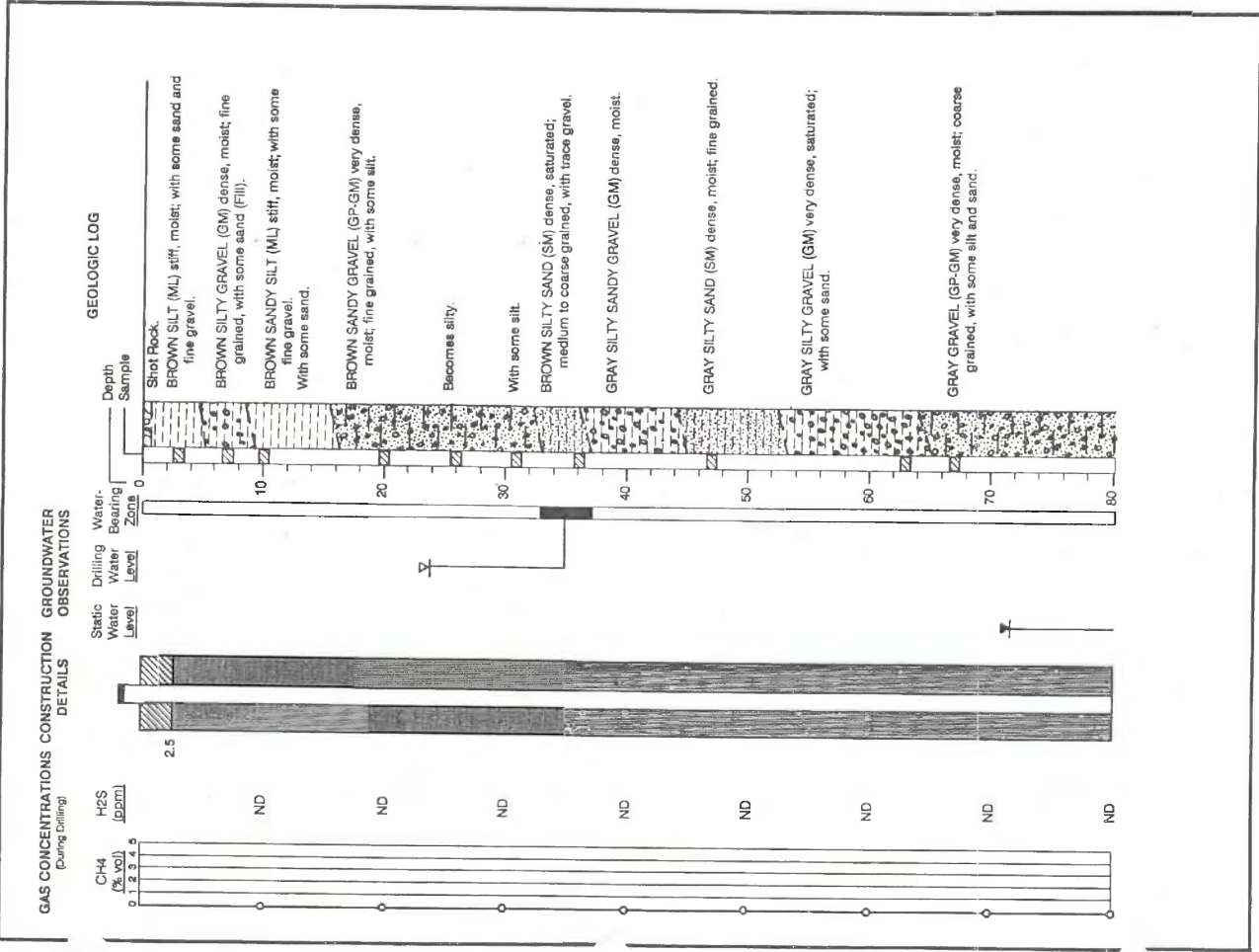


Applied Geotechnology Inc.
Geological Engineering
Geology & Hydrogeology

FIGURE
W9

Log of Well KDGP-98
Kent Highlands Landfill Closure
Kent, Washington

JOB NUMBER: 15,273,010
DRAWN: SES
APPROVED: APL
DATE: 5 June 90
REVISED: DATE
W-13



Applied Geotechnology Inc.
Geological Engineering
Geology & Hydrogeology

Job Number
15,273,010

Drawn
SES

Approved
ABC

Date
30 May 90

Revised
W-23

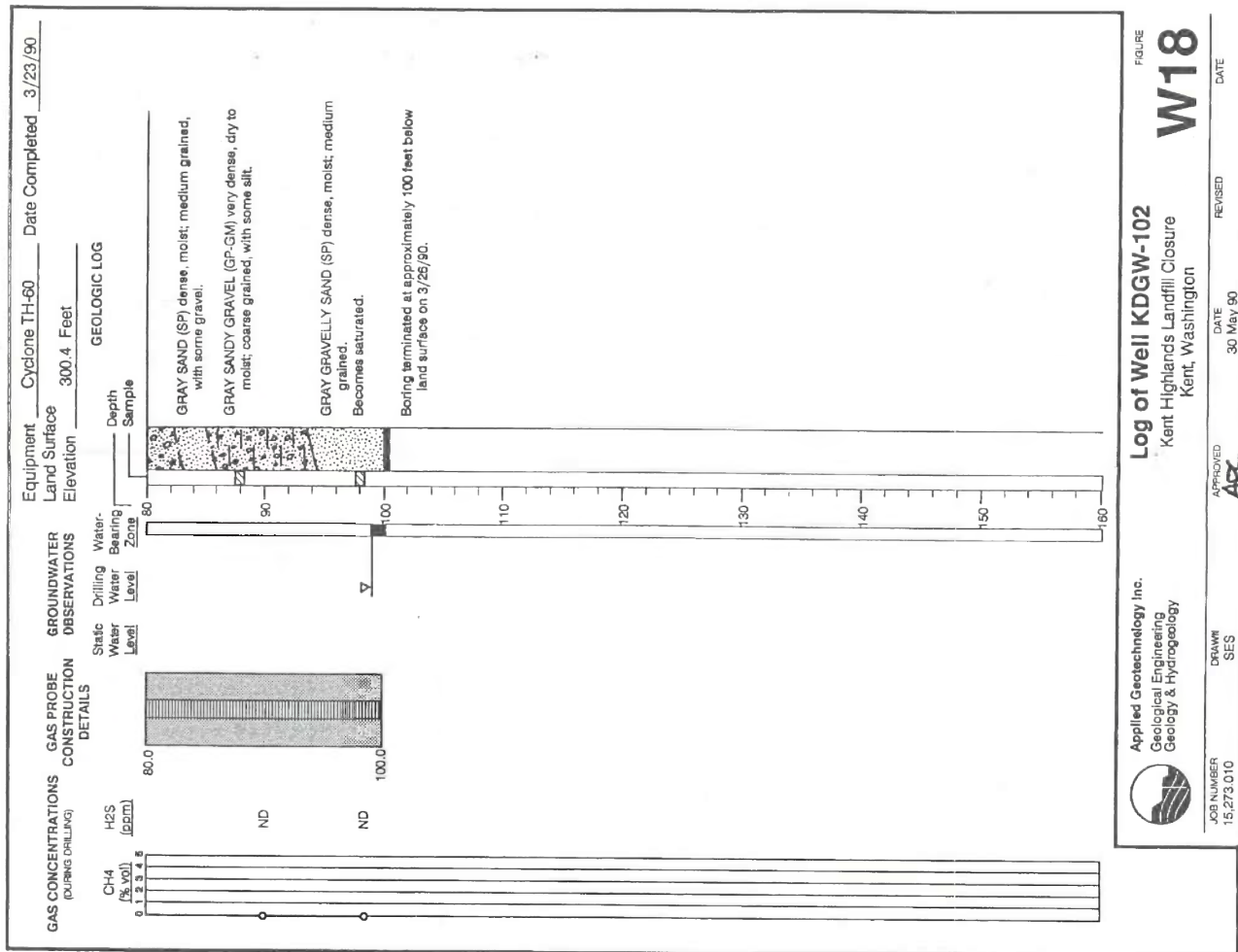
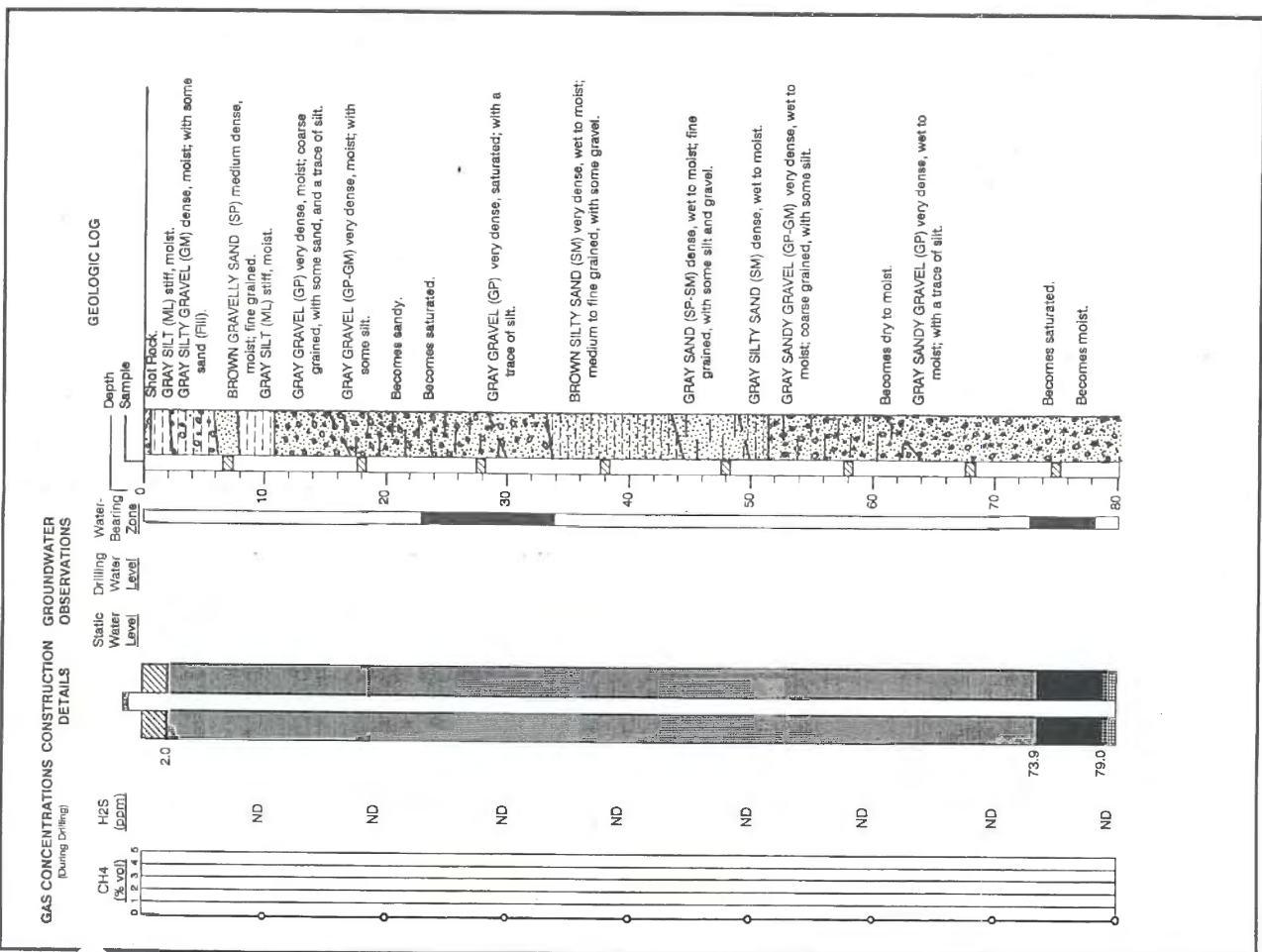
Equipment
Cyclone TH-60

Date Completed
2/27/90

Land Surface Elevation
299.9 Feet

Figure
W15

Log of Well KDGW-101
Kent Highlands Landfill Closure
Kent, Washington



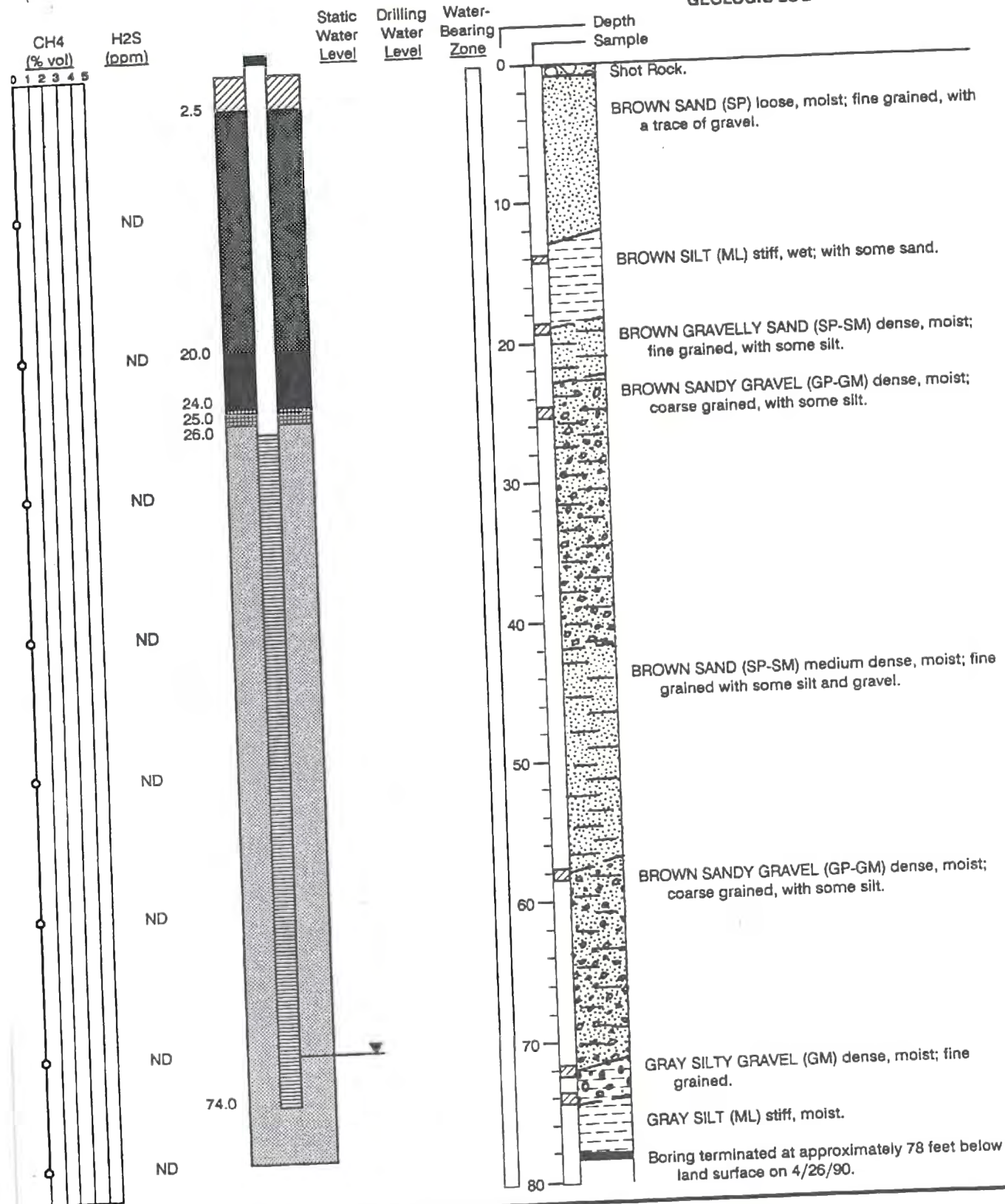
Equipment Ingersoll Rand T3W Date Completed 4/26/90
 Land Surface Elevation 261.3 Feet

S CONCENTRATIONS
(DURING DRILLING)

CONSTRUCTION
DETAILS

GROUNDWATER
OBSERVATIONS

GEOLOGIC LOG



Applied Geotechnology Inc.
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Log of Well KDGW-94A
 Kent Highlands Landfill Closure
 Kent, Washington

FIGURE
W4

JOB NUMBER
 15,273.011

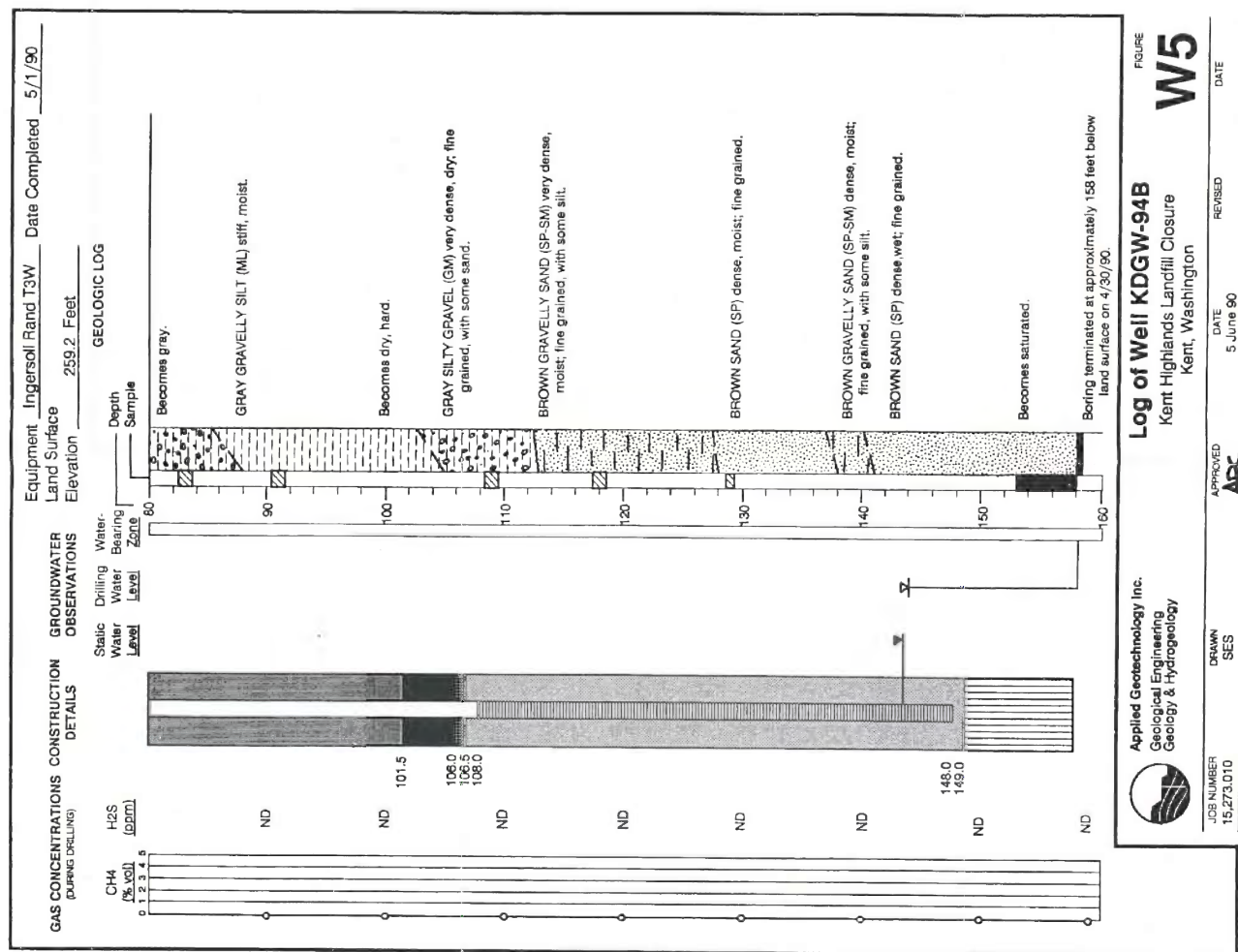
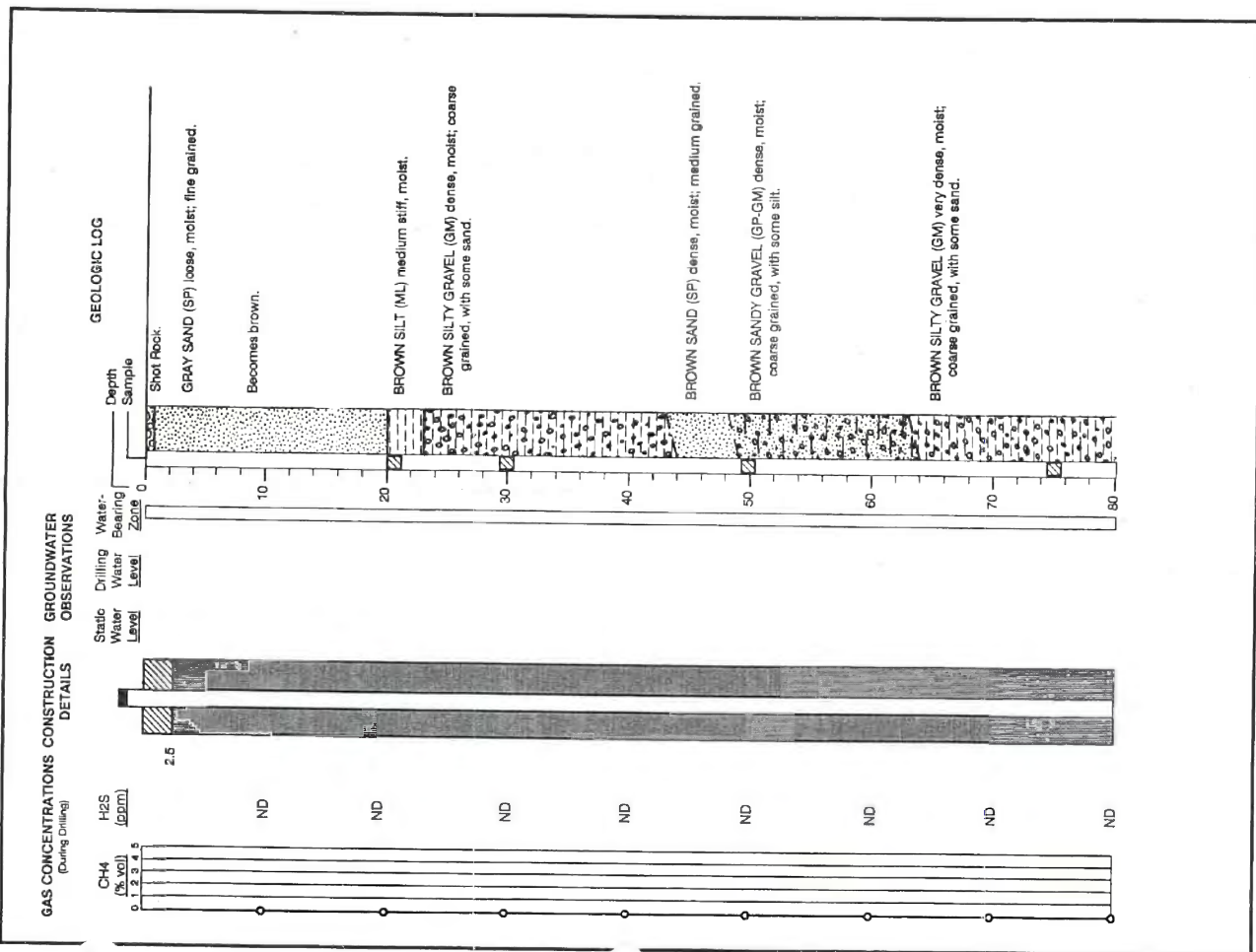
DRAWN
 SES

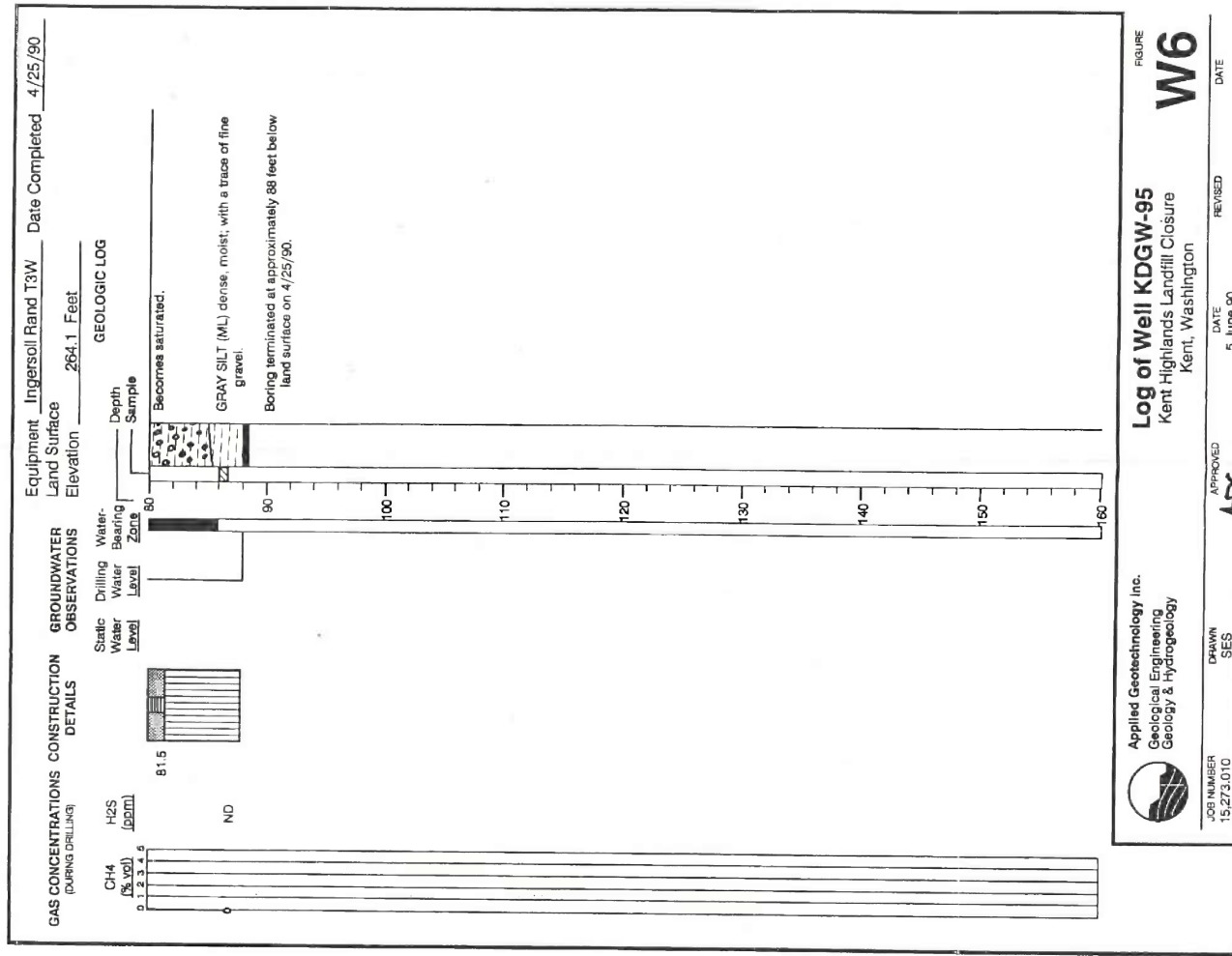
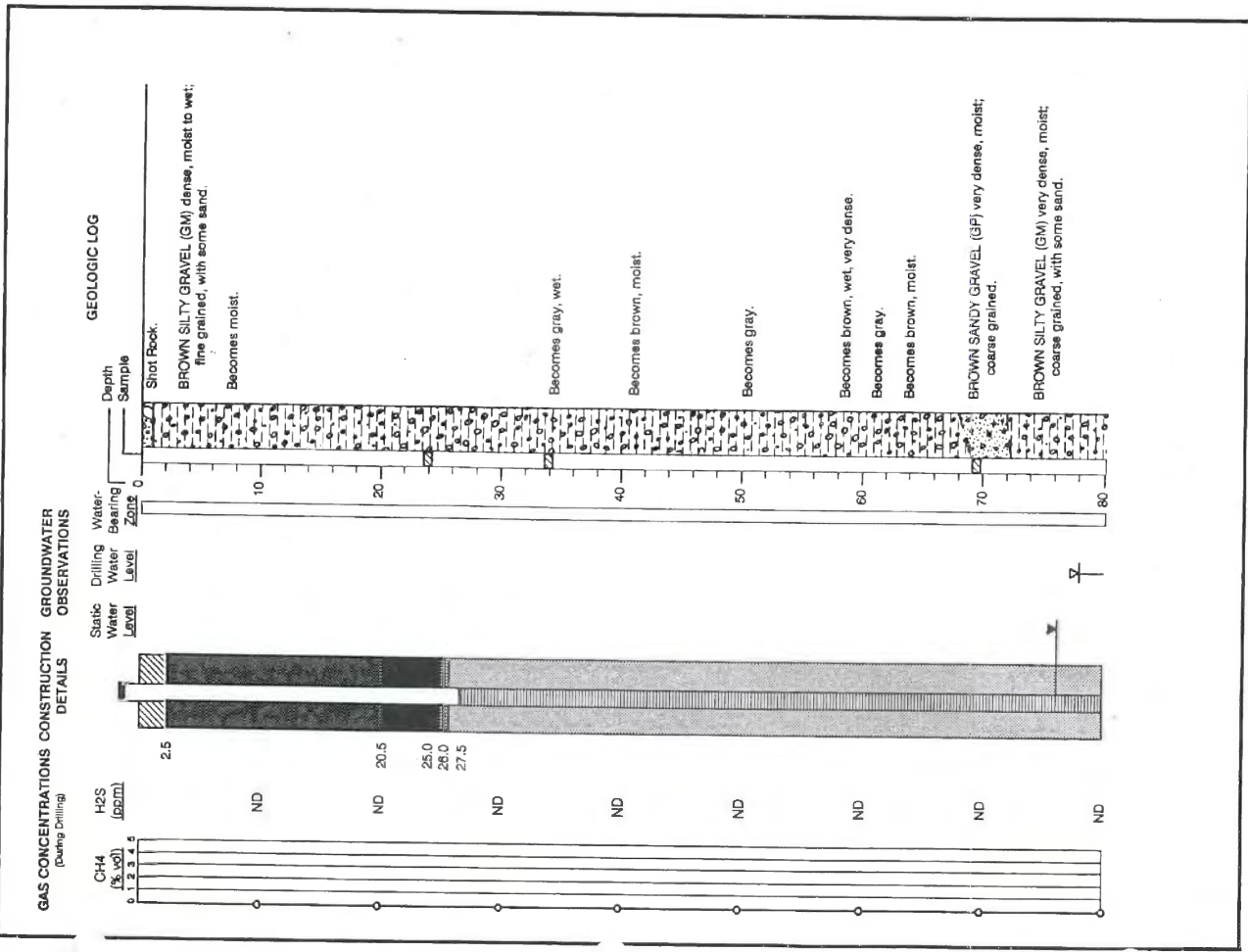
APPROVED
APC

DATE
 5 June 90

REVISED

DATE

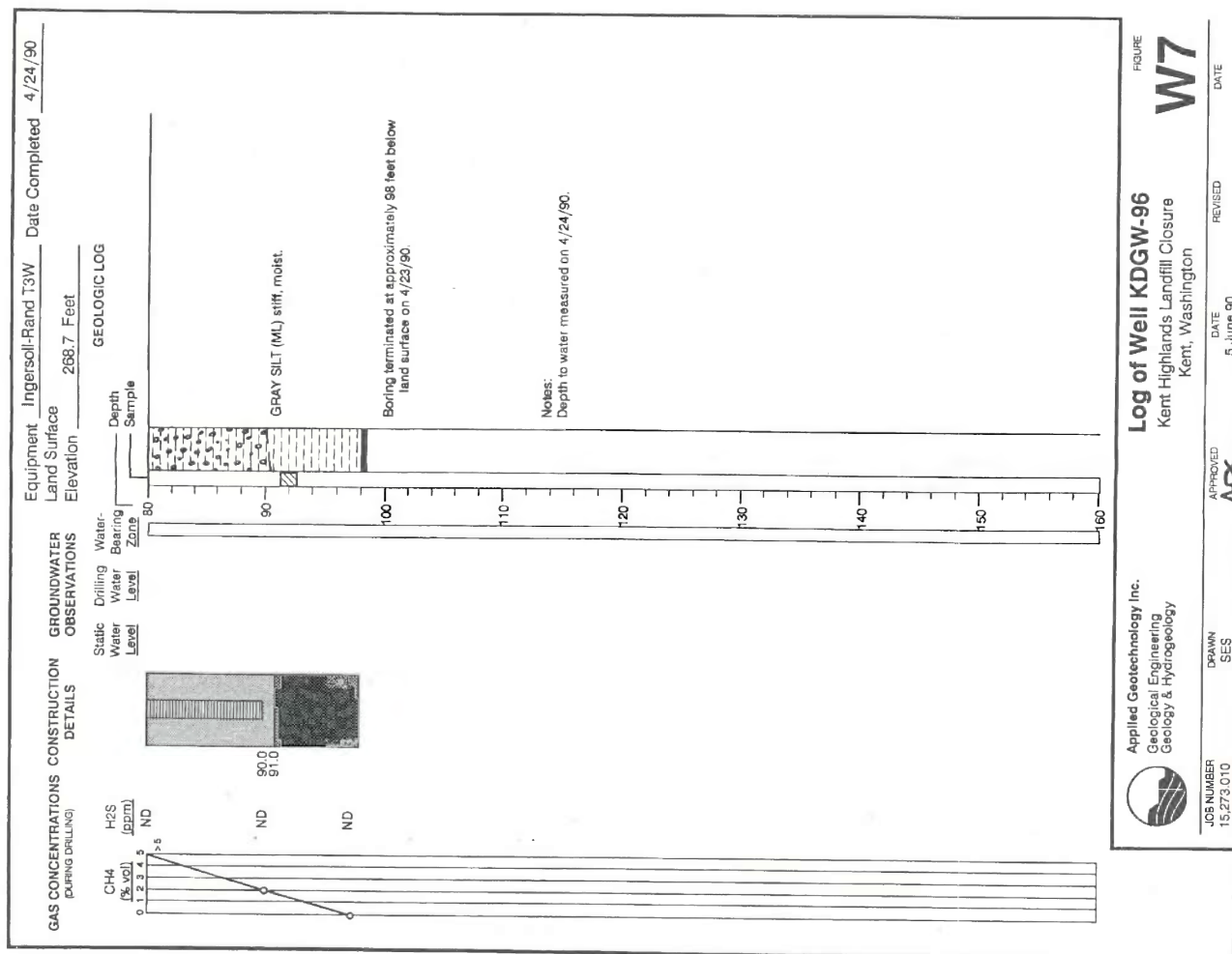
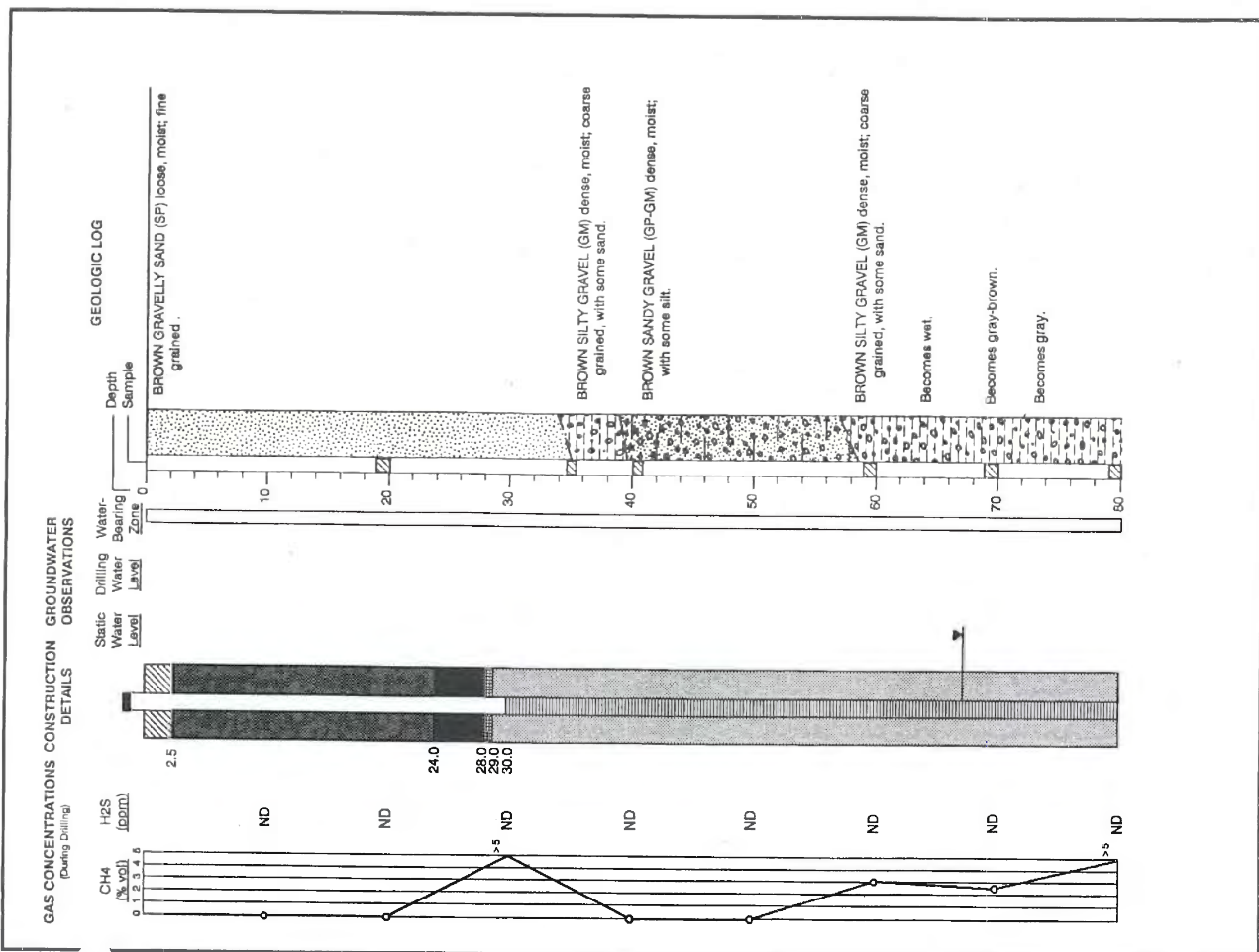


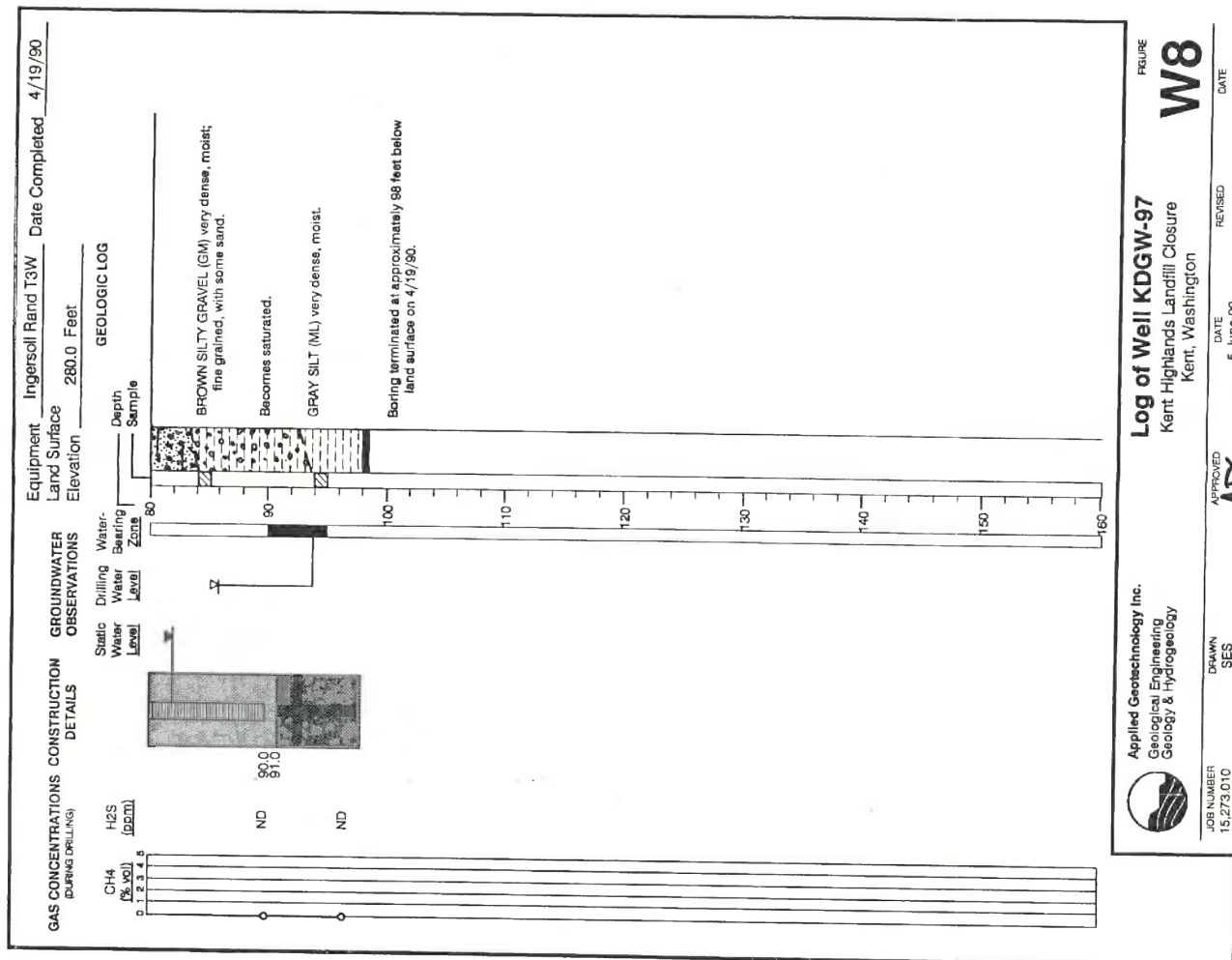
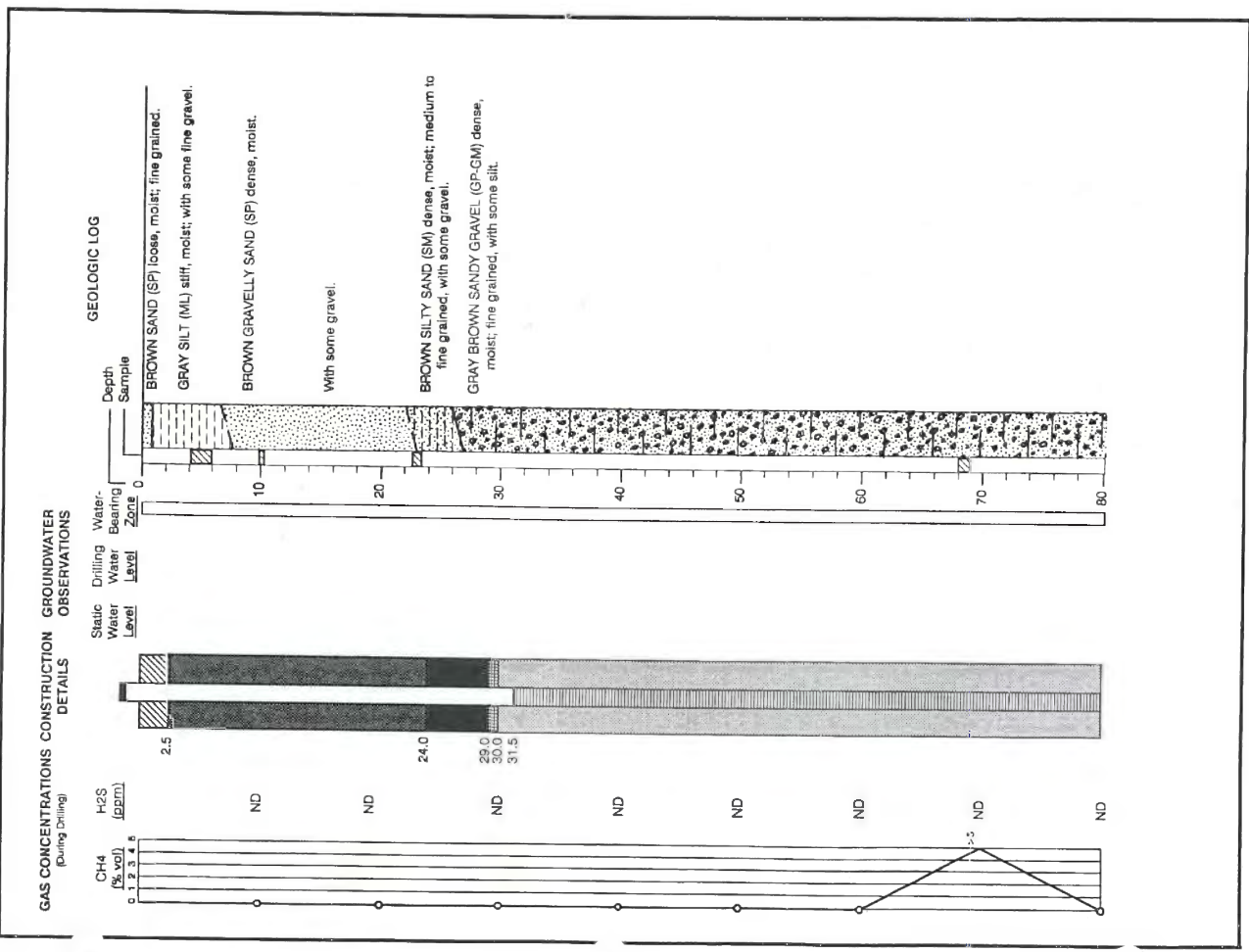


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FIGURE
W6
Log of Well KDGW-95
Kent Highlands Landfill Closure
Kent, Washington

JOB NUMBER: 15273.010
DRAWN: SES
APPROVED: ADX
DATE: 5 June 90
REVISED: DATE
W-7





BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER	555-1550-037	BORING/WELL NUMBER	KDGW-97A
PROJECT NAME	City of Seattle	DATE COMPLETED	September 14, 1999
LOCATION	Kent Highlands Landfill	TOTAL DEPTH OF BORING	150.0
COORDINATES		INITIAL WATER LEVEL	▽
DRILLING METHOD	10" OD Hollow Stem Auger	STATIC WATER LEVEL	▼
SAMPLING METHOD	None	LOGGED BY	
GROUND ELEVATION	Approximately 280 ft	TOP OF CASING ELEVATION	

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft.)	U.S.C.S.	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH (ft.)	WELL DIAGRAM
								Note: See soil profile for well KGP-16A-D for classification of soil zones.		
					10					
					20					
					30					

Continued Next Page

BORING/WELL CONSTRUCTION LOG

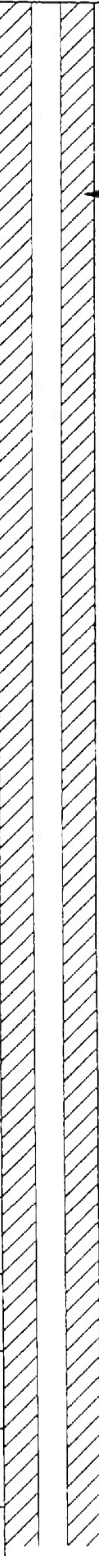
PROJECT NUMBER 555-1550-037

BORING/WELL NUMBER KDGW-97A

PROJECT NAME City of Seattle

DATE COMPLETED September 14, 1999

continued from previous page

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft.)	U.S.C.S.	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH (ft.)	WELL DIAGRAM
					40				40	 Bentonite grout (8-92 ft bgs)
					50				50	
					60				60	
					70				70	

Continued Next Page

BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 555-1550-037

BORING/WELL NUMBER KDGW-97A

PROJECT NAME City of Seattle

DATE COMPLETED September 14, 1999

continued from previous page

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft.)	U.S.C.S.	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH (ft.)	WELL DIAGRAM
					80				80	Bentonite grout (8-92 ft bgs)
					90				90	
					100				100	3/8" Pea gravel (92-150 ft bgs)
					110				110	4" 0.040 slot schedule 40 PVC screen (95-145 ft bgs)

Continued Next Page

BORING/WELL CONSTRUCTION LOG

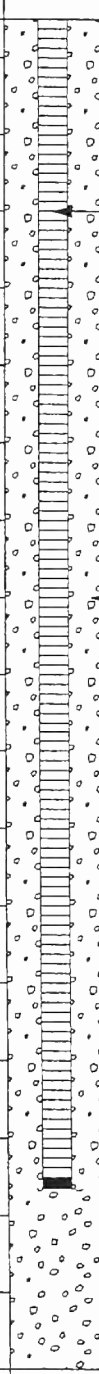
PROJECT NUMBER 555-1550-037

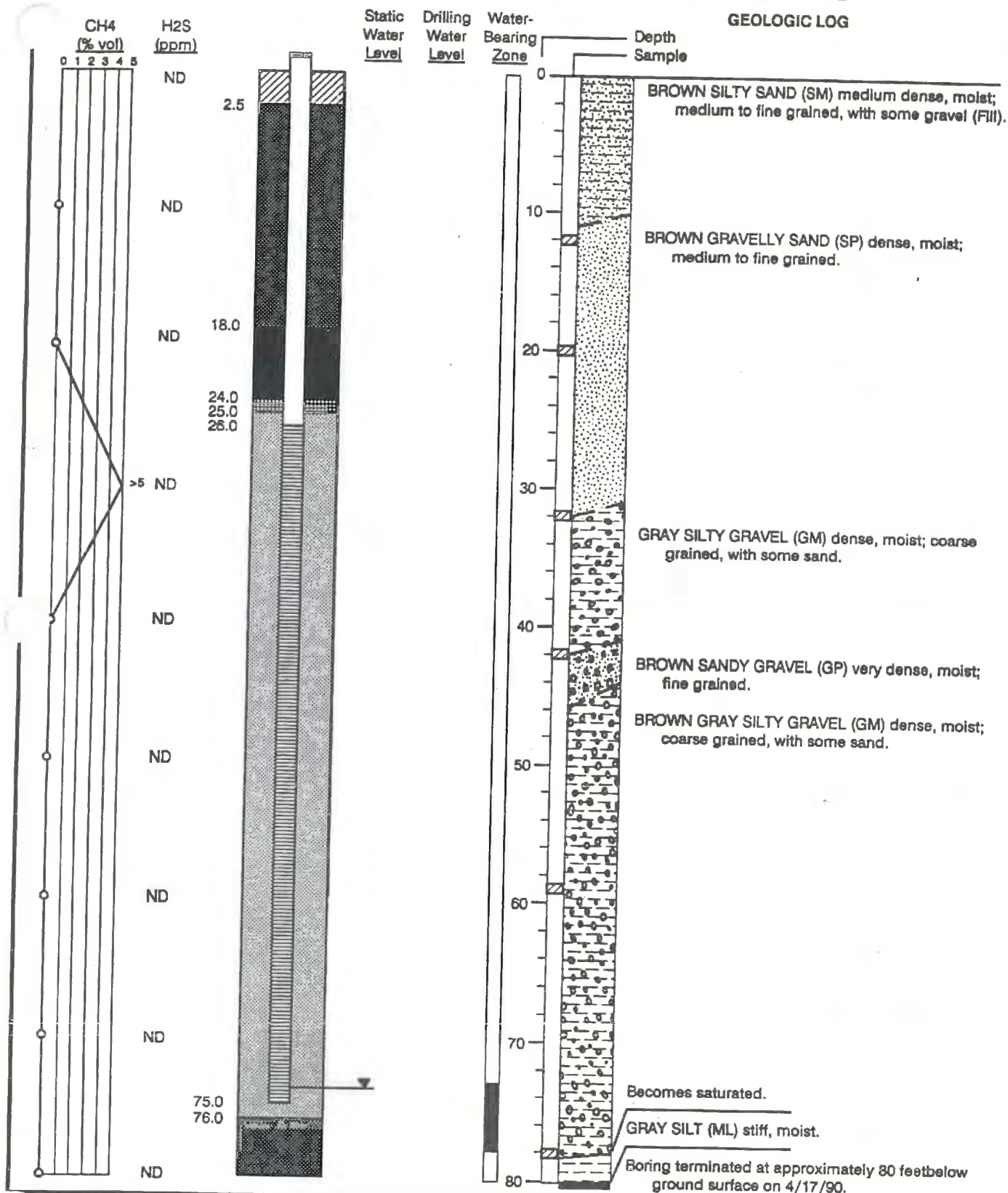
BORING/WELL NUMBER KDGW-97A

PROJECT NAME City of Seattle

DATE COMPLETED September 14, 1999

continued from previous page

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft.)	U.S.C.S.	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH (ft.)	WELL DIAGRAM
					120				120	 4" 0.040 slot schedule 40 PVC screen (95-145 ft bgs) 3/8" Pea gravel (92-150 ft bgs)
					130				130	
					140				140	
					150				150	
								Total Depth @ 150 ft		



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Log of Well KDGW-98
Kent Highlands Landfill Closure
Kent, Washington

FIGURE

W10

JOB NUMBER
15,273.011

**DRAWN
SES**

APPROVED
AR

DATE
31 May 90

REVISÉ

DATE _____

Figure A-2

RECORD OF GAS PROBE 1

LOCATION See Figure

DATUM 305 Ft. (approx.) DATE

SAMPLER HAMMER WEIGHT 140 LB., DROP 30 IN.

BORING METHOD Air Rotary Drill

SOIL PROFILE			SAMPLES		ELEVATION	STANDARD PENETRATION TEST ▲ "N" BLOWS PER FOOT		PIEZOMETER INSTALLATION	
ELEV. DEPTH	DESCRIPTION	STRAT. PLOT	NUMBER	TYPE		BLOWS/FT.	WATER CONTENT, PERCENT		
							Wp		Wn
305 0.0	Brown; fine to medium SAND, trace silt.		1	AR	305			Protective steel surface casing Bentonite seal 3/4" PVC Pea gravel	
300 5.0	Brown; fine to medium SAND, and fine to medium GRAVEL		2	AR	300				
295 10.0	Brown; fine to medium SAND, some gravel.		3	AR	295				
290 15.0	Brown; fine to medium SAND, some gravel, trace silt.		4	AR	290				
285 20.0	Brown to gray; fine to medium GRAVEL, some sand, to fine to medium SAND and fine to medium GRAVEL.		5	AR	285				
			6	AR	280				
			7	AR	275				

REMARKS: AR-Air rotary drill.

VERTICAL SCALE
1 IN. TO 5 FT.

Golder Associates

JOB # 853-1003

RECORD OF GAS PROBE 1

LOCATION See Figure

DATUM 305 Ft. (approx.) DATE

SAMPLER HAMMER WEIGHT 140 LB., DROP 30 IN.

BORING METHOD Air Rotary Drill

SOIL PROFILE			SAMPLES			STANDARD PENETRATION TEST ▲ "N" BLOWS PER FOOT			PIEZOMETER INSTALLATION	
ELEV.N. DEPTH	DESCRIPTION	STRAT. PLOT	NUMBER	TYPE	BLOWS/FT.	ELEVATION	WATER CONTENT, PERCENT			
							Wp	Wn		WL
270	Gray-brown; Fine to medium SAND, some to trace gravel and silt.		7	AR		270				3/4" PVC Pea gravel Bentonite seal
35.0			8	AR		265				
			9	AR		260				
260	Gray; silty SAND to fine to medium SAND, trace silt.		10	AR		255				
45.0			11	AR		250				
255	Gray; fine to medium SAND, trace silt.		12	AR		245				
50.0			13	AR		240				
250	Gray; Fine to coarse GRAVEL and fine to medium SAND, trace silt.		14	AR						
35.0										
245	Gray; fine to coarse GRAVEL, to fine to coarse GRAVEL, some sand.									
60.0										

REMARKS:

VERTICAL SCALE
1 IN. TO 5 FT.

Golder Associates

JOB # 853-1003

RECORD OF GAS PROBE 1

LOCATION See Figure

DATUM 305 Ft. (approx.) DATE

SAMPLER HAMMER WEIGHT 140 LB., DROP 30 IN.

BORING METHOD Air Rotary Drill

SOIL PROFILE			SAMPLES			STANDARD PENETRATION TEST ▲ "N" BLOWS PER FOOT			PIEZOMETER INSTALLATION	
ELEV. DEPTH	DESCRIPTION	STRAT. PLOT	NUMBER	TYPE	BLOWS/FT.	ELEVATION	WATER CONTENT, PERCENT			
							Wp	Wn		WL
	Gray; fine to coarse GRAVEL to fine to coarse GRAVEL, some sand.		14	AR		235				
			15	AR		230				
			16	AR		225				
			17	AR		220				
			18	AR		215				
			19	AR		210				
			20	AR		205				
			21	AR						

REMARKS:

VERTICAL SCALE
1 IN. TO 5 FT.

Golder Associates

JOB # 853-1003

RECORD OF GAS PROBE 1

LOCATION See Figure

DATUM 305 Ft. (approx.)

DATE

SAMPLER HAMMER WEIGHT 140 LB., DROP 30 IN.

BORING METHOD Air Rotary Drill

SOIL PROFILE			SAMPLES			ELEVATION	STANDARD PENETRATION TEST ▲ "N" BLOWS PER FOOT			PIEZOMETER INSTALLATION	
ELEV. DEPTH	DESCRIPTION	STRAT. PLOT	NUMBER	TYPE	BLOWS/FT.		WATER CONTENT, PERCENT				
							Wp	Wn	WL		
200			21	AR		200					
105.0	Gray; SAND, some gravel.		22	AR							
195						195					
110.0	Gray; sandy GRAVEL.		23	AR							
						190					
			24	AR							
185						185					
1200	End of Hole at 1200 Ft.										

REMARKS.

VERTICAL SCALE
1 IN. TO 5 FT.

Golder Associates

JOB # 853-1003

Figure A-15

RECORD OF GAS PROBE 14

LOCATION See Figure
 DATUM 255 Ft. (approx.)
 SAMPLER HAMMER WEIGHT 140 LB., DROP 30 IN.

DATE 4-1-84
 BORING METHOD Air Rotary Drill

SOIL PROFILE		STRAIT. PLOT	SAMPLES		ELEVATION	STANDARD PENETRATION TEST		PIEZOMETER INSTALLATION
ELEV./DEPTH	DESCRIPTION		NUMBER	TYPE		BLOWS/FT.	WATER CONTENT, PERCENT	
255 0.0	Brown to brownish-gray; fine to medium SAND.		1	AR	255		Wp Wn WL	
			2	AR	250			
			3	AR	245			
			4	AR	240			
			5	AR	235			
			6	AR	230			
			7	AR	225			

REMARKS: AR - Air rotary drill

VERTICAL SCALE
 1 IN. TO 5' FT.

Golder Associates

JOB # 853-1003

Figure A-15

RECORD OF GAS PROBE 14

LOCATION See Figure
 DATUM 255 Ft. (approx.)
 SAMPLER HAMMER WEIGHT 140 LB., DROP 30 IN.

DATE 4-1-84
 BORING METHOD Air Rotary Drill

SOIL PROFILE		STRAIT. PLOT	SAMPLES		ELEVATION	STANDARD PENETRATION TEST		PIEZOMETER INSTALLATION
ELEV./DEPTH	DESCRIPTION		NUMBER	TYPE		BLOWS/FT.	WATER CONTENT, PERCENT	
210 450	Brown to brownish-gray; fine to medium SAND.		7	AR	220		Wp Wn WL	
			8	AR	215			
			9	AR	210			
	Brown; fine to medium SAND; trace silt to silty fine SAND.		10	AR	205			
			11	AR	200			
			12	AR	195			
191.5 63.5	Brown to gray; silty, fine to medium SAND, trace gravel.		13	AR	190			
			14	AR				

REMARKS:

VERTICAL SCALE
 1 IN. TO 5' FT.

Golder Associates

JOB # 853-1003

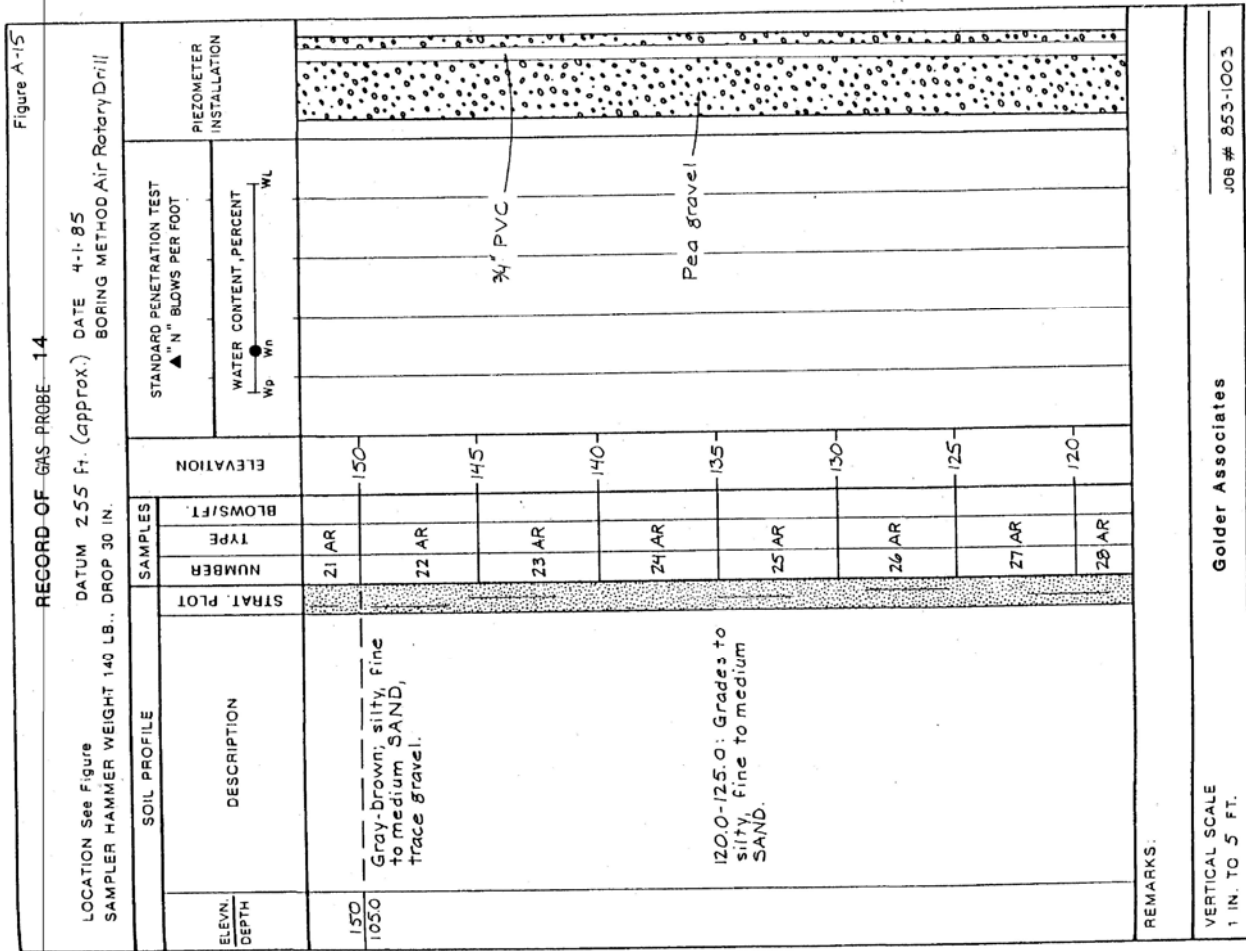
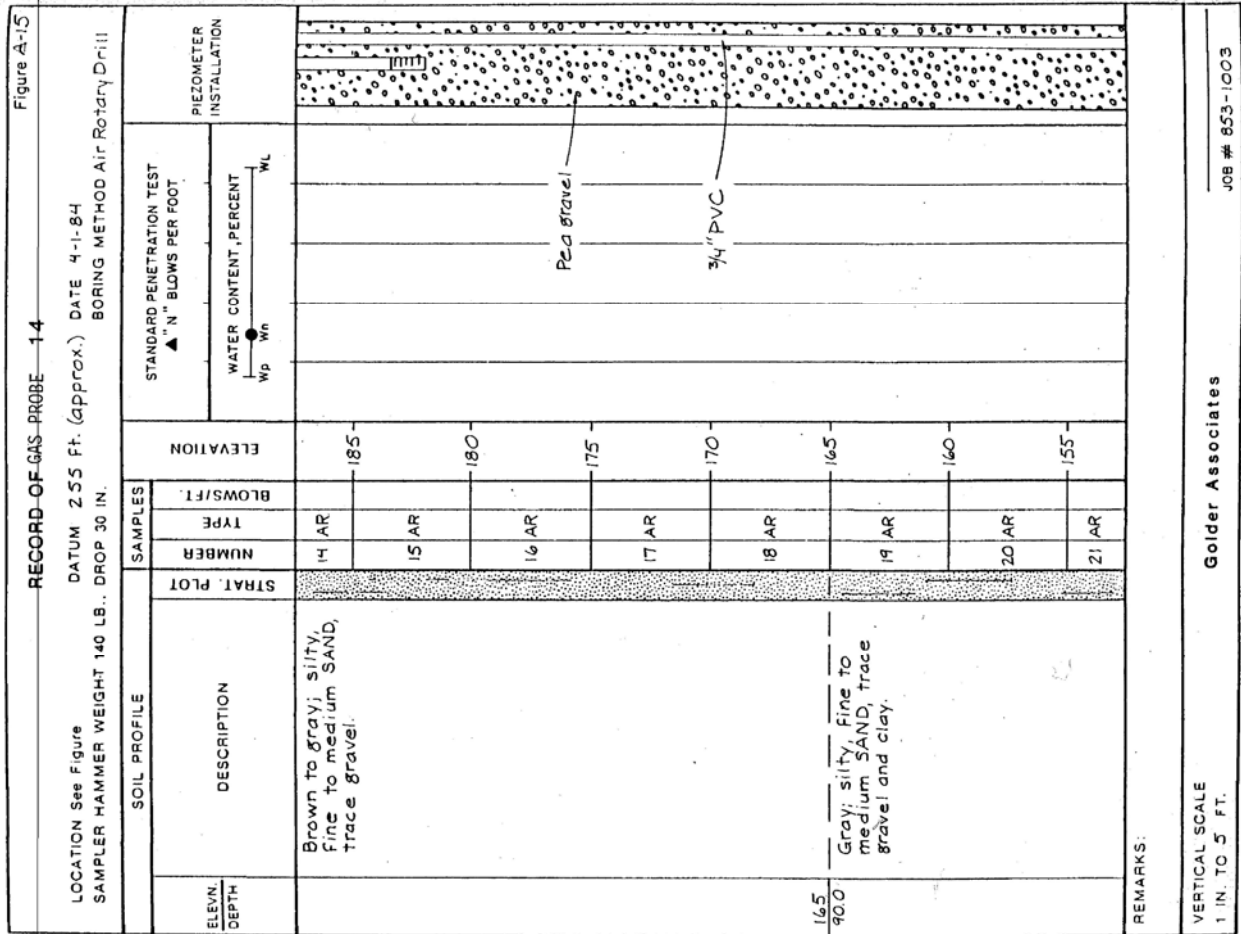


Figure A-15
RECORD OF GAS PROBE 14

LOCATION See Figure
DATUM 255 ft. (approx.) DATE 4-1-85
BORING METHOD Air Rotary Drill
SAMPLER HAMMER WEIGHT 140 LB., DROP 30 IN.

SOIL PROFILE		SAMPLES		ELEVATION	STANDARD PENETRATION TEST		PIEZOMETER INSTALLATION
ELEV. DEPTH	DESCRIPTION	NUMBER	TYPE		BLOWS/FT.	WATER CONTENT, PERCENT	
						Wp Wn WL	
	Gray-brown; silty, fine to medium SAND, trace gravel.	29 AR		115			
		30 AR		110			
		31 AR		105			
105							
150.0	Gray to brown; fine to medium SAND, some silt, trace gravel.	32 AR		100			
		33 AR		95			
90				90			
145.0	Brown; fine to medium SAND, trace silt.			85			

REMARKS:

VERTICAL SCALE
1 IN. TO 5' FT.

Golder Associates

JOB # 853-1003

Figure A-15
RECORD OF GAS PROBE 14

LOCATION See Figure
DATUM 255 ft. (approx.) DATE 4-1-85
BORING METHOD Air Rotary Drill
SAMPLER HAMMER WEIGHT 140 LB., DROP 30 IN.

SOIL PROFILE		SAMPLES		ELEVATION	STANDARD PENETRATION TEST		PIEZOMETER INSTALLATION
ELEV. DEPTH	DESCRIPTION	NUMBER	TYPE		BLOWS/FT.	WATER CONTENT, PERCENT	
						Wp Wn WL	
	Brown; fine to medium SAND, trace silt.			80			
75				75			
180.0	Brown; fine to medium SAND.			70			
70							
185.0	End of Hole at 185.0 ft.						

REMARKS:

VERTICAL SCALE
1 IN. TO 5' FT.

Golder Associates

JOB # 853-1003

RECORD OF GAS PROBE 15

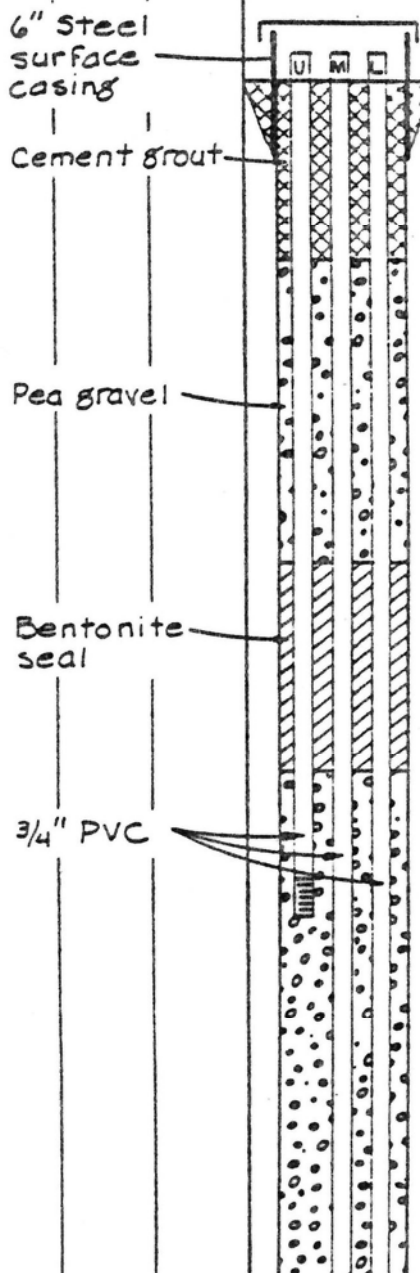
LOCATION See Figure

DATUM 270 ft. (approx.)

DATE 3-31-84

SAMPLER HAMMER WEIGHT 140 LB., DROP 30 IN.

BORING METHOD Air Rotary Drill

SOIL PROFILE			SAMPLES		ELEVATION	STANDARD PENETRATION TEST ▲ "N" BLOWS PER FOOT		PIEZOMETER INSTALLATION		
ELEV. DEPTH	DESCRIPTION	STRAT. PLOT	NUMBER	TYPE		BLOWS/FT	WATER CONTENT, PERCENT			
							Wp		Wn	WL
270 0.0	Light brown to brown; fine to medium SAND, trace silt.		1	AR	270					
					2	AR	265			
					3	AR	260			
					4	AR	255			
252 18.0	Light brown to brown; medium SAND, some gravel.		5	AR	250					
					6	AR	245			
245 25.0	Light brown to brown; medium to coarse SAND and fine to medium GRAVEL to medium to coarse SAND, some gravel.		7	AR	240					

6" Steel
surface
casing

Cement grout

Pea gravel

Bentonite
seal

3/4" PVC

REMARKS: AR—Air rotary drill.

VERTICAL SCALE
1 IN. TO 5 FT.

Golder Associates

JOB # 053-1003

RECORD OF GAS PROBE 15

LOCATION See Figure

DATUM 270 Ft. (approx.)

DATE 3-31-84

SAMPLER HAMMER WEIGHT 140 LB., DROP 30 IN.

BORING METHOD Air Rotary Drill

SOIL PROFILE			SAMPLES		ELEVATION	STANDARD PENETRATION TEST ▲ "N" BLOWS PER FOOT			PIEZOMETER INSTALLATION	
ELEV. DEPTH	DESCRIPTION	STRAT. PLOT	NUMBER	TYPE		BLOWS/FT.	WATER CONTENT, PERCENT			
							Wp	Wn		WL
			7	AR						
					235					
	38.0-40.0: Grades to coarse SAND, some gravel.		8	AR						
230					230				Pea gravel	
40.0	Light brown to brown to gray; very fine SAND, some silt.		9	AR						
					225				Bentonite seal	
225					225					
45.0	Brown; fine to coarse GRAVEL and SAND.		10	AR						
					220					
			11	AR						
					215					
215					215					
55.0	Gray to brown; fine to medium GRAVEL, trace silty clay to clayey silt, Fine sand.		12	AR						
					210					
			13	AR						
					205					
			14	AR						

Pea gravel

Bentonite seal

3/4" PVC

REMARKS:

VERTICAL SCALE
1 IN. TO 5 FT.

Golder Associates

JOB # 853-1003

RECORD OF GAS PROBE 15

LOCATION See Figure

DATUM 270 Ft. (approx.)

DATE 3-31-85

SAMPLER HAMMER WEIGHT 140 LB., DROP 30 IN.

BORING METHOD Air Rotary Drill

SOIL PROFILE			SAMPLES		ELEVATION	STANDARD PENETRATION TEST ▲ "N" BLOWS PER FOOT				PIEZOMETER INSTALLATION
ELEV DEPTH	DESCRIPTION	STRAT. PLOT	NUMBER	TYPE		WATER CONTENT, PERCENT				
						Wp	Wn	WL		
200 70.0	Gray; clayey SILT, trace to some gravel.		14	AR	200					
			15	AR	195					
			16	AR	190					
			17	AR	185					
			18	AR	180					
			19	AR	175					
			20	AR	170					
170 100.0	Gray; SILT, trace fine sand, clay.		21	AR	170					

Pea gravel

3/4" PVC

REMARKS.

VERTICAL SCALE
1 IN TO 5 FT.

Golder Associates

JOB # 853-1003

RECORD OF GAS PROBE 15

LOCATION See Figure

DATUM 270 Ft. (approx.) DATE 3-31-84

SAMPLER HAMMER WEIGHT 140 LB., DROP 30 IN.

BORING METHOD Air Rotary Drill

SOIL PROFILE			SAMPLES			STANDARD PENETRATION TEST ▲ "N" BLOWS PER FOOT				PIEZOMETER INSTALLATION
ELEV. DEPTH	DESCRIPTION	STRAT. PLOT	NUMBER	TYPE	BLOWS/FT.	ELEVATION	WATER CONTENT, PERCENT			
							Wp	Wn	WL	
	Gray; SILT, trace fine sand, clay.		21	AR		165				
			22	AR		160				
			23	AR		155				
			24	AR		150				
			25	AR		145				
145	Gray to brownish-black; silty SAND to sandy SILT.		26	AR		140				
125.0			27	AR		135				
			28	AR						

3/4" PVC

Pea gravel

REMARKS:

VERTICAL SCALE
1 IN. TO 5 FT.

Golder Associates

JOB # 853-1003

RECORD OF GAS PROBE 15

Figure A-16

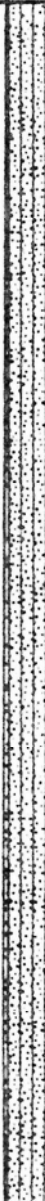
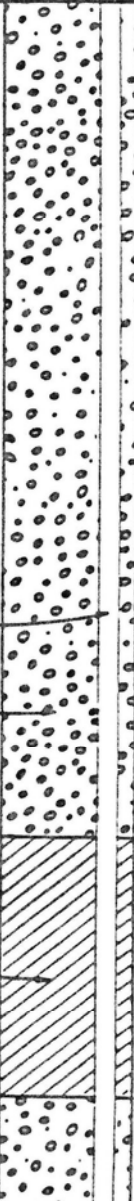
LOCATION See Figure

DATUM 270 Ft. (approx.)

DATE 3-31-84

SAMPLER HAMMER WEIGHT 140 LB., DROP 30 IN.

BORING METHOD Air Rotary Drill

SOIL PROFILE			SAMPLES			STANDARD PENETRATION TEST ▲ "N" BLOWS PER FOOT				PIEZOMETER INSTALLATION	
ELEV. DEPTH	DESCRIPTION	STRAT. PLOT	NUMBER	TYPE	BLOWS/FT	ELEVATION	WATER CONTENT, PERCENT				
							Wp	Wn	WL		
100 170.0	Gray to brownish-black; silty SAND to sandy SILT.		28	AR		130					
			29	AR		125					
			30	AR		120					
			31	AR		115					
			32	AR		110					
			33	AR		105					
			34	AR		100					
			35	AR							

3/4" PVC

Pea gravel

Bentonite
seal

REMARKS.

VERTICAL SCALE
1 IN. TO 5 FT.

Golder Associates

JOB # 853-1003

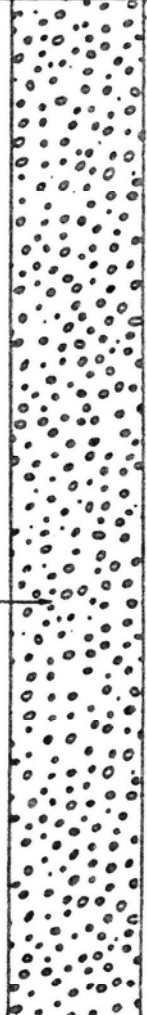
RECORD OF GAS PROBE 15

LOCATION See Figure

DATUM 270 Ft. (approx.) DATE 3-31-84

SAMPLER HAMMER WEIGHT 140 LB., DROP 30 IN.

BORING METHOD Air Rotary Drill

SOIL PROFILE			SAMPLES			ELEVATION	STANDARD PENETRATION TEST ▲ "N" BLOWS PER FOOT		PIEZOMETER INSTALLATION
ELEV. DEPTH	DESCRIPTION	STRAT. PLOT	NUMBER	TYPE	BLOWS/FT.		WATER CONTENT, PERCENT Wp Wn WL		
	Brownish-black; fine to medium SAND, trace to some silt.		35	AR		95			
			36	AR		90			
			37	AR		85			
			38	AR		80			
			39	AR		75			
			40	AR					
70									
200.0	End of Hole at 200.0 ft.								

Pea gravel

REMARKS:

VERTICAL SCALE
1 IN TO 5 FT.

Golder Associates

JOB # 853-1003

RECORD OF GAS PROBE 16

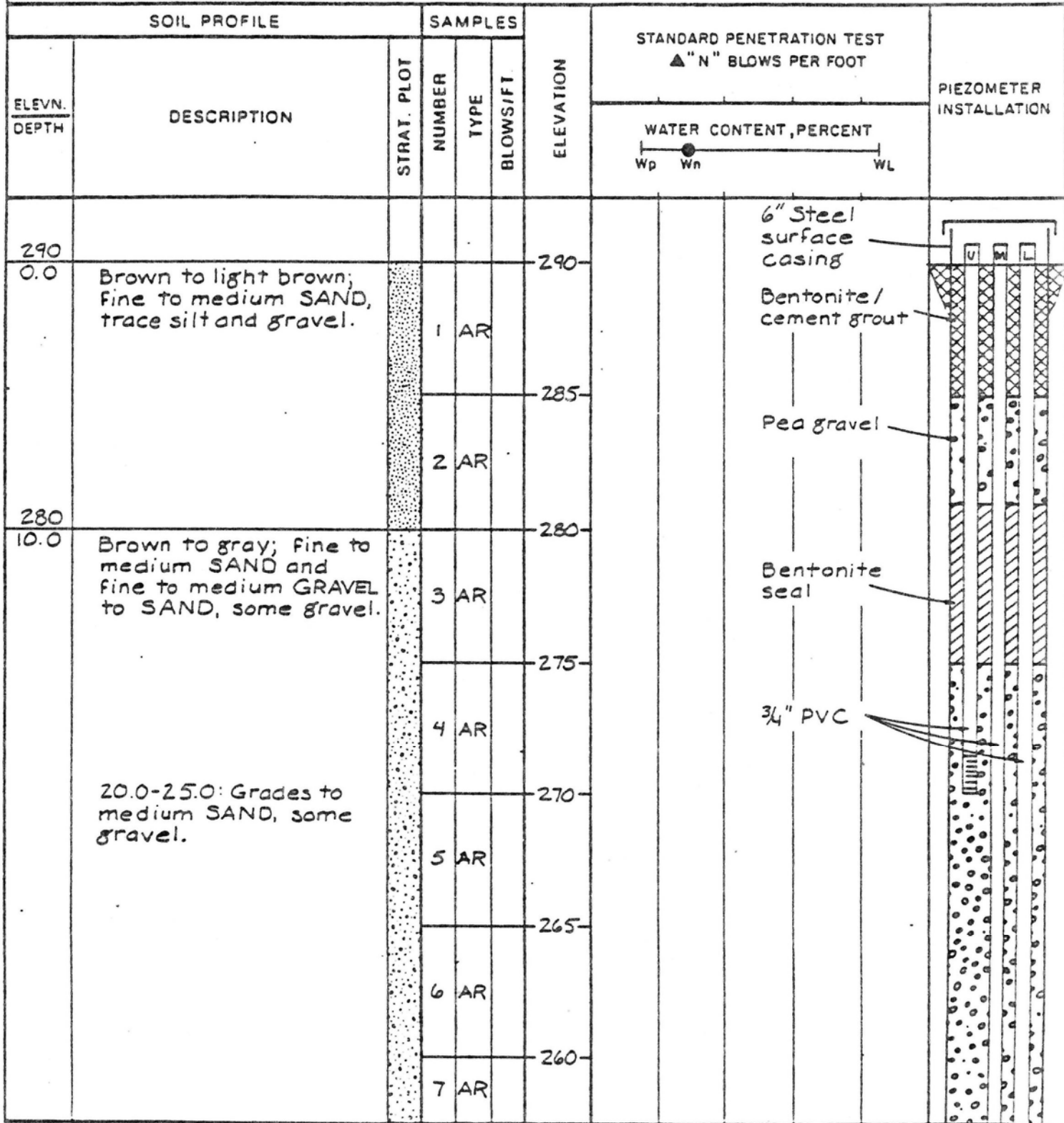
LOCATION See Figure

DATUM 290 Ft. (approx.)

DATE 4-6-84

SAMPLER HAMMER WEIGHT 140 LB., DROP 30 IN.

BORING METHOD Air Rotary Drill



REMARKS. AR - Air rotary drill.

VERTICAL SCALE
1 IN. TO 5 FT.

Golder Associates

JOB # 853-1003

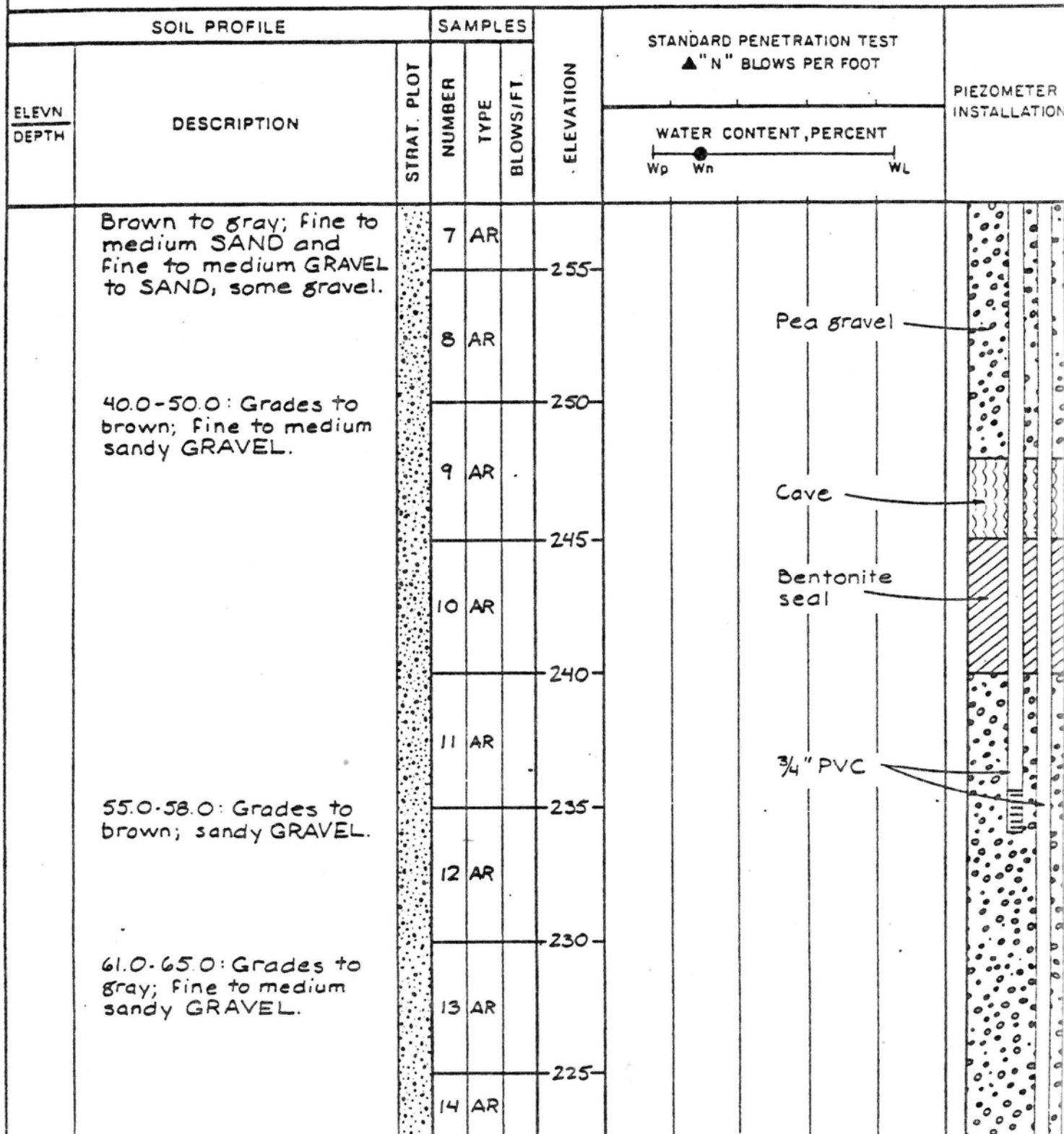
RECORD OF GAS PROBE 16

LOCATION See Figure

DATUM 290 Ft. (approx.) DATE 4-6-84

SAMPLER HAMMER WEIGHT 140 LB.. DROP 30 IN.

BORING METHOD Air Rotary Drill



REMARKS.

VERTICAL SCALE
1 IN. TO 5 FT.

Golder Associates

JOB # 853-1003

RECORD OF GAS PROBE 16

Figure A-17

LOCATION See Figure

DATUM 290 ft. (approx.)

DATE 4-6-84

SAMPLER HAMMER WEIGHT 140 LB., DROP 30 IN.

BORING METHOD Air Rotary Drill

SOIL PROFILE			SAMPLES			ELEVATION	STANDARD PENETRATION TEST ▲ "N" BLOWS PER FOOT				PIEZOMETER INSTALLATION
ELEV DEPTH	DESCRIPTION	STRAT. PLOT	NUMBER	TYPE	BLOWS/FT.		WATER CONTENT, PERCENT				
							W _p	W _n		W _L	
216	Brown to gray; fine to medium SAND and fine to medium GRAVEL to SAND, some gravel.		14	AR		220					
74.0			15	AR							
213	Gray; silty SAND and GRAVEL.					215					
77.0			16	AR							
210	Gray; sandy SILT, trace clay.					210					
80.0			17	AR							
	80.0-85.0: Grades to some gravel.					205					
			18	AR							
						200					
			19	AR							
						195					
			20	AR							
						190					
			21	AR							
	100.0-105.0: Grades to SILT, no clay.										

REMARKS.

VERTICAL SCALE
1 IN. TO 5 FT.

Golder Associates

JOB # 853-1003

RECORD OF GAS PROBE 16

LOCATION See Figure

DATUM 290 Ft. (approx.)

DATE 4-6-84

SAMPLER HAMMER WEIGHT 140 LB., DROP 30 IN.

BORING METHOD Air Rotary Drill

SOIL PROFILE			SAMPLES			STANDARD PENETRATION TEST ▲ "N" BLOWS PER FOOT			PIEZOMETER INSTALLATION	
ELEV. DEPTH	DESCRIPTION	STRAT. PLOT	NUMBER	TYPE	BLOWS/FT.	ELEVATION	WATER CONTENT, PERCENT			
							Wp	Wn		WL
	Gray; SILT, some clay. 105.0-110.0: Grades to some clay and sand.		21	AR		185				
			22	AR		180				Bentonite seal
	110.0-115.0: Grades to SILT.		23	AR		175				
	115.0-120.0: Grades to some clay and sand.		24	AR		170				
	120.0-125.0: Grades to trace gravel.		25	AR		165				
165										
125.0	Gray; SILT, some gravel and sand.		26	AR		160				
			27	AR		155				
			28	AR						

Bentonite
seal

3/4" PVC

Pea gravel

REMARKS:

VERTICAL SCALE
1 IN. TO 5 FT.

Golder Associates

JOB # 853-1003

RECORD OF GAS PROBE 16

LOCATION See Figure

DATUM 290 ft. (approx.)

DATE 4-6-84

SAMPLER HAMMER WEIGHT 140 LB., DROP 30 IN.

BORING METHOD Air Rotary Drill

SOIL PROFILE			SAMPLES		ELEVATION	STANDARD PENETRATION TEST ▲ "N" BLOWS PER FOOT					PIEZOMETER INSTALLATION	
ELEVN. DEPTH	DESCRIPTION	STRAT. PLOT	NUMBER	TYPE		BLOWS/FT.	WATER CONTENT, PERCENT					
							Wp	Wn	WL			
	Gray; SILT, some gravel and sand.		28	AR								
					150							
			29	AR								
145					145							
145.0	Gray; SILT.		30	AR								
	150.0-155.0: Grades to some sand.				140							
			31	AR								
	155.0-160.0: Grades to sandy SILT.				135							
			32	AR								
130					130							
160.0	End of Hole at 160.0 ft.											

Pea gravel

REMARKS.

VERTICAL SCALE
1 IN TO 5 FT.

Golder Associates

JOB # 853-1003

BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER	555-1550-037	BORING/WELL NUMBER	KGP-16A-S
PROJECT NAME	City of Seattle	DATE COMPLETED	September 1, 1999
LOCATION	Kent Highlands Landfill	TOTAL DEPTH OF BORING	25.0
COORDINATES		INITIAL WATER LEVEL	▽
DRILLING METHOD	8-1/2" OD Hollow Stem Auger	STATIC WATER LEVEL	▼
SAMPLING METHOD	None	LOGGED BY	T. Hanberg
GROUND ELEVATION	Approximately 278 ft	TOP OF CASING ELEVATION	

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft.)	U.S.C.S.	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH (ft.)	WELL DIAGRAM
								Note: See soil profile for KGP-16A-D for classification of soil zones.		
					10					Concrete (0-3 ft bgs)
										Bentonite chips (3-17 ft bgs)
					20					3/4" schedule 40 PVC riser flush threaded (0-18 ft bgs)
										3/8" Pea gravel (17-25 ft bgs)
					30					3/4" - 0.040 slot schedule 40 PVC screen (18-23 ft bgs)
								Total Depth = 25 ft		

BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 555-1550-037 BORING/WELL NUMBER KGP-16A-M
 PROJECT NAME City of Seattle DATE COMPLETED September 1, 1999
 LOCATION Kent Highlands Landfill TOTAL DEPTH OF BORING 51.0
 COORDINATES _____ INITIAL WATER LEVEL ▽
 DRILLING METHOD 8-1/2" OD Hollow Stem Auger STATIC WATER LEVEL ▽
 SAMPLING METHOD 2-1/2" Split Spoon LOGGED BY T. Hanberg
 GROUND ELEVATION Approximately 278 ft TOP OF CASING ELEVATION _____

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft.)	U.S.C.S.	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH (ft.)	WELL DIAGRAM
						ML		Grass at surface		
	101	12	SS	⊗				Silt (ML); brown (10YR 5/4); laminated in part; slightly damp; hard		Concrete (0-4 ft bgs)
								At 8 ft: Rough drilling, possible gravel zone		
0	100	12	SS	⊗	10			At 10 ft: Fine to coarse gravel	10	Bentonite chips (4-38 ft bgs)
								Easier drilling after 13 ft		
	90	12	SS	⊗		SM		Silty sand (SM); mottled red (2.5YR 4/6) and gray (2.5 Y 5/2); slightly plastic fines; medium grained; fine gravel; slightly damp; very dense; silt clasts		
0	90	12	SS	⊗	20			At 20 ft: Gray (10YR 4/1); decreasing red staining; slightly plastic; trace fine gravel; staining vertically oriented	20	3/4" schedule 40 PVC riser flush threaded (0-40 ft bgs)
0	76	10	SS	⊗		ML		Silt (ML); gray (2.5Y 5/2); low plasticity; trace fine gravel; slightly damp; hard		
	100	12	SS	⊗	30	SM		Silty sand (SM); brown/gray (10 YR 4/2); low plasticity; trace fine gravel; rounded; slightly damp; very hard	30	

Continued Next Page

BORING/WELL CONSTRUCTION LOG

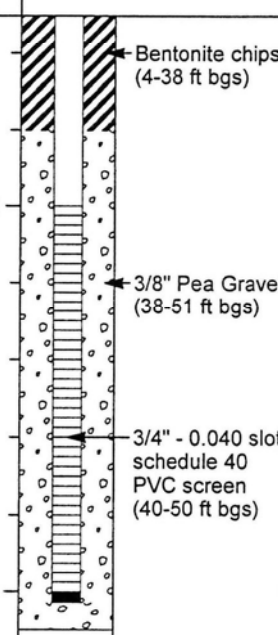
PROJECT NUMBER 555-1550-037

BORING/WELL NUMBER KGP-16A-M

PROJECT NAME City of Seattle

DATE COMPLETED September 1, 1999

continued from previous page

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft.)	U.S.C.S.	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH (ft.)	WELL DIAGRAM
	85	12	SS	X				At 35 ft: Gray (2.5Y 5/3); occasional brown/red horizontal staining		
0	100	12	SS	X	40			At 40 ft: Gray/brown (2.5Y 4/2); trace rounded fine gravel	40	
	100	12	SS	X						
0	85	12	SS	X	50			At 50 ft: Decrease in silt; increase in gravel; slightly moist	50	
Total Depth = 51 ft										
					60				60	
					70				70	

Parametrix, Inc.

BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 555-1550-037 BORING/WELL NUMBER KGP-16A-D
 PROJECT NAME City of Seattle DATE COMPLETED September 1, 1999
 LOCATION Kent Highlands Landfill TOTAL DEPTH OF BORING 151.0
 COORDINATES _____ INITIAL WATER LEVEL ▽
 DRILLING METHOD 8-1/2" OD Hollow Stem Auger STATIC WATER LEVEL ▽
 SAMPLING METHOD 2-1/2" Split Spoon LOGGED BY T. Hanberg
 GROUND ELEVATION Approximately 278 ft TOP OF CASING ELEVATION _____

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft.)	U.S.C.S.	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH (ft.)	WELL DIAGRAM
						SM		Grass at surface		
	66	12	SS	X				Silty sand (SM); light brown (2.5Y 4/2); nonplastic fines; fine grained; slightly damp; very dense		Cement (0-3 ft bgs)
	60	12	SS	X	10				10	Bentonite chips (3-20 ft bgs)
0	80	12	SS	X				At 15 ft: Brown (10 YR 4/4); trace fine to coarse gravel		3/4" schedule 40 PVC riser flush threaded (0-96 ft bgs)
	70	12	SS	X	20			At 20 ft: Light gray-brown (2.5 Y 5/2), trace fine gravel	20	
0	30	12	SS	X						Bentonite grout (20-84 ft bgs)
	90	10	SS	X	30	SW		Well graded sand with gravel (SW); olive brown (2.5Y 4/2); fine to coarse grained; fine to coarse gravel; slightly moist; very dense	30	

Continued Next Page

BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 555-1550-037

BORING/WELL NUMBER KGP-16A-D

PROJECT NAME City of Seattle

DATE COMPLETED September 1, 1999

continued from previous page

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft.)	U.S.C.S.	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH (ft.)	WELL DIAGRAM
	95	12	SS					At 35 ft: Olive gray (5Y 5/2)		
	100	12	SS		40			At 40 ft: Olive brown (2.5Y 4/2); trace fine gravel	40	
			SS			SP SC		Poorly graded sand with clay and gravel (SP-SC); dark olive (5Y 4/2); low plasticity fines; coarse grained; fine to coarse gravel; very moist		Bentonite grout (20-84 ft bgs)
		9	SS		50	SP SM		Poorly graded sand with silt and gravel (SP-SM); olive gray (5Y 4/1); low plasticity fines; medium grained; fine to coarse gravel; moist	50	3/4" schedule 40 PVC riser flush threaded (0-96 ft bgs)
	75	9	SS			SP		Poorly graded sand with silt (SP); olive gray (5 Y 4/1); medium grained; fine to coarse gravel; very dense		
								At 57 ft: First encountered water at time of drilling (9-1-99)		
	75	10	SS		60	SW		Well-graded sand (SW); olive gray (5Y 4/1); non plastic fines; fine to coarse grained; very moist/wet	60	
								At 62 ft: Wet		
	60	10	SS			SP		Poorly graded sand with gravel (SP); olive gray (5Y 4/1); coarse grained; fine to coarse gravel; wet		
	65	12	SS		70			At 70 ft: Medium to coarse grained	70	
						CL		At ~73 ft: Easier drilling		
								Silty clay (CL); olive gray (5Y 4/1); plastic; hard		

Continued Next Page

BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 555-1550-037

BORING/WELL NUMBER KGP-16A-D

PROJECT NAME City of Seattle

DATE COMPLETED September 1, 1999

continued from previous page

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft.)	U.S.C.S.	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH (ft.)	WELL DIAGRAM
0	70	10	SS	X						
	55	12	SS	X	80				80	
	50	12	SS	X				At 85 ft: Trace fine to coarse gravel		
	70/2	1	SS	X	90				90	Bentonite chips (84-94 ft bgs)
	70/2	1	SS	X				At 95 ft: Sampler blocked with piece of coarse gravel		
	75/2	1	SS	X	100				100	3/8" Pea gravel (94-151 ft bgs)
	80	12	SS	X						
	90	12	SS	X	110	SP		Poorly graded sand (SP); olive brown (5Y 3/1); low plasticity fines; fine to medium grained; moist; very dense	110	3/4" schedule 40 PVC 0.040 slot screen (96-136 ft bgs)

Continued Next Page

BORING/WELL CONSTRUCTION LOG

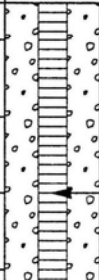
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BORING/WELL NUMBER KGP-16A-D

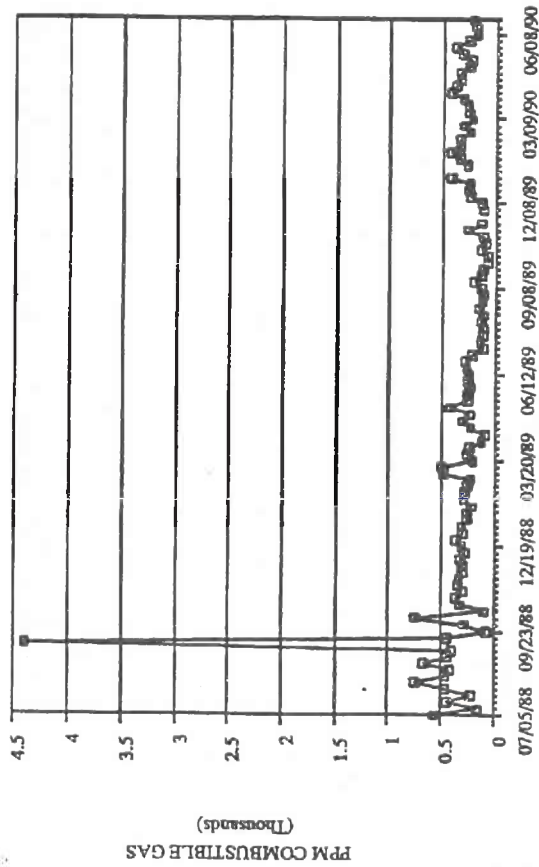
PROJECT NAME City of Seattle

DATE COMPLETED September 1, 1999

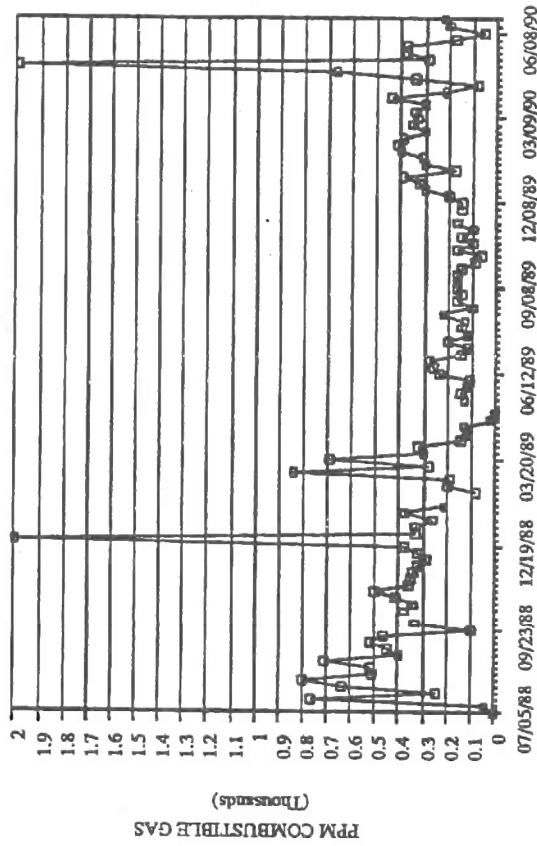
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PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft.)	U.S.C.S.	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH (ft.)	WELL DIAGRAM
	55	12	SS	X		CL		Silty clay (CL); light olive gray (5Y 4/1); low plasticity; damp/moist; hard		
	100	12	SS	X	120			At 120 ft: Trace sand	120	
	100	12	SS	X						
	100	12	SS	X	130	SP		Poorly graded sand (SP); dark gray (2.5Y 4/0); low plasticity; medium grained; damp; very dense	130	
	100	9	SS	X				At 135 ft: Very dark gray (2.5Y 3/0); increased grain size		
	85	9	SS	X	140	SM		Silty sand (SM); dark gray (2.5Y 4/0); low plasticity; fine grained; damp; very dense	140	
	100	3	SS	X						
	100	3	SS	X	150	ML		Silt with sand (ML); dark gray (2.5Y 4/0); nonplastic fines; fine grained; wet; hard	150	
								Total Depth = 151 ft		

KGP-32U



KGP-32M



KGP-32L

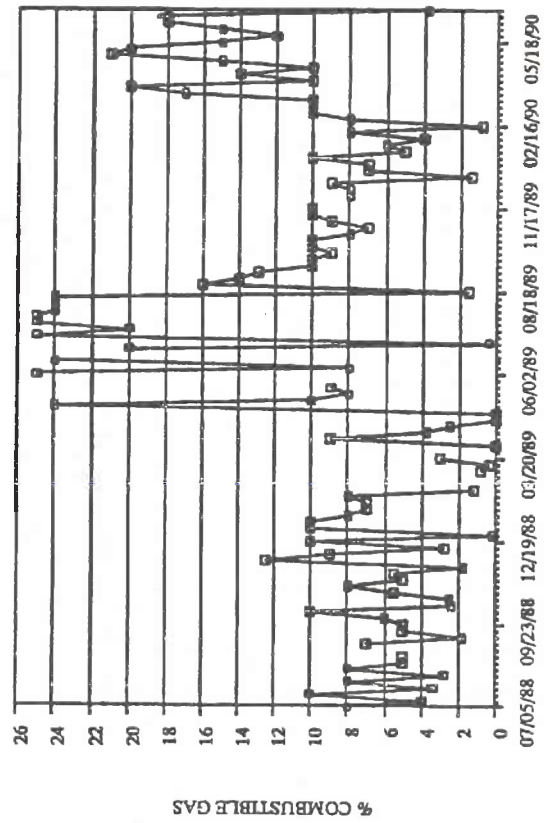


Figure S-25
Combustible Gas Concentration Plots

RESOURCE PROTECTION WELL REPORT

CURRENT
Notice of Intent No. R66373

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

Construction/Decommission ("x" in circle) 228th St. Corridor 2004
☒ Construction Graded & Fill
☐ Decommission ORIGINAL INSTALLATION Notice Project
of Intent Number _____

Type of Well ("x" in circle)
☒ Resource Protection
☐ Geotech Soil Boring

Consulting Firm Scarsella Bros.
Unique Ecology Well ID _____
Tag No: ALB 463

Property Owner City of Kent Public Works
Site Address S. 228th St & Frager Rd.
City Kent County: King
Location SE 1/4 NE 1/4 Sec 5 Twn 22N R 4E WWM circle or one WWM

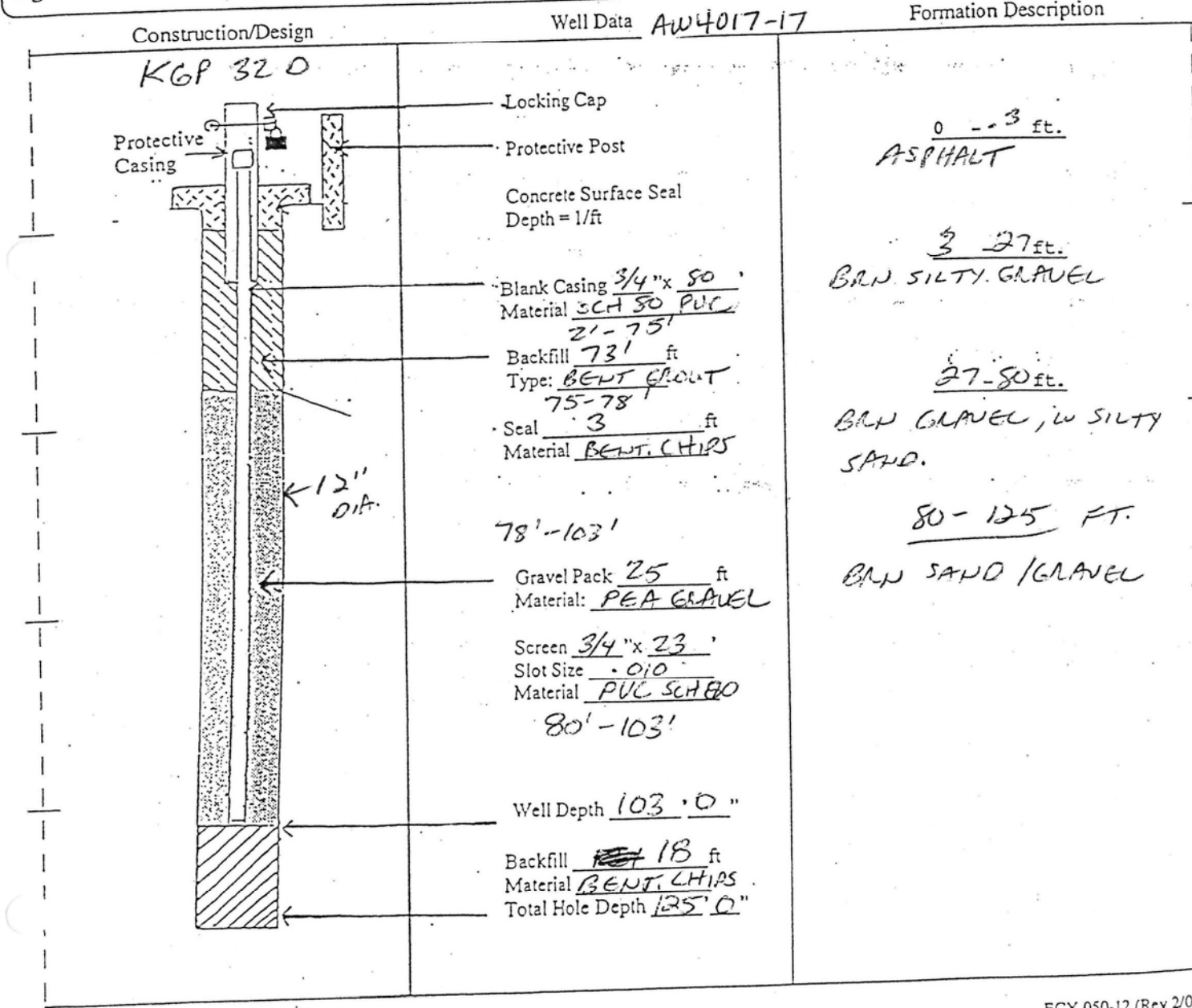
WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

Lat/Long (s, t, r still REQUIRED) Lat Deg n Lat Min/Sec 1a
Long Deg n Long Min/Sec 1a

☒ Driller ☐ Engineer ☐ Trainee Name (Print) Ed Kostecky or Todd Mecham
Driller/Engineer/Trainee Signature Ed Kostecky
Driller or Trainee License No. Kostecky #2490 Mecham #2555

Tax Parcel No. 1a
Cased or Uncased Diameter 12" Static Level 91'
Work/Decommission Start Date 7-1-01
Work/Decommission Completed Date 7-2-04

If trainee, licensed driller's Signature and License no. _____



RESOURCE PROTECTION WELL REPORT

CURRENT

Notice of Intent No. R66373

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

Construction/Decommission ("x" in circle) 228th St. Corridor 2004

☒ Construction

Graded & Filled

☐ Decommission ORIGINAL INSTALLATION Notice Project

of Intent Number _____

Consulting Firm Scarsella Bros.

Unique Ecology Well ID

Tag No: ALB 464

WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

☒ Driller ☐ Engineer ☐ Trainee Name (Print) Ed Kostecky or Todd Mecham

Driller/Engineer/Trainee Signature [Signature]

Driller or Trainee License No. Kostecky #2490 Mecham #2555

If trainee, licensed driller's

Signature and License no. _____

Type of Well ("x" in circle)

☒ Resource Protection

☐ Geotech Soil Boring

Property Owner City of Kent Public Works

Site Address S. 228th St & Frager Rd.

City Kent County: King

Location SE 1/4 NE 1/4 Sec 5 Twn 22N R 4E WWM circle or one WWM

Lat/Long (s, t, r still REQUIRED) Lat Deg 46 Lat Min/Sec 12 Long Deg 122 Long Min/Sec 42

Tax Parcel No. 12

Cased or Uncased Diameter 12" Static Level 37'

Work/Decommission Start Date 6-29-04

Work/Decommission Completed Date 6-30-04

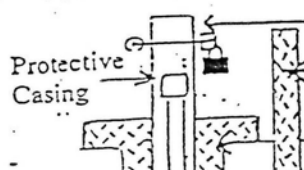
Construction/Design

Well Data

AW4017-17

Formation Description

ALB 464



Locking Cap

Protective Post

Concrete Surface Seal
Depth = 1/ft

Blank Casing 3/4" x 55'
Material SCH 80 PVL

Backfill 48' ft
Type: BENT CLONT

Seal 3' ft
Material BENT CHIPS
54-51'

54'-75'
Gravel Pack 21' ft
Material: PEA GRAVEL

Screen 3/4" x 20'
Slot Size .010
Material SCH 80 PVL
55'-75'

Well Depth 75' 0"

Backfill 5' ft
Material SAND/BENT CHIPS
Total Hole Depth 80' 0"

0 - 3 ft.
ASPHALT

3 - 27 ft.
BLK SILTY GRAVEL

27 - 80 ft.
BLK GRAVEL / SILTY SAND

RESOURCE PROTECTION WELL REPORT

CURRENT
Notice of Intent No. R66373

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

Construction/Decommission ("x" in circle) 228th St. Corridor 2004
☒ Construction Graded Fill
☐ Decommission ORIGINAL INSTALLATION Notice Project
of Intent Number _____

Type of Well ("x" in circle)
☒ Resource Protection
☐ Geotech Soil Boring

Consulting Firm Scarsella Bros.
Unique Ecology Well ID _____
Tag No: ALB 465

Property Owner City of Kent Public Works
Site Address S. 228th St & Frager Rd.
City Kent County: King
Location SE 1/4 NE 1/4 Sec 5 Twn 22N R 4E EWM circle or one WWM

WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.
Ed Kostelecky or Todd Mecham
☒ Driller ☐ Engineer ☐ Trainee Name (Print) _____
Driller/Engineer/Trainee Signature Ed Kostelecky
Driller or Trainee License No. Kostelecky #2490 Mecham #2555

Lat/Long (s, t, r) still REQUIRED) Lat Deg 42 Lat Min/Sec 12
Long Deg 12 Long Min/Sec 12
Tax Parcel No. 12
Cased or Uncased Diameter 12" Static Level 37'
Work/Decommission Start Date 6-28-04
Work/Decommission Completed Date 6-29-04

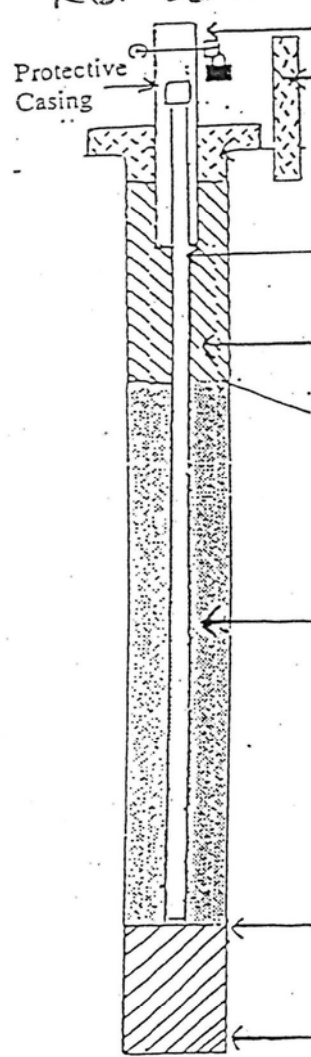
If trainee, licensed driller's
Signature and License no. _____

Construction/Design

Well Data

Formation Description

KCP-32.m



Locking Cap
Protective Post
Concrete Surface Seal
Depth = 1/ft
Blank Casing 3/4" x 18'
Material SCH 80 PVC
Backfill _____ ft
Type: _____
Seal 2-16'
14' ft
Material BENT CHIPS
43-16'
Gravel Pack 27' ft
Material: PEA GRAVEL
Screen 3/4" x 25'
Slot Size 0.10
Material SCH 80 PVC
Well Depth 43' 0"
Backfill 1 ft
Material SAND
Total Hole Depth 44' 0"

0 - 13 ft.
ASPHALT

13 - 27 ft.
BAN. SILTY GRAVEL

27 - 44 ft.
BAN GRAVEL & SILTY SAND

RESOURCE PROTECTION WELL REPORT

CURRENT

Notice of Intent No. R66373

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

Construction/Decommission ("x" in circle) 228th St. Corridor 2004

☒ Construction

☐ Decommission ORIGINAL INSTALLATION Notice Project

of Intent Number _____

Consulting Firm Scarsella Bros.

Unique Ecology Well ID

Tag No: ALB 466

WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

☒ Driller ☐ Engineer ☐ Trainee Name (Print) Ed Kostecky or Todd Mecham

Driller/Engineer/Trainee Signature Ed Kostecky

Driller or Trainee License No. Kostecky #2490 Mecham #2555

If trainee, licensed driller's

Signature and License no. _____

Type of Well ("x" in circle)

☒ Resource Protection

☐ Geotech Soil Boring

Property Owner City of Kent Public Works

Site Address S. 228th St & Frager Rd.

City Kent County: King

Location SE 1/4 NE 1/4 Sec 5 Twn 22N R 4E WWM circle or one WWM

Lat/Long (s, t, r) Lat Deg 47 Lat Min/Sec 1

still REQUIRED) Long Deg 12 Long Min/Sec 12

Tax Parcel No. 11a

Cased or Uncased Diameter 12" Static Level 191

Work/Decommission Start Date 6-28-04

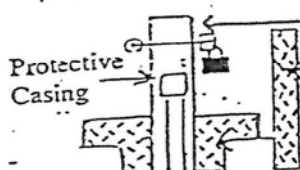
Work/Decommission Completed Date 6-28-04

Construction/Design

Well Data AW4017-17

Formation Description

KCP 328



Locking Cap

Protective Post

Concrete Surface Seal
Depth = 1/ft

Blank Casing 1/2" x 5'
Material SCH 80 PUC

Backfill _____ ft
Type: _____

Seal 2-4' 2 ft
Material BENT CHIPS

4'-20'
Gravel Pack 16' ft
Material: PEA GRAVEL

Screen 1/2" x 15'
Slot Size 10/10
Material SCH 80 PUC

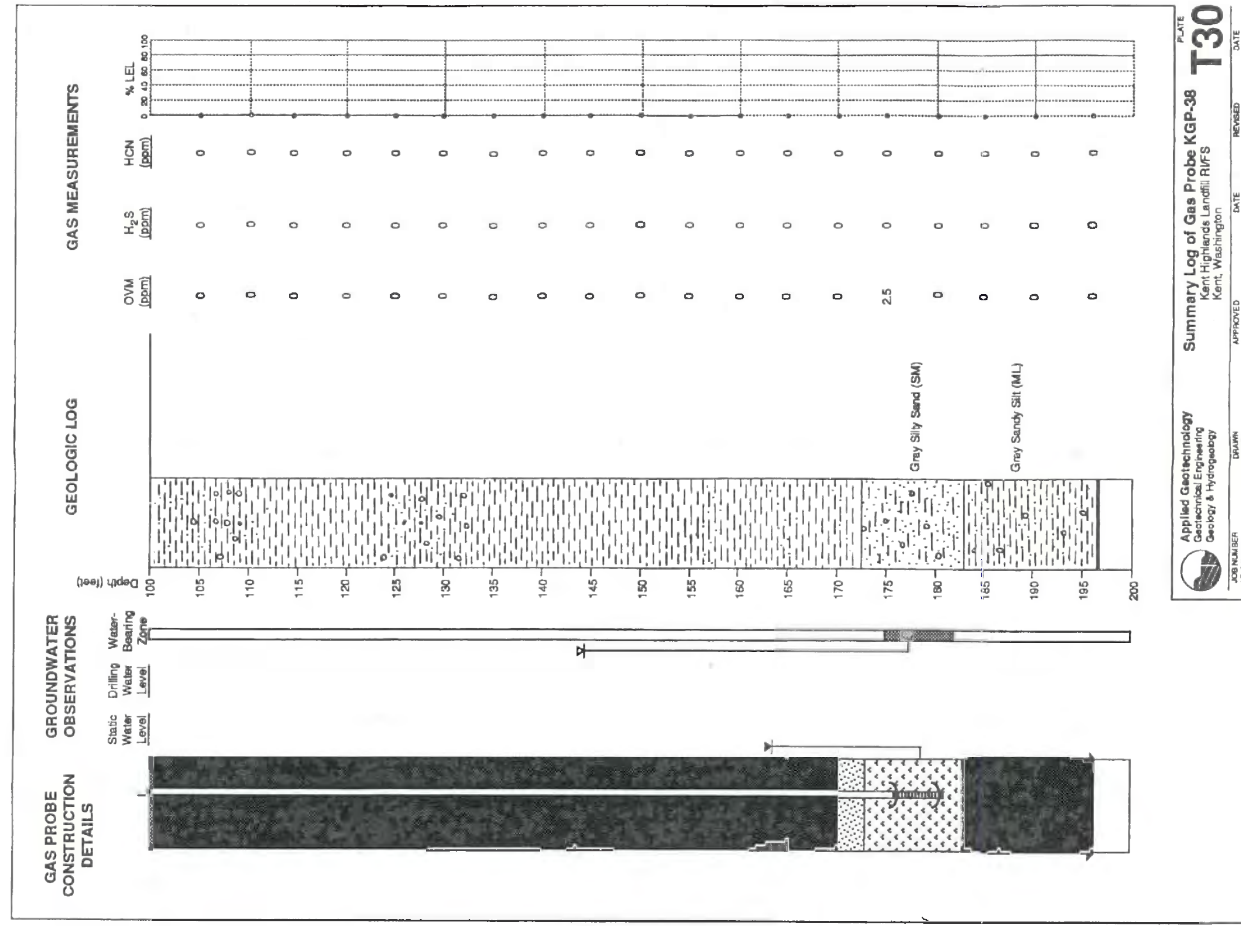
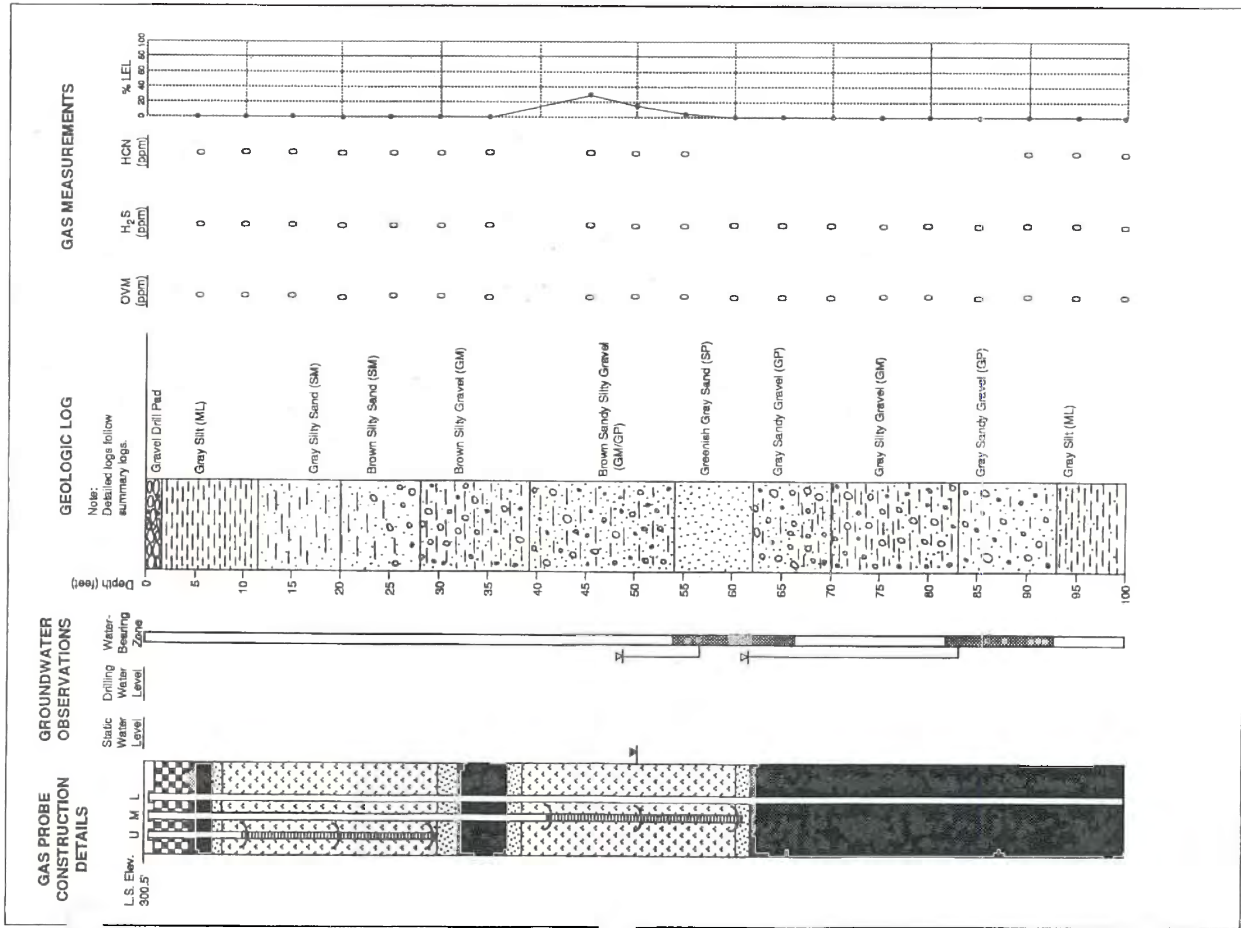
Well Depth 20.0"

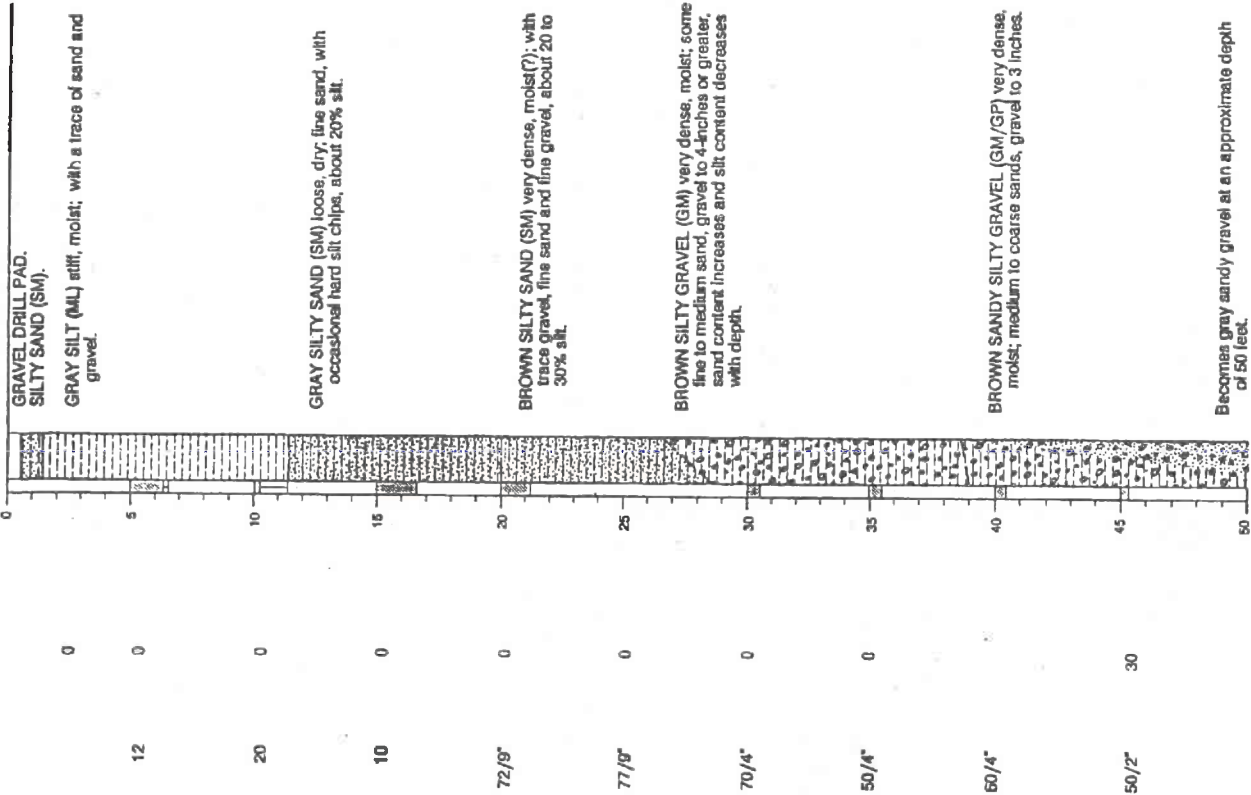
Backfill 20' ft
Material BENT CHIPS
Total Hole Depth 40.0"

0 - 13 ft.
ASPHALT

13 - 20 ft.
BAN SILTY GRAVEL

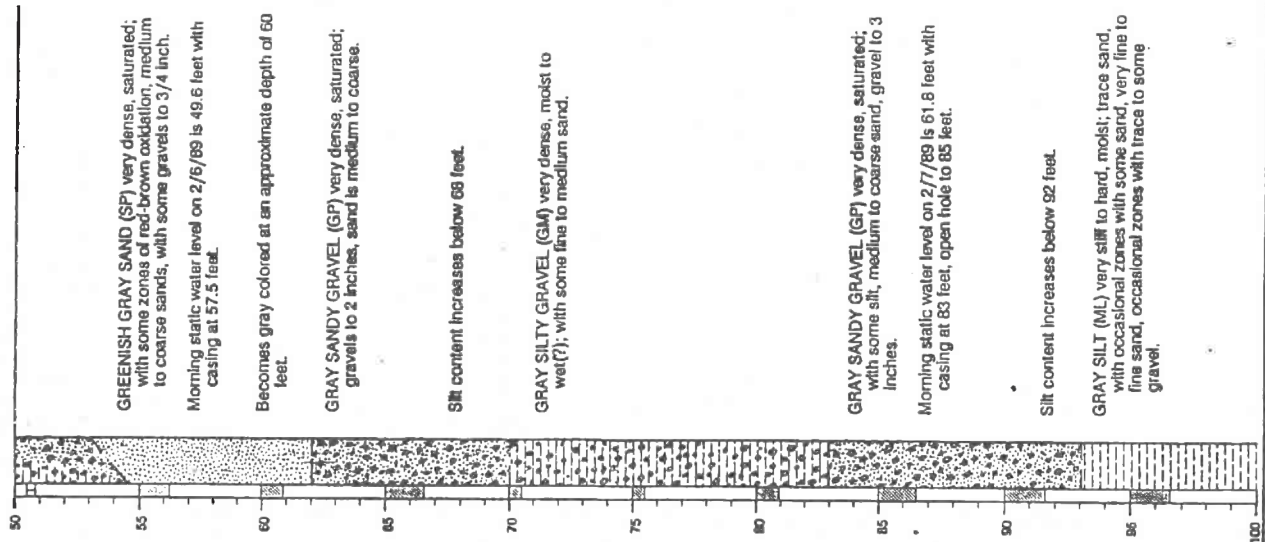
20 - 40 ft.
BAN GRAVEL & SILTY SAND





Equipment Speed Star 72 Cable Tcc.

Land Surface Elevation 300.5 feet Date 2/9/89



Applied Geotechnology Inc.
Geological Engineering
Geology & Hydrogeology

Log of Boring KGP-38 (0-100')

Kent Highlands Landfill RI/FS
Kent, Washington

JOB NUMBER
15.273.010

DB/NB

DRAWN

DATE
23 February 89

APPROVED

DATE

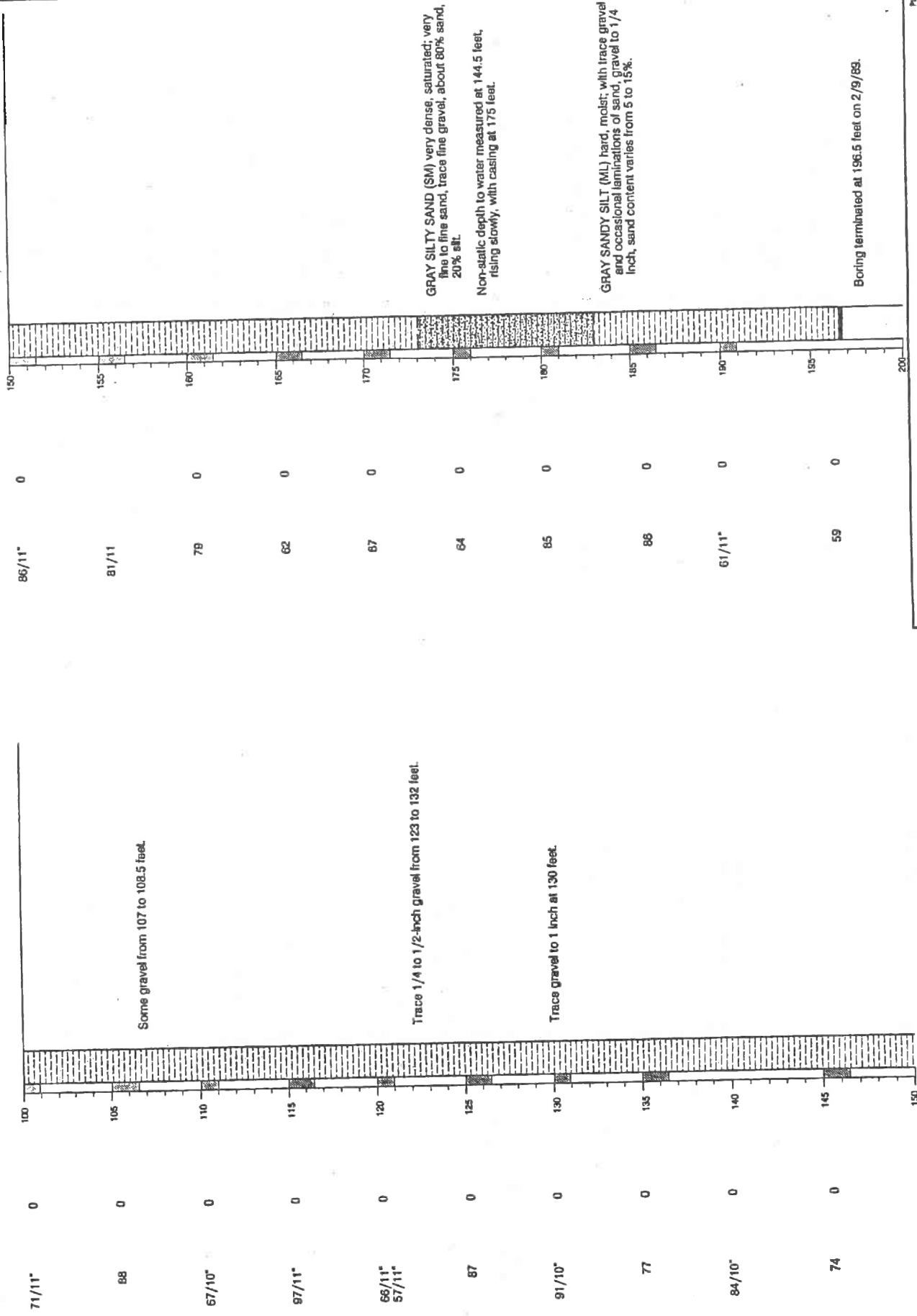
PLATE

T31

Equipment Speed Star 72 Cable Tool

Land Surface 300.5 feet Date 2/9/89

Elevation



APPLIED GEOTECHNOLOGY INC.
Geological Engineering
Geology & Hydrogeology

LOG OF BORING KGP-38 (100-196.5')
Kent Highlands Landfill RI/FS
Kent, Washington

JOE NUMBER 15.273.010
DATE 23 February 89
DRAWN DB/NB
APPROVED

PLATE T 32

RESOURCE PROTECTION WELL REPORT

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

CURRENT

22-4E-15M

Notice of Intent No.

AEO 3688

Construction/Decommission

☐ Construction

☒ Decommission ORIGINAL INSTALLATION Notice
of Intent Number _____

Consulting Firm Parametrix, Inc.

Unique Ecology Well ID _____

Tag No. _____

WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards.

Materials used and the information reported above are true to my best knowledge and belief.

☒ Driller ☐ Trainee Name (Print) Scott Krueger

Driller/Trainee Signature x [Signature]

Driller/Trainee License No. 2073

If trainee, licensed driller's _____

Signature and License No. _____

Type of Well

☒ Resource Protection

☐ Geotechnical Soil Boring

Property Owner Kent Highlands Landfill

Site Address 23076 Military Rd. S

City Kent

County 17-King

EWM

Location 1/4 NW 1/4 SW Sec 15 Twn 22N R 4E or _____ WWM

Lat/Long (s,t,r) Lat Deg _____ Lat Min/Sec _____
still Required) Long Deg _____ Long Min/Sec _____

Tax Parcel No. _____

Cased or Uncased Diameter 8 1/4

Static Level 142

Work/Decommission Start Date 8/4/2008

Work/Decommission Completed Date 8/8/2008

Construction/Design

Well Data W08-559

Formation Description

CONCRETE SURFACE SEAL

2 FT

0 - FT

BACKFILL

170 FT

0 - FT

Volclay grout

REQUIRED INFORMATION
(Must get one or both if available)

RECEIVED
AUG 29 2008
DEPT. OF ECOLOGY

DEPT OF ECOLOGY WELL TAG #: ALB 462

CLIENT WELL ID #: KGP-38BL

DEPTH OF BORING 172 FT

Scale 1" = _____

Page _____ of _____

ECY 050-12 (Rev=v 2/01)

RESOURCE PROTECTION WELL REPORT

CURRENT
Notice of Intent No. R66373

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

Construction/Decommission ("x" in circle) 228th St. Corridor 2004
Graded & Fill
☒ Construction
☐ Decommission ORIGINAL INSTALLATION Notice Project
of Intent Number _____

Type of Well ("x" in circle)
☒ Resource Protection
☐ Geotech Soil Boring

Consulting Firm Scarsella Bros.
Unique Ecology Well ID ALB 460
Tag No: _____

Property Owner City of Kent Public Works
Site Address S. 228th St & Frager Rd.
City Kent County: King
Location SE 1/4 NE 1/4 Sec 5 Twn 22N R 4E EWM circle or one WWM

WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

Lat/Long (s, t, r) still REQUIRED) Lat Deg 47 Lat Min/Sec 1
Long Deg 12 Long Min/Sec 1

☒ Driller ☐ Engineer ☐ Trainee Name (Print) Todd Meacham
Driller/Engineer/Trainee Signature [Signature]
Driller or Trainee License No. Kostelecky #2490 Meacham #2555

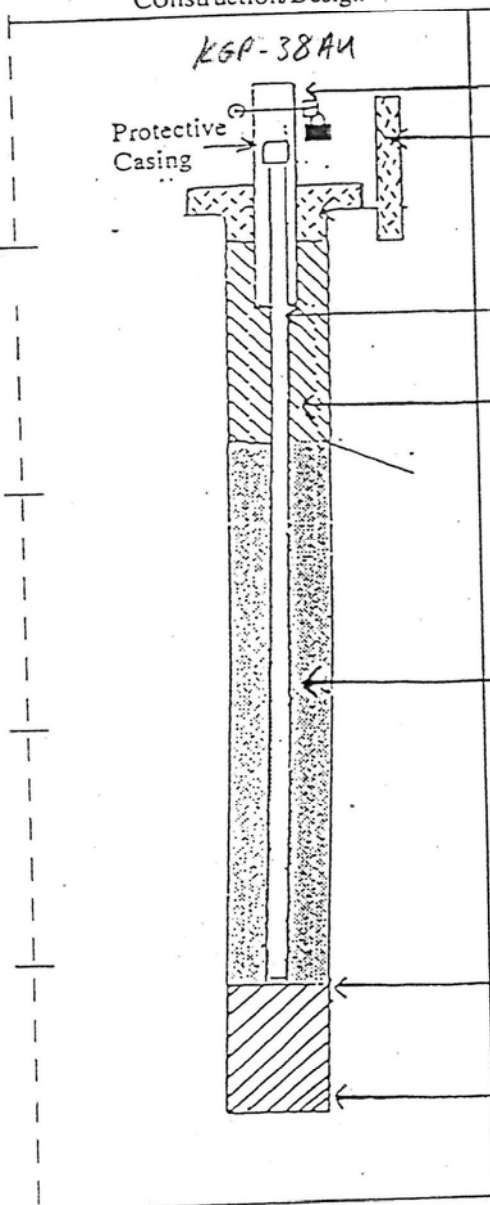
Tax Parcel No. 10
Cased or Uncased Diameter 3/4" Static Level _____
Work/Decommission Start Date 6-25-04
Work/Decommission Completed Date 6-25-04

If trainee, licensed driller's
Signature and License no. _____

Construction/Design

Well Data AW4017-10

Formation Description



Locking Cap
Protective Post
Concrete Surface Seal
Depth = 1/ft
Blank Casing 3/4" x 10'
Material Sch 80 pvc
Backfill 6 ft
Type: Bent Chips
Seal 72 ft
Material Bent Chips
Gravel Pack 12 ft
Material: ~~4-12 gravel~~ Per gravel
Screen 3/4" x 10'
Slot Size 0.10
Material Sch 80 pvc
Well Depth 20'
Backfill _____ ft
Material _____
Total Hole Depth 20'

0 - 20 ft.
Brown sandy gravel
____ ft.
____ ft.

RESOURCE PROTECTION WELL REPORT

CURRENT

Notice of Intent No. R66373

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

Construction/Decommission ("x" in circle) 228th St. Corridor 2004

☒ Construction

☐ Decommission ORIGINAL INSTALLATION Notice Graded Fill Project

of Intent Number _____

Consulting Firm Scarsella Bros.

Unique Ecology Well ID

Tag No: ALB 461

WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

☒ Driller ☐ Engineer ☐ Trainee Name (Print)

Driller/Engineer/Trainee Signature Ed Kostecky or Todd Mecham

Driller or Trainee License No. Kostecky #2490 Mecham #2555

If trainee, licensed driller's Signature and License no. _____

Type of Well ("x" in circle)

☒ Resource Protection

☐ Geotech Soil Boring

Property Owner City of Kent Public Works

Site Address S. 228th St & Frager Rd.

City Kent County: King

Location SE 1/4 NE 1/4 Sec 5 Twn 22N R 4E EWM circle or one WWM

Lat/Long (s, t, r) still REQUIRED Lat Deg 46 Lat Min/Sec 12 Long Deg 122 Long Min/Sec 42

Tax Parcel No. 11a

Cased or Uncased Diameter 3/4" Static Level _____

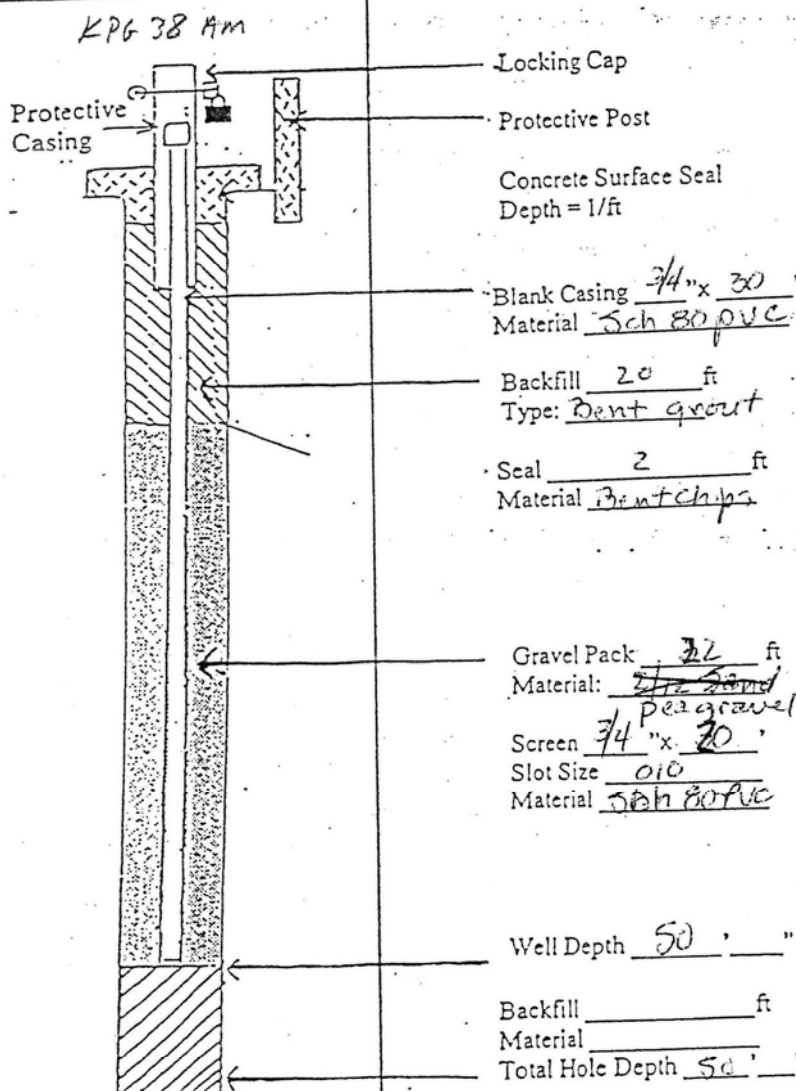
Work/Decommission Start Date 6-25-04

Work/Decommission Completed Date 6-25-04

Construction/Design

Well Data AW 4017-10

Formation Description



0 - 20 ft.
Brown sandy gravel

20 - 50 ft.
Gray silty sandy
~~gravel~~

- ft.

RESOURCE PROTECTION WELL REPORT

CURRENT

Notice of Intent No. R66373

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

Construction/Decommission ("x" in circle) 228th St. Corridor 2004

☒ Construction

☐ Decommission ORIGINAL INSTALLATION Notice Project

of Intent Number _____

Consulting Firm Scarsella Bros.

Unique Ecology Well ID

Tag No: ALB 462

WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

☒ Driller ☐ Engineer ☐ Trainee Name (Print)

Driller/Engineer/Trainee Signature Ed Kostecky or Todd Mechem

Driller or Trainee License No. Kostecky #2490 Mechem #2555

If trainee, licensed driller's Signature and License no. _____

Type of Well ("x" in circle)

☒ Resource Protection

☐ Geotech Soil Boring

Property Owner City of Kent Public Works

Site Address S. 228th St & Frager Rd.

City Kent County: King

Location SE 1/4 NE 1/4 Sec 5 Twn 22N R 4E EWM circle or one WWM

Lat/Long (s, t, r) Lat Deg W Lat Min/Sec 1
still REQUIRED) Long Deg 1 Long Min/Sec 1

Tax Parcel No. 1

Cased or Uncased Diameter 3/4" Static Level _____

Work/Decommission Start Date 6-21-04

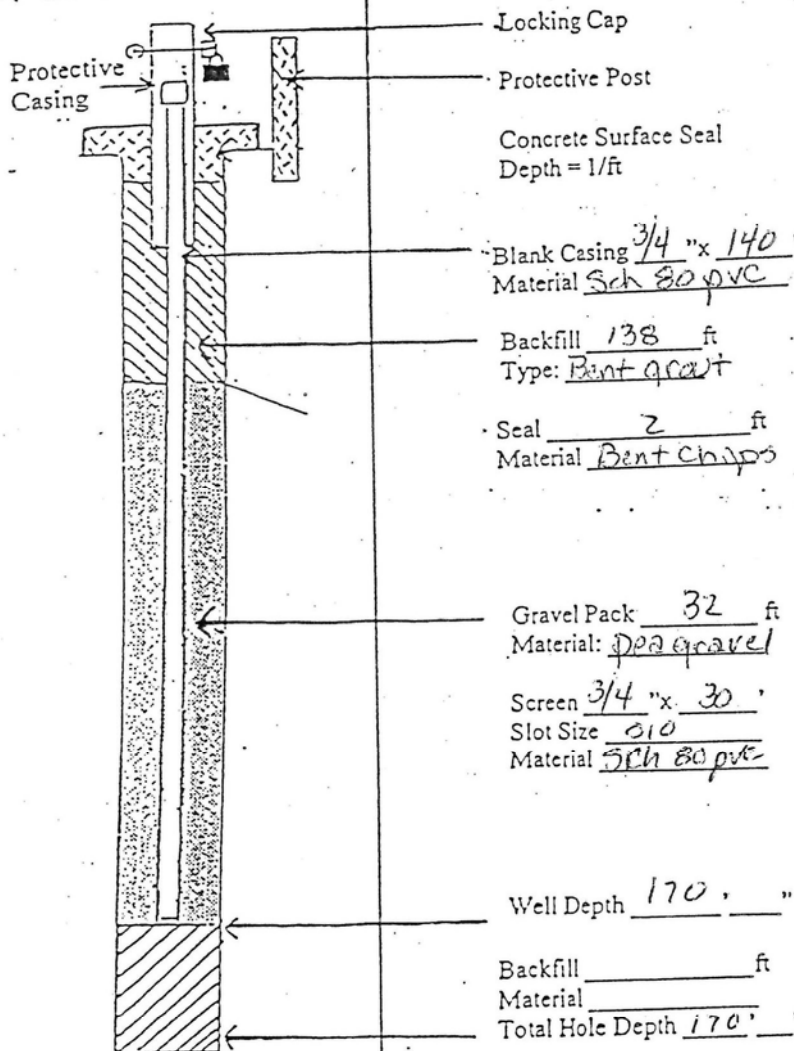
Work/Decommission Completed Date 6-23-04

Construction/Design

Well Data AW4017-10

Formation Description

KGP-38 AL



0 - 20 ft.

Brown sandy gravel

20 - 165 ft.

gray silty clay
sandy gravel

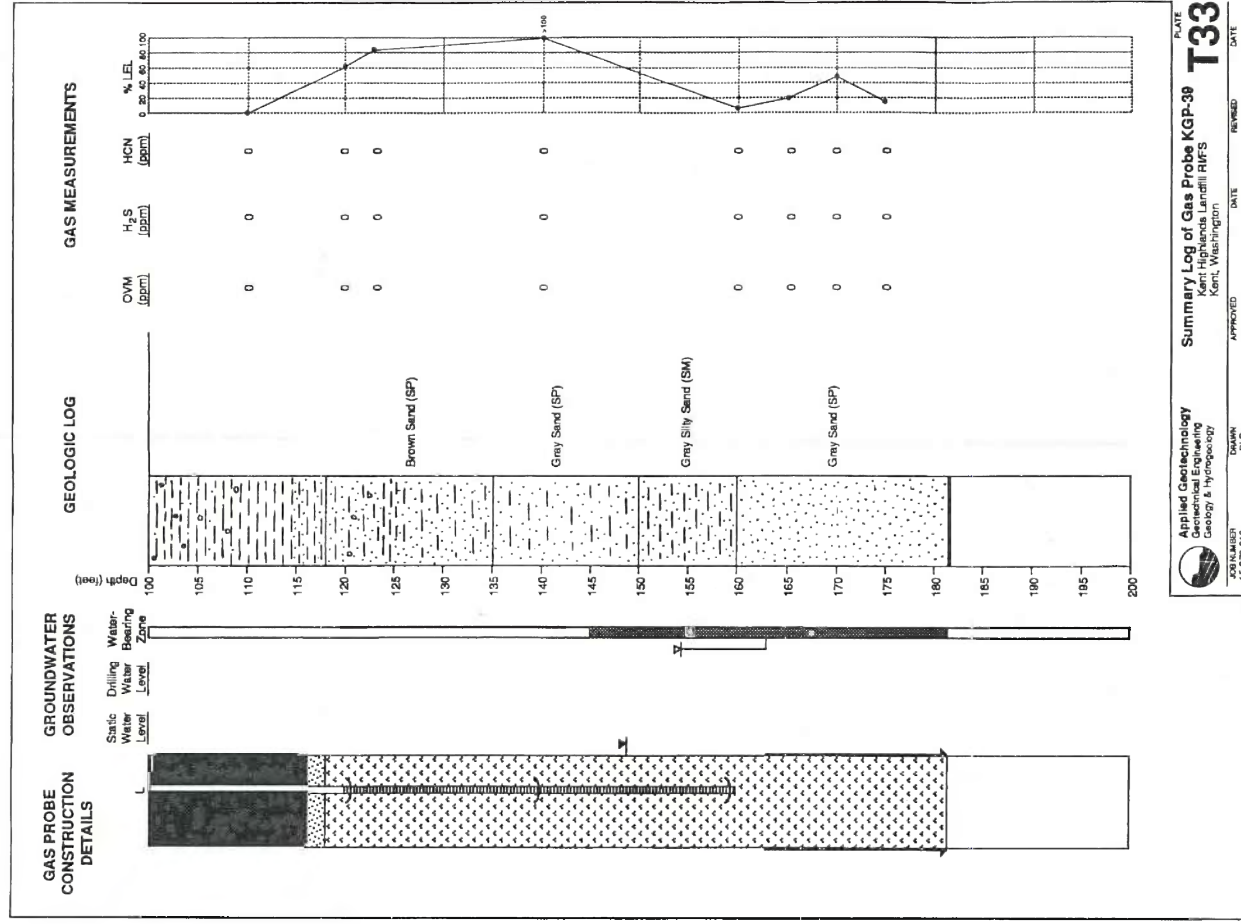
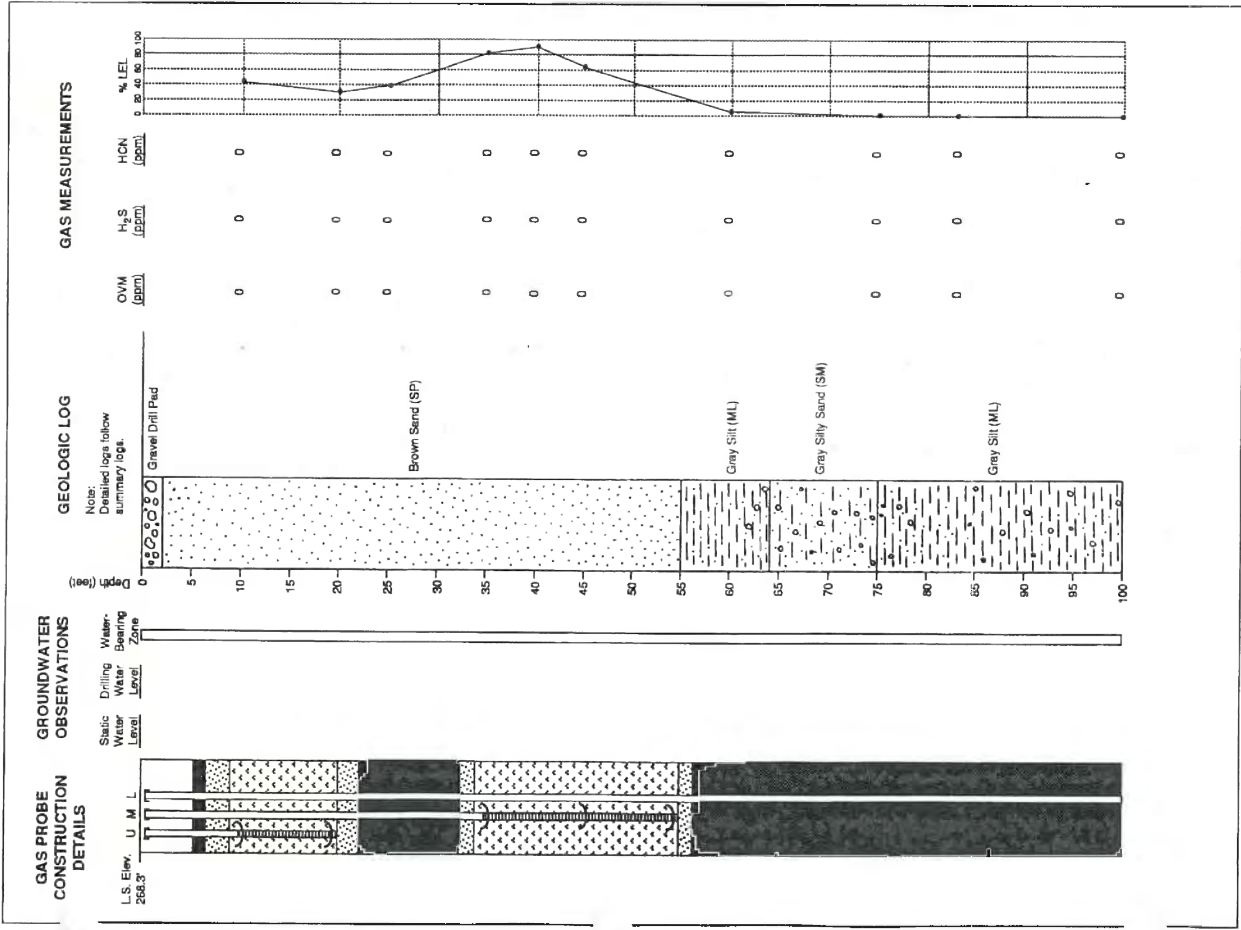
165 - 170 ft.

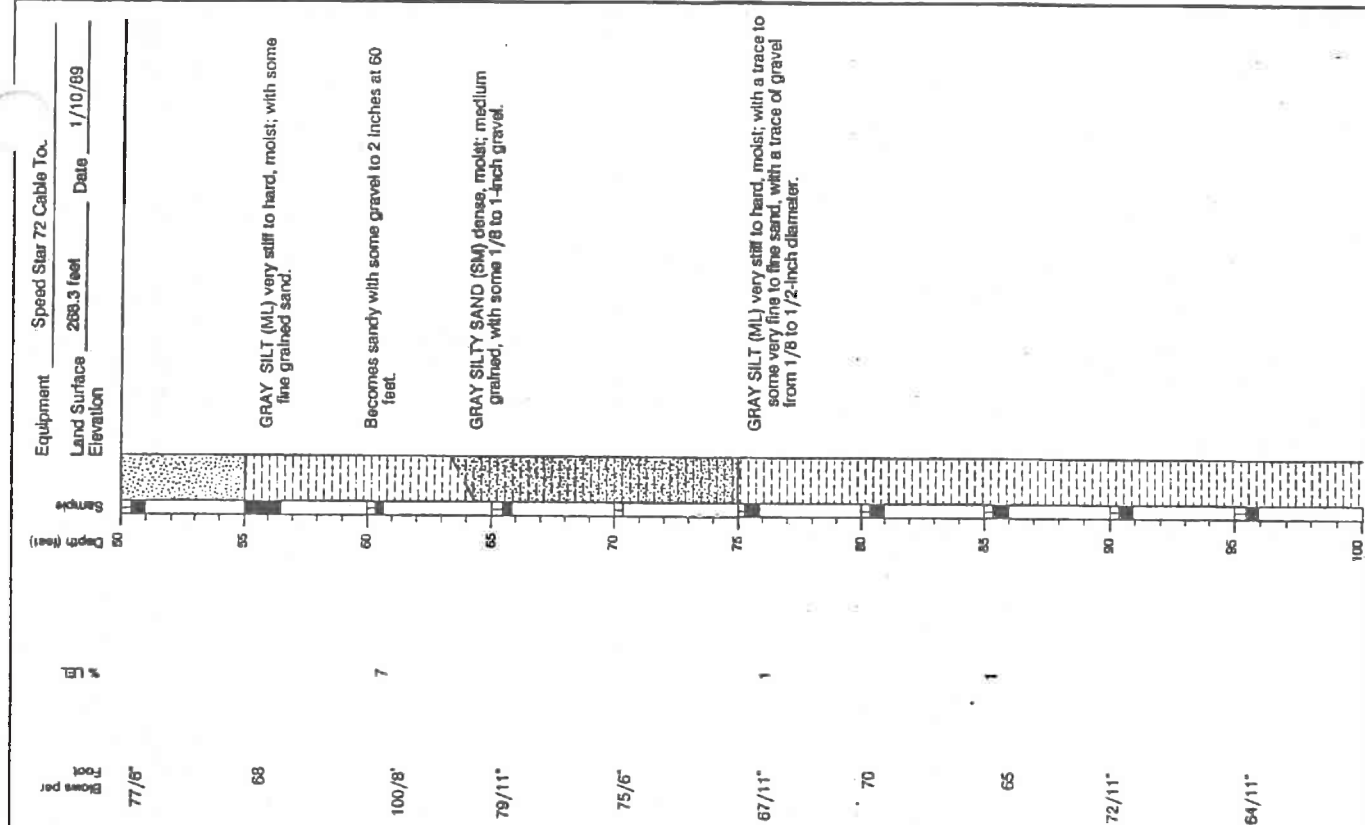
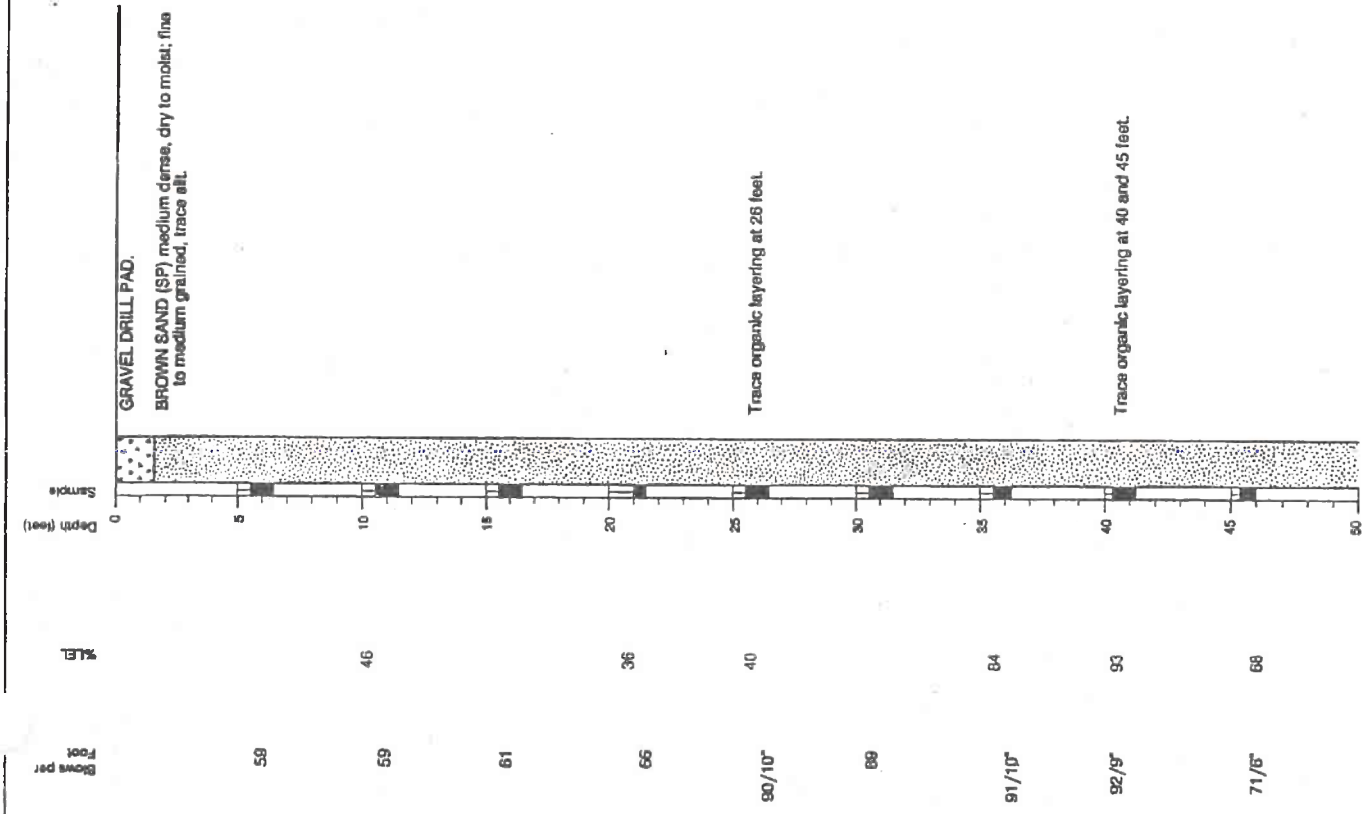
gray sandy gravels

Scale 1"= _____

Page _____ of _____

ECY 050-12 (Rev 2/01)





Equipment Speed Star 72 Cable To.
 Land Surface 288.3 feet Date 1/10/89
 Elevation

Applied Geotechnology Inc.
 Geological Engineering
 Geology & Hydrogeology

JOE HALLER
 15.273.010

Log of Boring KGP-39 (0-100')
 Kent Highlands Landfill RI/FS
 Kent, Washington

APPROVED _____ DATE 9 February 89

DATE _____

DAWN
 NB/DT

T34

Equipment Speed Star 72 Cable Tool

Land Surface Elevation 268.3 feet Date 1/10/89

Sample

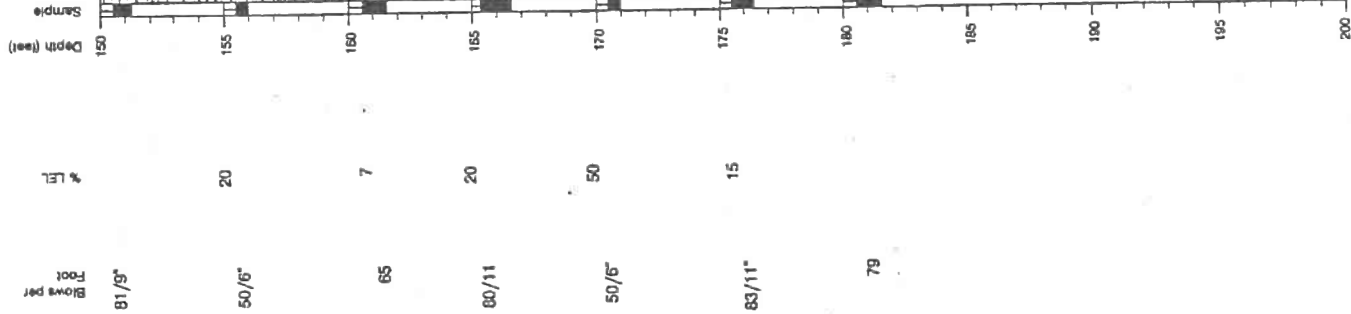
GRAY SILTY SAND (SM) medium dense, saturated; fine grained.

First groundwater seepage noted at 159 feet.

GRAY SAND (SP) very dense, saturated; fine to medium grained.

Static depth to water on 1/10/89 is 154.5 feet with casing at 163 feet.

Boring terminated on 1/10/89 at 181.5 feet.



DATE

Log of Boring KGP-39 (100-181.5') T35

Kent Highlands Landfill RI/FS
Kent, Washington

DATE

REVIEW

DATE

APPROVED

Applied Geotechnology Inc.

Geological Engineering
Geology & Hydrogeology



JOB NUMBER
15,273,010

DRAWN
NS/DT

